FRAISE **Z3** POUR ALLIAGES RM<1000 AVEC ARROSAGE CENTRAL · ENDMILL **Z3** FOR ALLOYS RM < 1000 WITH INTERNAL COOLING · FRÄSER **Z3** FÜR RM<1000-LEGIERUNGEN MIT INNENKÜHLUNG

TAKE IT EZI

SWISS MADE

28139A-1 Version 04.11.2026

E2	λ = 48° Y = 0°	0.05-0.15 45°		l_1 1.5xD	l_3		
SUBMICRON GRAIN GRADE HIGH-SPEED MACHINING OF ABRASIVE MATERIALS	HELIX ANGLE 48° AND CUTTING ANGLE 0°	CHAMFER AT 45° / HEIGHT 0.05 TO 0.15 MM	SIDE AND CENTER CUT	CUTTING EDGE LENGTH 1.5XD	CUTTING LENGTH	FITTING LENGTH STANDARD	IRREGULAR TOOTHING

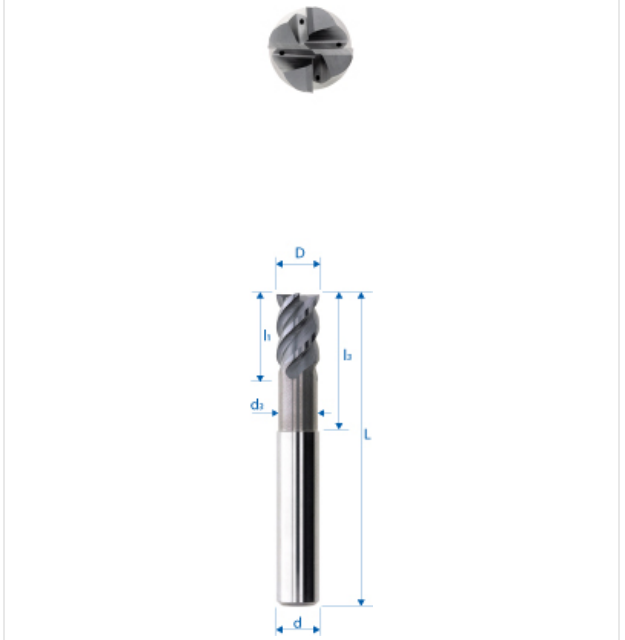
MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	28139A-1
	Alloyed and non-alloyed steels Non-alloyed steels	Rm < 450 N/mm²	1a	●●● 3/3
		Rm 450–700 N/mm²	1b	●●● 3/3
		Rm 700–900 N/mm²	1c	●●● 3/3
		Rm > 1200 N/mm²	1d	●●○ 2/3
	Stainless steels Stainless steels	Rm < 650 N/mm²	2a	●●● 3/3
		Rm 650–950 N/mm²	2b	●●● 3/3
		Rm > 950 N/mm²	2c	●●● 3/3
	Hardened steels Hardened steels	44–56 HRC	3a	●●○ 2/3
		57–67 HRC	3b	●○○ 1/3
	Exotic materials Special alloys	< 32 HRC	4a	●●● 3/3
		> 32 HRC	4b	●●● 3/3
	Graphite Industrial graphite		5	○○○ 0/3
	Cast iron Grey / nodular cast iron	< 32 HRC	6a	●●● 3/3
		> 32 HRC	6b	●●● 3/3
	Titanium Titanium alloys	Rm < 600 N/mm²	7a	●●● 3/3
		600 < Rm N/mm²	7b	●●● 3/3
	Nickel alloys Inconel, Hastelloy	Rm < 1000 N/mm²	8a	●●● 3/3
		Rm > 1000 N/mm²	8b	●●● 3/3
	Copper, brass, bronze Copper-based	Rm < 850 N/mm²	9a	○○○ 0/3
		Rm > 850 N/mm²	9b	○○○ 0/3
	Aluminum Aluminum alloys	Si < 0.5%	10a	○○○ 0/3
		0.5% < Si < 5%	10b	○○○ 0/3
		Si > 5%	10c	○○○ 0/3
	Synthetic materials Engineering plastics	Thermoplastic	11a	○○○ 0/3
		Thermoset	11b	○○○ 0/3
	Composite materials Reinforced composites	Glass fiber / GFK	12a	○○○ 0/3
		Carbon fiber / KFK	12b	○○○ 0/3
	Precious metals Gold, platinum, silver	Gold	13a	○○○ 0/3
		Platinum	13b	●●○ 2/3

TECHNICAL DRAWING



28139 MICRO

DIMENSIONS

NOMINAL DIMENSIONS	
D (0/- 0.01)	1 mm
d (h6)	3 mm
L	38 mm
l1	1.5 mm
l3	3 mm
d3	–
R	–
e	–
Z	3
Chamfer K	0.1
w° collision angle	8.1°

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