

FRAISE-HÉMISPHERIQUE Z3 · BALL-NOSE-ENDMILL Z3 · HALBRUND-FRÄSER Z3



21422A-12

Version 07.05.2026

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	21422A-12
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)	12 mm
d (h5)	12 mm
L	83 mm
l1	26 mm
l3	–
d3	–
R	6 mm
e	–
Z	3
Chamfer K	–
w° collision	–



E-SHOP / EZI CUT
eskenazi.ch/eshop/21422A-12

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