

# FRAISE-TORIQUE-MD-E2+-EZI-ALPHA+L3-POUR-MATÉRIAUX-DIFFICILES · TORIC-ENDMILL-SC-E2+-EZI-ALPHA-FOR-DIFFICULT-MATERIALS · TORISCHE-FRÄSER-HM-E2+-EZI-ALPHA-FÜR-HARTE-WERKSTOFFE



21173A-8-R1 Version 06.05.2026

<b>E2</b> E2 HIGH PRECISION TOOL MATERIAL	$\lambda = 50^\circ$ $\gamma = -12^\circ$ CUTTING ANGLES $75^\circ$ $7$ - $12^\circ$	U-SHAPED GROOVE TOOL PROFILE	DUAL DIRECTION HELICAL DRILL BIT	$l_1$ 1.5xD 1.5XD DEPTH PRECISION TOOL	$l_3$ THREE-POINT CONTACT TOOL	STANDARD TOOL WEAR INDICATOR	ADJUSTABLE ANGLE ICON
--	---	------------------------------	----------------------------------	--	-----------------------------------	------------------------------	-----------------------

## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21173A-8-R1
<b>Alloyed and non-alloyed steels</b> <small>Non-alloyed steels</small>	Rm < 450 N/mm <sup>2</sup>	1a	●○●
	Rm 450–700 N/mm <sup>2</sup>	1b	●○●
	Rm 700–900 N/mm <sup>2</sup>	1c	●○●
	Rm > 1200 N/mm <sup>2</sup>	1d	●●●
<b>Stainless steels</b> <small>Stainless steels</small>	Rm < 650 N/mm <sup>2</sup>	2a	●○●
	Rm 650–950 N/mm <sup>2</sup>	2b	●○●
	Rm > 950 N/mm <sup>2</sup>	2c	●●○
<b>Hardened steels</b> <small>Hardened steels</small>	44–56 HRC	3a	●●●
	57–67 HRC	3b	●●○
<b>Exotic materials</b> <small>Special alloys</small>	< 32 HRC	4a	●●●
	> 32 HRC	4b	●●●
<b>Graphite</b> <small>Industrial graphite</small>		5	○○○
<b>Cast iron</b> <small>Grey / nodular cast iron</small>	< 32 HRC	6a	●○●
	> 32 HRC	6b	●○●
<b>Titanium</b> <small>Titanium alloys</small>	Rm < 600 N/mm <sup>2</sup>	7a	●○●
	600 < Rm N/mm <sup>2</sup>	7b	●○●
<b>Nickel alloys</b> <small>Inconel, Hastelloy</small>	Rm < 1000 N/mm <sup>2</sup>	8a	●●●
	Rm > 1000 N/mm <sup>2</sup>	8b	●●●
<b>Copper, brass, bronze</b> <small>Copper-based</small>	Rm < 850 N/mm <sup>2</sup>	9a	○○○
	Rm > 850 N/mm <sup>2</sup>	9b	○○○
<b>Aluminum</b> <small>Aluminum alloys</small>	Si < 0.5%	10a	○○○
	0.5% < Si < 5%	10b	○○○
	Si > 5%	10c	○○○
<b>Synthetic materials</b> <small>Engineering plastics</small>	Thermoplastic	11a	○○○
	Thermoset	11b	○○○
<b>Composite materials</b> <small>Reinforced composites</small>	Glass fiber / GFK	12a	○○○
	Carbon fiber / KFK	12b	○○○
<b>Precious metals</b> <small>Gold, platinum, silver</small>	Gold	13a	○○○
	Platinum	13b	○○○

## TECHNICAL DRAWING



## DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	8 mm
d (h5)	8 mm
L	63 mm
l1	12 mm
l3	26 mm
d3	-
R	1 mm
e	-
Z	4
Chamfer K	-
w° collision	-



E-SHOP / EZI CUT  
eskenazi.ch/eshop/21173A-8-R1