

Product competence

Drilling

\_DC160 ADVANCE SOLID CARBIDE DRILL

# X-treme Evo – the next generation of drilling.

**New!**  
THE FULL  
RANGE



# Walter innovations are setting standards.



## Walter innovations are setting standards worldwide

As a premium manufacturer of metal machining tools, Walter enjoys an excellent reputation among customers and users worldwide. Whether it is innovative milling bodies and indexable inserts, new drill concepts or multi-stage thread milling cutters: Walter is setting standards in turning, milling, drilling and threading – across the industry. More than 35% of the products we sell are less than five years old. With our innovations, we are ensuring that tools from Walter will continue to rank among the best in future.

## B – Drilling

### Drilling from solid – B1

---

|  |   |    |
|--|---|----|
| Solid carbide drilling and reaming tools | Product range overview                          | 4  |
|  | Solid carbide drills – with internal coolant    | 5  |
|  | Solid carbide drills – without internal coolant | 31 |

### Technical information – B1

---

|  |              |    |
|--|--------------|----|
| Solid carbide drilling and reaming tools | Cutting data | 46 |
|--|--------------|----|

## Product range overview of solid carbide drilling and reaming tools

### Solid carbide drills – with internal coolant

|                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Machining       |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| Drilling depth  | 3 x D <sub>c</sub>              | 3 x D <sub>c</sub>              | 5 x D <sub>c</sub>              | 8 x D <sub>c</sub>              | 12 x D <sub>c</sub>             | 16 x D <sub>c</sub>             | 20 x D <sub>c</sub>             | 25 x D <sub>c</sub>             | 30 x D <sub>c</sub>             |
| Designation     | DC260<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo |
| Standard        | Walter                          | DIN 6537 K                      | DIN 6537 L                      | Walter                          | Walter                          | Walter                          | Walter                          | Walter                          | Walter                          |
| Dia. range [mm] | 3,3–14                          | 3–20                            | 3–25                            | 3–20                            | 3–20                            | 3–16                            | 3–16                            | 3–12                            | 3–12                            |
| Page            | 5                               | 6                               | 13                              | 21                              | 24                              | 27                              | 28                              | 29                              | 30                              |
|                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |

## Product range overview of solid carbide drilling and reaming tools

### Solid carbide drills – without internal coolant

|                 |                                 |                                 |                                 |
|-----------------|---------------------------------|---------------------------------|---------------------------------|
| Machining       |                                 |                                 |                                 |
| Drilling depth  | 3 x D <sub>c</sub>              | 3 x D <sub>c</sub>              | 5 x D <sub>c</sub>              |
| Designation     | DC260<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo | DC160<br>Advance<br>X-treme Evo |
| Standard        | Walter                          | DIN 6537 K                      | DIN 6537 L                      |
| Dia. range [mm] | 3,3–14,5                        | 3–20                            | 3–25                            |
| Page            | 31                              | 32                              | 39                              |
|                 |                                 |                                 |                                 |

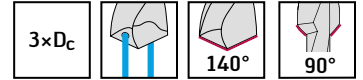
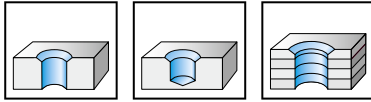
# Solid carbide chamfer drills with coolant-through

## DC260 Advance

### X-treme Evo



- Step length in accordance with DIN 8378
- For thread core hole drilling



|        |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|
|        | P | M | K | N | S | H | O |
| WJ30ET | ● | ● | ● | ● | ● | ● | ● |

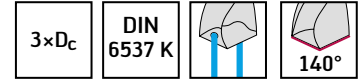
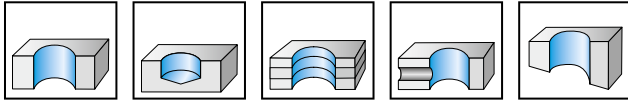
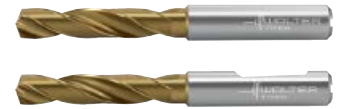
|                       | Designation        | For thread | D <sub>c</sub><br>m7<br>mm | d <sub>10</sub><br>h7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|------------|----------------------------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC260-03-03.300A1- | M 4        | 3,3                        | 5                           | 11                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                       | DC260-03-04.200A1- | M 5        | 4,2                        | 6                           | 14                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                       | DC260-03-05.000A1- | M 6        | 5                          | 8                           | 17                   | 79                   | 41                   | 36                   | 8                          | ●      |
|                       | DC260-03-06.800A1- | M 8        | 6,8                        | 10                          | 21                   | 89                   | 47                   | 40                   | 10                         | ●      |
|                       | DC260-03-08.500A1- | M 10       | 8,5                        | 12                          | 26                   | 102                  | 55                   | 45                   | 12                         | ●      |
|                       | DC260-03-10.200A1- | M 12       | 10,2                       | 14                          | 30                   | 107                  | 60                   | 45                   | 14                         | ●      |
|                       | DC260-03-12.000A1- | M 14       | 12                         | 16                          | 35                   | 115                  | 65                   | 48                   | 16                         | ●      |
|                       | DC260-03-14.000A1- | M 16       | 14                         | 18                          | 39                   | 123                  | 73                   | 48                   | 18                         | ●      |
| Shank DIN 6535 HE<br> | DC260-03-03.300F1- | M 4        | 3,3                        | 5                           | 11                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                       | DC260-03-04.200F1- | M 5        | 4,2                        | 6                           | 14                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                       | DC260-03-05.000F1- | M 6        | 5                          | 8                           | 17                   | 79                   | 41                   | 36                   | 8                          | ●      |
|                       | DC260-03-06.800F1- | M 8        | 6,8                        | 10                          | 21                   | 89                   | 47                   | 40                   | 10                         | ●      |
|                       | DC260-03-08.500F1- | M 10       | 8,5                        | 12                          | 26                   | 102                  | 55                   | 45                   | 12                         | ●      |
|                       | DC260-03-10.200F1- | M 12       | 10,2                       | 14                          | 30                   | 107                  | 60                   | 45                   | 14                         | ●      |
|                       | DC260-03-12.000F1- | M 14       | 12                         | 16                          | 35                   | 115                  | 65                   | 48                   | 16                         | ●      |
|                       | DC260-03-14.000F1- | M 16       | 14                         | 18                          | 39                   | 123                  | 73                   | 48                   | 18                         | ●      |

Ordering example for the WJ30ET grade: DC260-03-03.300A1-WJ30ET

# Solid carbide drills with coolant-through

## DC160 Advance

### X-treme Evo

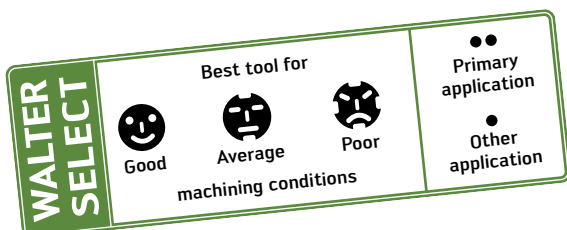


|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| P | M | K | N | S | H | O |
| ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-03-03.000A1- | 3                          |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.100A1- | 3,1                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.175A1- | 3,175                      | 1/8"                       | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.200A1- | 3,2                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.250A1- | 3,25                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.300A1- | 3,3                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.400A1- | 3,4                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.500A1- | 3,5                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.572A1- | 3,572                      | 9/64"                      | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.600A1- | 3,6                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.650A1- | 3,65                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.700A1- | 3,7                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.800A1- | 3,8                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-03.900A1- | 3,9                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-03.969A1- | 3,969                      | 5/32"                      | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.000A1- | 4                          |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.100A1- | 4,1                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.200A1- | 4,2                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.300A1- | 4,3                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.366A1- | 4,366                      | 11/64"                     | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.400A1- | 4,4                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.500A1- | 4,5                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.600A1- | 4,6                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.650A1- | 4,65                       |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.700A1- | 4,7                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.763A1- | 4,763                      | 3/16"                      | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-04.800A1- | 4,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-04.900A1- | 4,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.000A1- | 5                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.100A1- | 5,1                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.159A1- | 5,159                      | 13/64"                     | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.200A1- | 5,2                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.300A1- | 5,3                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.400A1- | 5,4                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.500A1- | 5,5                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.550A1- | 5,55                       |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.556A1- | 5,556                      | 7/32"                      | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.600A1- | 5,6                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.700A1- | 5,7                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.800A1- | 5,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.900A1- | 5,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.953A1- | 5,953                      | 15/64"                     | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-06.000A1- | 6                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued



Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-03-06.100A1-         |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ⊗      |   |
|  |                    | DC160-03-06.200A1-         |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ⊗      |   |
|  |                    | DC160-03-06.300A1-         |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ⊗      |   |
|  |                    | DC160-03-06.350A1-         | 6,35                       | 1/4"                 | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.400A1-         | 6,4                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.500A1-         | 6,5                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.600A1-         | 6,6                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.700A1-         | 6,7                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.747A1-         | 6,747                      | 17/64"               | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.800A1-         | 6,8                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.900A1-         | 6,9                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.000A1-         | 7                          |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.100A1-         | 7,1                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.144A1-         | 7,144                      | 9/32"                | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.200A1-         | 7,2                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.300A1-         | 7,3                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.400A1-         | 7,4                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.500A1-         | 7,5                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.541A1-         | 7,541                      | 19/64"               | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.550A1-         | 7,55                       |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.600A1-         | 7,6                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.700A1-         | 7,7                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.800A1-         | 7,8                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.900A1-         | 7,9                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.938A1-         | 7,938                      | 5/16"                | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-08.000A1-         | 8                          |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-08.100A1-         | 8,1                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.200A1-         | 8,2                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.300A1-         | 8,3                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.334A1-         | 8,334                      | 21/64"               | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.400A1-         | 8,4                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.500A1-         | 8,5                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.600A1-         | 8,6                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.700A1-         | 8,7                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.731A1-         | 8,731                      | 11/32"               | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.800A1-         | 8,8                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.900A1-         | 8,9                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-09.000A1-         | 9                          |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-09.100A1-         | 9,1                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-09.128A1-         | 9,128                      | 23/64"               | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  | DC160-03-09.200A1- | 9,2                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.300A1- | 9,3                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.400A1- | 9,4                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.500A1- | 9,5                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.525A1- | 9,525                      | 3/8"                       | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.550A1- | 9,55                       |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.600A1- | 9,6                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.700A1- | 9,7                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.800A1- | 9,8                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.900A1- | 9,9                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.922A1- | 9,922                      | 25/64"                     | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-10.000A1- | 10                         |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-10.100A1- | 10,1                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.200A1- | 10,2                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.300A1- | 10,3                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.319A1- | 10,319                     | 13/32"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.400A1- | 10,4                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.500A1- | 10,5                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.600A1- | 10,6                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.700A1- | 10,7                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.716A1- | 10,716                     | 27/64"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

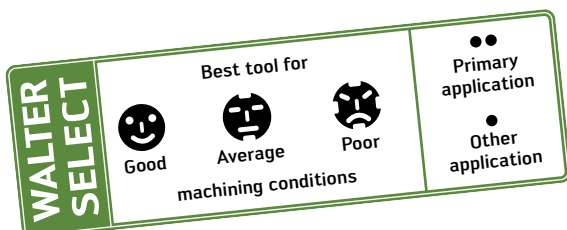
Continued

Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | DC160-03-10.800A1- | 10,8                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-10.900A1- | 10,9                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.000A1- | 11                         |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.100A1- | 11,1                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.113A1- | 11,113                     | 7/16"                      | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.200A1- | 11,2                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.300A1- | 11,3                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.400A1- | 11,4                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.500A1- | 11,5                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.509A1- | 11,509                     | 29/64"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.550A1- | 11,55                      |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.600A1- | 11,6                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.700A1- | 11,7                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.800A1- | 11,8                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.900A1- | 11,9                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-11.906A1- | 11,906                     | 15/32"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-12.000A1- | 12                         |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                    | DC160-03-12.100A1- | 12,1                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.200A1- | 12,2                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.250A1- | 12,25                      |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.300A1- | 12,3                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.303A1- | 12,303                     | 31/64"                     | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.400A1- | 12,4                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.500A1- | 12,5                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.600A1- | 12,6                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.700A1- | 12,7                       | 1/2"                       | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.750A1- | 12,75                      |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.800A1- | 12,8                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-12.900A1- | 12,9                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.000A1- | 13                         |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.100A1- | 13,1                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.200A1- | 13,2                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.300A1- | 13,3                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.400A1- | 13,4                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.494A1- | 13,494                     | 17/32"                     | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.500A1- | 13,5                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.600A1- | 13,6                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.700A1- | 13,7                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.800A1- | 13,8                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                    | DC160-03-13.900A1- | 13,9                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
| DC160-03-14.000A1- | 14                 |                            | 43                         | 107                  | 60                   | 45                   | 14                   | ☺                          |        |
| DC160-03-14.100A1- | 14,1               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.200A1- | 14,2               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.288A1- | 14,288             | 9/16"                      | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.300A1- | 14,3               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.400A1- | 14,4               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.500A1- | 14,5               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.600A1- | 14,6               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.700A1- | 14,7               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.750A1- | 14,75              |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.800A1- | 14,8               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.000A1- | 15                 |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.100A1- | 15,1               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.200A1- | 15,2               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.300A1- | 15,3               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.500A1- | 15,5               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.600A1- | 15,6               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued





Continued

|                       | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC160-03-15.700A1- | 15,7                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-15.800A1- | 15,8                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-15.875A1- | 15,875                     | 5/8"                       | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-15.900A1- | 15,9                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-16.000A1- | 16                         |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-16.100A1- | 16,1                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.200A1- | 16,2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.300A1- | 16,3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.400A1- | 16,4                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.500A1- | 16,5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.600A1- | 16,6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.700A1- | 16,7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.750A1- | 16,75                      |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.800A1- | 16,8                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.000A1- | 17                         |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.200A1- | 17,2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.300A1- | 17,3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.500A1- | 17,5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.600A1- | 17,6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.700A1- | 17,7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
| DC160-03-17.800A1-    | 17,8               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊗                          |        |
| DC160-03-18.000A1-    | 18                 |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊗                          |        |
| DC160-03-18.200A1-    | 18,2               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-18.500A1-    | 18,5               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-18.700A1-    | 18,7               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-18.800A1-    | 18,8               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.000A1-    | 19                 |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.050A1-    | 19,05              | 3/4"                       | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.500A1-    | 19,5               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.700A1-    | 19,7               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.800A1-    | 19,8               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-20.000A1-    | 20                 |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| Shank DIN 6535 HE<br> | DC160-03-03.000F1- | 3                          |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.100F1- | 3,1                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.200F1- | 3,2                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.250F1- | 3,25                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.300F1- | 3,3                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.400F1- | 3,4                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.500F1- | 3,5                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.600F1- | 3,6                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.650F1- | 3,65                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.700F1- | 3,7                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.800F1- | 3,8                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.900F1- | 3,9                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.000F1- | 4                          |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.100F1- | 4,1                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.200F1- | 4,2                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.300F1- | 4,3                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.400F1- | 4,4                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.500F1- | 4,5                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.600F1- | 4,6                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.650F1- | 4,65                       |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.700F1- | 4,7                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.800F1- | 4,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.900F1- | 4,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.000F1- | 5                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.100F1- | 5,1                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.200F1- | 5,2                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.300F1- | 5,3                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
| DC160-03-05.400F1-    | 5,4                |                            | 20                         | 66                   | 28                   | 36                   | 6                    | ⊗                          |        |
| DC160-03-05.500F1-    | 5,5                |                            | 20                         | 66                   | 28                   | 36                   | 6                    | ⊗                          |        |

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

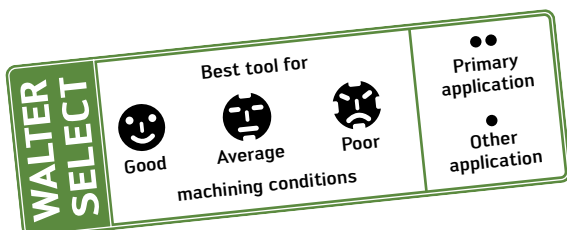
Continued

Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | DC160-03-05.550F1- | 5,55                       |                            | 20                   | 66                   | 28                   | 36                   | 6                          |        |
|                    | DC160-03-05.600F1- | 5,6                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          |        |
|                    | DC160-03-05.700F1- | 5,7                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          |        |
|                    | DC160-03-05.800F1- | 5,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          |        |
|                    | DC160-03-05.900F1- | 5,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          |        |
|                    | DC160-03-06.000F1- | 6                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          |        |
|                    | DC160-03-06.100F1- | 6,1                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.200F1- | 6,2                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.300F1- | 6,3                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.400F1- | 6,4                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.500F1- | 6,5                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.600F1- | 6,6                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.700F1- | 6,7                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.800F1- | 6,8                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-06.900F1- | 6,9                        |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-07.000F1- | 7                          |                            | 24                   | 79                   | 34                   | 36                   | 8                          |        |
|                    | DC160-03-07.100F1- | 7,1                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.200F1- | 7,2                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.300F1- | 7,3                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.400F1- | 7,4                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.500F1- | 7,5                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.550F1- | 7,55                       |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.600F1- | 7,6                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.700F1- | 7,7                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.800F1- | 7,8                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-07.900F1- | 7,9                        |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-08.000F1- | 8                          |                            | 29                   | 79                   | 41                   | 36                   | 8                          |        |
|                    | DC160-03-08.100F1- | 8,1                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.200F1- | 8,2                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.300F1- | 8,3                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.400F1- | 8,4                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.500F1- | 8,5                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.600F1- | 8,6                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.700F1- | 8,7                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
|                    | DC160-03-08.800F1- | 8,8                        |                            | 35                   | 89                   | 47                   | 40                   | 10                         |        |
| DC160-03-08.900F1- | 8,9                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.000F1- | 9                  |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.100F1- | 9,1                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.200F1- | 9,2                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.300F1- | 9,3                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.400F1- | 9,4                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.500F1- | 9,5                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.550F1- | 9,55               |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.600F1- | 9,6                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.700F1- | 9,7                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.800F1- | 9,8                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-09.900F1- | 9,9                |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-10.000F1- | 10                 |                            | 35                         | 89                   | 47                   | 40                   | 10                   |                            |        |
| DC160-03-10.100F1- | 10,1               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.200F1- | 10,2               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.300F1- | 10,3               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.400F1- | 10,4               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.500F1- | 10,5               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.600F1- | 10,6               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.700F1- | 10,7               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.800F1- | 10,8               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |
| DC160-03-10.900F1- | 10,9               |                            | 40                         | 102                  | 55                   | 45                   | 12                   |                            |        |

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued



Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | DC160-03-11.000F1- | 11                         |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.100F1- | 11.1                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.200F1- | 11.2                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.300F1- | 11.3                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.400F1- | 11.4                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.500F1- | 11.5                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.550F1- | 11.55                      |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.600F1- | 11.6                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.700F1- | 11.7                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.800F1- | 11.8                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-11.900F1- | 11.9                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-12.000F1- | 12                         |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊕      |
|                    | DC160-03-12.100F1- | 12.1                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.200F1- | 12.2                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.250F1- | 12.25                      |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.300F1- | 12.3                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.400F1- | 12.4                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.500F1- | 12.5                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.600F1- | 12.6                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.700F1- | 12.7                       | 1/2"                       | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.750F1- | 12.75                      |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.800F1- | 12.8                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-12.900F1- | 12.9                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.000F1- | 13                         |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.100F1- | 13.1                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.200F1- | 13.2                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.300F1- | 13.3                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.400F1- | 13.4                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.500F1- | 13.5                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.600F1- | 13.6                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.700F1- | 13.7                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.800F1- | 13.8                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-13.900F1- | 13.9                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-14.000F1- | 14                         |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ⊕      |
|                    | DC160-03-14.100F1- | 14.1                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊕      |
|                    | DC160-03-14.200F1- | 14.2                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊕      |
|                    | DC160-03-14.300F1- | 14.3                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊕      |
| DC160-03-14.400F1- | 14.4               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-14.500F1- | 14.5               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-14.600F1- | 14.6               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-14.700F1- | 14.7               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-14.750F1- | 14.75              |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-14.800F1- | 14.8               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.000F1- | 15                 |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.100F1- | 15.1               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.200F1- | 15.2               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.300F1- | 15.3               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.500F1- | 15.5               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.600F1- | 15.6               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.700F1- | 15.7               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.800F1- | 15.8               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-15.900F1- | 15.9               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-16.000F1- | 16                 |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ⊕                          |        |
| DC160-03-16.100F1- | 16.1               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.200F1- | 16.2               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.300F1- | 16.3               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.400F1- | 16.4               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.500F1- | 16.5               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.600F1- | 16.6               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.700F1- | 16.7               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |
| DC160-03-16.750F1- | 16.75              |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊕                          |        |

