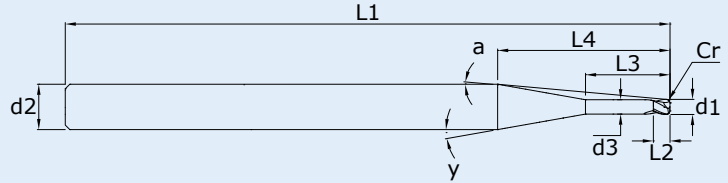
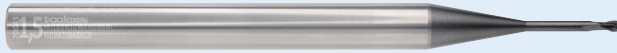


Solid carbide end mills with corner radius - Midi Long  
VHM - Schaftfräser mit Eckenradius - Midi Lang  
Fraises toriques carbure - Midi Longue  
Karbür Köşe Radyüslü Freze - Midi Uzun



| F        | E              | 0100     | K             | 2      | D          | 80          | A       | 20            | N      | 020          |
|----------|----------------|----------|---------------|--------|------------|-------------|---------|---------------|--------|--------------|
| END MILL | MG-10<br>MG-08 |          | TOOLEX        |        |            |             |         |               |        |              |
| TYPE     | QUALITY        | DIAMETER | CORNER RADIUS | FLUTES | SHAFT TYPE | FULL LENGTH | HELICAL | CORNER RADIUS | COATED | FLUTE LENGTH |

| d1(+0.003/-0.005) | L2  | L3   | L4    | d3   | L1 | d2(h6) | Z | y°     | a°    | Cr   | <52 HRC            | Price (Euro) | 52 - 68 HRC        | Price (Euro) |
|-------------------|-----|------|-------|------|----|--------|---|--------|-------|------|--------------------|--------------|--------------------|--------------|
| 0,5               | 0,8 | 1,0  | 23,65 | 0,48 | 80 | 6      | 2 | 7,00°  | 6,63° | 0,10 | FE0050K2D80A10N010 |              | FH0050K2D80A10N010 |              |
| 0,5               | 0,8 | 2,0  | 17,85 | 0,48 | 80 | 6      | 2 | 10,00° | 8,75° | 0,10 | FE0050K2D80A10N020 |              | FH0050K2D80A10N020 |              |
| 0,5               | 0,8 | 4,0  | 19,85 | 0,48 | 80 | 6      | 2 | 10,00° | 7,88° | 0,10 | FE0050K2D80A10N040 |              | FH0050K2D80A10N040 |              |
| 0,6               | 0,9 | 1,2  | 23,49 | 0,57 | 80 | 6      | 2 | 7,00°  | 6,55° | 0,10 | FE0060K2D80A10N012 |              | FH0060K2D80A10N012 |              |
| 0,6               | 0,9 | 2,0  | 17,62 | 0,57 | 80 | 6      | 2 | 10,00° | 8,71° | 0,10 | FE0060K2D80A10N020 |              | FH0060K2D80A10N020 |              |
| 0,6               | 0,9 | 4,0  | 19,62 | 0,57 | 80 | 6      | 2 | 10,00° | 7,83° | 0,10 | FE0060K2D80A10N040 |              | FH0060K2D80A10N040 |              |
| 0,7               | 1,1 | 1,4  | 23,34 | 0,67 | 80 | 6      | 2 | 7,00°  | 6,47° | 0,10 | FE0070K2D80A10N014 |              | FH0070K2D80A10N014 |              |
| 0,7               | 1,1 | 2,5  | 17,95 | 0,67 | 80 | 6      | 2 | 10,00° | 8,39° | 0,10 | FE0070K2D80A10N025 |              | FH0070K2D80A10N025 |              |
| 0,8               | 1,2 | 1,6  | 16,75 | 0,76 | 80 | 6      | 2 | 10,00° | 8,82° | 0,15 | FE0080K2D80A15N016 |              | FH0080K2D80A15N016 |              |
| 0,8               | 1,2 | 3,0  | 18,15 | 0,76 | 80 | 6      | 2 | 10,00° | 8,15° | 0,15 | FE0080K2D80A15N030 |              | FH0080K2D80A15N030 |              |
| 0,8               | 1,2 | 6,0  | 21,15 | 0,76 | 80 | 6      | 2 | 10,00° | 7,00° | 0,15 | FE0080K2D80A15N060 |              | FH0080K2D80A15N060 |              |
