

# FRAISE-UGV-TORIQUE-MD-E2-+-EZI-DUR-+L3-POUR-MÉTAUX-DURS · BALL-NOSE-ENDMILL-FOR-HSC-SC-E2-+-EZI-DUR · HALBRUND-FRÄSER-HSC-HM-E2-+-EZI-DUR-



SWISS MADE

23921X-10-R1

Version 07.05.2026

<b>E2</b> E2 HIGH PRECISION TOOL MATERIAL	$\lambda = 30^\circ$ $\gamma = 3^\circ$ CUTTING ANGLES ? 30° ?3°	 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	 EXTRA LONG PRECISION DRILL BITS
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## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	23921X-10-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)	10 mm
d (h5)	10 mm
L	100 mm
l1	15 mm
l3	40 mm
d3	-
R	-
e	-
Z	4
Chamfer K	-
w° collision	-



E-SHOP / EZI CUT  
[eskenazi.ch/eshop/23921X-10-R1](https://eskenazi.ch/eshop/23921X-10-R1)