

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



21082A-3.0

Version 07.05.2026

SWISS MADE

E25
UF

CARBIDE TOOL
MATERIAL E25 UF

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

CUTTING ANGLES $\lambda 30^\circ$?
 $\gamma 10^\circ$



V-GROOVE CHAMFER
TOOL SHAPE



DUAL DIRECTION
HELICAL DRILL BIT

l3
8xD

8XD LENGTH L3
CUTTING TOOL



TOOL LENGTH
MEASUREMENT BARS

MATERIAL COMPATIBILITY

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

| MATERIAL | SPECIFICATION | GRP | 21082A-3.0 |
|---|------------------------------|-----|------------|
| Alloyed and non-alloyed steels Non-alloyed steels | Rm < 450 N/mm ² | 1a | ●●● |
| | Rm 450–700 N/mm ² | 1b | ●●● |
| | Rm 700–900 N/mm ² | 1c | ●●● |
| | Rm > 1200 N/mm ² | 1d | ●●● |
| Stainless steels Stainless steels | Rm < 650 N/mm ² | 2a | ●●● |
| | Rm 650–950 N/mm ² | 2b | ●●● |
| | Rm > 950 N/mm ² | 2c | ●●● |
| Hardened steels Hardened steels | 44–56 HRC | 3a | ●●○ |
| | 57–67 HRC | 3b | ●○○ |
| Exotic materials Special alloys | < 32 HRC | 4a | ●●○ |
| | > 32 HRC | 4b | ●○○ |
| Graphite Industrial graphite | | 5 | ●●○ |
| Cast iron Grey / nodular cast iron | < 32 HRC | 6a | ●●○ |
| | > 32 HRC | 6b | ●●○ |
| Titanium Titanium alloys | Rm < 600 N/mm ² | 7a | ●●● |
| | 600 < Rm N/mm ² | 7b | ●●● |
| Nickel alloys Inconel, Hastelloy | Rm < 1000 N/mm ² | 8a | ●●○ |
| | Rm > 1000 N/mm ² | 8b | ●●○ |
| Copper, brass, bronze Copper-based | Rm < 850 N/mm ² | 9a | ●○○ |
| | Rm > 850 N/mm ² | 9b | ●○○ |
| Aluminum Aluminum alloys | Si < 0.5% | 10a | ●○○ |
| | 0.5% < Si < 5% | 10b | ●○○ |
| | Si > 5% | 10c | ●○○ |
| Synthetic materials Engineering plastics | Thermoplastic | 11a | ○○○ |
| | Thermoset | 11b | ○○○ |
| Composite materials Reinforced composites | Glass fiber / GFK | 12a | ●●○ |
| | Carbon fiber / KFK | 12b | ●●○ |
| Precious metals Gold, platinum, silver | Gold | 13a | ●●○ |
| | Platinum | 13b | ●○○ |

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS

| | |
|---------------|--------|
| D (0 / -0.01) | 3 mm |
| d (h5) | 3 mm |
| L | 38 mm |
| l1 | 8 mm |
| l3 | – |
| d3 | – |
| R | 1.5 mm |
| e | – |
| Z | 2 |
| Chamfer K | – |
| w° collision | – |



E-SHOP / EZI CUT
eskenazi.ch/eshop/21082A-3.0

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