

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



21416-10

Version 21.06.2026

SWISS MADE

E2 E2 HIGH PRECISION TOOL MATERIAL	$\lambda = 40^\circ$ $Y = 20^\circ$ CUTTING ANGLES ? 40° ?20°	 HEMISPHERICAL U-GROOVE TOOL	 DUAL DIRECTION HELICAL DRILL BIT	l_1 2.2xD 2.2xD DEPTH FOR TOOLS	l_3 THREE-POINT CONTACT TOOL	 STANDARD TOOL WEAR INDICATOR
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MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21416-10
Alloyed and non-alloyed steels <small>Non-alloyed steels</small>	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 <small>Stainless steels</small>	Rm < 650 N/mm ²	2a	○○○
	Rm 650-950 N/mm ²	2b	○○○
	Rm > 950 N/mm ²	2c	○○○
Hardened steels <small>Hardened steels</small>	44-56 HRC	3a	○○○
	57-67 HRC	3b	○○○
Exotic materials <small>Special alloys</small>	< 32 HRC	4a	○○○
	> 32 HRC	4b	○○○
Graphite <small>Industrial graphite</small>		5	●○○
Cast iron <small>Grey / nodular cast iron</small>	< 32 HRC	6a	○○○
	> 32 HRC	6b	○○○
Titanium <small>Titanium alloys</small>	Rm < 600 N/mm ²	7a	●○○
	600 < Rm N/mm ²	7b	●○○
Nickel alloys <small>Inconel, Hastelloy</small>	Rm < 1000 N/mm ²	8a	○○○
	Rm > 1000 N/mm ²	8b	○○○
Copper, brass, bronze <small>Copper-based</small>	Rm < 850 N/mm ²	9a	●●●
	Rm > 850 N/mm ²	9b	●●●
Aluminum <small>Aluminum alloys</small>	Si < 0.5%	10a	●●●
	0.5% < Si < 5%	10b	●●●
	Si > 5%	10c	○○○
Synthetic materials <small>Engineering plastics</small>	Thermoplastic	11a	●●●
	Thermoset	11b	●●●
Composite materials <small>Reinforced composites</small>	Glass fiber / GFK	12a	●○○
	Carbon fiber / KFK	12b	●○○
Precious metals <small>Gold, platinum, silver</small>	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	31 mm
d3	-
R	5 mm
e	-
Z	2
Chamfer K	-
w° collision	-



E-SHOP / EZI CUT
eskenazi.ch/eshop/21416-10