

E2 E2 HIGH PRECISION TOOL MATERIAL	$\lambda=40^{\circ}-45^{\circ}$ $Y=18^{\circ}$ CUTTING ANGLES $\lambda=40^{\circ}-45^{\circ}$, $Y=18^{\circ}$	$\phi < 6$ $\phi > 6$ 90° 45° CHAMFER $\phi < 6$ $\phi > 6$ 90° 45°	 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	$\lambda 2$ $\lambda 1$ VARIABLE HELIX DRILL BIT
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MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21325D-20
Alloyed and non-alloyed steels <small>Non-alloyed steels</small>	$R_m < 450 \text{ N/mm}^2$	1a	○○○
	$R_m 450-700 \text{ N/mm}^2$	1b	○○○
	$R_m 700-900 \text{ N/mm}^2$	1c	○○○
	$R_m > 1200 \text{ N/mm}^2$	1d	○○○
Stainless steels <small>Stainless steels</small>	$R_m < 650 \text{ N/mm}^2$	2a	○○○
	$R_m 650-950 \text{ N/mm}^2$	2b	○○○
	$R_m > 950 \text{ N/mm}^2$	2c	○○○
Hardened steels <small>Hardened steels</small>	44-56 HRC	3a	○○○
	57-67 HRC	3b	○○○
Exotic materials <small>Special alloys</small>	< 32 HRC	4a	○○○
	> 32 HRC	4b	○○○
Graphite <small>Industrial graphite</small>		5	●●●
Cast iron <small>Grey / nodular cast iron</small>	< 32 HRC	6a	○○○
	> 32 HRC	6b	○○○
Titanium <small>Titanium alloys</small>	$R_m < 600 \text{ N/mm}^2$	7a	○○○
	$600 < R_m \text{ N/mm}^2$	7b	○○○
Nickel alloys <small>Inconel, Hastelloy</small>	$R_m < 1000 \text{ N/mm}^2$	8a	○○○
	$R_m > 1000 \text{ N/mm}^2$	8b	○○○
Copper, brass, bronze <small>Copper-based</small>	$R_m < 850 \text{ N/mm}^2$	9a	●●○
	$R_m > 850 \text{ N/mm}^2$	9b	●●○
Aluminum <small>Aluminum alloys</small>	$Si < 0.5\%$	10a	●●○
	$0.5\% < Si < 5\%$	10b	●●○
	$Si > 5\%$	10c	●●●
Synthetic materials <small>Engineering plastics</small>	Thermoplastic	11a	○○○
	Thermoset	11b	○○○
Composite materials <small>Reinforced composites</small>	Glass fiber / GFK	12a	●●●
	Carbon fiber / KFK	12b	●●●
Precious metals <small>Gold, platinum, silver</small>	Gold	13a	●○○
	Platinum	13b	●●○

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	20 mm
d (h5)	20 mm
L	104 mm
l1	38 mm
l3	54 mm
d3	-
R	-
e	-
Z	3
Chamfer K	0.1
w° collision	-



E-SHOP / EZI CUT
eskenazi.ch/eshop/21325D-20