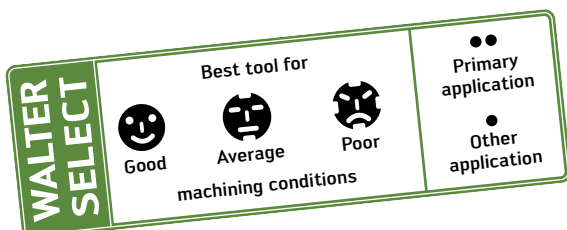
Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|  | Shank DIN 6535 HE  |                            |                            |                      |                      |                      |                      |                            |        |
|  | DC160-03-16.800F1- | 16,8                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.000F1- | 17                         |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.200F1- | 17,2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.300F1- | 17,3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.500F1- | 17,5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.600F1- | 17,6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.700F1- | 17,7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-17.800F1- | 17,8                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-18.000F1- | 18                         |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|  | DC160-03-18.200F1- | 18,2                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-18.500F1- | 18,5                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-18.700F1- | 18,7                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-18.800F1- | 18,8                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-19.000F1- | 19                         |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-19.500F1- | 19,5                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-19.700F1- | 19,7                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-19.800F1- | 19,8                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|  | DC160-03-20.000F1- | 20                         |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |

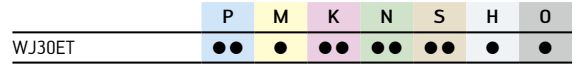
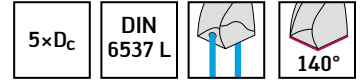
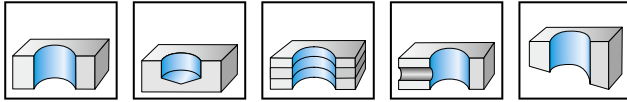
Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET



# Solid carbide drills with coolant-through

## DC160 Advance

### X-treme Evo



| Designation        | D <sub>c</sub> | D <sub>c</sub> | L <sub>c</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>5</sub> | d <sub>1</sub> | WJ30ET |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|
|                    | m7             | Inch/no.       | mm             | mm             | mm             | mm             | h6             |        |
| DC160-05-03.000A1- | 3              |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.100A1- | 3,1            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.175A1- | 3,175          | 1/8"           | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.200A1- | 3,2            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.250A1- | 3,25           |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.300A1- | 3,3            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.400A1- | 3,4            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.500A1- | 3,5            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.572A1- | 3,572          | 9/64"          | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.600A1- | 3,6            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.650A1- | 3,65           |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.700A1- | 3,7            |                | 23             | 66             | 28             | 36             | 6              | ●      |
| DC160-05-03.800A1- | 3,8            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-03.900A1- | 3,9            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-03.969A1- | 3,969          | 5/32"          | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.000A1- | 4              |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.100A1- | 4,1            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.200A1- | 4,2            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.300A1- | 4,3            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.366A1- | 4,366          | 11/64"         | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.400A1- | 4,4            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.500A1- | 4,5            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.600A1- | 4,6            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.650A1- | 4,65           |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.700A1- | 4,7            |                | 29             | 74             | 36             | 36             | 6              | ●      |
| DC160-05-04.763A1- | 4,763          | 3/16"          | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-04.800A1- | 4,8            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-04.900A1- | 4,9            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.000A1- | 5              |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.100A1- | 5,1            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.159A1- | 5,159          | 13/64"         | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.200A1- | 5,2            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.300A1- | 5,3            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.400A1- | 5,4            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.500A1- | 5,5            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.550A1- | 5,55           |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.556A1- | 5,556          | 7/32"          | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.600A1- | 5,6            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.700A1- | 5,7            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.800A1- | 5,8            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.900A1- | 5,9            |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-05.953A1- | 5,953          | 15/64"         | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-06.000A1- | 6              |                | 35             | 82             | 44             | 36             | 6              | ●      |
| DC160-05-06.100A1- | 6,1            |                | 43             | 91             | 53             | 36             | 8              | ●      |
| DC160-05-06.200A1- | 6,2            |                | 43             | 91             | 53             | 36             | 8              | ●      |
| DC160-05-06.300A1- | 6,3            |                | 43             | 91             | 53             | 36             | 8              | ●      |
| DC160-05-06.350A1- | 6,35           | 1/4"           | 43             | 91             | 53             | 36             | 8              | ●      |

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

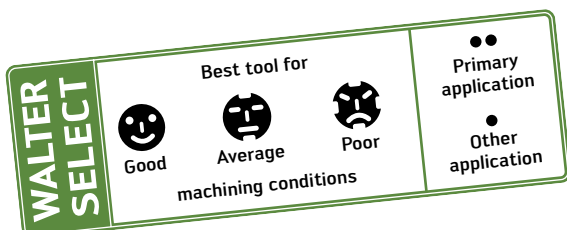
Continued

Continued

|                    | Designation        | D <sub>c</sub><br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | DC160-05-06.400A1- | 6,4                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.500A1- | 6,5                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.600A1- | 6,6                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.700A1- | 6,7                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.747A1- | 6,747                | 17/64"                     | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.800A1- | 6,8                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.900A1- | 6,9                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.000A1- | 7                    |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.100A1- | 7,1                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.144A1- | 7,144                | 9/32"                      | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.200A1- | 7,2                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.300A1- | 7,3                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.400A1- | 7,4                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.500A1- | 7,5                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.541A1- | 7,541                | 19/64"                     | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.550A1- | 7,55                 |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.600A1- | 7,6                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.700A1- | 7,7                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.800A1- | 7,8                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.900A1- | 7,9                  |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.938A1- | 7,938                | 5/16"                      | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-08.000A1- | 8                    |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-08.100A1- | 8,1                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.200A1- | 8,2                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.300A1- | 8,3                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.334A1- | 8,334                | 21/64"                     | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.400A1- | 8,4                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.500A1- | 8,5                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.600A1- | 8,6                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.700A1- | 8,7                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.731A1- | 8,731                | 11/32"                     | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.800A1- | 8,8                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.900A1- | 8,9                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.000A1- | 9                    |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.100A1- | 9,1                  |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.128A1- | 9,128                | 23/64"                     | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
| DC160-05-09.200A1- | 9,2                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.300A1- | 9,3                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.400A1- | 9,4                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.500A1- | 9,5                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.525A1- | 9,525              | 3/8"                 | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.550A1- | 9,55               |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.600A1- | 9,6                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.700A1- | 9,7                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.800A1- | 9,8                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.900A1- | 9,9                |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.922A1- | 9,922              | 25/64"               | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-10.000A1- | 10                 |                      | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-10.100A1- | 10,1               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.200A1- | 10,2               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.300A1- | 10,3               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.319A1- | 10,319             | 13/32"               | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.400A1- | 10,4               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.500A1- | 10,5               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.600A1- | 10,6               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.700A1- | 10,7               |                      | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.716A1- | 10,716             | 27/64"               | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued



Continued

|                       | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC160-05-10.800A1- | 10,8                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-10.900A1- | 10,9                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.000A1- | 11                         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.100A1- | 11,1                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.113A1- | 11,113                     | 7/16"                      | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.200A1- | 11,2                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.300A1- | 11,3                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.400A1- | 11,4                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.500A1- | 11,5                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.509A1- | 11,509                     | 29/64"                     | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.550A1- | 11,55                      |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.600A1- | 11,6                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.700A1- | 11,7                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.800A1- | 11,8                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.900A1- | 11,9                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-11.906A1- | 11,906                     | 15/32"                     | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-12.000A1- | 12                         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ⊗      |
|                       | DC160-05-12.100A1- | 12,1                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.200A1- | 12,2                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.250A1- | 12,25                      |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.300A1- | 12,3                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.303A1- | 12,303                     | 31/64"                     | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.400A1- | 12,4                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.500A1- | 12,5                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.600A1- | 12,6                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.700A1- | 12,7                       | 1/2"                       | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.750A1- | 12,75                      |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.800A1- | 12,8                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-12.900A1- | 12,9                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-13.000A1- | 13                         |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-13.100A1- | 13,1                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-13.200A1- | 13,2                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-13.300A1- | 13,3                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-13.400A1- | 13,4                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
|                       | DC160-05-13.494A1- | 13,494                     | 17/32"                     | 60                   | 124                  | 77                   | 45                   | 14                         | ⊗      |
| DC160-05-13.500A1-    | 13,5               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ⊗                          |        |
| DC160-05-13.600A1-    | 13,6               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ⊗                          |        |
| DC160-05-13.700A1-    | 13,7               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ⊗                          |        |
| DC160-05-13.800A1-    | 13,8               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ⊗                          |        |
| DC160-05-13.900A1-    | 13,9               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ⊗                          |        |
| DC160-05-14.000A1-    | 14                 |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ⊗                          |        |
| DC160-05-14.100A1-    | 14,1               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.200A1-    | 14,2               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.288A1-    | 14,288             | 9/16"                      | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.300A1-    | 14,3               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.400A1-    | 14,4               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.500A1-    | 14,5               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.600A1-    | 14,6               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.700A1-    | 14,7               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.750A1-    | 14,75              |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.800A1-    | 14,8               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-14.900A1-    | 14,9               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.000A1-    | 15                 |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.100A1-    | 15,1               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.200A1-    | 15,2               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.300A1-    | 15,3               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.400A1-    | 15,4               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.500A1-    | 15,5               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.600A1-    | 15,6               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.700A1-    | 15,7               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |
| DC160-05-15.800A1-    | 15,8               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ⊗                          |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

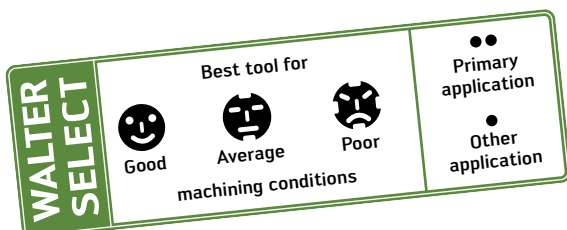
Continued

Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-05-15.875A1-         | 15,875                     | 5/8"                 | 63                   | 133                  | 83                   | 48                         | 16     | ☺ |
|  |                    | DC160-05-15.900A1-         | 15,9                       |                      | 63                   | 133                  | 83                   | 48                         | 16     | ☺ |
|  |                    | DC160-05-16.000A1-         | 16                         |                      | 63                   | 133                  | 83                   | 48                         | 16     | ☺ |
|  |                    | DC160-05-16.100A1-         | 16,1                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.200A1-         | 16,2                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.300A1-         | 16,3                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.400A1-         | 16,4                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.500A1-         | 16,5                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.600A1-         | 16,6                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.700A1-         | 16,7                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.750A1-         | 16,75                      |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.800A1-         | 16,8                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.900A1-         | 16,9                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.000A1-         | 17                         |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.100A1-         | 17,1                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.200A1-         | 17,2                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.300A1-         | 17,3                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.400A1-         | 17,4                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.500A1-         | 17,5                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.600A1-         | 17,6                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.700A1-         | 17,7                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.800A1-         | 17,8                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.900A1-         | 17,9                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-18.000A1-         | 18                         |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-18.100A1-         | 18,1                       |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  | DC160-05-18.200A1- | 18,2                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.300A1- | 18,3                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.400A1- | 18,4                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.500A1- | 18,5                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.600A1- | 18,6                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.700A1- | 18,7                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.800A1- | 18,8                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-18.900A1- | 18,9                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.000A1- | 19                         |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.050A1- | 19,05                      | 3/4"                       | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.100A1- | 19,1                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.200A1- | 19,2                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.300A1- | 19,3                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.400A1- | 19,4                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.500A1- | 19,5                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.600A1- | 19,6                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.700A1- | 19,7                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.800A1- | 19,8                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.900A1- | 19,9                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-20.000A1- | 20                         |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-20.500A1- | 20,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-21.000A1- | 21                         |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-21.500A1- | 21,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-22.000A1- | 22                         |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-22.500A1- | 22,5                       |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-23.000A1- | 23                         |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-23.500A1- | 23,5                       |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-24.000A1- | 24                         |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-24.500A1- | 24,5                       |                            | 97                   | 180                  | 122                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-25.000A1- | 25                         |                            | 97                   | 180                  | 122                  | 56                   | 25                         | ☺      |   |

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued





Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |        |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|--------|
|  | Shank DIN 6535 HE  | DC160-05-03.000F1-         | 3                          |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.100F1-         | 3,1                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.200F1-         | 3,2                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.250F1-         | 3,25                       |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.300F1-         | 3,3                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.400F1-         | 3,4                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.500F1-         | 3,5                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.600F1-         | 3,6                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.650F1-         | 3,65                       |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.700F1-         | 3,7                        |                      | 23                   | 66                   | 28                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.800F1-         | 3,8                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-03.900F1-         | 3,9                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.000F1-         | 4                          |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.100F1-         | 4,1                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.200F1-         | 4,2                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.300F1-         | 4,3                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.400F1-         | 4,4                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.500F1-         | 4,5                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.600F1-         | 4,6                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.650F1-         | 4,65                       |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.700F1-         | 4,7                        |                      | 29                   | 74                   | 36                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.800F1-         | 4,8                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-04.900F1-         | 4,9                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.000F1-         | 5                          |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.100F1-         | 5,1                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.200F1-         | 5,2                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.300F1-         | 5,3                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.400F1-         | 5,4                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.500F1-         | 5,5                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.550F1-         | 5,55                       |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.600F1-         | 5,6                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.700F1-         | 5,7                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.800F1-         | 5,8                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-05.900F1-         | 5,9                        |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  |                    | DC160-05-06.000F1-         | 6                          |                      | 35                   | 82                   | 44                   | 36                         | 6      | WJ30ET |
|  | DC160-05-06.100F1- | 6,1                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.200F1- | 6,2                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.300F1- | 6,3                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.400F1- | 6,4                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.500F1- | 6,5                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.600F1- | 6,6                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.700F1- | 6,7                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.800F1- | 6,8                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-06.900F1- | 6,9                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.000F1- | 7                          |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.100F1- | 7,1                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.200F1- | 7,2                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.300F1- | 7,3                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.400F1- | 7,4                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.500F1- | 7,5                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.550F1- | 7,55                       |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.600F1- | 7,6                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.700F1- | 7,7                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.800F1- | 7,8                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-07.900F1- | 7,9                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-08.000F1- | 8                          |                            | 43                   | 91                   | 53                   | 36                   | 8                          | WJ30ET |        |
|  | DC160-05-08.100F1- | 8,1                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | WJ30ET |        |
|  | DC160-05-08.200F1- | 8,2                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | WJ30ET |        |
|  | DC160-05-08.300F1- | 8,3                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | WJ30ET |        |
|  | DC160-05-08.400F1- | 8,4                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | WJ30ET |        |
|  | DC160-05-08.500F1- | 8,5                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | WJ30ET |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

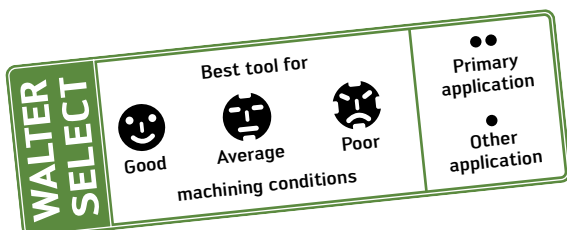
Continued

Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | Shank DIN 6535 HE  |                            |                            |                      |                      |                      |                      |                            |        |
|                    | DC160-05-08.600F1- | 8,6                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.700F1- | 8,7                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.800F1- | 8,8                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-08.900F1- | 8,9                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.000F1- | 9                          |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.100F1- | 9,1                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.200F1- | 9,2                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.300F1- | 9,3                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.400F1- | 9,4                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.500F1- | 9,5                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.550F1- | 9,55                       |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.600F1- | 9,6                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.700F1- | 9,7                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.800F1- | 9,8                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-09.900F1- | 9,9                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-10.000F1- | 10                         |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-10.100F1- | 10,1                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.200F1- | 10,2                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.300F1- | 10,3                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.400F1- | 10,4                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.500F1- | 10,5                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.600F1- | 10,6                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.700F1- | 10,7                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.800F1- | 10,8                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.900F1- | 10,9                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.000F1- | 11                         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.100F1- | 11,1                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.200F1- | 11,2                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.300F1- | 11,3                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.400F1- | 11,4                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.500F1- | 11,5                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.550F1- | 11,55                      |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.600F1- | 11,6                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.700F1- | 11,7                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.800F1- | 11,8                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.900F1- | 11,9                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-12.000F1- | 12                         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-12.100F1- | 12,1                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.200F1- | 12,2                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.250F1- | 12,25                      |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.300F1- | 12,3                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.400F1- | 12,4                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.500F1- | 12,5                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.600F1- | 12,6                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
| DC160-05-12.700F1- | 12,7               | 1/2"                       | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-12.750F1- | 12,75              |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-12.800F1- | 12,8               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-12.900F1- | 12,9               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.000F1- | 13                 |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.100F1- | 13,1               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.200F1- | 13,2               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.300F1- | 13,3               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.400F1- | 13,4               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.500F1- | 13,5               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.600F1- | 13,6               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.700F1- | 13,7               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.800F1- | 13,8               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued



Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | DC160-05-13.900F1- | 13,9                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊕      |
|                    | DC160-05-14.000F1- | 14                         |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ⊕      |
|                    | DC160-05-14.100F1- | 14,1                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.200F1- | 14,2                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.300F1- | 14,3                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.400F1- | 14,4                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.500F1- | 14,5                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.600F1- | 14,6                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.700F1- | 14,7                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.750F1- | 14,75                      |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.800F1- | 14,8                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-14.900F1- | 14,9                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.000F1- | 15                         |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.100F1- | 15,1                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.200F1- | 15,2                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.300F1- | 15,3                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.400F1- | 15,4                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.500F1- | 15,5                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.600F1- | 15,6                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.700F1- | 15,7                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.800F1- | 15,8                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-15.900F1- | 15,9                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-16.000F1- | 16                         |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ⊕      |
|                    | DC160-05-16.100F1- | 16,1                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.200F1- | 16,2                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.300F1- | 16,3                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.400F1- | 16,4                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.500F1- | 16,5                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.600F1- | 16,6                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.700F1- | 16,7                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.750F1- | 16,75                      |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.800F1- | 16,8                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-16.900F1- | 16,9                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-17.000F1- | 17                         |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
|                    | DC160-05-17.100F1- | 17,1                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ⊕      |
| DC160-05-17.200F1- | 17,2               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.300F1- | 17,3               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.400F1- | 17,4               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.500F1- | 17,5               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.600F1- | 17,6               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.700F1- | 17,7               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.800F1- | 17,8               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-17.900F1- | 17,9               |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-18.000F1- | 18                 |                            | 71                         | 143                  | 93                   | 48                   | 18                   | ⊕                          |        |
| DC160-05-18.100F1- | 18,1               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.200F1- | 18,2               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.300F1- | 18,3               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.400F1- | 18,4               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.500F1- | 18,5               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.600F1- | 18,6               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.700F1- | 18,7               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.800F1- | 18,8               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-18.900F1- | 18,9               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.000F1- | 19                 |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.100F1- | 19,1               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.200F1- | 19,2               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.300F1- | 19,3               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.400F1- | 19,4               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.500F1- | 19,5               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.600F1- | 19,6               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |
| DC160-05-19.700F1- | 19,7               |                            | 77                         | 153                  | 101                  | 50                   | 20                   | ⊕                          |        |

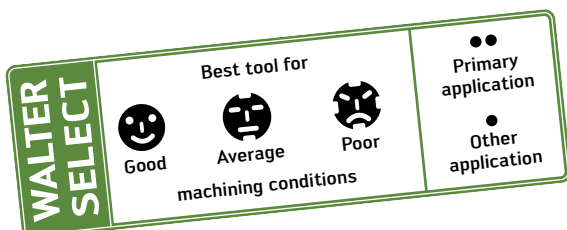
Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued

Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|  | Shank DIN 6535 HE  |                            |                            |                      |                      |                      |                      |                            |        |
|  | DC160-05-19.800F1- | 19,8                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|  | DC160-05-19.900F1- | 19,9                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|  | DC160-05-20.000F1- | 20                         |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|  | DC160-05-20.500F1- | 20,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |
|  | DC160-05-21.000F1- | 21                         |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |
|  | DC160-05-21.500F1- | 21,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |
|  | DC160-05-22.000F1- | 22                         |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |
|  | DC160-05-22.500F1- | 22,5                       |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |
|  | DC160-05-23.000F1- | 23                         |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |
|  | DC160-05-23.500F1- | 23,5                       |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |
|  | DC160-05-24.000F1- | 24                         |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |
|  | DC160-05-24.500F1- | 24,5                       |                            | 97                   | 180                  | 122                  | 56                   | 25                         | ☺      |
|  | DC160-05-25.000F1- | 25                         |                            | 97                   | 180                  | 122                  | 56                   | 25                         | ☺      |

