

FRAISE-HÉMISPHERIQUE Z4 · BALL-NOSE-ENDMILL Z4 · HALBRUND-FRÄSER Z4



22402-10

Version 07.05.2026

SWISS MADE

| | | | | | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------|-----------------------------------------|----------------------------------|
| E2 E2 HIGH PRECISION TOOL MATERIAL | $\lambda=35^{\circ}\text{-}38^{\circ}$ $\gamma=10^{\circ}$ CUTTING ANGLES $\lambda=35^{\circ}\text{-}38^{\circ}$ $\gamma=10^{\circ}$ | HEMISPHERICAL U-GROOVE TOOL | DUAL DIRECTION HELICAL DRILL BIT | h_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 | 22402-10 |
|-------------------------------------------------------------|------------------------------|-----|----------|
| 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) | 10 mm |
| d (h5) | 10 mm |
| L | 72 mm |
| l1 | 22 mm |
| l3 | – |
| d3 | – |
| R | 5 mm |
| e | – |
| Z | 4 |
| Chamfer K | – |
| w° collision | – |



E-SHOP / EZI CUT
eskenazi.ch/eshop/22402-10

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