

# FRAISE-HÉMISPHERIQUE Z2 · BALL-NOSE-ENDMILL Z2 · HALBRUND-FRÄSER Z2



22412A-8

Version 21.06.2026

SWISS MADE

E2

E2 HIGH PRECISION  
TOOL MATERIAL

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

CUTTING ANGLES  $\lambda$  35-  
38°  $\gamma$  10°



HEMISPHERICAL U-  
GROOVE TOOL



DUAL DIRECTION  
HELICAL DRILL BIT

$l_1$   
2.2xD

2.2XD DEPTH FOR  
TOOLS



STANDARD TOOL WEAR  
INDICATOR

## MATERIAL COMPATIBILITY

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

| MATERIAL  | SPECIFICATION                | GRP | 22412A-8 |
|---|------------------------------|-----|----------|
| <b>Alloyed and non-alloyed steels</b><br>Non-alloyed steels | Rm < 450 N/mm <sup>2</sup>   | 1a  | ●●●      |
|   | Rm 450–700 N/mm <sup>2</sup> | 1b  | ●●●      |
|   | Rm 700–900 N/mm <sup>2</sup> | 1c  | ●●●      |
|   | Rm > 1200 N/mm <sup>2</sup>  | 1d  | ●●●      |
| <b>Stainless steels</b><br>Stainless steels                 | Rm < 650 N/mm <sup>2</sup>   | 2a  | ●●●      |
|   | Rm 650–950 N/mm <sup>2</sup> | 2b  | ●●●      |
|   | Rm > 950 N/mm <sup>2</sup>   | 2c  | ●●●      |
| <b>Hardened steels</b><br>Hardened steels                   | 44–56 HRC                    | 3a  | ●●○      |
|   | 57–67 HRC                    | 3b  | ●●○      |
| <b>Exotic materials</b><br>Special alloys                   | < 32 HRC                     | 4a  | ●●○      |
|   | > 32 HRC                     | 4b  | ●●○      |
| <b>Graphite</b><br>Industrial graphite                      |                              | 5   | ●●○      |
| <b>Cast iron</b><br>Grey / nodular cast iron                | < 32 HRC                     | 6a  | ●●○      |
|   | > 32 HRC                     | 6b  | ●●○      |
| <b>Titanium</b><br>Titanium alloys                          | Rm < 600 N/mm <sup>2</sup>   | 7a  | ●●●      |
|   | 600 < Rm N/mm <sup>2</sup>   | 7b  | ●●●      |
| <b>Nickel alloys</b><br>Inconel, Hastelloy                  | Rm < 1000 N/mm <sup>2</sup>  | 8a  | ●●○      |
|   | Rm > 1000 N/mm <sup>2</sup>  | 8b  | ●●○      |
| <b>Copper, brass, bronze</b><br>Copper-based                | Rm < 850 N/mm <sup>2</sup>   | 9a  | ●●○      |
|   | Rm > 850 N/mm <sup>2</sup>   | 9b  | ●●○      |
| <b>Aluminum</b><br>Aluminum alloys                          | Si < 0.5%                    | 10a | ●●○      |
|   | 0.5% < Si < 5%               | 10b | ●○○      |
|   | Si > 5%                      | 10c | ●○○      |
| <b>Synthetic materials</b><br>Engineering plastics          | Thermoplastic                | 11a | ●○○      |
|   | Thermoset                    | 11b | ●○○      |
| <b>Composite materials</b><br>Reinforced composites         | Glass fiber / GFK            | 12a | ●●○      |
|   | Carbon fiber / KFK           | 12b | ●●○      |
| <b>Precious metals</b><br>Gold, platinum, silver            | Gold                         | 13a | ●●○      |
|   | Platinum                     | 13b | ●●○      |

## TECHNICAL DRAWING



## DIMENSIONS

| NOMINAL DIMENSIONS |       |
|--------------------|-------|
| D (0 / -0.01)      | 8 mm  |
| d (h5)             | 8 mm  |
| L                  | 63 mm |
| l1                 | 19 mm |
| l3                 | –     |
| d3                 | –     |
| R                  | 4 mm  |
| e                  | –     |
| Z                  | 2     |
| Chamfer K          | –     |
| w° collision       | –     |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/22412A-8

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