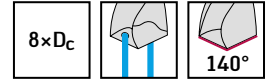
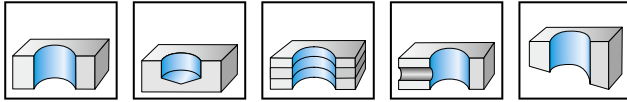
Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET



# Solid carbide drills with coolant-through

## DC160 Advance

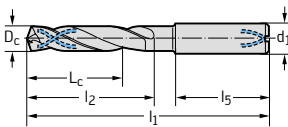
### X-treme Evo



|        |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|
|        | P | M | K | N | S | H | O |
| WJ30ET | ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-08-03.000A1- | 3                          |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.100A1- | 3,1                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.175A1- | 3,175                      | 1/8"                       | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.200A1- | 3,2                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.300A1- | 3,3                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.400A1- | 3,4                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.500A1- | 3,5                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.572A1- | 3,572                      | 9/64"                      | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.600A1- | 3,6                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.700A1- | 3,7                        |                            | 28                   | 74                   | 34                   | 36                   | 6                          | ●      |
| DC160-08-03.800A1- | 3,8                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-03.900A1- | 3,9                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-03.969A1- | 3,969                      | 5/32"                      | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.000A1- | 4                          |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.100A1- | 4,1                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.200A1- | 4,2                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.300A1- | 4,3                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.366A1- | 4,366                      | 11/64"                     | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.400A1- | 4,4                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.500A1- | 4,5                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.600A1- | 4,6                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.700A1- | 4,7                        |                            | 37                   | 85                   | 45                   | 36                   | 6                          | ●      |
| DC160-08-04.763A1- | 4,763                      | 3/16"                      | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-04.800A1- | 4,8                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-04.900A1- | 4,9                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.000A1- | 5                          |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.100A1- | 5,1                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.159A1- | 5,159                      | 13/64"                     | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.200A1- | 5,2                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.300A1- | 5,3                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.400A1- | 5,4                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.500A1- | 5,5                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.556A1- | 5,556                      | 7/32"                      | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.600A1- | 5,6                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.700A1- | 5,7                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.800A1- | 5,8                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.900A1- | 5,9                        |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-05.953A1- | 5,953                      | 15/64"                     | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-06.000A1- | 6                          |                            | 48                   | 97                   | 57                   | 36                   | 6                          | ●      |
| DC160-08-06.100A1- | 6,1                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.200A1- | 6,2                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.300A1- | 6,3                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.350A1- | 6,35                       | 1/4"                       | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.400A1- | 6,4                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.500A1- | 6,5                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.600A1- | 6,6                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |
| DC160-08-06.700A1- | 6,7                        |                            | 55                   | 106                  | 66                   | 36                   | 8                          | ●      |

Shank DIN 6535 HA



Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

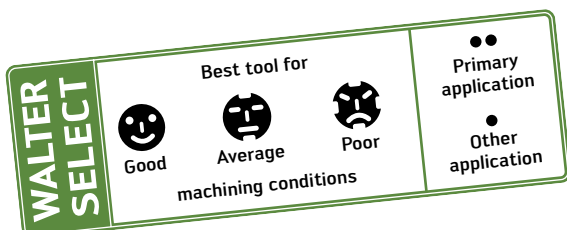
Continued

Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-08-06.747A1-         | 6,747                      | 17/64"               | 55                   | 106                  | 66                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-06.800A1-         | 6,8                        |                      | 55                   | 106                  | 66                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-06.900A1-         | 6,9                        |                      | 55                   | 106                  | 66                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.000A1-         | 7                          |                      | 55                   | 106                  | 66                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.100A1-         | 7,1                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.144A1-         | 7,144                      | 9/32"                | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.200A1-         | 7,2                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.300A1-         | 7,3                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.400A1-         | 7,4                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.500A1-         | 7,5                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.541A1-         | 7,541                      | 19/64"               | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.600A1-         | 7,6                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.700A1-         | 7,7                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.800A1-         | 7,8                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.900A1-         | 7,9                        |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-07.938A1-         | 7,938                      | 5/16"                | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-08.000A1-         | 8                          |                      | 64                   | 116                  | 76                   | 36                         | 8      | ☺ |
|  |                    | DC160-08-08.100A1-         | 8,1                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.200A1-         | 8,2                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.300A1-         | 8,3                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.334A1-         | 8,334                      | 21/64"               | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.400A1-         | 8,4                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.500A1-         | 8,5                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.600A1-         | 8,6                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.700A1-         | 8,7                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.731A1-         | 8,731                      | 11/32"               | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.800A1-         | 8,8                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-08.900A1-         | 8,9                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.000A1-         | 9                          |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.100A1-         | 9,1                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.128A1-         | 9,128                      | 23/64"               | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.200A1-         | 9,2                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.300A1-         | 9,3                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.400A1-         | 9,4                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.500A1-         | 9,5                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.525A1-         | 9,525                      | 3/8"                 | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.600A1-         | 9,6                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.700A1-         | 9,7                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.800A1-         | 9,8                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  |                    | DC160-08-09.900A1-         | 9,9                        |                      | 80                   | 139                  | 95                   | 40                         | 10     | ☺ |
|  | DC160-08-09.922A1- | 9,922                      | 25/64"                     | 80                   | 139                  | 95                   | 40                   | 10                         | ☺      |   |
|  | DC160-08-10.000A1- | 10                         |                            | 80                   | 139                  | 95                   | 40                   | 10                         | ☺      |   |
|  | DC160-08-10.100A1- | 10,1                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.200A1- | 10,2                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.300A1- | 10,3                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.319A1- | 10,319                     | 13/32"                     | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.400A1- | 10,4                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.500A1- | 10,5                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.600A1- | 10,6                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.700A1- | 10,7                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.716A1- | 10,716                     | 27/64"                     | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.800A1- | 10,8                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-10.900A1- | 10,9                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-11.000A1- | 11                         |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-11.100A1- | 11,1                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-11.113A1- | 11,113                     | 7/16"                      | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |
|  | DC160-08-11.200A1- | 11,2                       |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ☺      |   |

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

Continued



Continued

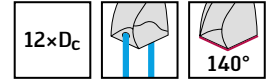
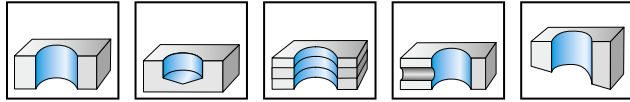
|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-08-11.300A1-         |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ⊗      |   |
|  |                    | DC160-08-11.400A1-         |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ⊗      |   |
|  |                    | DC160-08-11.500A1-         |                            | 96                   | 163                  | 114                  | 45                   | 12                         | ⊗      |   |
|  |                    | DC160-08-11.509A1-         | 11,509                     | 29/64"               | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-11.600A1-         | 11,6                       |                      | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-11.700A1-         | 11,7                       |                      | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-11.800A1-         | 11,8                       |                      | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-11.900A1-         | 11,9                       |                      | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-11.906A1-         | 11,906                     | 15/32"               | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-12.000A1-         | 12                         |                      | 96                   | 163                  | 114                  | 45                         | 12     | ⊗ |
|  |                    | DC160-08-12.303A1-         | 12,303                     | 31/64"               | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-12.500A1-         | 12,5                       |                      | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-12.700A1-         | 12,7                       | 1/2"                 | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-13.000A1-         | 13                         |                      | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-13.494A1-         | 13,494                     | 17/32"               | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-13.500A1-         | 13,5                       |                      | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-14.000A1-         | 14                         |                      | 119                  | 182                  | 133                  | 45                         | 14     | ⊗ |
|  |                    | DC160-08-14.288A1-         | 14,288                     | 9/16"                | 136                  | 204                  | 152                  | 48                         | 16     | ⊗ |
|  |                    | DC160-08-14.500A1-         | 14,5                       |                      | 136                  | 204                  | 152                  | 48                         | 16     | ⊗ |
|  |                    | DC160-08-15.000A1-         | 15                         |                      | 136                  | 204                  | 152                  | 48                         | 16     | ⊗ |
|  | DC160-08-15.500A1- | 15,5                       |                            | 136                  | 204                  | 152                  | 48                   | 16                         | ⊗      |   |
|  | DC160-08-15.875A1- | 15,875                     | 5/8"                       | 136                  | 204                  | 152                  | 48                   | 16                         | ⊗      |   |
|  | DC160-08-16.000A1- | 16                         |                            | 136                  | 204                  | 152                  | 48                   | 16                         | ⊗      |   |
|  | DC160-08-16.500A1- | 16,5                       |                            | 153                  | 223                  | 171                  | 48                   | 18                         | ⊗      |   |
|  | DC160-08-17.000A1- | 17                         |                            | 153                  | 223                  | 171                  | 48                   | 18                         | ⊗      |   |
|  | DC160-08-17.500A1- | 17,5                       |                            | 153                  | 223                  | 171                  | 48                   | 18                         | ⊗      |   |
|  | DC160-08-18.000A1- | 18                         |                            | 153                  | 223                  | 171                  | 48                   | 18                         | ⊗      |   |
|  | DC160-08-18.500A1- | 18,5                       |                            | 170                  | 244                  | 190                  | 50                   | 20                         | ⊗      |   |
|  | DC160-08-19.000A1- | 19                         |                            | 170                  | 244                  | 190                  | 50                   | 20                         | ⊗      |   |
|  | DC160-08-19.050A1- | 19,05                      | 3/4"                       | 170                  | 244                  | 190                  | 50                   | 20                         | ⊗      |   |
|  | DC160-08-19.500A1- | 19,5                       |                            | 170                  | 244                  | 190                  | 50                   | 20                         | ⊗      |   |
|  | DC160-08-20.000A1- | 20                         |                            | 170                  | 244                  | 190                  | 50                   | 20                         | ⊗      |   |

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

# Solid carbide drills with coolant-through

## DC160 Advance

### X-treme Evo



|        |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|
|        | P | M | K | N | S | H | O |
| WJ30EU | ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA  |                            |                            |                      |                      |                      |                      |                            |        |
| DC160-12-03.000A1- | 3                          |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.100A1- | 3,1                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.175A1- | 3,175                      | 1/8"                       | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.200A1- | 3,2                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.300A1- | 3,3                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.400A1- | 3,4                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.500A1- | 3,5                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.572A1- | 3,572                      | 9/64"                      | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.600A1- | 3,6                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.700A1- | 3,7                        |                            | 48                   | 92                   | 54                   | 36                   | 6                          | ●      |
| DC160-12-03.800A1- | 3,8                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-03.900A1- | 3,9                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-03.969A1- | 3,969                      | 5/32"                      | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.000A1- | 4                          |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.100A1- | 4,1                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.200A1- | 4,2                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.300A1- | 4,3                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.366A1- | 4,366                      | 11/64"                     | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.400A1- | 4,4                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.500A1- | 4,5                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.600A1- | 4,6                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.700A1- | 4,7                        |                            | 56                   | 102                  | 64                   | 36                   | 6                          | ●      |
| DC160-12-04.763A1- | 4,763                      | 3/16"                      | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-04.800A1- | 4,8                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-04.900A1- | 4,9                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.000A1- | 5                          |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.100A1- | 5,1                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.159A1- | 5,159                      | 13/64"                     | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.200A1- | 5,2                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.300A1- | 5,3                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.400A1- | 5,4                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.500A1- | 5,5                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.550A1- | 5,55                       |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.556A1- | 5,556                      | 7/32"                      | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.600A1- | 5,6                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.700A1- | 5,7                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.800A1- | 5,8                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-05.900A1- | 5,9                        |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-06.000A1- | 6                          |                            | 74                   | 121                  | 83                   | 36                   | 6                          | ●      |
| DC160-12-06.100A1- | 6,1                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.200A1- | 6,2                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.300A1- | 6,3                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.350A1- | 6,35                       | 1/4"                       | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.400A1- | 6,4                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.500A1- | 6,5                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.600A1- | 6,6                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |
| DC160-12-06.700A1- | 6,7                        |                            | 98                   | 148                  | 110                  | 36                   | 8                          | ●      |

Ordering example for the WJ30EU grade: DC160-12-03.000A1-WJ30EU

Continued

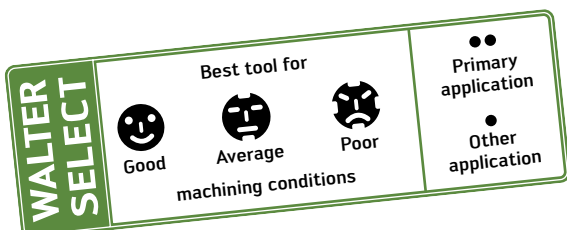


Continued

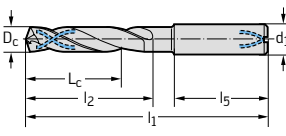
|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-12-06.747A1-         | 6,747                      | 17/64"               | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-06.800A1-         | 6,8                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-06.900A1-         | 6,9                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.000A1-         | 7                          |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.100A1-         | 7,1                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.144A1-         | 7,144                      | 9/32"                | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.200A1-         | 7,2                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.300A1-         | 7,3                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.400A1-         | 7,4                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.500A1-         | 7,5                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.541A1-         | 7,541                      | 19/64"               | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.800A1-         | 7,8                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.900A1-         | 7,9                        |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-07.938A1-         | 7,938                      | 5/16"                | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-08.000A1-         | 8                          |                      | 98                   | 148                  | 110                  | 36                         | 8      | ☺ |
|  |                    | DC160-12-08.100A1-         | 8,1                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.200A1-         | 8,2                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.300A1-         | 8,3                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.400A1-         | 8,4                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.500A1-         | 8,5                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.600A1-         | 8,6                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.700A1-         | 8,7                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.731A1-         | 8,731                      | 11/32"               | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-08.800A1-         | 8,8                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.000A1-         | 9                          |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.128A1-         | 9,128                      | 23/64"               | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.200A1-         | 9,2                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.300A1-         | 9,3                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.500A1-         | 9,5                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.525A1-         | 9,525                      | 3/8"                 | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.600A1-         | 9,6                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.700A1-         | 9,7                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.800A1-         | 9,8                        |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-09.922A1-         | 9,922                      | 25/64"               | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-10.000A1-         | 10                         |                      | 123                  | 180                  | 138                  | 40                         | 10     | ☺ |
|  |                    | DC160-12-10.100A1-         | 10,1                       |                      | 140                  | 206                  | 158                  | 45                         | 12     | ☺ |
|  |                    | DC160-12-10.200A1-         | 10,2                       |                      | 140                  | 206                  | 158                  | 45                         | 12     | ☺ |
|  |                    | DC160-12-10.300A1-         | 10,3                       |                      | 140                  | 206                  | 158                  | 45                         | 12     | ☺ |
|  |                    | DC160-12-10.319A1-         | 10,319                     | 13/32"               | 140                  | 206                  | 158                  | 45                         | 12     | ☺ |
|  |                    | DC160-12-10.400A1-         | 10,4                       |                      | 140                  | 206                  | 158                  | 45                         | 12     | ☺ |
|  | DC160-12-10.500A1- | 10,5                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-10.716A1- | 10,716                     | 27/64"                     | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-10.800A1- | 10,8                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.000A1- | 11                         |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.100A1- | 11,1                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.113A1- | 11,113                     | 7/16"                      | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.200A1- | 11,2                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.500A1- | 11,5                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.509A1- | 11,509                     | 29/64"                     | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.700A1- | 11,7                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.800A1- | 11,8                       |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-11.906A1- | 11,906                     | 15/32"                     | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-12.000A1- | 12                         |                            | 140                  | 206                  | 158                  | 45                   | 12                         | ☺      |   |
|  | DC160-12-12.100A1- | 12,1                       |                            | 168                  | 230                  | 182                  | 45                   | 14                         | ☺      |   |
|  | DC160-12-12.200A1- | 12,2                       |                            | 168                  | 230                  | 182                  | 45                   | 14                         | ☺      |   |
|  | DC160-12-12.300A1- | 12,3                       |                            | 168                  | 230                  | 182                  | 45                   | 14                         | ☺      |   |
|  | DC160-12-12.303A1- | 12,303                     | 31/64"                     | 168                  | 230                  | 182                  | 45                   | 14                         | ☺      |   |

Ordering example for the WJ30EU grade: DC160-12-03.000A1-WJ30EU

Continued

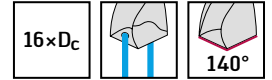
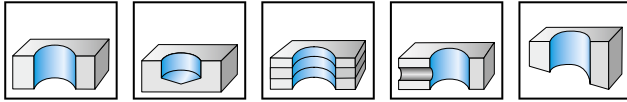


Continued

|   | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |        |
|---|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|--------|
|  | Shank DIN 6535 HA  | DC160-12-12.500A1-         | 12,5                       |                      | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-12.600A1-         | 12,6                       |                      | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-12.700A1-         | 12,7                       | 1/2"                 | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-13.000A1-         | 13                         |                      | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-13.494A1-         | 13,494                     | 17/32"               | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-13.500A1-         | 13,5                       |                      | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-14.000A1-         | 14                         |                      | 168                  | 230                  | 182                  | 45                         | 14     | WJ30EU |
|   |                    | DC160-12-14.288A1-         | 14,288                     | 9/16"                | 192                  | 260                  | 208                  | 48                         | 16     | WJ30EU |
|   |                    | DC160-12-14.500A1-         | 14,5                       |                      | 192                  | 260                  | 208                  | 48                         | 16     | WJ30EU |
|   |                    | DC160-12-15.000A1-         | 15                         |                      | 192                  | 260                  | 208                  | 48                         | 16     | WJ30EU |
|   |                    | DC160-12-15.500A1-         | 15,5                       |                      | 192                  | 260                  | 208                  | 48                         | 16     | WJ30EU |
|   |                    | DC160-12-15.875A1-         | 15,875                     | 5/8"                 | 192                  | 260                  | 208                  | 48                         | 16     | WJ30EU |
|   |                    | DC160-12-16.000A1-         | 16                         |                      | 192                  | 260                  | 208                  | 48                         | 16     | WJ30EU |
|   |                    | DC160-12-16.500A1-         | 16,5                       |                      | 216                  | 285                  | 234                  | 48                         | 18     | WJ30EU |
|   |                    | DC160-12-17.000A1-         | 17                         |                      | 216                  | 285                  | 234                  | 48                         | 18     | WJ30EU |
|   |                    | DC160-12-17.500A1-         | 17,5                       |                      | 216                  | 285                  | 234                  | 48                         | 18     | WJ30EU |
|   |                    | DC160-12-18.000A1-         | 18                         |                      | 216                  | 285                  | 234                  | 48                         | 18     | WJ30EU |
|   |                    | DC160-12-18.500A1-         | 18,5                       |                      | 238                  | 310                  | 258                  | 50                         | 20     | WJ30EU |
|   |                    | DC160-12-19.000A1-         | 19                         |                      | 238                  | 310                  | 258                  | 50                         | 20     | WJ30EU |
|   |                    | DC160-12-19.500A1-         | 19,5                       |                      | 238                  | 310                  | 258                  | 50                         | 20     | WJ30EU |
|   | DC160-12-20.000A1- | 20                         |                            | 238                  | 310                  | 258                  | 50                   | 20                         | WJ30EU |        |

