

MICRO-FRAISE Z3 · MICRO-ENDMILL Z3 · MICRO-FRÄSER Z3



23202-0.5 Version 10.09.2026



E25  
UF

ULTRAFINE GRADE  
HIGH-END GRADE  
WITH VERY HIGH  
HARDNESS AND  
TOUGHNESS FOR  
MICRO-MACHINING

$\lambda=35^{\circ}\text{--}38^{\circ}$   
 $\gamma=10^{\circ}$

VARIABLE HELIX  
ANGLES  $35^{\circ}$  -  $38^{\circ}$   
AND CUTTING  
ANGLE  $10^{\circ}$

angle  
vif

SHARP EDGE

SIDE AND CENTER  
CUT

$l_h$   
 $2.2 \times D$

CUTTING EDGE  
LENGTH  $2.2 \times D$

FITTING LENGTH  
STANDARD

IRREGULAR  
TOOTHING

$\lambda_2$   
 $\lambda_1$

VARIABLE HELIX  
ANGLES

MATERIAL COMPATIBILITY

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

| Product material compatibility |                          |                              |     |           |
|--------------------------------|--------------------------|------------------------------|-----|-----------|
| CATEGORY                       | MATERIAL                 | SPECIFICATION                | GRP | 23202-0.5 |
| Alloyed and non-alloyed steels | Non-alloyed steels       | Rm < 450 N/mm <sup>2</sup>   | 1a  | ●○○ 1/3   |
|                                |                          | Rm 450–700 N/mm <sup>2</sup> | 1b  | ○○○ 0/3   |
|                                |                          | Rm 700–900 N/mm <sup>2</sup> | 1c  | ○○○ 0/3   |
|                                |                          | Rm > 1200 N/mm <sup>2</sup>  | 1d  | ○○○ 0/3   |
| Stainless steels               | Stainless steels         | Rm < 650 N/mm <sup>2</sup>   | 2a  | ○○○ 0/3   |
|                                |                          | Rm 650–950 N/mm <sup>2</sup> | 2b  | ○○○ 0/3   |
|                                |                          | Rm > 950 N/mm <sup>2</sup>   | 2c  | ○○○ 0/3   |
| Hardened steels                | Hardened steels          | 44–56 HRC                    | 3a  | ○○○ 0/3   |
|                                |                          | 57–67 HRC                    | 3b  | ○○○ 0/3   |
| Exotic materials               | Special alloys           | < 32 HRC                     | 4a  | ●○○ 1/3   |
|                                |                          | > 32 HRC                     | 4b  | ●○○ 1/3   |
| Graphite                       | Industrial graphite      |                              | 5   | ●○○ 1/3   |
| Cast iron                      | Grey / nodular cast iron | < 32 HRC                     | 6a  | ○○○ 0/3   |
|                                |                          | > 32 HRC                     | 6b  | ○○○ 0/3   |
| Titanium                       | Titanium alloys          | Rm < 600 N/mm <sup>2</sup>   | 7a  | ●○○ 1/3   |
|                                |                          | 600 < Rm N/mm <sup>2</sup>   | 7b  | ●○○ 1/3   |
| Nickel alloys                  | Inconel, Hastelloy       | Rm < 1000 N/mm <sup>2</sup>  | 8a  | ○○○ 0/3   |
|                                |                          | Rm > 1000 N/mm <sup>2</sup>  | 8b  | ○○○ 0/3   |
| Copper, brass, bronze          | Copper-based             | Rm < 850 N/mm <sup>2</sup>   | 9a  | ●●● 3/3   |
|                                |                          | Rm > 850 N/mm <sup>2</sup>   | 9b  | ●●● 3/3   |
| Aluminum                       | Aluminum alloys          | Si < 0.5%                    | 10a | ●●○ 2/3   |
|                                |                          | 0.5% < Si < 5%               | 10b | ●●○ 2/3   |
|                                |                          | Si > 5%                      | 10c | ●○○ 1/3   |
| Synthetic materials            | Engineering plastics     | Thermoplastic                | 11a | ●●● 3/3   |
|                                |                          | Thermoset                    | 11b | ●●○ 2/3   |
| Composite materials            | Reinforced composites    | Glass fiber / GFK            | 12a | ●○○ 1/3   |
|                                |                          | Carbon fiber / KFK           | 12b | ●○○ 1/3   |
| Precious metals                | Gold, platinum, silver   | Gold                         | 13a | ●●○ 2/3   |
|                                |                          | Platinum                     | 13b | ○○○ 0/3   |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS |        |
|--------------------|--------|
| D (0 / -0.01)      | 0.5 mm |
| d (h5)             | 3 mm   |
| L                  | 28 mm  |
| l1                 | 1.1 mm |
| l3                 | –      |
| d3                 | –      |
| R                  | –      |
| e                  | –      |
| Z                  | 3      |
| Chamfer K          | –      |
| w° collision angle | 11.1°  |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/23202-0.5

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