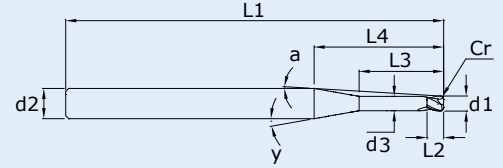


Solid carbide end mills with corner radius - Alu Mini  
VHM - Schaftfräser mit Eckenradius - Alu Mini  
Fraises toriques carbure - Alu Mini  
Karbür Köşe Radyüslü Freze - Alu Mini



| F        | G       | 0100     | K             | 2      | N          | 50          | A       | 20            | D      | 020          |
|----------|---------|----------|---------------|--------|------------|-------------|---------|---------------|--------|--------------|
| END MILL | MG-07   |          | 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   | Coated Code        | Price (Euro) |
|------------------|-----|------|-------|------|----|--------|---|--------|-------|------|--------------------|--------------|
| 0,5              | 0,8 | 1,0  | 15,55 | 0,48 | 50 | 4      | 2 | 7,00°  | 6,42° | 0,10 | FG0050K2N50A10D010 |              |
| 0,5              | 0,8 | 2,0  | 12,18 | 0,48 | 50 | 4      | 2 | 10,00° | 8,17° | 0,10 | FG0050K2N50A10D020 |              |
| 0,5              | 0,8 | 4,0  | 14,18 | 0,48 | 50 | 4      | 2 | 10,00° | 7,03° | 0,10 | FG0050K2N50A10D040 |              |
| 0,5              | 0,8 | 6,0  | 16,18 | 0,48 | 50 | 4      | 2 | 10,00° | 6,17° | 0,10 | FG0050K2N50A10D060 |              |
| 0,6              | 0,9 | 1,2  | 15,35 | 0,57 | 50 | 4      | 2 | 10,00° | 6,32° | 0,10 | FG0060K2N50A10D012 |              |
| 0,6              | 0,9 | 2,0  | 11,95 | 0,57 | 50 | 4      | 2 | 10,00° | 8,09° | 0,10 | FG0060K2N50A10D020 |              |
| 0,6              | 0,9 | 4,0  | 13,95 | 0,57 | 50 | 4      | 2 | 10,00° | 6,94° | 0,10 | FG0060K2N50A10D040 |              |
| 0,6              | 0,9 | 8,0  | 17,95 | 0,57 | 50 | 4      | 2 | 10,00° | 5,41° | 0,10 | FG0060K2N50A10D080 |              |
| 0,7              | 1,1 | 1,4  | 15,18 | 0,67 | 50 | 4      | 2 | 7,00°  | 6,20° | 0,10 | FG0070K2N50A10D014 |              |
| 0,7              | 1,1 | 2,5  | 12,21 | 0,67 | 50 | 4      | 2 | 10,00° | 7,69° | 0,10 | FG0070K2N50A10D025 |              |
| 0,7              | 1,1 | 5,0  | 14,71 | 0,67 | 50 | 4      | 2 | 10,00° | 6,40° | 0,10 | FG0070K2N50A10D050 |              |
| 0,7              | 1,1 | 8,0  | 17,71 | 0,67 | 50 | 4      | 2 | 10,00° | 5,32° | 0,10 | FG0070K2N50A10D080 |              |
| 0,8              | 1,2 | 1,6  | 11,10 | 0,76 | 50 | 4      | 2 | 10,00° | 8,20° | 0,15 | FG0080K2N50A15D016 |              |
| 0,8              | 1,2 | 3,0  | 12,50 | 0,76 | 50 | 4      | 2 | 10,00° | 7,29° | 0,15 | FG0080K2N50A15D030 |              |
| 0,8              | 1,2 | 6,0  | 15,50 | 0,76 | 50 | 4      | 2 | 10,00° | 5,89° | 0,15 | FG0080K2N50A15D060 |              |
| 0,8              | 1,2 | 10,0 | 19,50 | 0,76 | 50 | 4      | 2 | 10,00° | 4,69° | 0,15 | FG0080K2N50A15D100 |              |
| 1,0              | 1,5 | 2,0  | 11,01 | 0,95 | 50 | 4      | 2 | 10,00° | 7,75° | 0,20 | FG0100K2N50A20D020 |              |
| 1,0              | 1,5 | 4,0  | 13,01 | 0,95 | 50 | 4      | 2 | 10,00° | 6,57° | 0,20 | FG0100K2N50A20D040 |              |
| 1,0              | 1,5 | 8,0  | 17,01 | 0,95 | 50 | 4      | 2 | 10,00° | 5,03° | 0,20 | FG0100K2N50A20D080 |              |
| 1,0              | 1,5 | 12,0 | 21,01 | 0,95 | 50 | 4      | 2 | 10,00° | 4,08° | 0,20 | FG0100K2N50A20D120 |              |
| 1,0              | 1,5 | 16,0 | 25,01 | 0,95 | 50 | 4      | 2 | 10,00° | 3,43° | 0,20 | FG0100K2N50A20D160 |              |