Ordering example for the WJ30EU grade: DC160-12-03.000A1-WJ30EU

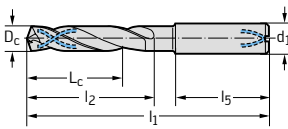
# Solid carbide drills with coolant-through DC160 Advance X-treme Evo



|        |     |   |     |     |     |   |   |
|--------|-----|---|-----|-----|-----|---|---|
|        | P   | M | K   | N   | S   | H | O |
| WJ30EU | ●●● | ● | ●●● | ●●● | ●●● | ● | ● |

| Designation        | D <sub>c</sub><br>h7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-16-03.000A1- | 3                          |                            | 52                   | 89                   | 57                   | 28                   | 4                          | ●●●    |
| DC160-16-03.175A1- | 3,175                      | 1/8"                       | 60                   | 98                   | 66                   | 28                   | 4                          | ●●●    |
| DC160-16-03.500A1- | 3,5                        |                            | 72                   | 110                  | 78                   | 28                   | 4                          | ●●●    |
| DC160-16-03.572A1- | 3,572                      | 9/64"                      | 72                   | 110                  | 78                   | 28                   | 4                          | ●●●    |
| DC160-16-03.969A1- | 3,969                      | 5/32"                      | 72                   | 110                  | 78                   | 28                   | 4                          | ●●●    |
| DC160-16-04.000A1- | 4                          |                            | 72                   | 110                  | 78                   | 28                   | 4                          | ●●●    |
| DC160-16-04.500A1- | 4,5                        |                            | 93                   | 132                  | 100                  | 28                   | 5                          | ●●●    |
| DC160-16-04.763A1- | 4,763                      | 3/16"                      | 92                   | 132                  | 100                  | 28                   | 5                          | ●●●    |
| DC160-16-04.800A1- | 4,8                        |                            | 92                   | 132                  | 100                  | 28                   | 5                          | ●●●    |
| DC160-16-05.000A1- | 5                          |                            | 92                   | 132                  | 100                  | 28                   | 5                          | ●●●    |
| DC160-16-05.500A1- | 5,5                        |                            | 101                  | 150                  | 110                  | 36                   | 6                          | ●●●    |
| DC160-16-05.556A1- | 5,556                      | 7/32"                      | 111                  | 160                  | 120                  | 36                   | 6                          | ●●●    |
| DC160-16-05.800A1- | 5,8                        |                            | 111                  | 160                  | 120                  | 36                   | 6                          | ●●●    |
| DC160-16-06.000A1- | 6                          |                            | 111                  | 160                  | 120                  | 36                   | 6                          | ●●●    |
| DC160-16-06.100A1- | 6,1                        |                            | 124                  | 175                  | 135                  | 36                   | 8                          | ●●●    |
| DC160-16-06.350A1- | 6,35                       | 1/4"                       | 124                  | 175                  | 135                  | 36                   | 8                          | ●●●    |
| DC160-16-06.500A1- | 6,5                        |                            | 124                  | 175                  | 135                  | 36                   | 8                          | ●●●    |
| DC160-16-06.800A1- | 6,8                        |                            | 124                  | 175                  | 135                  | 36                   | 8                          | ●●●    |
| DC160-16-07.000A1- | 7                          |                            | 124                  | 175                  | 135                  | 36                   | 8                          | ●●●    |
| DC160-16-07.144A1- | 7,144                      | 9/32"                      | 140                  | 192                  | 152                  | 36                   | 8                          | ●●●    |
| DC160-16-07.400A1- | 7,4                        |                            | 140                  | 192                  | 152                  | 36                   | 8                          | ●●●    |
| DC160-16-07.500A1- | 7,5                        |                            | 140                  | 192                  | 152                  | 36                   | 8                          | ●●●    |
| DC160-16-07.938A1- | 7,938                      | 5/16"                      | 140                  | 192                  | 152                  | 36                   | 8                          | ●●●    |
| DC160-16-08.000A1- | 8                          |                            | 140                  | 192                  | 152                  | 36                   | 8                          | ●●●    |
| DC160-16-08.300A1- | 8,3                        |                            | 148                  | 206                  | 162                  | 40                   | 10                         | ●●●    |
| DC160-16-08.500A1- | 8,5                        |                            | 148                  | 206                  | 162                  | 40                   | 10                         | ●●●    |
| DC160-16-08.731A1- | 8,731                      | 11/32"                     | 148                  | 206                  | 162                  | 40                   | 10                         | ●●●    |
| DC160-16-09.000A1- | 9                          |                            | 148                  | 206                  | 162                  | 40                   | 10                         | ●●●    |
| DC160-16-09.525A1- | 9,525                      | 3/8"                       | 165                  | 224                  | 180                  | 40                   | 10                         | ●●●    |
| DC160-16-09.800A1- | 9,8                        |                            | 165                  | 224                  | 180                  | 40                   | 10                         | ●●●    |
| DC160-16-10.000A1- | 10                         |                            | 165                  | 224                  | 180                  | 40                   | 10                         | ●●●    |
| DC160-16-10.200A1- | 10,2                       |                            | 181                  | 247                  | 198                  | 45                   | 12                         | ●●●    |
| DC160-16-10.319A1- | 10,319                     | 13/32"                     | 181                  | 247                  | 198                  | 45                   | 12                         | ●●●    |
| DC160-16-11.000A1- | 11                         |                            | 181                  | 247                  | 198                  | 45                   | 12                         | ●●●    |
| DC160-16-11.113A1- | 11,113                     | 7/16"                      | 198                  | 265                  | 216                  | 45                   | 12                         | ●●●    |
| DC160-16-11.500A1- | 11,5                       |                            | 198                  | 265                  | 216                  | 45                   | 12                         | ●●●    |
| DC160-16-11.800A1- | 11,8                       |                            | 198                  | 265                  | 216                  | 45                   | 12                         | ●●●    |
| DC160-16-11.906A1- | 11,906                     | 15/32"                     | 198                  | 265                  | 216                  | 45                   | 12                         | ●●●    |
| DC160-16-12.000A1- | 12                         |                            | 198                  | 265                  | 216                  | 45                   | 12                         | ●●●    |
| DC160-16-12.700A1- | 12,7                       | 1/2"                       | 238                  | 301                  | 252                  | 45                   | 14                         | ●●●    |
| DC160-16-13.000A1- | 13                         |                            | 238                  | 301                  | 252                  | 45                   | 14                         | ●●●    |
| DC160-16-14.000A1- | 14                         |                            | 238                  | 301                  | 252                  | 45                   | 14                         | ●●●    |
| DC160-16-14.288A1- | 14,288                     | 9/16"                      | 272                  | 340                  | 288                  | 48                   | 16                         | ●●●    |
| DC160-16-15.000A1- | 15                         |                            | 272                  | 340                  | 288                  | 48                   | 16                         | ●●●    |
| DC160-16-16.000A1- | 16                         |                            | 272                  | 340                  | 288                  | 48                   | 16                         | ●●●    |

Shank DIN 6535 HA



Ordering example for the WJ30EU grade: DC160-16-03.000A1-WJ30EU

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

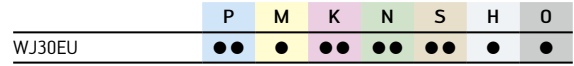
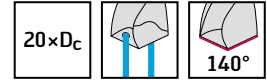
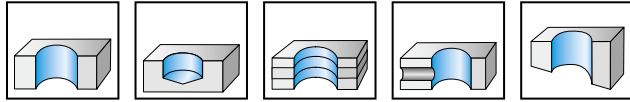
●●● Primary application

● Other application

# Solid carbide drills with coolant-through

## DC160 Advance

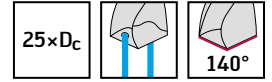
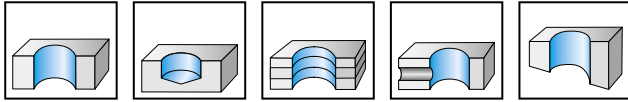
### X-treme Evo



| Designation        | D <sub>c</sub><br>h7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-20-03.000A1- | 3                          |                            | 60                   | 97                   | 65                   | 28                   | 4                          | ☞      |
| DC160-20-03.175A1- | 3,175                      | 1/8"                       | 74                   | 112                  | 80                   | 28                   | 4                          | ☞      |
| DC160-20-03.500A1- | 3,5                        |                            | 86                   | 124                  | 92                   | 28                   | 4                          | ☞      |
| DC160-20-03.572A1- | 3,572                      | 9/64"                      | 86                   | 124                  | 92                   | 28                   | 4                          | ☞      |
| DC160-20-03.969A1- | 3,969                      | 5/32"                      | 86                   | 124                  | 92                   | 28                   | 4                          | ☞      |
| DC160-20-04.000A1- | 4                          |                            | 86                   | 124                  | 92                   | 28                   | 4                          | ☞      |
| DC160-20-04.500A1- | 4,5                        |                            | 111                  | 150                  | 118                  | 28                   | 5                          | ☞      |
| DC160-20-04.763A1- | 4,763                      | 3/16"                      | 110                  | 150                  | 118                  | 28                   | 5                          | ☞      |
| DC160-20-04.800A1- | 4,8                        |                            | 110                  | 150                  | 118                  | 28                   | 5                          | ☞      |
| DC160-20-05.000A1- | 5                          |                            | 110                  | 150                  | 118                  | 28                   | 5                          | ☞      |
| DC160-20-05.500A1- | 5,5                        |                            | 123                  | 170                  | 132                  | 36                   | 6                          | ☞      |
| DC160-20-05.556A1- | 5,556                      | 7/32"                      | 135                  | 182                  | 144                  | 36                   | 6                          | ☞      |
| DC160-20-05.800A1- | 5,8                        |                            | 135                  | 182                  | 144                  | 36                   | 6                          | ☞      |
| DC160-20-06.000A1- | 6                          |                            | 135                  | 182                  | 144                  | 36                   | 6                          | ☞      |
| DC160-20-06.100A1- | 6,1                        |                            | 151                  | 200                  | 162                  | 36                   | 8                          | ☞      |
| DC160-20-06.350A1- | 6,35                       | 1/4"                       | 151                  | 200                  | 162                  | 36                   | 8                          | ☞      |
| DC160-20-06.500A1- | 6,5                        |                            | 151                  | 200                  | 162                  | 36                   | 8                          | ☞      |
| DC160-20-06.800A1- | 6,8                        |                            | 151                  | 200                  | 162                  | 36                   | 8                          | ☞      |
| DC160-20-07.000A1- | 7                          |                            | 151                  | 200                  | 162                  | 36                   | 8                          | ☞      |
| DC160-20-07.144A1- | 7,144                      | 9/32"                      | 172                  | 222                  | 184                  | 36                   | 8                          | ☞      |
| DC160-20-07.400A1- | 7,4                        |                            | 172                  | 222                  | 184                  | 36                   | 8                          | ☞      |
| DC160-20-07.500A1- | 7,5                        |                            | 172                  | 222                  | 184                  | 36                   | 8                          | ☞      |
| DC160-20-07.938A1- | 7,938                      | 5/16"                      | 172                  | 222                  | 184                  | 36                   | 8                          | ☞      |
| DC160-20-08.000A1- | 8                          |                            | 172                  | 222                  | 184                  | 36                   | 8                          | ☞      |
| DC160-20-08.300A1- | 8,3                        |                            | 184                  | 240                  | 198                  | 40                   | 10                         | ☞      |
| DC160-20-08.500A1- | 8,5                        |                            | 184                  | 240                  | 198                  | 40                   | 10                         | ☞      |
| DC160-20-08.731A1- | 8,731                      | 11/32"                     | 184                  | 240                  | 198                  | 40                   | 10                         | ☞      |
| DC160-20-09.000A1- | 9                          |                            | 184                  | 240                  | 198                  | 40                   | 10                         | ☞      |
| DC160-20-09.525A1- | 9,525                      | 3/8"                       | 205                  | 262                  | 220                  | 40                   | 10                         | ☞      |
| DC160-20-09.800A1- | 9,8                        |                            | 205                  | 262                  | 220                  | 40                   | 10                         | ☞      |
| DC160-20-10.000A1- | 10                         |                            | 205                  | 262                  | 220                  | 40                   | 10                         | ☞      |
| DC160-20-10.200A1- | 10,2                       |                            | 225                  | 289                  | 242                  | 45                   | 12                         | ☞      |
| DC160-20-10.319A1- | 10,319                     | 13/32"                     | 225                  | 289                  | 242                  | 45                   | 12                         | ☞      |
| DC160-20-11.000A1- | 11                         |                            | 225                  | 289                  | 242                  | 45                   | 12                         | ☞      |
| DC160-20-11.113A1- | 11,113                     | 7/16"                      | 246                  | 311                  | 264                  | 45                   | 12                         | ☞      |
| DC160-20-11.500A1- | 11,5                       |                            | 246                  | 311                  | 264                  | 45                   | 12                         | ☞      |
| DC160-20-11.800A1- | 11,8                       |                            | 246                  | 311                  | 264                  | 45                   | 12                         | ☞      |
| DC160-20-11.906A1- | 11,906                     | 15/32"                     | 246                  | 311                  | 264                  | 45                   | 12                         | ☞      |
| DC160-20-12.000A1- | 12                         |                            | 246                  | 311                  | 264                  | 45                   | 12                         | ☞      |
| DC160-20-12.700A1- | 12,7                       | 1/2"                       | 294                  | 357                  | 308                  | 45                   | 14                         | ☞      |
| DC160-20-13.000A1- | 13                         |                            | 294                  | 357                  | 308                  | 45                   | 14                         | ☞      |
| DC160-20-14.000A1- | 14                         |                            | 294                  | 357                  | 308                  | 45                   | 14                         | ☞      |
| DC160-20-14.288A1- | 14,288                     | 9/16"                      | 336                  | 404                  | 352                  | 48                   | 16                         | ☞      |
| DC160-20-15.000A1- | 15                         |                            | 336                  | 404                  | 352                  | 48                   | 16                         | ☞      |
| DC160-20-16.000A1- | 16                         |                            | 336                  | 404                  | 352                  | 48                   | 16                         | ☞      |

Ordering example for the WJ30EU grade: DC160-20-03.000A1-WJ30EU

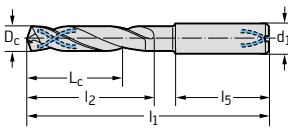
# Solid carbide drills with coolant-through DC160 Advance X-treme Evo



|        |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|
|        | P | M | K | N | S | H | O |
| WJ30EU | ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>h7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-25-03.000A1- | 3                          |                            | 79                   | 119                  | 84                   | 28                   | 4                          | ●      |
| DC160-25-03.175A1- | 3,175                      | 1/8"                       | 96                   | 148                  | 102                  | 28                   | 4                          | ●      |
| DC160-25-03.500A1- | 3,5                        |                            | 108                  | 148                  | 114                  | 28                   | 4                          | ●      |
| DC160-25-03.572A1- | 3,572                      | 9/64"                      | 108                  | 148                  | 114                  | 28                   | 4                          | ●      |
| DC160-25-03.969A1- | 3,969                      | 5/32"                      | 108                  | 148                  | 114                  | 28                   | 4                          | ●      |
| DC160-25-04.000A1- | 4                          |                            | 108                  | 148                  | 114                  | 28                   | 4                          | ●      |
| DC160-25-04.500A1- | 4,5                        |                            | 138                  | 177                  | 145                  | 28                   | 5                          | ●      |
| DC160-25-04.763A1- | 4,763                      | 3/16"                      | 137                  | 177                  | 145                  | 28                   | 5                          | ●      |
| DC160-25-04.800A1- | 4,8                        |                            | 137                  | 177                  | 145                  | 28                   | 5                          | ●      |
| DC160-25-05.000A1- | 5                          |                            | 137                  | 177                  | 145                  | 28                   | 5                          | ●      |
| DC160-25-05.500A1- | 5,5                        |                            | 151                  | 200                  | 160                  | 36                   | 6                          | ●      |
| DC160-25-05.556A1- | 5,556                      | 7/32"                      | 165                  | 214                  | 174                  | 36                   | 6                          | ●      |
| DC160-25-05.800A1- | 5,8                        |                            | 165                  | 214                  | 174                  | 36                   | 6                          | ●      |
| DC160-25-06.000A1- | 6                          |                            | 165                  | 214                  | 174                  | 36                   | 6                          | ●      |
| DC160-25-06.100A1- | 6,1                        |                            | 183                  | 234                  | 194                  | 36                   | 8                          | ●      |
| DC160-25-06.350A1- | 6,35                       | 1/4"                       | 183                  | 234                  | 194                  | 36                   | 8                          | ●      |
| DC160-25-06.500A1- | 6,5                        |                            | 183                  | 234                  | 194                  | 36                   | 8                          | ●      |
| DC160-25-06.800A1- | 6,8                        |                            | 183                  | 234                  | 194                  | 36                   | 8                          | ●      |
| DC160-25-07.000A1- | 7                          |                            | 183                  | 234                  | 194                  | 36                   | 8                          | ●      |
| DC160-25-07.144A1- | 7,144                      | 9/32"                      | 208                  | 260                  | 220                  | 36                   | 8                          | ●      |
| DC160-25-07.400A1- | 7,4                        |                            | 208                  | 260                  | 220                  | 36                   | 8                          | ●      |
| DC160-25-07.500A1- | 7,5                        |                            | 208                  | 260                  | 220                  | 36                   | 8                          | ●      |
| DC160-25-07.938A1- | 7,938                      | 5/16"                      | 208                  | 260                  | 220                  | 36                   | 8                          | ●      |
| DC160-25-08.000A1- | 8                          |                            | 208                  | 260                  | 220                  | 36                   | 8                          | ●      |
| DC160-25-08.300A1- | 8,3                        |                            | 229                  | 289                  | 243                  | 40                   | 10                         | ●      |
| DC160-25-08.500A1- | 8,5                        |                            | 229                  | 289                  | 243                  | 40                   | 10                         | ●      |
| DC160-25-08.731A1- | 8,731                      | 11/32"                     | 229                  | 289                  | 243                  | 40                   | 10                         | ●      |
| DC160-25-09.000A1- | 9                          |                            | 229                  | 289                  | 243                  | 40                   | 10                         | ●      |
| DC160-25-09.525A1- | 9,525                      | 3/8"                       | 255                  | 314                  | 270                  | 40                   | 10                         | ●      |
| DC160-25-09.800A1- | 9,8                        |                            | 255                  | 314                  | 270                  | 40                   | 10                         | ●      |
| DC160-25-10.000A1- | 10                         |                            | 255                  | 314                  | 270                  | 40                   | 10                         | ●      |
| DC160-25-10.200A1- | 10,2                       |                            | 280                  | 346                  | 297                  | 45                   | 12                         | ●      |
| DC160-25-10.319A1- | 10,319                     | 13/32"                     | 280                  | 346                  | 297                  | 45                   | 12                         | ●      |
| DC160-25-11.000A1- | 11                         |                            | 280                  | 346                  | 297                  | 45                   | 12                         | ●      |
| DC160-25-11.113A1- | 11,113                     | 7/16"                      | 306                  | 373                  | 324                  | 45                   | 12                         | ●      |
| DC160-25-11.500A1- | 11,5                       |                            | 306                  | 373                  | 324                  | 45                   | 12                         | ●      |
| DC160-25-11.800A1- | 11,8                       |                            | 306                  | 373                  | 324                  | 45                   | 12                         | ●      |
| DC160-25-11.906A1- | 11,906                     | 15/32"                     | 306                  | 373                  | 324                  | 45                   | 12                         | ●      |
| DC160-25-12.000A1- | 12                         |                            | 306                  | 373                  | 324                  | 45                   | 12                         | ●      |

Shank DIN 6535 HA



Ordering example for the WJ30EU grade: DC160-25-03.000A1-WJ30EU

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

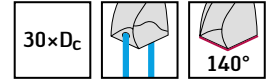
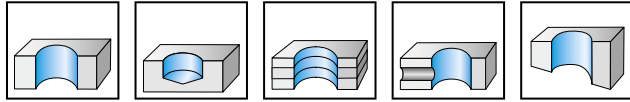
●● Primary application

