

E2 E2 HIGH PRECISION TOOL MATERIAL	$\lambda=30^{\circ}\text{-}35^{\circ}$ $\gamma=8^{\circ}$ CUTTING ANGLES $730^{\circ}\text{-}35^{\circ}$ 78°	$0\leq\phi\leq 90^{\circ}$ $0\leq\phi\leq 45^{\circ}$ CHAMFER $\phi < 6$ $\phi > 6$ 90° 45°	DUAL DIRECTION HELICAL DRILL BIT	$1.5 \times D$ 1.5XD DEPTH PRECISION TOOL	SHORT LENGTH TOOL WEAR BARS	ADJUSTABLE ANGLE ICON	VARIABLE HELIX DRILL BIT
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MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21062-7-8
Alloyed and non-alloyed steels <small>Non-alloyed steels</small>	$R_m < 450 \text{ N/mm}^2$	1a	●○
	$R_m 450\text{--}700 \text{ N/mm}^2$	1b	○○
	$R_m 700\text{--}900 \text{ N/mm}^2$	1c	○○
	$R_m > 1200 \text{ N/mm}^2$	1d	○○
Stainless steels <small>Stainless steels</small>	$R_m < 650 \text{ N/mm}^2$	2a	○○
	$R_m 650\text{--}950 \text{ N/mm}^2$	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)	7 mm
d (h5)	8 mm
L	58 mm
l1	8 mm
l3	–
d3	–
R	–
e	–
Z	3
Chamfer K	0.1
w° collision	3°

