FRAISE HÉMISPHÉRIQUE **Z4** MD E2 · BALL NOSE ENDMILL **Z4** SC E2 · HALBRUND-FRÄSER **Z4** HM E2

22402-12 Version 04.11.2026

SWISS MADE

E2	λ =35° Y =10°			l1 2.2xD	
SUBMICRON GRAIN GRADE HIGH-SPEED MACHINING OF ABRASIVE MATERIALS	VARIABLE HELIX ANGLES 35° AND CUTTING ANGLE 10°	HEMISPHERICAL SHAPE	SIDE AND CENTER CUT	CUTTING EDGE LENGTH 2.2XD	FITTING LENGTH STANDARD

MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	22402-12
	Alloyed and non-alloyed steels Non-alloyed steels	Rm < 450 N/mm²	1a	●○○ 1/3
		Rm 450–700 N/mm²	1b	○○○ 0/3
		Rm 700–900 N/mm²	1c	○○○ 0/3
		Rm > 1200 N/mm²	1d	○○○ 0/3
	Stainless steels Stainless steels	Rm < 650 N/mm²	2a	○○○ 0/3
		Rm 650–950 N/mm²	2b	○○○ 0/3
		Rm > 950 N/mm²	2c	○○○ 0/3
	Hardened steels Hardened steels	44–56 HRC	3a	○○○ 0/3
		57–67 HRC	3b	○○○ 0/3
	Exotic materials Special alloys	< 32 HRC	4a	○○○ 0/3
		> 32 HRC	4b	○○○ 0/3
	Graphite Industrial graphite		5	●○○ 1/3
	Cast iron Grey / nodular cast iron	< 32 HRC	6a	○○○ 0/3
		> 32 HRC	6b	○○○ 0/3
	Titanium Titanium alloys	Rm < 600 N/mm²	7a	●○○ 1/3
		600 < Rm N/mm²	7b	●○○ 1/3
	Nickel alloys Inconel, Hastelloy	Rm < 1000 N/mm²	8a	○○○ 0/3
		Rm > 1000 N/mm²	8b	○○○ 0/3
	Copper, brass, bronze Copper-based	Rm < 850 N/mm²	9a	●●● 3/3
		Rm > 850 N/mm²	9b	●●● 3/3
	Aluminum Aluminum alloys	Si < 0.5%	10a	●●● 3/3
		0.5% < Si < 5%	10b	●●● 3/3
		Si > 5%	10c	○○○ 0/3
	Synthetic materials Engineering plastics	Thermoplastic	11a	●●○ 2/3
		Thermoset	11b	●●○ 2/3
	Composite materials Reinforced composites	Glass fiber / GFK	12a	●○○ 1/3
		Carbon fiber / KFK	12b	●○○ 1/3
	Precious metals Gold, platinum, silver	Gold	13a	●●○ 2/3
		Platinum	13b	○○○ 0/3

TECHNICAL DRAWING



21402

DIMENSIONS

NOMINAL DIMENSIONS	
D (h10)	12 mm
d (h6)	12 mm
L	83 mm
l1	26 mm
l3	–
d3	–
R	6 mm
e	–
Z	4
Chamfer K	-
w° collision angle	-

E-SHOP / EZI CUT
eskenazi.ch/eshop/22402-12

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