● Other application

# Solid carbide drills with coolant-through

## DC160 Advance

### X-treme Evo



|        |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|
|        | P | M | K | N | S | H | O |
| WJ30EU | ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>h7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30EU |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-30-03.000A1- | 3                          |                            | 92                   | 132                  | 97                   | 28                   | 4                          | ●      |
| DC160-30-03.175A1- | 3,175                      | 1/8"                       | 114                  | 166                  | 120                  | 28                   | 4                          | ●      |
| DC160-30-03.500A1- | 3,5                        |                            | 127                  | 166                  | 133                  | 28                   | 4                          | ●      |
| DC160-30-03.572A1- | 3,572                      | 9/64"                      | 127                  | 166                  | 133                  | 28                   | 4                          | ●      |
| DC160-30-03.969A1- | 3,969                      | 5/32"                      | 127                  | 166                  | 133                  | 28                   | 4                          | ●      |
| DC160-30-04.000A1- | 4                          |                            | 127                  | 166                  | 133                  | 28                   | 4                          | ●      |
| DC160-30-04.500A1- | 4,5                        |                            | 162                  | 200                  | 169                  | 28                   | 5                          | ●      |
| DC160-30-04.763A1- | 4,763                      | 3/16"                      | 161                  | 200                  | 169                  | 28                   | 5                          | ●      |
| DC160-30-04.800A1- | 4,8                        |                            | 161                  | 200                  | 169                  | 28                   | 5                          | ●      |
| DC160-30-05.000A1- | 5                          |                            | 161                  | 200                  | 169                  | 28                   | 5                          | ●      |
| DC160-30-05.500A1- | 5,5                        |                            | 178                  | 225                  | 187                  | 36                   | 6                          | ●      |
| DC160-30-05.556A1- | 5,556                      | 7/32"                      | 195                  | 242                  | 204                  | 36                   | 6                          | ●      |
| DC160-30-05.800A1- | 5,8                        |                            | 195                  | 242                  | 204                  | 36                   | 6                          | ●      |
| DC160-30-06.000A1- | 6                          |                            | 195                  | 242                  | 204                  | 36                   | 6                          | ●      |
| DC160-30-06.100A1- | 6,1                        |                            | 217                  | 268                  | 228                  | 36                   | 8                          | ●      |
| DC160-30-06.350A1- | 6,35                       | 1/4"                       | 217                  | 268                  | 228                  | 36                   | 8                          | ●      |
| DC160-30-06.500A1- | 6,5                        |                            | 217                  | 268                  | 228                  | 36                   | 8                          | ●      |
| DC160-30-06.800A1- | 6,8                        |                            | 217                  | 268                  | 228                  | 36                   | 8                          | ●      |
| DC160-30-07.000A1- | 7                          |                            | 217                  | 268                  | 228                  | 36                   | 8                          | ●      |
| DC160-30-07.144A1- | 7,144                      | 9/32"                      | 244                  | 294                  | 256                  | 36                   | 8                          | ●      |
| DC160-30-07.400A1- | 7,4                        |                            | 244                  | 294                  | 256                  | 36                   | 8                          | ●      |
| DC160-30-07.500A1- | 7,5                        |                            | 244                  | 294                  | 256                  | 36                   | 8                          | ●      |
| DC160-30-07.938A1- | 7,938                      | 5/16"                      | 244                  | 294                  | 256                  | 36                   | 8                          | ●      |
| DC160-30-08.000A1- | 8                          |                            | 244                  | 294                  | 256                  | 36                   | 8                          | ●      |
| DC160-30-08.300A1- | 8,3                        |                            | 273                  | 330                  | 287                  | 40                   | 10                         | ●      |
| DC160-30-08.500A1- | 8,5                        |                            | 273                  | 330                  | 287                  | 40                   | 10                         | ●      |
| DC160-30-08.731A1- | 8,731                      | 11/32"                     | 273                  | 330                  | 287                  | 40                   | 10                         | ●      |
| DC160-30-09.000A1- | 9                          |                            | 273                  | 330                  | 287                  | 40                   | 10                         | ●      |
| DC160-30-09.525A1- | 9,525                      | 3/8"                       | 305                  | 364                  | 320                  | 40                   | 10                         | ●      |
| DC160-30-09.800A1- | 9,8                        |                            | 305                  | 364                  | 320                  | 40                   | 10                         | ●      |
| DC160-30-10.000A1- | 10                         |                            | 305                  | 364                  | 320                  | 40                   | 10                         | ●      |
| DC160-30-10.200A1- | 10,2                       |                            | 335                  | 401                  | 352                  | 45                   | 12                         | ●      |
| DC160-30-10.319A1- | 10,319                     | 13/32"                     | 335                  | 401                  | 352                  | 45                   | 12                         | ●      |
| DC160-30-11.000A1- | 11                         |                            | 335                  | 401                  | 352                  | 45                   | 12                         | ●      |
| DC160-30-11.113A1- | 11,113                     | 7/16"                      | 364                  | 430                  | 382                  | 45                   | 12                         | ●      |
| DC160-30-11.500A1- | 11,5                       |                            | 364                  | 430                  | 382                  | 45                   | 12                         | ●      |
| DC160-30-11.800A1- | 11,8                       |                            | 364                  | 430                  | 382                  | 45                   | 12                         | ●      |
| DC160-30-11.906A1- | 11,906                     | 15/32"                     | 364                  | 430                  | 382                  | 45                   | 12                         | ●      |
| DC160-30-12.000A1- | 12                         |                            | 364                  | 430                  | 382                  | 45                   | 12                         | ●      |

Ordering example for the WJ30EU grade: DC160-30-03.000A1-WJ30EU

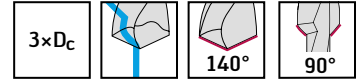
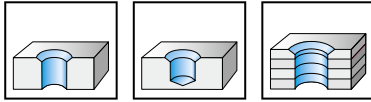
# Solid carbide chamfer drills

## DC260 Advance

### X-treme Evo



- Step length in accordance with DIN 8378
- For thread core hole drilling



|        |    |   |    |   |   |   |   |
|--------|----|---|----|---|---|---|---|
|        | P  | M | K  | N | S | H | O |
| WJ30ET | ●● | ● | ●● | ● | ● | ● | ● |

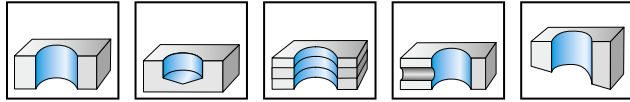
|                       | Designation        | For thread | D <sub>c</sub><br>m7<br>mm | d <sub>10</sub><br>h7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|------------|----------------------------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC260-03-03.300A0- | M 4        | 3,3                        | 5                           | 11                   | 66                   | 28                   | 36                   | 6                          | ●●     |
|                       | DC260-03-04.200A0- | M 5        | 4,2                        | 6                           | 14                   | 66                   | 28                   | 36                   | 6                          | ●●     |
|                       | DC260-03-05.000A0- | M 6        | 5                          | 8                           | 17                   | 79                   | 41                   | 36                   | 8                          | ●●     |
|                       | DC260-03-06.800A0- | M 8        | 6,8                        | 10                          | 21                   | 89                   | 47                   | 40                   | 10                         | ●●     |
|                       | DC260-03-08.500A0- | M 10       | 8,5                        | 12                          | 26                   | 102                  | 55                   | 45                   | 12                         | ●●     |
|                       | DC260-03-10.200A0- | M 12       | 10,2                       | 14                          | 30                   | 107                  | 60                   | 45                   | 14                         | ●●     |
|                       | DC260-03-12.000A0- | M 14       | 12                         | 16                          | 35                   | 115                  | 65                   | 48                   | 16                         | ●●     |
|                       | DC260-03-14.000A0- | M 16       | 14                         | 18                          | 39                   | 123                  | 73                   | 48                   | 18                         | ●●     |
| Shank DIN 6535 HE<br> | DC260-03-03.300F0- | M 4        | 3,3                        | 5                           | 11                   | 66                   | 28                   | 36                   | 6                          | ●●     |
|                       | DC260-03-04.200F0- | M 5        | 4,2                        | 6                           | 14                   | 66                   | 28                   | 36                   | 6                          | ●●     |
|                       | DC260-03-05.000F0- | M 6        | 5                          | 8                           | 17                   | 79                   | 41                   | 36                   | 8                          | ●●     |
|                       | DC260-03-06.800F0- | M 8        | 6,8                        | 10                          | 21                   | 89                   | 47                   | 40                   | 10                         | ●●     |
|                       | DC260-03-07.000F0- | M 8 X 1    | 7                          | 10                          | 21                   | 89                   | 47                   | 40                   | 10                         | ●●     |
|                       | DC260-03-08.500F0- | M 10       | 8,5                        | 12                          | 26                   | 102                  | 55                   | 45                   | 12                         | ●●     |
|                       | DC260-03-09.000F0- | M 10 X 1   | 9                          | 12                          | 26                   | 102                  | 55                   | 45                   | 12                         | ●●     |
|                       | DC260-03-10.200F0- | M 12       | 10,2                       | 14                          | 30                   | 107                  | 60                   | 45                   | 14                         | ●●     |
|                       | DC260-03-10.500F0- | M 12 X 1,5 | 10,5                       | 14                          | 30                   | 107                  | 60                   | 45                   | 14                         | ●●     |
|                       | DC260-03-12.000F0- | M 14       | 12                         | 16                          | 35                   | 115                  | 65                   | 48                   | 16                         | ●●     |
|                       | DC260-03-12.500F0- | M 14 X 1,5 | 12,5                       | 16                          | 35                   | 115                  | 65                   | 48                   | 16                         | ●●     |
|                       | DC260-03-14.000F0- | M 16       | 14                         | 18                          | 39                   | 123                  | 73                   | 48                   | 18                         | ●●     |
|                       | DC260-03-14.500F0- | M 16 X 1,5 | 14,5                       | 18                          | 39                   | 123                  | 73                   | 48                   | 18                         | ●●     |

Ordering example for the WJ30ET grade: DC260-03-03.300A0-WJ30ET

# Solid carbide twist drills

## DC160 Advance

### X-treme Evo

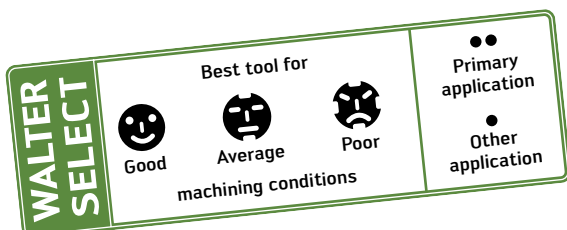


|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| P | M | K | N | S | H | O |
| ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-03-03.000A0- | 3                          |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.100A0- | 3,1                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.175A0- | 3,175                      | 1/8"                       | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.200A0- | 3,2                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.250A0- | 3,25                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.300A0- | 3,3                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.400A0- | 3,4                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.500A0- | 3,5                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.572A0- | 3,572                      | 9/64"                      | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.600A0- | 3,6                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.650A0- | 3,65                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.700A0- | 3,7                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
| DC160-03-03.800A0- | 3,8                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-03.900A0- | 3,9                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-03.969A0- | 3,969                      | 5/32"                      | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.000A0- | 4                          |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.100A0- | 4,1                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.200A0- | 4,2                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.300A0- | 4,3                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.366A0- | 4,366                      | 11/64"                     | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.400A0- | 4,4                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.500A0- | 4,5                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.600A0- | 4,6                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.650A0- | 4,65                       |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.700A0- | 4,7                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
| DC160-03-04.763A0- | 4,763                      | 3/16"                      | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-04.800A0- | 4,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-04.900A0- | 4,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.000A0- | 5                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.100A0- | 5,1                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.159A0- | 5,159                      | 13/64"                     | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.200A0- | 5,2                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.300A0- | 5,3                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.400A0- | 5,4                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.500A0- | 5,5                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.550A0- | 5,55                       |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.556A0- | 5,556                      | 7/32"                      | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.600A0- | 5,6                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.700A0- | 5,7                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.800A0- | 5,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.900A0- | 5,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-05.953A0- | 5,953                      | 15/64"                     | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-03-06.000A0- | 6                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued





Continued

|  | Designation        | D <sub>c</sub><br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-03-06.100A0-   |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ⊗      |   |
|  |                    | DC160-03-06.200A0-   |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ⊗      |   |
|  |                    | DC160-03-06.300A0-   |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ⊗      |   |
|  |                    | DC160-03-06.350A0-   | 6,35                       | 1/4"                 | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.400A0-   | 6,4                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.500A0-   | 6,5                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.600A0-   | 6,6                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.700A0-   | 6,7                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.747A0-   | 6,747                      | 17/64"               | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.800A0-   | 6,8                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-06.900A0-   | 6,9                        |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.000A0-   | 7                          |                      | 24                   | 79                   | 34                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.100A0-   | 7,1                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.144A0-   | 7,144                      | 9/32"                | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.200A0-   | 7,2                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.300A0-   | 7,3                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.400A0-   | 7,4                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.500A0-   | 7,5                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.541A0-   | 7,541                      | 19/64"               | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.550A0-   | 7,55                       |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.600A0-   | 7,6                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.700A0-   | 7,7                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.800A0-   | 7,8                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.900A0-   | 7,9                        |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-07.938A0-   | 7,938                      | 5/16"                | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-08.000A0-   | 8                          |                      | 29                   | 79                   | 41                   | 36                         | 8      | ⊗ |
|  |                    | DC160-03-08.100A0-   | 8,1                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.200A0-   | 8,2                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.300A0-   | 8,3                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.334A0-   | 8,334                      | 21/64"               | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.400A0-   | 8,4                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.500A0-   | 8,5                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.600A0-   | 8,6                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.700A0-   | 8,7                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.731A0-   | 8,731                      | 11/32"               | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.800A0-   | 8,8                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-08.900A0-   | 8,9                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-09.000A0-   | 9                          |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-09.100A0-   | 9,1                        |                      | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  |                    | DC160-03-09.128A0-   | 9,128                      | 23/64"               | 35                   | 89                   | 47                   | 40                         | 10     | ⊗ |
|  | DC160-03-09.200A0- | 9,2                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.300A0- | 9,3                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.400A0- | 9,4                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.500A0- | 9,5                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.525A0- | 9,525                | 3/8"                       | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.550A0- | 9,55                 |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.600A0- | 9,6                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.700A0- | 9,7                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.800A0- | 9,8                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.900A0- | 9,9                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-09.922A0- | 9,922                | 25/64"                     | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-10.000A0- | 10                   |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ⊗      |   |
|  | DC160-03-10.100A0- | 10,1                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.200A0- | 10,2                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.300A0- | 10,3                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.319A0- | 10,319               | 13/32"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.400A0- | 10,4                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.500A0- | 10,5                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.600A0- | 10,6                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.700A0- | 10,7                 |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |
|  | DC160-03-10.716A0- | 10,716               | 27/64"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ⊗      |   |

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

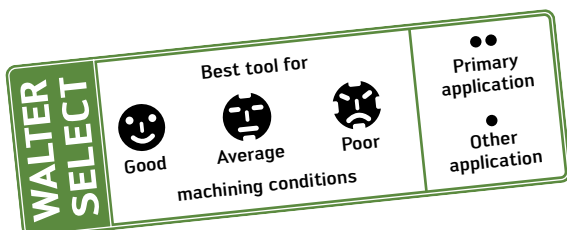
Continued

Continued

|                       | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC160-03-10.800A0- | 10,8                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-10.900A0- | 10,9                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.000A0- | 11                         |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.100A0- | 11,1                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.113A0- | 11,113                     | 7/16"                      | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.200A0- | 11,2                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.300A0- | 11,3                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.400A0- | 11,4                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.500A0- | 11,5                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.509A0- | 11,509                     | 29/64"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.550A0- | 11,55                      |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.600A0- | 11,6                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.700A0- | 11,7                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.800A0- | 11,8                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.900A0- | 11,9                       |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-11.906A0- | 11,906                     | 15/32"                     | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-12.000A0- | 12                         |                            | 40                   | 102                  | 55                   | 45                   | 12                         | ☺      |
|                       | DC160-03-12.100A0- | 12,1                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.200A0- | 12,2                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.250A0- | 12,25                      |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.300A0- | 12,3                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.303A0- | 12,303                     | 31/64"                     | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.400A0- | 12,4                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.500A0- | 12,5                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.600A0- | 12,6                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.700A0- | 12,7                       | 1/2"                       | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.750A0- | 12,75                      |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.800A0- | 12,8                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-12.900A0- | 12,9                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.000A0- | 13                         |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.100A0- | 13,1                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.200A0- | 13,2                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.300A0- | 13,3                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.400A0- | 13,4                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.494A0- | 13,494                     | 17/32"                     | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.500A0- | 13,5                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.600A0- | 13,6                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.700A0- | 13,7                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.800A0- | 13,8                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
|                       | DC160-03-13.900A0- | 13,9                       |                            | 43                   | 107                  | 60                   | 45                   | 14                         | ☺      |
| DC160-03-14.000A0-    | 14                 |                            | 43                         | 107                  | 60                   | 45                   | 14                   | ☺                          |        |
| DC160-03-14.100A0-    | 14,1               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.200A0-    | 14,2               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.288A0-    | 14,288             | 9/16"                      | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.300A0-    | 14,3               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.400A0-    | 14,4               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.500A0-    | 14,5               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.600A0-    | 14,6               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.700A0-    | 14,7               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.750A0-    | 14,75              |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-14.800A0-    | 14,8               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.000A0-    | 15                 |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.100A0-    | 15,1               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.200A0-    | 15,2               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.300A0-    | 15,3               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.500A0-    | 15,5               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |
| DC160-03-15.600A0-    | 15,6               |                            | 45                         | 115                  | 65                   | 48                   | 16                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued



Continued

|                       | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC160-03-15.700A0- | 15,7                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-15.800A0- | 15,8                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-15.875A0- | 15,875                     | 5/8"                       | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-15.900A0- | 15,9                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-16.000A0- | 16                         |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |
|                       | DC160-03-16.100A0- | 16,1                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.200A0- | 16,2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.300A0- | 16,3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.400A0- | 16,4                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.500A0- | 16,5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.600A0- | 16,6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.700A0- | 16,7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.750A0- | 16,75                      |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-16.800A0- | 16,8                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.000A0- | 17                         |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.200A0- | 17,2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.300A0- | 17,3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.500A0- | 17,5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.600A0- | 17,6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
|                       | DC160-03-17.700A0- | 17,7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |
| DC160-03-17.800A0-    | 17,8               |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊗                          |        |
| DC160-03-18.000A0-    | 18                 |                            | 51                         | 123                  | 73                   | 48                   | 18                   | ⊗                          |        |
| DC160-03-18.200A0-    | 18,2               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-18.500A0-    | 18,5               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-18.700A0-    | 18,7               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-18.800A0-    | 18,8               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.000A0-    | 19                 |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.050A0-    | 19,05              | 3/4"                       | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.500A0-    | 19,5               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.700A0-    | 19,7               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-19.800A0-    | 19,8               |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| DC160-03-20.000A0-    | 20                 |                            | 55                         | 131                  | 79                   | 50                   | 20                   | ⊗                          |        |
| Shank DIN 6535 HE<br> | DC160-03-03.000F0- | 3                          |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.100F0- | 3,1                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.200F0- | 3,2                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.250F0- | 3,25                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.300F0- | 3,3                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.400F0- | 3,4                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.500F0- | 3,5                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.600F0- | 3,6                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.650F0- | 3,65                       |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.700F0- | 3,7                        |                            | 14                   | 62                   | 20                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.800F0- | 3,8                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-03.900F0- | 3,9                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.000F0- | 4                          |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.100F0- | 4,1                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.200F0- | 4,2                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.300F0- | 4,3                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.400F0- | 4,4                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.500F0- | 4,5                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.600F0- | 4,6                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.650F0- | 4,65                       |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.700F0- | 4,7                        |                            | 17                   | 66                   | 24                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.800F0- | 4,8                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-04.900F0- | 4,9                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.000F0- | 5                          |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.100F0- | 5,1                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.200F0- | 5,2                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
|                       | DC160-03-05.300F0- | 5,3                        |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ⊗      |
| DC160-03-05.400F0-    | 5,4                |                            | 20                         | 66                   | 28                   | 36                   | 6                    | ⊗                          |        |
| DC160-03-05.500F0-    | 5,5                |                            | 20                         | 66                   | 28                   | 36                   | 6                    | ⊗                          |        |

