

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



21412-4

Version 21.06.2026

SWISS MADE

E2 E2 HIGH PRECISION TOOL MATERIAL	$\lambda=35^{\circ}\text{-}38^{\circ}$ $\gamma=10^{\circ}$ CUTTING ANGLES λ 35-38° γ 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	21412-4
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	2
Chamfer K	-
w° collision	-



E-SHOP / EZI CUT
eskenazi.ch/eshop/21412-4

© 2026 Eskenazi SA — Carouge, Genève
All rights reserved