| 1,0               | 1,5 | 2,0  | 16,70 | 0,95 | 80 | 6      | 2 | 10,00° | 8,51° | 0,20 | FE0100K2D80A20N020 |              | FH0100K2D80A20N020 |              |
| 1,0               | 1,5 | 4,0  | 18,70 | 0,95 | 80 | 6      | 2 | 10,00° | 7,61° | 0,20 | FE0100K2D80A20N040 |              | FH0100K2D80A20N040 |              |
| 1,0               | 1,5 | 8,0  | 22,70 | 0,95 | 80 | 6      | 2 | 10,00° | 6,28° | 0,20 | FE0100K2D80A20N080 |              | FH0100K2D80A20N080 |              |
| 1,0               | 1,5 | 12,0 | 26,70 | 0,95 | 80 | 6      | 2 | 10,00° | 5,34° | 0,20 | FE0100K2D80A20N120 |              | FH0100K2D80A20N120 |              |
| 1,0               | 1,5 | 16,0 | 30,70 | 0,95 | 80 | 6      | 2 | 10,00° | 4,65° | 0,20 | FE0100K2D80A20N160 |              | FH0100K2D80A20N160 |              |
| 1,0               | 1,5 | 20,0 | 34,70 | 0,95 | 80 | 6      | 2 | 10,00° | 4,12° | 0,20 | FE0100K2D80A20N200 |              | FH0100K2D80A20N200 |              |
| 1,2               | 1,8 | 2,0  | 16,22 | 1,14 | 80 | 6      | 2 | 10,00° | 8,41° | 0,25 | FE0120K2D80A25N020 |              | FH0120K2D80A25N020 |              |
| 1,2               | 1,8 | 4,0  | 18,22 | 1,14 | 80 | 6      | 2 | 10,00° | 7,81° | 0,25 | FE0120K2D80A25N040 |              | FH0120K2D80A25N040 |              |
| 1,5               | 2,3 | 4,0  | 17,52 | 1,43 | 80 | 6      | 2 | 10,00° | 5,96° | 0,30 | FE0150K2D80A30N040 |              | FH0150K2D80A30N040 |              |
| 1,5               | 2,3 | 8,0  | 21,52 | 1,43 | 80 | 6      | 2 | 10,00° | 5,03° | 0,30 | FE0150K2D80A30N080 |              | FH0150K2D80A30N080 |              |
| 1,5               | 2,3 | 12,0 | 25,52 | 1,43 | 80 | 6      | 2 | 10,00° | 4,35° | 0,30 | FE0150K2D80A30N120 |              | FH0150K2D80A30N120 |              |
| 2,0               | 3,0 | 4,0  | 16,35 | 1,90 | 80 | 6      | 4 | 10,00° | 6,97° | 0,50 | FE0200K4D80A50N040 |              | FH0200K4D80A50N040 |              |
| 2,0               | 3,0 | 8,0  | 20,35 | 1,90 | 80 | 6      | 4 | 10,00° | 5,61° | 0,50 | FE0200K4D80A50N080 |              | FH0200K4D80A50N080 |              |
| 2,0               | 3,0 | 12,0 | 24,35 | 1,90 | 80 | 6      | 4 | 10,00° | 4,69° | 0,50 | FE0200K4D80A50N120 |              | FH0200K4D80A50N120 |              |
| 2,0               | 3,0 | 16,0 | 28,35 | 1,90 | 80 | 6      | 4 | 10,00° | 4,03° | 0,50 | FE0200K4D80A50N160 |              | FH0200K4D80A50N160 |              |
| 2,0               | 3,0 | 20,0 | 32,35 | 1,90 | 80 | 6      | 4 | 10,00° | 3,53° | 0,50 | FE0200K4D80A50N200 |              | FH0200K4D80A50N200 |              |
| 2,5               | 3,8 | 5,0  | 16,18 | 2,38 | 80 | 6      | 4 | 10,00° | 6,17° | 0,50 | FE0250K4D80A50N050 |              | FH0250K4D80A50N050 |              |