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

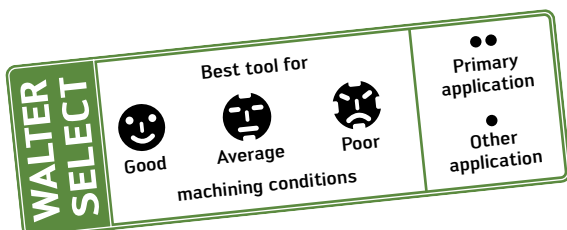
Continued

Continued

|                    | Designation        | D <sub>c</sub><br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | Shank DIN 6535 HE  |                      |                            |                      |                      |                      |                      |                            |        |
|                    | DC160-03-05.550F0- | 5,55                 |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                    | DC160-03-05.600F0- | 5,6                  |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                    | DC160-03-05.700F0- | 5,7                  |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                    | DC160-03-05.800F0- | 5,8                  |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                    | DC160-03-05.900F0- | 5,9                  |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                    | DC160-03-06.000F0- | 6                    |                            | 20                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                    | DC160-03-06.100F0- | 6,1                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.200F0- | 6,2                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.300F0- | 6,3                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.400F0- | 6,4                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.500F0- | 6,5                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.600F0- | 6,6                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.700F0- | 6,7                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.800F0- | 6,8                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-06.900F0- | 6,9                  |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.000F0- | 7                    |                            | 24                   | 79                   | 34                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.100F0- | 7,1                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.200F0- | 7,2                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.300F0- | 7,3                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.400F0- | 7,4                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.500F0- | 7,5                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.550F0- | 7,55                 |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.600F0- | 7,6                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.700F0- | 7,7                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.800F0- | 7,8                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-07.900F0- | 7,9                  |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-08.000F0- | 8                    |                            | 29                   | 79                   | 41                   | 36                   | 8                          | ☺      |
|                    | DC160-03-08.100F0- | 8,1                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.200F0- | 8,2                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.300F0- | 8,3                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.400F0- | 8,4                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.500F0- | 8,5                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.600F0- | 8,6                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.700F0- | 8,7                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
|                    | DC160-03-08.800F0- | 8,8                  |                            | 35                   | 89                   | 47                   | 40                   | 10                         | ☺      |
| DC160-03-08.900F0- | 8,9                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.000F0- | 9                  |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.100F0- | 9,1                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.200F0- | 9,2                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.300F0- | 9,3                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.400F0- | 9,4                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.500F0- | 9,5                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.550F0- | 9,55               |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.600F0- | 9,6                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.700F0- | 9,7                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.800F0- | 9,8                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-09.900F0- | 9,9                |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-10.000F0- | 10                 |                      | 35                         | 89                   | 47                   | 40                   | 10                   | ☺                          |        |
| DC160-03-10.100F0- | 10,1               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.200F0- | 10,2               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.300F0- | 10,3               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.400F0- | 10,4               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.500F0- | 10,5               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.600F0- | 10,6               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.700F0- | 10,7               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.800F0- | 10,8               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |
| DC160-03-10.900F0- | 10,9               |                      | 40                         | 102                  | 55                   | 45                   | 12                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued



Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HE  | DC160-03-11.000FO-         | 11                         |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.100FO-         | 11.1                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.200FO-         | 11.2                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.300FO-         | 11.3                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.400FO-         | 11.4                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.500FO-         | 11.5                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.550FO-         | 11.55                      |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.600FO-         | 11.6                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.700FO-         | 11.7                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.800FO-         | 11.8                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-11.900FO-         | 11.9                       |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-12.000FO-         | 12                         |                      | 40                   | 102                  | 55                   | 45                         | 12     | ⊗ |
|  |                    | DC160-03-12.100FO-         | 12.1                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.200FO-         | 12.2                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.250FO-         | 12.25                      |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.300FO-         | 12.3                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.400FO-         | 12.4                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.500FO-         | 12.5                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.600FO-         | 12.6                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.700FO-         | 12.7                       | 1/2"                 | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.750FO-         | 12.75                      |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.800FO-         | 12.8                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-12.900FO-         | 12.9                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.000FO-         | 13                         |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.100FO-         | 13.1                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.200FO-         | 13.2                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.300FO-         | 13.3                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.400FO-         | 13.4                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.500FO-         | 13.5                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.600FO-         | 13.6                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.700FO-         | 13.7                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.800FO-         | 13.8                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-13.900FO-         | 13.9                       |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-14.000FO-         | 14                         |                      | 43                   | 107                  | 60                   | 45                         | 14     | ⊗ |
|  |                    | DC160-03-14.100FO-         | 14.1                       |                      | 45                   | 115                  | 65                   | 48                         | 16     | ⊗ |
|  | DC160-03-14.200FO- | 14.2                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.300FO- | 14.3                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.400FO- | 14.4                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.500FO- | 14.5                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.600FO- | 14.6                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.700FO- | 14.7                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.750FO- | 14.75                      |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-14.800FO- | 14.8                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.000FO- | 15                         |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.100FO- | 15.1                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.200FO- | 15.2                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.300FO- | 15.3                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.500FO- | 15.5                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.600FO- | 15.6                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.700FO- | 15.7                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.800FO- | 15.8                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-15.900FO- | 15.9                       |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-16.000FO- | 16                         |                            | 45                   | 115                  | 65                   | 48                   | 16                         | ⊗      |   |
|  | DC160-03-16.100FO- | 16.1                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.200FO- | 16.2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.300FO- | 16.3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.400FO- | 16.4                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.500FO- | 16.5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.600FO- | 16.6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.700FO- | 16.7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |
|  | DC160-03-16.750FO- | 16.75                      |                            | 51                   | 123                  | 73                   | 48                   | 18                         | ⊗      |   |

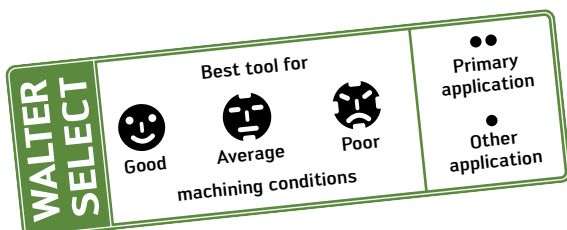
Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | Shank DIN 6535 HE  |                            |                            |                      |                      |                      |                      |                            |        |
|                    | DC160-03-16.800F0- | 16,8                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.000F0- | 17                         |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.200F0- | 17,2                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.300F0- | 17,3                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.500F0- | 17,5                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.600F0- | 17,6                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.700F0- | 17,7                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-17.800F0- | 17,8                       |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-18.000F0- | 18                         |                            | 51                   | 123                  | 73                   | 48                   | 18                         |        |
|                    | DC160-03-18.200F0- | 18,2                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|                    | DC160-03-18.500F0- | 18,5                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|                    | DC160-03-18.700F0- | 18,7                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|                    | DC160-03-18.800F0- | 18,8                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|                    | DC160-03-19.000F0- | 19                         |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|                    | DC160-03-19.500F0- | 19,5                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
|                    | DC160-03-19.700F0- | 19,7                       |                            | 55                   | 131                  | 79                   | 50                   | 20                         |        |
| DC160-03-19.800F0- | 19,8               |                            | 55                         | 131                  | 79                   | 50                   | 20                   |                            |        |
| DC160-03-20.000F0- | 20                 |                            | 55                         | 131                  | 79                   | 50                   | 20                   |                            |        |

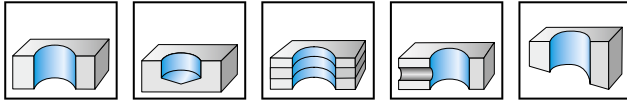
Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET



# Solid carbide twist drills

## DC160 Advance

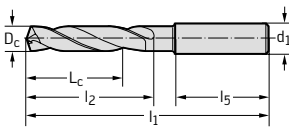
### X-treme Evo



|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| P | M | K | N | S | H | O |
| ● | ● | ● | ● | ● | ● | ● |

| Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DC160-05-03.000A0- | 3                          |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.100A0- | 3,1                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.175A0- | 3,175                      | 1/8"                       | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.200A0- | 3,2                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.250A0- | 3,25                       |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.300A0- | 3,3                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.400A0- | 3,4                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.500A0- | 3,5                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.572A0- | 3,572                      | 9/64"                      | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.600A0- | 3,6                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.650A0- | 3,65                       |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.700A0- | 3,7                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ●      |
| DC160-05-03.800A0- | 3,8                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-03.900A0- | 3,9                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-03.969A0- | 3,969                      | 5/32"                      | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.000A0- | 4                          |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.100A0- | 4,1                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.200A0- | 4,2                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.300A0- | 4,3                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.366A0- | 4,366                      | 11/64"                     | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.400A0- | 4,4                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.500A0- | 4,5                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.600A0- | 4,6                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.650A0- | 4,65                       |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.700A0- | 4,7                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
| DC160-05-04.763A0- | 4,763                      | 3/16"                      | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-04.800A0- | 4,8                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-04.900A0- | 4,9                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.000A0- | 5                          |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.100A0- | 5,1                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.159A0- | 5,159                      | 13/64"                     | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.200A0- | 5,2                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.300A0- | 5,3                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.400A0- | 5,4                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.500A0- | 5,5                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.550A0- | 5,55                       |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.556A0- | 5,556                      | 7/32"                      | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.600A0- | 5,6                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.700A0- | 5,7                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.800A0- | 5,8                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.900A0- | 5,9                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-05.953A0- | 5,953                      | 15/64"                     | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
| DC160-05-06.000A0- | 6                          |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |

Shank DIN 6535 HA



Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

WALTER SELECT

Best tool for

Good   Average   Poor

machining conditions

● ● Primary application

● Other application

Continued

|                       |                    | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC160-05-06.100A0- | 6,1                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.200A0- | 6,2                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.300A0- | 6,3                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.350A0- | 6,35                       | 1/4"                       | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.400A0- | 6,4                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.500A0- | 6,5                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.600A0- | 6,6                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.700A0- | 6,7                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.747A0- | 6,747                      | 17/64"                     | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.800A0- | 6,8                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-06.900A0- | 6,9                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.000A0- | 7                          |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.100A0- | 7,1                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.144A0- | 7,144                      | 9/32"                      | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.200A0- | 7,2                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.300A0- | 7,3                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.400A0- | 7,4                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.500A0- | 7,5                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.541A0- | 7,541                      | 19/64"                     | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.550A0- | 7,55                       |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.600A0- | 7,6                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.700A0- | 7,7                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.800A0- | 7,8                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.900A0- | 7,9                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-07.938A0- | 7,938                      | 5/16"                      | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-08.000A0- | 8                          |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                       | DC160-05-08.100A0- | 8,1                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.200A0- | 8,2                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.300A0- | 8,3                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.334A0- | 8,334                      | 21/64"                     | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.400A0- | 8,4                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.500A0- | 8,5                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.600A0- | 8,6                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.700A0- | 8,7                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.731A0- | 8,731                      | 11/32"                     | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.800A0- | 8,8                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                       | DC160-05-08.900A0- | 8,9                        |                            | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
| DC160-05-09.000A0-    | 9                  |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.100A0-    | 9,1                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.128A0-    | 9,128              | 23/64"                     | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.200A0-    | 9,2                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.300A0-    | 9,3                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.400A0-    | 9,4                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.500A0-    | 9,5                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.525A0-    | 9,525              | 3/8"                       | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.550A0-    | 9,55               |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.600A0-    | 9,6                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.700A0-    | 9,7                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.800A0-    | 9,8                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.900A0-    | 9,9                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.922A0-    | 9,922              | 25/64"                     | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-10.000A0-    | 10                 |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-10.100A0-    | 10,1               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.200A0-    | 10,2               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.300A0-    | 10,3               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.319A0-    | 10,319             | 13/32"                     | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.400A0-    | 10,4               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.500A0-    | 10,5               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.600A0-    | 10,6               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.700A0-    | 10,7               |                            | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |
| DC160-05-10.716A0-    | 10,716             | 27/64"                     | 56                         | 118                  | 71                   | 45                   | 12                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

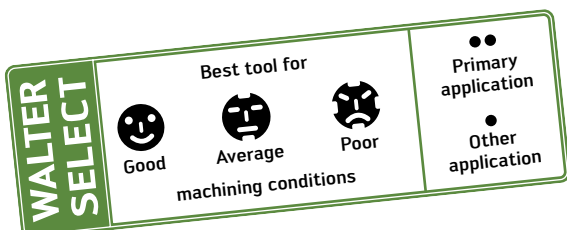


Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HA  | DC160-05-10.800A0-         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |   |
|  |                    | DC160-05-10.900A0-         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |   |
|  |                    | DC160-05-11.000A0-         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |   |
|  |                    | DC160-05-11.100A0-         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |   |
|  |                    | DC160-05-11.113A0-         | 11,113                     | 7/16"                | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.200A0-         | 11,2                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.300A0-         | 11,3                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.400A0-         | 11,4                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.500A0-         | 11,5                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.509A0-         | 11,509                     | 29/64"               | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.550A0-         | 11,55                      |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.600A0-         | 11,6                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.700A0-         | 11,7                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.800A0-         | 11,8                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.900A0-         | 11,9                       |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-11.906A0-         | 11,906                     | 15/32"               | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-12.000A0-         | 12                         |                      | 56                   | 118                  | 71                   | 45                         | 12     | ☺ |
|  |                    | DC160-05-12.100A0-         | 12,1                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.200A0-         | 12,2                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.250A0-         | 12,25                      |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.300A0-         | 12,3                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.303A0-         | 12,303                     | 31/64"               | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.400A0-         | 12,4                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.500A0-         | 12,5                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.600A0-         | 12,6                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.700A0-         | 12,7                       | 1/2"                 | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.750A0-         | 12,75                      |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.800A0-         | 12,8                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-12.900A0-         | 12,9                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-13.000A0-         | 13                         |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-13.100A0-         | 13,1                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-13.200A0-         | 13,2                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-13.300A0-         | 13,3                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-13.400A0-         | 13,4                       |                      | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  |                    | DC160-05-13.494A0-         | 13,494                     | 17/32"               | 60                   | 124                  | 77                   | 45                         | 14     | ☺ |
|  | DC160-05-13.500A0- | 13,5                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |   |
|  | DC160-05-13.600A0- | 13,6                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |   |
|  | DC160-05-13.700A0- | 13,7                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |   |
|  | DC160-05-13.800A0- | 13,8                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |   |
|  | DC160-05-13.900A0- | 13,9                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |   |
|  | DC160-05-14.000A0- | 14                         |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |   |
|  | DC160-05-14.100A0- | 14,1                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.200A0- | 14,2                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.288A0- | 14,288                     | 9/16"                      | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.300A0- | 14,3                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.400A0- | 14,4                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.500A0- | 14,5                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.600A0- | 14,6                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.700A0- | 14,7                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.750A0- | 14,75                      |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-14.800A0- | 14,8                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-15.000A0- | 15                         |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-15.100A0- | 15,1                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-15.200A0- | 15,2                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-15.300A0- | 15,3                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-15.500A0- | 15,5                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |
|  | DC160-05-15.600A0- | 15,6                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |   |

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued



Continued

|                       | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|-----------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| Shank DIN 6535 HA<br> | DC160-05-15.700A0- | 15,7                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |
|                       | DC160-05-15.800A0- | 15,8                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |
|                       | DC160-05-15.875A0- | 15,875                     | 5/8"                       | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |
|                       | DC160-05-15.900A0- | 15,9                       |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |
|                       | DC160-05-16.000A0- | 16                         |                            | 63                   | 133                  | 83                   | 48                   | 16                         | ☺      |
|                       | DC160-05-16.100A0- | 16,1                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.200A0- | 16,2                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.300A0- | 16,3                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.400A0- | 16,4                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.500A0- | 16,5                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.600A0- | 16,6                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.700A0- | 16,7                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.750A0- | 16,75                      |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-16.800A0- | 16,8                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.000A0- | 17                         |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.200A0- | 17,2                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.300A0- | 17,3                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.500A0- | 17,5                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.600A0- | 17,6                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.700A0- | 17,7                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-17.800A0- | 17,8                       |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-18.000A0- | 18                         |                            | 71                   | 143                  | 93                   | 48                   | 18                         | ☺      |
|                       | DC160-05-18.200A0- | 18,2                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-18.500A0- | 18,5                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-18.700A0- | 18,7                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-18.800A0- | 18,8                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-19.000A0- | 19                         |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-19.050A0- | 19,05                      | 3/4"                       | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-19.500A0- | 19,5                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-19.700A0- | 19,7                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-19.800A0- | 19,8                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-20.000A0- | 20                         |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |
|                       | DC160-05-20.500A0- | 20,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |
| DC160-05-21.000A0-    | 21                 |                            | 86                         | 166                  | 108                  | 56                   | 25                   | ☺                          |        |
| DC160-05-21.500A0-    | 21,5               |                            | 86                         | 166                  | 108                  | 56                   | 25                   | ☺                          |        |
| DC160-05-22.000A0-    | 22                 |                            | 86                         | 166                  | 108                  | 56                   | 25                   | ☺                          |        |
| DC160-05-22.500A0-    | 22,5               |                            | 91                         | 173                  | 115                  | 56                   | 25                   | ☺                          |        |
| DC160-05-23.000A0-    | 23                 |                            | 91                         | 173                  | 115                  | 56                   | 25                   | ☺                          |        |
| DC160-05-23.500A0-    | 23,5               |                            | 91                         | 173                  | 115                  | 56                   | 25                   | ☺                          |        |
| DC160-05-24.000A0-    | 24                 |                            | 91                         | 173                  | 115                  | 56                   | 25                   | ☺                          |        |
| DC160-05-24.500A0-    | 24,5               |                            | 97                         | 180                  | 122                  | 56                   | 25                   | ☺                          |        |
| DC160-05-25.000A0-    | 25                 |                            | 97                         | 180                  | 122                  | 56                   | 25                   | ☺                          |        |
| Shank DIN 6535 HE<br> | DC160-05-03.000F0- | 3                          |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.100F0- | 3,1                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.200F0- | 3,2                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.250F0- | 3,25                       |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.300F0- | 3,3                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.400F0- | 3,4                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.500F0- | 3,5                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.600F0- | 3,6                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.650F0- | 3,65                       |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.700F0- | 3,7                        |                            | 23                   | 66                   | 28                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.800F0- | 3,8                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-03.900F0- | 3,9                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-04.000F0- | 4                          |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-04.100F0- | 4,1                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-04.200F0- | 4,2                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-04.300F0- | 4,3                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-04.400F0- | 4,4                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                       | DC160-05-04.500F0- | 4,5                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
| DC160-05-04.600F0-    | 4,6                |                            | 29                         | 74                   | 36                   | 36                   | 6                    | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

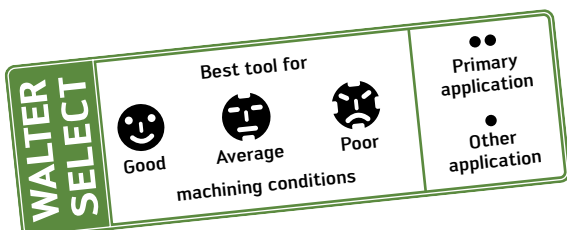
Continued

Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | DC160-05-04.650FO- | 4,65                       |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                    | DC160-05-04.700FO- | 4,7                        |                            | 29                   | 74                   | 36                   | 36                   | 6                          | ☺      |
|                    | DC160-05-04.800FO- | 4,8                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-04.900FO- | 4,9                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.000FO- | 5                          |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.100FO- | 5,1                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.200FO- | 5,2                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.300FO- | 5,3                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.400FO- | 5,4                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.500FO- | 5,5                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.550FO- | 5,55                       |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.600FO- | 5,6                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.700FO- | 5,7                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.800FO- | 5,8                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-05.900FO- | 5,9                        |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-06.000FO- | 6                          |                            | 35                   | 82                   | 44                   | 36                   | 6                          | ☺      |
|                    | DC160-05-06.100FO- | 6,1                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.200FO- | 6,2                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.300FO- | 6,3                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.400FO- | 6,4                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.500FO- | 6,5                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.600FO- | 6,6                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.700FO- | 6,7                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.800FO- | 6,8                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-06.900FO- | 6,9                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.000FO- | 7                          |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.100FO- | 7,1                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.200FO- | 7,2                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.300FO- | 7,3                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.400FO- | 7,4                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.500FO- | 7,5                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.550FO- | 7,55                       |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.600FO- | 7,6                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.700FO- | 7,7                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.800FO- | 7,8                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
|                    | DC160-05-07.900FO- | 7,9                        |                            | 43                   | 91                   | 53                   | 36                   | 8                          | ☺      |
| DC160-05-08.000FO- | 8                  |                            | 43                         | 91                   | 53                   | 36                   | 8                    | ☺                          |        |
| DC160-05-08.100FO- | 8,1                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.200FO- | 8,2                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.300FO- | 8,3                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.400FO- | 8,4                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.500FO- | 8,5                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.600FO- | 8,6                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.700FO- | 8,7                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.800FO- | 8,8                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-08.900FO- | 8,9                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.000FO- | 9                  |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.100FO- | 9,1                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.200FO- | 9,2                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.300FO- | 9,3                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.400FO- | 9,4                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.500FO- | 9,5                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.550FO- | 9,55               |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.600FO- | 9,6                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.700FO- | 9,7                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.800FO- | 9,8                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |
| DC160-05-09.900FO- | 9,9                |                            | 49                         | 103                  | 61                   | 40                   | 10                   | ☺                          |        |

