

MICRO-FRAISE-HEMISPHERIQUE Z2 · HEMISPHERICAL-MICRO-ENDMILL Z2 · HEMISPHERISCHE-MIKROFRÄSER Z2



SWISS MADE

28082A-1.5 Version 11.09.2026

E2

SUBMICRON GRAIN GRADE  
HIGH-SPEED MACHINING  
OF ABRASIVE MATERIALS

$\lambda = 30^\circ$   
 $\gamma = 10^\circ$

HELIX ANGLE 30° AND  
CUTTING ANGLE 10°

POINTED TIP

SIDE AND CENTER CUT

$l_1$   
1.5xD

CUTTING EDGE LENGTH  
1.5xD

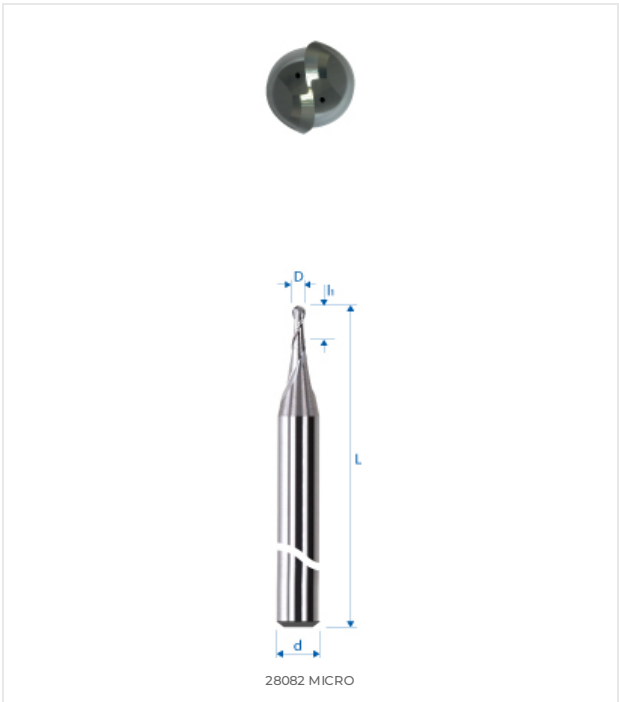
FITTING LENGTH LONG

MATERIAL COMPATIBILITY

●●● Excellent (3/3) ●●○ Good (2/3) ●○○ Possible (1/3) ○○○ Not recommended

| Product material compatibility |                          |                    |     |            |
|--------------------------------|--------------------------|--------------------|-----|------------|
| CATEGORY                       | MATERIAL                 | SPECIFICATION      | GRP | 28082A-1.5 |
| Alloyed and non-alloyed steels | Non-alloyed steels       | Rm < 450 N/mm²     | 1a  | ●●● 3/3    |
|                                |                          | Rm 450–700 N/mm²   | 1b  | ●●● 3/3    |
|                                |                          | Rm 700–900 N/mm²   | 1c  | ●●● 3/3    |
|                                |                          | Rm > 1200 N/mm²    | 1d  | ●●● 3/3    |
| Stainless steels               | Stainless steels         | Rm < 650 N/mm²     | 2a  | ●●● 3/3    |
|                                |                          | Rm 650–950 N/mm²   | 2b  | ●●● 3/3    |
|                                |                          | Rm > 950 N/mm²     | 2c  | ●●● 3/3    |
| Hardened steels                | Hardened steels          | 44–56 HRC          | 3a  | ●●○ 2/3    |
|                                |                          | 57–67 HRC          | 3b  | ●○○ 1/3    |
| Exotic materials               | Special alloys           | < 32 HRC           | 4a  | ●●● 3/3    |
|                                |                          | > 32 HRC           | 4b  | ●●○ 2/3    |
| Graphite                       | Industrial graphite      |                    | 5   | ●●○ 2/3    |
| Cast iron                      | Grey / nodular cast iron | < 32 HRC           | 6a  | ●●● 3/3    |
|                                |                          | > 32 HRC           | 6b  | ●●● 3/3    |
| Titanium                       | Titanium alloys          | Rm < 600 N/mm²     | 7a  | ●●● 3/3    |
|                                |                          | 600 < Rm N/mm²     | 7b  | ●●● 3/3    |
| Nickel alloys                  | Inconel, Hastelloy       | Rm < 1000 N/mm²    | 8a  | ●●○ 2/3    |
|                                |                          | Rm > 1000 N/mm²    | 8b  | ●●○ 2/3    |
| Copper, brass, bronze          | Copper-based             | Rm < 850 N/mm²     | 9a  | ●●● 3/3    |
|                                |                          | Rm > 850 N/mm²     | 9b  | ●●● 3/3    |
| Aluminum                       | Aluminum alloys          | Si < 0.5%          | 10a | ●●● 3/3    |
|                                |                          | 0.5% < Si < 5%     | 10b | ●●● 3/3    |
|                                |                          | Si > 5%            | 10c | ●●● 3/3    |
| Synthetic materials            | Engineering plastics     | Thermoplastic      | 11a | ●○○ 1/3    |
|                                |                          | Thermoset          | 11b | ●○○ 1/3    |
| Composite materials            | Reinforced composites    | Glass fiber / GFK  | 12a | ●●● 3/3    |
|                                |                          | Carbon fiber / KFK | 12b | ●●● 3/3    |
| Precious metals                | Gold, platinum, silver   | Gold               | 13a | ●●● 3/3    |
|                                |                          | Platinum           | 13b | ●●○ 2/3    |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS |         |
|--------------------|---------|
| D (0 / -0.01)      | 1.5 mm  |
| d (h5)             | 3 mm    |
| L                  | 38 mm   |
| l1                 | 2.25 mm |
| l3                 | –       |
| d3                 | –       |
| R                  | 0.75 mm |
| e                  | –       |
| Z                  | 2       |
| Chamfer K          | –       |
| w° collision angle | 8.1°    |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/28082A-1.5