| 1,0              | 1,5 | 20,0 | 29,01 | 0,95 | 50 | 4      | 2 | 10,00° | 2,96° | 0,20 | FG0100K2N50A20D200 |              |
| 1,2              | 1,8 | 2,0  | 10,54 | 1,14 | 50 | 4      | 2 | 10,00° | 7,56° | 0,25 | FG0120K2N50A25D020 |              |
| 1,2              | 1,8 | 4,0  | 12,54 | 1,14 | 50 | 4      | 2 | 10,00° | 6,37° | 0,25 | FG0120K2N50A25D040 |              |
| 1,5              | 2,3 | 4,0  | 11,85 | 1,43 | 50 | 4      | 2 | 10,00° | 6,02° | 0,30 | FG0150K2N50A30D040 |              |
| 1,5              | 2,3 | 8,0  | 15,85 | 1,43 | 50 | 4      | 2 | 10,00° | 4,50° | 0,30 | FG0150K2N50A30D080 |              |
| 1,5              | 2,3 | 12,0 | 19,85 | 1,43 | 50 | 4      | 2 | 10,00° | 3,60° | 0,30 | FG0150K2N50A30D120 |              |
| 1,5              | 2,3 | 20,0 | 27,85 | 1,43 | 50 | 4      | 2 | 10,00° | 2,57° | 0,30 | FG0150K2N50A30D200 |              |
| 2,0              | 3,0 | 4,0  | 10,68 | 1,90 | 50 | 4      | 2 | 10,00° | 5,35° | 0,50 | FG0200K2N50A50D040 |              |
| 2,0              | 3,0 | 8,0  | 14,68 | 1,90 | 50 | 4      | 2 | 10,00° | 3,09° | 0,50 | FG0200K2N50A50D080 |              |
| 2,0              | 3,0 | 12,0 | 18,68 | 1,90 | 50 | 4      | 2 | 10,00° | 3,06° | 0,50 | FG0200K2N50A50D120 |              |
| 2,0              | 3,0 | 16,0 | 22,68 | 1,90 | 50 | 4      | 2 | 10,00° | 2,52° | 0,50 | FG0200K2N50A50D160 |              |
| 2,0              | 3,0 | 20,0 | 26,68 | 1,90 | 50 | 4      | 2 | 10,00° | 2,14° | 0,50 | FG0200K2N50A50D200 |              |
| 2,5              | 3,8 | 5,0  | 10,51 | 2,38 | 50 | 4      | 2 | 10,00° | 4,08° | 0,50 | FG0250K2N50A50D050 |              |
| 2,5              | 3,8 | 8,0  | 13,51 | 2,38 | 50 | 4      | 2 | 10,00° | 3,17° | 0,50 | FG0250K2N50A50D080 |              |
| 2,5              | 3,8 | 12,0 | 17,51 | 2,38 | 50 | 4      | 2 | 10,00° | 2,45° | 0,50 | FG0250K2N50A50D120 |              |
| 2,5              | 3,8 | 16,0 | 21,51 | 2,38 | 50 | 4      | 2 | 10,00° | 1,99° | 0,50 | FG0250K2N50A50D160 |              |
| 2,5              | 3,8 | 20,0 | 25,51 | 2,38 | 50 | 4      | 2 | 10,00° | 1,68° | 0,50 | FG0250K2N50A50D200 |              |
| 3,0              | 4,5 | 6,0  | 10,34 | 2,85 | 50 | 4      | 2 | 10,00° | 2,76° | 0,50 | FG0300K2N50A50D060 |              |
| 3,0              | 4,5 | 8,0  | 12,34 | 2,85 | 50 | 4      | 2 | 10,00° | 2,32° | 0,50 | FG0300K2N50A50D080 |              |
| 3,0              | 4,5 | 12,0 | 16,34 | 2,85 | 50 | 4      | 2 | 10,00° | 1,75° | 0,50 | FG0300K2N50A50D120 |              |
| 3,0              | 4,5 | 16,0 | 20,34 | 2,85 | 50 | 4      | 2 | 10,00° | 1,40° | 0,50 | FG0300K2N50A50D160 |              |
| 3,0              | 4,5 | 20,0 | 24,34 | 2,85 | 50 | 4      | 2 | 10,00° | 1,17° | 0,50 | FG0300K2N50A50D200 |              |

| d1  | ap   | ae   | fz    | n     | Vf   | fz    | n     | Vf   | fz    | n     | Vf   |
|-----|------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| 0,5 | 0,05 | 0,05 | 0,008 | 60000 | 960  | 0,010 | 60000 | 1200 | 0,005 | 60000 | 600  |
| 1,0 | 0,10 | 0,10 | 0,014 | 60000 | 1680 | 0,013 | 60000 | 1560 | 0,010 | 60000 | 1200 |
| 1,5 | 0,15 | 0,15 | 0,020 | 60000 | 2400 | 0,016 | 49000 | 1568 | 0,015 | 60000 | 1800 |
| 2,0 | 0,20 | 0,20 | 0,026 | 60000 | 3120 | 0,022 | 36800 | 1619 | 0,020 | 60000 | 2400 |
| 2,5 | 0,25 | 0,25 | 0,032 | 58800 | 3763 | 0,032 | 29400 | 1881 | 0,025 | 60000 | 3000 |
| 3,0 | 0,30 | 0,30 | 0,038 | 49000 | 3724 | 0,044 | 24500 | 2156 | 0,030 | 53300 | 3198 |