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued



Continued

|                    | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |
|--------------------|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
|                    | Shank DIN 6535 HE  | DC160-05-10.000FO-         | 10                         | 49                   | 103                  | 61                   | 40                   | 10                         | ☺      |
|                    | DC160-05-10.100FO- | 10,1                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.200FO- | 10,2                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.300FO- | 10,3                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.400FO- | 10,4                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.500FO- | 10,5                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.600FO- | 10,6                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.700FO- | 10,7                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.800FO- | 10,8                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-10.900FO- | 10,9                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.000FO- | 11                         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.100FO- | 11,1                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.200FO- | 11,2                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.300FO- | 11,3                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.400FO- | 11,4                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.500FO- | 11,5                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.550FO- | 11,55                      |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.600FO- | 11,6                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.700FO- | 11,7                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.800FO- | 11,8                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-11.900FO- | 11,9                       |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-12.000FO- | 12                         |                            | 56                   | 118                  | 71                   | 45                   | 12                         | ☺      |
|                    | DC160-05-12.100FO- | 12,1                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.200FO- | 12,2                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.250FO- | 12,25                      |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.300FO- | 12,3                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.400FO- | 12,4                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.500FO- | 12,5                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.600FO- | 12,6                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.700FO- | 12,7                       | 1/2"                       | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.750FO- | 12,75                      |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.800FO- | 12,8                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-12.900FO- | 12,9                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-13.000FO- | 13                         |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
|                    | DC160-05-13.100FO- | 13,1                       |                            | 60                   | 124                  | 77                   | 45                   | 14                         | ☺      |
| DC160-05-13.200FO- | 13,2               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.300FO- | 13,3               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.400FO- | 13,4               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.500FO- | 13,5               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.600FO- | 13,6               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.700FO- | 13,7               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.800FO- | 13,8               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-13.900FO- | 13,9               |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-14.000FO- | 14                 |                            | 60                         | 124                  | 77                   | 45                   | 14                   | ☺                          |        |
| DC160-05-14.100FO- | 14,1               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.200FO- | 14,2               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.300FO- | 14,3               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.400FO- | 14,4               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.500FO- | 14,5               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.600FO- | 14,6               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.700FO- | 14,7               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.750FO- | 14,75              |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-14.800FO- | 14,8               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.000FO- | 15                 |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.100FO- | 15,1               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.200FO- | 15,2               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.300FO- | 15,3               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.500FO- | 15,5               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.600FO- | 15,6               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.700FO- | 15,7               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |
| DC160-05-15.800FO- | 15,8               |                            | 63                         | 133                  | 83                   | 48                   | 16                   | ☺                          |        |

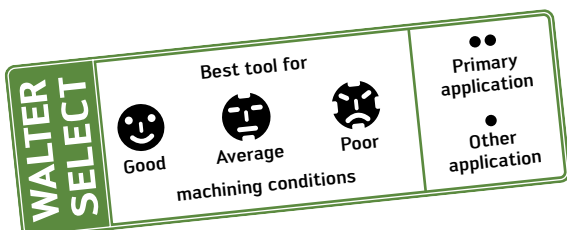
Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

Continued

|  | Designation        | D <sub>c</sub><br>m7<br>mm | D <sub>c</sub><br>Inch/no. | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30ET |   |
|--|--------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|---|
|  | Shank DIN 6535 HE  | DC160-05-15.900F0-         | 15,9                       |                      | 63                   | 133                  | 83                   | 48                         | 16     | ☺ |
|  |                    | DC160-05-16.000F0-         | 16                         |                      | 63                   | 133                  | 83                   | 48                         | 16     | ☺ |
|  |                    | DC160-05-16.100F0-         | 16,1                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.200F0-         | 16,2                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.300F0-         | 16,3                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.400F0-         | 16,4                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.500F0-         | 16,5                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.600F0-         | 16,6                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.700F0-         | 16,7                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.750F0-         | 16,75                      |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-16.800F0-         | 16,8                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.000F0-         | 17                         |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.200F0-         | 17,2                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.300F0-         | 17,3                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.500F0-         | 17,5                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.600F0-         | 17,6                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.700F0-         | 17,7                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-17.800F0-         | 17,8                       |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-18.000F0-         | 18                         |                      | 71                   | 143                  | 93                   | 48                         | 18     | ☺ |
|  |                    | DC160-05-18.200F0-         | 18,2                       |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  |                    | DC160-05-18.500F0-         | 18,5                       |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  |                    | DC160-05-18.700F0-         | 18,7                       |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  |                    | DC160-05-18.800F0-         | 18,8                       |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  |                    | DC160-05-19.000F0-         | 19                         |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  |                    | DC160-05-19.500F0-         | 19,5                       |                      | 77                   | 153                  | 101                  | 50                         | 20     | ☺ |
|  | DC160-05-19.700F0- | 19,7                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-19.800F0- | 19,8                       |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-20.000F0- | 20                         |                            | 77                   | 153                  | 101                  | 50                   | 20                         | ☺      |   |
|  | DC160-05-20.500F0- | 20,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-21.000F0- | 21                         |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-21.500F0- | 21,5                       |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-22.000F0- | 22                         |                            | 86                   | 166                  | 108                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-22.500F0- | 22,5                       |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-23.000F0- | 23                         |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-23.500F0- | 23,5                       |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-24.000F0- | 24                         |                            | 91                   | 173                  | 115                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-24.500F0- | 24,5                       |                            | 97                   | 180                  | 122                  | 56                   | 25                         | ☺      |   |
|  | DC160-05-25.000F0- | 25                         |                            | 97                   | 180                  | 122                  | 56                   | 25                         | ☺      |   |

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET



# Cutting data for solid carbide drilling and reaming tools







## Solid carbide drills – with internal coolant

| Material group  | = Wet machining (E = emulsion, O = oil)<br>= Dry machining is possible (M = MQL, L = dry)<br>The cutting data must be selected from Walter GPS<br><br>v <sub>c</sub> = Cutting speed<br>VRR = Feed rate chart<br><br>VCRR = v <sub>c</sub> rate chart<br><br>* The classification of the machining groups can be found in the material group comparison table |   |                                | Drilling depth                                       |                   |                | 3 x D <sub>c</sub>        |                   |                   |                           |     |                   |                   |                   |  |
|---|---|---|--------------------------------|--|-------------------|----------------|---------------------------|-------------------|-------------------|---------------------------|-----|-------------------|-------------------|-------------------|--|
|   |   |   |                                | Designation  |                   |                | DC260 Advance X-treme Evo |                   |                   | DC160 Advance X-treme Evo |     |                   |                   |                   |  |
|   |   |   |                                | Standard   |                   |                | Walter                    |                   |                   | DIN 6537 K                |     |                   |                   |                   |  |
|   |   |   |                                | Grade  |                   |                | WJ30ET                    |                   |                   | WJ30ET                    |     |                   |                   |                   |  |
|   |   |   |                                | Dia. range [mm]                                      |                   |                | 3,3–14                    |                   |                   | 3–20                      |     |                   |                   |                   |  |
|   |   |   |                                | Page   |                   |                | 5                         |                   |                   | 6                         |     |                   |                   |                   |  |
| Overview of the main material groups and code letters |   |   | Brinell hardness HB            | Tensile strength R <sub>m</sub> [N/mm <sup>2</sup> ] | Machining group * |                |                           |                   |                   |                           |     |                   |                   |                   |  |
|   |   |   |                                |  |                   | v <sub>c</sub> | VRR                       |                   |                   | v <sub>c</sub>            | VRR |                   |                   |                   |  |
| <b>P</b>  | Non-alloyed steel   | C ≤ 0.25%                               | Annealed                       | 125  | 62                | P1             | 140                       | 10                | <b>E</b> <b>O</b> |                           |     | 140               | 10                | <b>E</b> <b>O</b> |  |
|   |   | C > 0.25 to ≤ 0.55%                     | Annealed                       | 190  | 93                | P2             | 140                       | 12                | <b>E</b> <b>O</b> |                           |     | 140               | 12                | <b>E</b> <b>O</b> |  |
|   |   | C > 0.25 to ≤ 0.55%                     | Heat-treated                   | 210  | 103               | P3             | 140                       | 12                | <b>E</b> <b>O</b> |                           |     | 140               | 12                | <b>E</b> <b>O</b> |  |
|   |   | C > 0.55%                               | Annealed                       | 190  | 93                | P4             | 140                       | 9                 | <b>E</b> <b>O</b> |                           |     | 140               | 9                 | <b>E</b> <b>O</b> |  |
|   |   | C > 0.55%                               | Heat-treated                   | 300  | 146               | P5             | 120                       | 10                | <b>E</b> <b>O</b> |                           |     | 110               | 10                | <b>E</b> <b>O</b> |  |
|   |   | Free-machining steel (short-chipping)   | Annealed                       | 220  | 109               | P6             | 160                       | 12                | <b>E</b> <b>O</b> |                           |     | 160               | 12                | <b>E</b> <b>O</b> |  |
|   | Low-alloy steel   |   | Annealed                       | 175  | 86                | P7             | 140                       | 10                | <b>E</b> <b>O</b> |                           |     | 140               | 10                | <b>E</b> <b>O</b> |  |
|   |   |   | Heat-treated                   | 285  | 139               | P8             | 100                       | 10                | <b>E</b> <b>O</b> |                           |     | 100               | 10                | <b>E</b> <b>O</b> |  |
|   |   |   | Heat-treated                   | 380  | 186               | P9             | 63                        | 8                 | <b>E</b> <b>O</b> |                           |     | 56                | 8                 | <b>E</b> <b>O</b> |  |
|   |   |   | Heat-treated                   | 430  | 215               | P10            | 71                        | 5                 | <b>E</b> <b>O</b> |                           |     | 63                | 5                 | <b>E</b> <b>O</b> |  |
|   | High-alloy steel and high-alloy tool steel  |   | Annealed                       | 200  | 99                | P11            | 100                       | 9                 | <b>E</b> <b>O</b> |                           |     | 90                | 9                 | <b>E</b> <b>O</b> |  |
|   |   |   | Hardened and tempered          | 300  | 146               | P12            | 120                       | 10                | <b>E</b> <b>O</b> |                           |     | 110               | 10                | <b>E</b> <b>O</b> |  |
|   | Stainless steel   |   | Hardened and tempered          | 380  | 186               | P13            | 56                        | 7                 | <b>E</b> <b>O</b> |                           |     | 50                | 7                 | <b>E</b> <b>O</b> |  |
|   |   | Stainless steel                         | Ferritic/martensitic, annealed | 200  | 99                | P14            | 120                       | 12                | <b>E</b> <b>O</b> |                           |     | 120               | 12                | <b>E</b> <b>O</b> |  |
|   |   |   | Martensitic, heat-treated      | 330  | 161               | P15            | 63                        | 10                | <b>E</b> <b>O</b> |                           |     | 56                | 10                | <b>E</b> <b>O</b> |  |
| <b>M</b>  | Stainless steel   | Austenitic, quench hardened             | 200                            | 99   | M1                | 56             | 6                         | <b>E</b> <b>O</b> |                   |                           | 50  | 6                 | <b>E</b> <b>O</b> |                   |  |
|   |   | Austenitic, precipitation hardened (PH) | 300                            | 146  | M2                | 50             | 6                         | <b>E</b> <b>O</b> |                   |                           | 45  | 6                 | <b>E</b> <b>O</b> |                   |  |
|   |   | Austenitic/ferritic, duplex             | 230                            | 113  | M3                | 40             | 5                         | <b>E</b> <b>O</b> |                   |                           | 36  | 5                 | <b>E</b> <b>O</b> |                   |  |
| <b>K</b>  | Malleable cast iron   | Ferritic                                | 200                            | 58   | K1                | 110            | 16                        | <b>E</b> <b>O</b> |                   |                           | 110 | 16                | <b>E</b> <b>O</b> |                   |  |
|   |   | Pearlitic                               | 260                            | 102  | K2                | 100            | 16                        | <b>E</b> <b>O</b> |                   |                           | 100 | 16                | <b>E</b> <b>O</b> |                   |  |
|   | Grey cast iron  | Low tensile strength                    | 180                            | 29   | K3                | 140            | 16                        | <b>E</b> <b>O</b> |                   |                           | 120 | 16                | <b>E</b> <b>O</b> |                   |  |
|   |   | High tensile strength/austenitic        | 245                            | 51   | K4                | 110            | 16                        | <b>E</b> <b>O</b> |                   |                           | 110 | 16                | <b>E</b> <b>O</b> |                   |  |
|   | Cast iron with spheroidal graphite  | Ferritic                                | 155                            | 58   | K5                | 160            | 20                        | <b>E</b> <b>O</b> |                   |                           | 140 | 20                | <b>E</b> <b>O</b> |                   |  |
|   |   | Pearlitic                               | 265                            | 102  | K6                | 100            | 16                        | <b>E</b> <b>O</b> |                   |                           | 100 | 16                | <b>E</b> <b>O</b> |                   |  |
| GGV (CGI)   |   | 230                                     | 58                             | K7   | 110               | 16             | <b>E</b> <b>O</b>         |                   |                   | 110                       | 16  | <b>E</b> <b>O</b> |                   |                   |  |
| <b>N</b>  | Wrought aluminium alloys  | Not hardenable                          | 30                             | -  | N1                | 450            | 16                        | <b>E</b> <b>O</b> | <b>M</b>          |                           | 400 | 16                | <b>E</b> <b>O</b> | <b>M</b>          |  |
|   |   | Hardenable, hardened                    | 100                            | 49   | N2                | 450            | 16                        | <b>E</b> <b>O</b> | <b>M</b>          |                           | 400 | 16                | <b>E</b> <b>O</b> | <b>M</b>          |  |
|   | Cast aluminium alloys   | ≤ 12% Si, not hardenable                | 75                             | 38   | N3                | 280            | 16                        | <b>E</b> <b>O</b> | <b>M</b>          |                           | 250 | 16                | <b>E</b> <b>O</b> | <b>M</b>          |  |
|   |   | ≤ 12% Si, hardenable, hardened          | 90                             | 45   | N4                | 250            | 16                        | <b>E</b> <b>O</b> | <b>M</b>          |                           | 250 | 16                | <b>E</b> <b>O</b> | <b>M</b>          |  |
|   | Magnesium-based alloys  | > 12% Si, not hardenable                | 130                            | 65   | N5                | 200            | 16                        | <b>E</b> <b>O</b> | <b>M</b>          |                           | 200 | 16                | <b>E</b> <b>O</b> | <b>M</b>          |  |
|   |   |   | 70                             | 36   | N6                |                |                           |                   |                   |                           |     |                   |                   |                   |  |
| Copper and copper alloys (bronze/brass)               | Unalloyed, electrolytic copper  | 100                                     | 49                             | N7   | 200               | 9              | <b>E</b> <b>O</b>         |                   |                   | 200                       | 9   | <b>E</b> <b>O</b> |                   |                   |  |
|   | Brass, bronze, red brass  | 90                                      | 45                             | N8   | 180               | 10             | <b>E</b> <b>O</b>         |                   |                   | 180                       | 10  | <b>E</b> <b>O</b> |                   |                   |  |
|   | Cu alloys, short-chipping   | 110                                     | 55                             | N9   | 200               | 12             | <b>E</b> <b>O</b>         |                   |                   | 200                       | 12  | <b>E</b> <b>O</b> |                   |                   |  |
|   | High tensile, Ampco   | 300                                     | 146                            | N10  | 50                | 5              | <b>E</b> <b>O</b>         |                   |                   | 50                        | 5   | <b>E</b> <b>O</b> |                   |                   |  |
| <b>S</b>  | Heat-resistant alloys   | Fe-based                                | Annealed                       | 200  | 99                | S1             | 45                        | 4                 | <b>E</b> <b>O</b> |                           |     | 40                | 4                 | <b>E</b> <b>O</b> |  |
|   |   |   | Hardened                       | 280  | 136               | S2             | 32                        | 4                 | <b>E</b> <b>O</b> |                           |     | 28                | 4                 | <b>E</b> <b>O</b> |  |
|   |   | Ni- or Co-based                         | Annealed                       | 250  | 122               | S3             | 36                        | 5                 | <b>E</b> <b>O</b> |                           |     | 32                | 5                 | <b>E</b> <b>O</b> |  |
|   |   |   | Hardened                       | 350  | 171               | S4             | 14                        | 4                 | <b>E</b> <b>O</b> |                           |     | 14                | 4                 | <b>E</b> <b>O</b> |  |
|   | Titanium alloys   | Cast                                    | 320                            | 157  | S5                | 28             | 4                         | <b>E</b> <b>O</b> |                   |                           | 25  | 4                 | <b>E</b> <b>O</b> |                   |  |
|   |   | Pure titanium                           | 200                            | 99   | S6                | 63             | 6                         | <b>E</b> <b>O</b> |                   |                           | 56  | 6                 | <b>E</b> <b>O</b> |                   |  |
| α and β alloys, hardened                              |   | 375                                     | 183                            | S7   | 40                | 4              | <b>E</b> <b>O</b>         |                   |                   | 40                        | 4   | <b>E</b> <b>O</b> |                   |                   |  |
| Tungsten alloys                                       | β alloys  | 410                                     | 203                            | S8   | 36                | 4              | <b>E</b> <b>O</b>         |                   |                   | 36                        | 4   | <b>E</b> <b>O</b> |                   |                   |  |
| Molybdenum alloys                                     |   | 300                                     | 146                            | S9   | 50                | 5              | <b>E</b> <b>O</b>         |                   |                   | 50                        | 5   | <b>E</b> <b>O</b> |                   |                   |  |
| <b>H</b>  | Hardened steel  |   | 300                            | 146  | S10               | 50             | 5                         | <b>E</b> <b>O</b> |                   |                           | 50  | 5                 | <b>E</b> <b>O</b> |                   |  |
|   |   | Hardened and tempered                   | 50 HRC                         | -  | H1                | 50             | 3                         | <b>O</b> <b>E</b> |                   |                           | 45  | 3                 | <b>O</b> <b>E</b> |                   |  |
|   |   | Hardened and tempered                   | 55 HRC                         | -  | H2                |                |                           |                   |                   |                           |     |                   |                   |                   |  |
|   | Hardened cast iron  | Hardened and tempered                   | 60 HRC                         | -  | H3                |                |                           |                   |                   |                           |     |                   |                   |                   |  |
| <b>O</b>  | Thermoplastics  | Hardened and tempered                   | 55 HRC                         | -  | H4                |                |                           |                   |                   |                           |     |                   |                   |                   |  |
|   |   |   |                                |  |                   |                |                           |                   |                   |                           |     |                   |                   |                   |  |
|   | Thermosets  | Without abrasive fillers                |                                |  |                   | O1             | 110                       | 16                | <b>E</b> <b>O</b> |                           |     | 110               | 16                | <b>E</b> <b>O</b> |  |
|   |   | Without abrasive fillers                |                                |  |                   | O2             |                           |                   |                   |                           |     |                   |                   |                   |  |
|   | Plastic, glass-fibre-reinforced   | GFRP                                    |                                |  |                   | O3             |                           |                   |                   |                           |     |                   |                   |                   |  |
|   | Plastic, carbon-fibre-reinforced  | CFRP                                    |                                |  |                   | O4             |                           |                   |                   |                           |     |                   |                   |                   |  |
| Plastic, aramid-fibre-reinforced                      | AFRP  |   |                                |  | O5                |                |                           |                   |                   |                           |     |                   |                   |                   |  |
| Graphite (technical)                                  |   | 80 Shore                                |                                |  | O6                |                |                           |                   |                   |                           |     |                   |                   |                   |  |




