

MICRO-FRAISE-HEMISPHERIQUE Z4 · HEMISPHERICAL-MICRO-ENDMILL-HEMISPHERICAL Z4 · MIKROFRÄSER-HEMISPHERISCH Z4



SWISS MADE

28402A-3.0

Version 07.05.2026

E2 E2 HIGH PRECISION TOOL MATERIAL	$\lambda = 35^\circ$ $\gamma = 10^\circ$ CUTTING ANGLES $\gamma 35^\circ \gamma 10^\circ$	 HEMISPHERICAL U-GROOVE TOOL	 DUAL DIRECTION HELICAL DRILL BIT	h_1 1.5xD 1.5XD DEPTH PRECISION TOOL	 STANDARD TOOL WEAR INDICATOR
--	---	---------------------------------	--------------------------------------	--	----------------------------------

MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	28402A-3.0
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)	3 mm
d (h5)	3 mm
L	38 mm
l1	4.5 mm
l3	-
d3	-
R	1.5 mm
e	-
Z	4
Chamfer K	-
w° collision	-



E-SHOP / EZI CUT
eskenazi.ch/eshop/28402A-3.0