

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



21402-4

Version 21.06.2026

SWISS MADE

E2

E2 HIGH PRECISION TOOL MATERIAL

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

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



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	21402-4
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)	4 mm
d (h5)	4 mm
L	50 mm
l1	11 mm
l3	–
d3	–
R	2 mm
e	–
Z	4
Chamfer K	–
w° collision	–



E-SHOP / EZI CUT
eskenazi.ch/eshop/21402-4

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