# Cutting data for solid carbide drilling and reaming tools

## Solid carbide drills – without internal coolant

| Material group  | = Wet machining (E = emulsion, O = oil)<br>= Dry machining is possible (M = MQL, L = dry)<br>The cutting data must be selected from Walter GPS<br><br>v <sub>c</sub> = Cutting speed<br>VRR = Feed rate chart<br><br>VCRR = v <sub>c</sub> rate chart<br><br>* The classification of the machining groups can be found in the material group comparison table |   |                     | Drilling depth                                       |   |   | 3 x D <sub>c</sub>        |     |   |   |     |     |     |     |   |
|---|---|---|---------------------|--|---|---|---------------------------|-----|---|---|-----|-----|-----|-----|---|
|   |   |   |                     | Designation  |   |   | DC260 Advance X-treme Evo |     |   | DC160 Advance X-treme Evo   |     |     |     |     |   |
|   |   |   |                     | Standard   |   |   | Walter                    |     |   | DIN 6537 K  |     |     |     |     |   |
|   |   |   |                     | Grade  |   |   | WJ30ET                    |     |   | WJ30ET  |     |     |     |     |   |
|   |   |   |                     | Dia. range [mm]                                      |   |   | 3,3–14,5                  |     |   | 3–20  |     |     |     |     |   |
|   |   |   |                     | Page   |   |   | 31                        |     |   | 32  |     |     |     |     |   |
| Overview of the main material groups and code letters |   |   | Brinell hardness HB | Tensile strength R <sub>m</sub> [N/mm <sup>2</sup> ] | Machining group *   |  |                           |     |  |   |     |     |     |     |   |
|   |   |   | v <sub>c</sub>      | VRR  |  |  | v <sub>c</sub>            | VRR |  |  |     |     |     |     |   |
| P   | Non-alloyed steel   | C ≤ 0.25%                               | Annealed            | 125  | 62  | P1  | 120                       | 12  | E O   |   |     | 100 | 12  | E O |   |
|   |   | C > 0.25 to ≤ 0.55%                     | Annealed            | 190  | 93  | P2  | 120                       | 12  | E O   |   |     | 110 | 12  | E O |   |
|   |   | C > 0.25 to ≤ 0.55%                     | Heat-treated        | 210  | 103   | P3  | 120                       | 12  | E O   |   |     | 110 | 12  | E O |   |
|   |   | C > 0.55%                               | Annealed            | 190  | 93  | P4  | 120                       | 10  | E O   |   |     | 110 | 10  | E O |   |
|   |   | C > 0.55%                               | Heat-treated        | 300  | 146   | P5  | 100                       | 10  | E O   |   |     | 80  | 10  | E O |   |
|   |   | Free-machining steel (short-chipping)   | Annealed            | 220  | 109   | P6  | 120                       | 16  | E O   |   |     | 110 | 16  | E O |   |
|   | Low-alloy steel   | Annealed                                |                     | 175  | 86  | P7  | 120                       | 12  | E O   |   |     | 110 | 12  | E O |   |
|   |   | Heat-treated                            |                     | 285  | 139   | P8  | 90                        | 10  | E O   |   |     | 71  | 10  | E O |   |
|   |   | Heat-treated                            |                     | 380  | 186   | P9  | 71                        | 7   | E O   |   |     | 56  | 7   | E O |   |
|   |   | Heat-treated                            |                     | 430  | 215   | P10   | 50                        | 5   | E O   |   |     | 40  | 5   | E O |   |
| High-alloy steel and high-alloy tool steel            | Annealed  |   | 200                 | 99   | P11   | 90  | 9                         | E O |   |   | 71  | 9   | E O |     |   |
|   | Hardened and tempered   |   | 300                 | 146  | P12   | 100   | 10                        | E O |   |   | 80  | 10  | E O |     |   |
| Stainless steel                                       | Hardened and tempered   |   | 380                 | 186  | P13   | 45  | 7                         | E O |   |   | 45  | 7   | E O |     |   |
|   | Ferritic/martensitic, annealed  |   | 200                 | 99   | P14   | 110   | 12                        | E O |   |   | 100 | 12  | E O |     |   |
|   | Martensitic, heat-treated   |   | 330                 | 161  | P15   | 71  | 10                        | E O |   |   | 56  | 10  | E O |     |   |
| M   | Stainless steel   | Austenitic, quench hardened             |                     | 200  | 99  | M1  |                           |     |   |   |     |     |     |     |   |
|   |   | Austenitic, precipitation hardened (PH) |                     | 300  | 146   | M2  |                           |     |   |   |     |     |     |     |   |
|   |   | Austenitic/ferritic, duplex             |                     | 230  | 113   | M3  |                           |     |   |   |     |     |     |     |   |
| K   | Malleable cast iron   | Ferritic                                |                     | 200  | 58  | K1  | 90                        | 16  | E O   |   |     | 80  | 16  | E O |   |
|   |   | Pearlitic                               |                     | 260  | 102   | K2  | 90                        | 12  | E O   |   |     | 80  | 12  | E O |   |
|   | Grey cast iron  | Low tensile strength                    |                     | 180  | 29  | K3  | 110                       | 16  | E O   |   |     | 100 | 16  | E O |   |
|   |   | High tensile strength/austenitic        |                     | 245  | 51  | K4  | 90                        | 16  | E O   |   |     | 90  | 16  | E O |   |
|   | Cast iron with spheroidal graphite  | Ferritic                                |                     | 155  | 58  | K5  | 120                       | 16  | E O   |   |     | 110 | 16  | E O |   |
| Pearlitic   |   |   | 265                 | 102  | K6  | 90  | 12                        | E O |   |   | 80  | 12  | E O |     |   |
|   | GGV (CGI)   |   | 230                 | 58   | K7  | 110   | 2                         | E O |   |   | 100 | 2   | E O |     |   |
| N   | Wrought aluminium alloys  | Not hardenable                          |                     | 30   | -   | N1  |                           |     |   |   |     |     |     |     |   |
|   |   | Hardenable, hardened                    |                     | 100  | 49  | N2  |                           |     |   |   |     |     |     |     |   |
|   | Cast aluminium alloys   | ≤ 12% Si, not hardenable                |                     | 75   | 38  | N3  | 250                       | 16  | E O   | M   |     | 250 | 16  | E O | M |
|   |   | ≤ 12% Si, hardenable, hardened          |                     | 90   | 45  | N4  | 220                       | 16  | E O   | M   |     | 220 | 16  | E O | M |
|   |   | > 12% Si, not hardenable                |                     | 130  | 65  | N5  | 180                       | 12  | E O   | M   |     | 180 | 12  | E O | M |
|   | Magnesium-based alloys  |   | 70                  | 36   | N6  |   |                           |     |   |   |     |     |     |     |   |
| Copper and copper alloys (bronze/brass)               | Unalloyed, electrolytic copper  |   | 100                 | 49   | N7  | 200   | 6                         | E O |   |   | 180 | 6   | E O |     |   |
|   | Brass, bronze, red brass  |   | 90                  | 45   | N8  | 180   | 10                        | E O |   |   | 160 | 10  | E O |     |   |
|   | Cu alloys, short-chipping   |   | 110                 | 55   | N9  | 200   | 16                        | E O |   |   | 200 | 16  | E O |     |   |
|   | High tensile, Ampco   |   | 300                 | 146  | N10   | 45  | 5                         | E O |   |   | 45  | 5   | E O |     |   |
| S   | Heat-resistant alloys   | Fe-based                                | Annealed            |  | 200   | 99  | S1                        |     |   |   |     |     |     |     |   |
|   |   |   | Hardened            |  | 280   | 136   | S2                        |     |   |   |     |     |     |     |   |
|   |   | Ni- or Co-based                         | Annealed            |  | 250   | 122   | S3                        |     |   |   |     |     |     |     |   |
|   |   |   | Hardened            |  | 350   | 171   | S4                        |     |   |   |     |     |     |     |   |
|   |   | Cast                                    |                     | 320  | 157   | S5  |                           |     |   |   |     |     |     |     |   |
|   | Titanium alloys   | Pure titanium                           |                     | 200  | 99  | S6  | 45                        | 5   | E O   |   |     | 36  | 5   | E O |   |
|   |   | α and β alloys, hardened                |                     | 375  | 183   | S7  | 32                        | 3   | E O   |   |     | 25  | 3   | E O |   |
|   |   | β alloys                                |                     | 410  | 203   | S8  | 28                        | 3   | E O   |   |     | 22  | 3   | E O |   |
| Tungsten alloys                                       |   | 300                                     | 146                 | S9   |   |   |                           |     |   |   |     |     |     |     |   |
| Molybdenum alloys                                     |   | 300                                     | 146                 | S10  |   |   |                           |     |   |   |     |     |     |     |   |
| H   | Hardened steel  | Hardened and tempered                   |                     | 50 HRC   | -   | H1  | 36                        | 3   | O E   |   |     | 28  | 3   | O E |   |
|   |   | Hardened and tempered                   |                     | 55 HRC   | -   | H2  |                           |     |   |   |     |     |     |     |   |
|   |   | Hardened and tempered                   |                     | 60 HRC   | -   | H3  |                           |     |   |   |     |     |     |     |   |
| Hardened cast iron                                    | Hardened and tempered   |   | 55 HRC              | -  | H4  |   |                           |     |   |   |     |     |     |     |   |
| O   | Thermoplastics  | Without abrasive fillers                |                     |  |   | O1  | 100                       | 16  | E O   |   |     | 100 | 16  | E O |   |
|   | Thermosets  | Without abrasive fillers                |                     |  |   | O2  |                           |     |   |   |     |     |     |     |   |
|   | Plastic, glass-fibre-reinforced   | GFRP                                    |                     |  |   | O3  |                           |     |   |   |     |     |     |     |   |
|   | Plastic, carbon-fibre-reinforced  | CFRP                                    |                     |  |   | O4  |                           |     |   |   |     |     |     |     |   |
|   | Plastic, aramid-fibre-reinforced  | AFRP                                    |                     |  |   | O5  |                           |     |   |   |     |     |     |     |   |
|   | Graphite (technical)  |   | 80 Shore            |  |   | O6  |                           |     |   |   |     |     |     |     |   |



### VRR: Feed rate charts

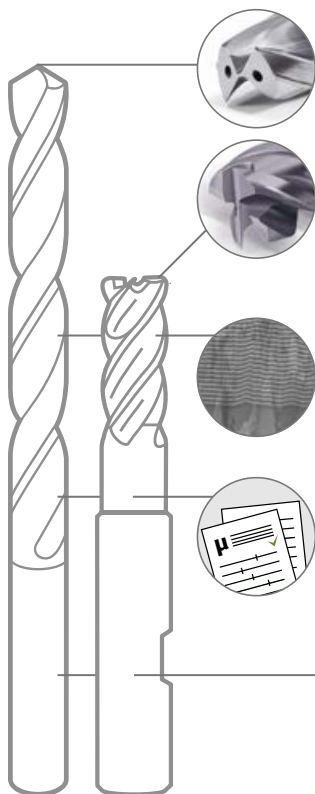
| 5 x D <sub>c</sub>  |     |   |   |   |
|---|-----|---|---|---|
| DC160 Advance X-treme Evo   |     |   |   |   |
| DIN 6537 L  |     |   |   |   |
| WJ30ET  |     |   |   |   |
| 3-25  |     |   |   |   |
| 39  |     |   |   |   |
|  |     |   |   |   |
| v <sub>c</sub>  | VRR |   |   |   |
| 100   | 12  | E | O |   |
| 110   | 12  | E | O |   |
| 100   | 12  | E | O |   |
| 110   | 10  | E | O |   |
| 71  | 10  | E | O |   |
| 100   | 16  | E | O |   |
| 110   | 12  | E | O |   |
| 63  | 10  | E | O |   |
| 50  | 7   | E | O |   |
| 36  | 5   | E | O |   |
| 71  | 9   | E | O |   |
| 71  | 10  | E | O |   |
| 45  | 7   | E | O |   |
| 90  | 12  | E | O |   |
| 50  | 10  | E | O |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
| 80  | 16  | E | O |   |
| 80  | 12  | E | O |   |
| 100   | 16  | E | O |   |
| 80  | 16  | E | O |   |
| 100   | 16  | E | O |   |
| 80  | 12  | E | O |   |
| 90  | 2   | E | O |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
| 250   | 16  | E | O | M |
| 220   | 16  | E | O | M |
| 180   | 12  | E | O | M |
|   |     |   |   |   |
| 180   | 6   | E | O |   |
| 160   | 10  | E | O |   |
| 200   | 16  | E | O |   |
| 45  | 5   | E | O |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
| 32  | 5   | E | O |   |
| 22  | 3   | E | O |   |
| 20  | 3   | E | O |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
| 28  | 3   | O | E |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
| 100   | 16  | E | O |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |
|   |     |   |   |   |

| Feed f [mm] for diameter [mm] |       |       |       |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| VRR                           | 3     | 4     | 5     | 6     | 8     | 10    | 12    | 15    | 20    | 25    |
| 1                             | 0,008 | 0,013 | 0,017 | 0,018 | 0,021 | 0,024 | 0,026 | 0,029 | 0,033 | 0,037 |
| 2                             | 0,017 | 0,027 | 0,033 | 0,037 | 0,042 | 0,047 | 0,052 | 0,058 | 0,067 | 0,075 |
| 3                             | 0,025 | 0,040 | 0,050 | 0,055 | 0,063 | 0,071 | 0,077 | 0,087 | 0,10  | 0,11  |
| 4                             | 0,033 | 0,053 | 0,067 | 0,073 | 0,084 | 0,094 | 0,10  | 0,12  | 0,13  | 0,15  |
| 5                             | 0,042 | 0,067 | 0,083 | 0,091 | 0,11  | 0,12  | 0,13  | 0,14  | 0,17  | 0,19  |
| 6                             | 0,050 | 0,080 | 0,10  | 0,11  | 0,13  | 0,14  | 0,15  | 0,17  | 0,20  | 0,22  |
| 7                             | 0,058 | 0,093 | 0,12  | 0,13  | 0,15  | 0,16  | 0,18  | 0,20  | 0,23  | 0,26  |
| 8                             | 0,067 | 0,11  | 0,13  | 0,15  | 0,17  | 0,19  | 0,21  | 0,23  | 0,27  | 0,30  |
| 9                             | 0,075 | 0,12  | 0,15  | 0,16  | 0,19  | 0,21  | 0,23  | 0,26  | 0,30  | 0,34  |
| 10                            | 0,083 | 0,13  | 0,17  | 0,18  | 0,21  | 0,24  | 0,26  | 0,29  | 0,33  | 0,37  |
| 12                            | 0,10  | 0,16  | 0,20  | 0,22  | 0,25  | 0,28  | 0,31  | 0,35  | 0,40  | 0,45  |
| 16                            | 0,13  | 0,21  | 0,27  | 0,29  | 0,34  | 0,38  | 0,41  | 0,46  | 0,53  | 0,60  |
| 20                            | 0,17  | 0,27  | 0,33  | 0,37  | 0,42  | 0,47  | 0,52  | 0,58  | 0,67  | 0,75  |
| 25                            | 0,21  | 0,33  | 0,42  | 0,46  | 0,53  | 0,59  | 0,65  | 0,72  | 0,83  | 0,93  |
| 30                            | 0,25  | 0,40  | 0,50  | 0,55  | 0,63  | 0,71  | 0,77  | 0,87  | 1,00  | 1,12  |

The specified cutting data are average standard values. For specific applications, adjustment is recommended.

# Reconditioning to the original manufacturer quality really pays off

The Reconditioning Service from Walter Multiply makes a significant contribution towards lowering your production costs. This service can provide you with Walter Titex and Walter Prototyp tools that are as good as new, in the original manufacturer quality and all at an attractive price-performance ratio.



#### ORIGINAL GEOMETRIES

Cutting edge geometries are extremely complex. During reconditioning, Walter calls upon its extensive manufacturing experience to return them to their original condition.

#### ORIGINAL COATING

When it comes to tool performance, the coating is key. Only Walter uses the original coating process during reconditioning.

#### ORIGINAL TOLERANCES

These marks of quality are just as important when reconditioning as when Walter manufactures a completely new tool. To achieve this, we only use the most up-to-date measuring methods.

#### RECONDITIONING RANGE

Walter's solid carbide milling cutters and drills can be reconditioned as standard and special tools.



**Reconditioning Service  
Original Walter Quality**

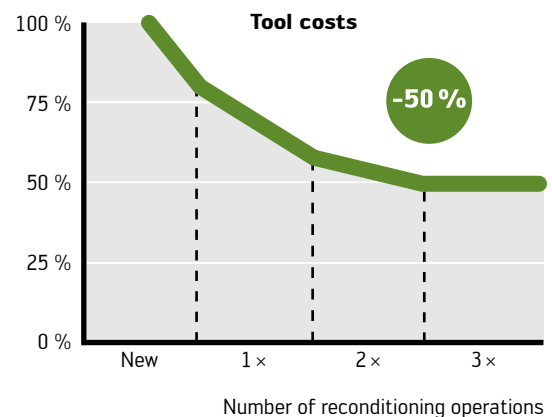
#### OUR MARK OF 100% QUALITY

Look out for the "Original Walter Quality" label. This label indicates that a tool has been reconditioned to original manufacturer quality. It even appears in the ordering documents, enabling you to see the tools for which we recommend our Reconditioning Service.

## 50% LOWER COSTS!

Tools are often disposed of far too early, even though the Walter Reconditioning Service can restore the tool a number of times to original manufacturer quality. Benefit from reduced costs, reliable production processes and consistent tool life by having your tools reconditioned at our Reconditioning Centre, which is available worldwide. That's how you save up to 50% on your tool costs!

Find out more at: [www.reconditioning.walter](http://www.reconditioning.walter)



# How to find and order your standard tools:



## Personal – worldwide

You can contact us by phone, fax or e-mail. The contact details for your local contact can be found on our website at: [walter-tools.com](http://walter-tools.com)



## The Walter General Catalogue 2017

contains the entire standard range of our competence brands Walter, Walter Titex and Walter Prototyp. It is supplemented regularly with the latest Product Innovations catalogue.

At [walter-tools.com](http://walter-tools.com), you can access and order your Walter products quickly and conveniently online – via smartphone, tablet or PC. The benefit for you: Direct access from any device, displayed in an optimised form, at any time.

### Walter online catalogue



#### Tool-specific search

You can find products in the Walter online catalogue using the familiar structure of our product catalogue as well as filter and search functions. Other features: A shopping function and links to drawings and models.

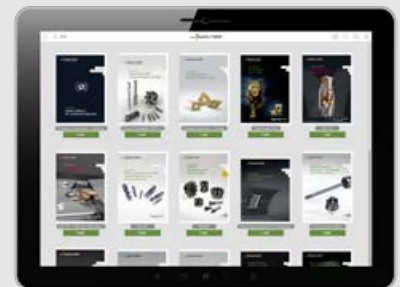
### Walter GPS



#### Application-based search

With Walter GPS, it takes just a few steps to find the optimum machining solution for your component, online and offline – and the solution can be transferred directly to the Walter TOOLSHOP if required.

### Walter eLibrary



#### Document-based search

The Walter e-Library app provides you with all the information you need on your mobile devices within a matter of seconds: E.g. brochures and catalogues – online and offline, in 17 languages.

## Digital ordering methods



**TOOLSHOP**



**EDI B2B**

#### Walter TOOLSHOP & EDI

The Walter TOOLSHOP offers customers opportunities to find information and place orders quickly. EDI (electronic data interchange) also makes it possible to exchange documents (e.g. orders) – even special tools can be ordered.

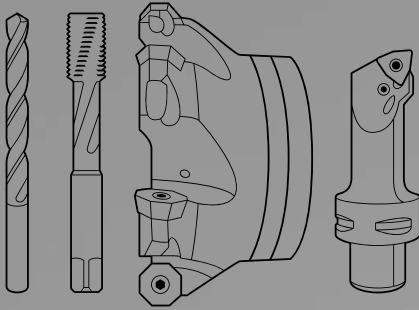
# Walter AG

---

Derendinger Straße 53, 72072 Tübingen  
Postfach 2049, 72010 Tübingen  
Germany

walter-tools.com

---



---

## Walter GB Ltd.

Bromsgrove, England  
+44 (1527) 839 450, [service.uk@walter-tools.com](mailto:service.uk@walter-tools.com)

## Walter Kesici Takımlar Sanayi ve Ticaret Ltd. Şti.

Istanbul, Türkiye  
+90 (0) 216 528 1900 Pbx, [service.tr@walter-tools.com](mailto:service.tr@walter-tools.com)

## Walter Wuxi Co. Ltd.

Wuxi, Jiangsu, P.R. China  
+86 (510) 853 72199, [service.cn@walter-tools.com](mailto:service.cn@walter-tools.com)

## Walter AG Singapore Pte. Ltd.

+65 6773 6180, [service.sg@walter-tools.com](mailto:service.sg@walter-tools.com)

## Walter Korea Ltd.

Anyang-si Gyeonggi-do, Korea  
+82 (31) 337 6100, [service.kr@walter-tools.com](mailto:service.kr@walter-tools.com)

## Walter Tools India Pvt. Ltd.

Pune, India  
+91 (20) 3045 7300, [service.in@walter-tools.com](mailto:service.in@walter-tools.com)

## Walter (Thailand) Co., Ltd.

Bangkok, 10120, Thailand  
+66 2 687 0388, [service.th@walter-tools.com](mailto:service.th@walter-tools.com)

## Walter Malaysia Sdn. Bhd.

Selangor D.E., Malaysia  
+60 (3) 8023 7748, [service.my@walter-tools.com](mailto:service.my@walter-tools.com)

## Walter Japan K.K.

Nagoya, Japan  
+81 (52) 533 6135, [service.jp@walter-tools.com](mailto:service.jp@walter-tools.com)

## Walter USA, LLC

Waukesha WI, USA  
+1 800-945-5554, [service.us@walter-tools.com](mailto:service.us@walter-tools.com)

## Walter Canada

Mississauga, Canada  
[service.ca@walter-tools.com](mailto:service.ca@walter-tools.com)

---