| 2,5               | 3,8 | 8,0  | 19,18 | 2,38 | 80 | 6      | 4 | 10,00° | 5,21° | 0,50 | FE0250K4D80A50N080 |              | FH0250K4D80A50N080 |              |
| 2,5               | 3,8 | 12,0 | 23,18 | 2,38 | 80 | 6      | 4 | 10,00° | 4,31° | 0,50 | FE0250K4D80A50N120 |              | FH0250K4D80A50N120 |              |
| 3,0               | 4,5 | 6,0  | 16,01 | 2,85 | 80 | 6      | 4 | 10,00° | 5,35° | 0,50 | FE0300K4D80A50N060 |              | FH0300K4D80A50N060 |              |
| 3,0               | 4,5 | 8,0  | 18,01 | 2,85 | 80 | 6      | 4 | 10,00° | 4,76° | 0,50 | FE0300K4D80A50N080 |              | FH0300K4D80A50N080 |              |
| 3,0               | 4,5 | 12,0 | 22,01 | 2,85 | 80 | 6      | 4 | 10,00° | 3,89° | 0,50 | FE0300K4D80A50N120 |              | FH0300K4D80A50N120 |              |
| 3,0               | 4,5 | 16,0 | 26,01 | 2,85 | 80 | 6      | 4 | 10,00° | 3,30° | 0,50 | FE0300K4D80A50N160 |              | FH0300K4D80A50N160 |              |
| 3,0               | 4,5 | 20,0 | 30,01 | 2,85 | 80 | 6      | 4 | 10,00° | 2,86° | 0,50 | FE0300K4D80A50N200 |              | FH0300K4D80A50N200 |              |
| 3,5               | 5,3 | 6,0  | 14,83 | 3,33 | 80 | 6      | 4 | 10,00° | 4,81° | 0,50 | FE0350K4D80A50N060 |              | FH0350K4D80A50N060 |              |
| 4,0               | 6,0 | 6,0  | 13,68 | 3,80 | 80 | 6      | 4 | 10,00° | 4,18° | 0,50 | FE0400K4D80A50N060 |              | FH0400K4D80A50N060 |              |
| 4,0               | 6,0 | 8,0  | 15,68 | 3,80 | 80 | 6      | 4 | 10,00° | 3,64° | 0,50 | FE0400K4D80A50N080 |              | FH0400K4D80A50N080 |              |
| 4,0               | 6,0 | 12,0 | 19,68 | 3,80 | 80 | 6      | 4 | 10,00° | 2,90° | 0,50 | FE0400K4D80A50N120 |              | FH0400K4D80A50N120 |              |
| 4,0               | 6,0 | 16,0 | 23,68 | 3,80 | 80 | 6      | 4 | 10,00° | 2,41° | 0,50 | FE0400K4D80A50N160 |              | FH0400K4D80A50N160 |              |
| 4,5               | 6,8 | 7,0  | 13,51 | 4,28 | 80 | 6      | 4 | 10,00° | 3,17° | 0,50 | FE0450K4D80A50N070 |              | FH0450K4D80A50N070 |              |
| 4,5               | 6,8 | 12,0 | 18,51 | 4,28 | 80 | 6      | 4 | 10,00° | 2,32° | 0,50 | FE0450K4D80A50N120 |              | FH0450K4D80A50N120 |              |
| 5,0               | 7,5 | 8,0  | 13,34 | 4,75 | 80 | 6      | 4 | 10,00° | 2,14° | 0,50 | FE0500K4D80A50N080 |              | FH0500K4D80A50N080 |              |
| 5,0               | 7,5 | 12,0 | 17,34 | 4,75 | 80 | 6      | 4 | 10,00° | 1,65° | 0,50 | FE0500K4D80A50N120 |              | FH0500K4D80A50N120 |              |
| 5,0               | 7,5 | 16,0 | 21,34 | 4,75 | 80 | 6      | 4 | 10,00° | 1,34° | 0,50 | FE0500K4D80A50N160 |              | FH0500K4D80A50N160 |              |
| 5,0               | 7,5 | 20,0 | 25,34 | 4,75 | 80 | 6      | 4 | 10,00° | 1,13° | 0,50 | FE0500K4D80A50N200 |              | FH0500K4D80A50N200 |              |

|--|--|