

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



21412A-4

Version 06.05.2026

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	21412A-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/21412A-4

© 2026 Eskenazi SA — Carouge, Genève
All rights reserved