

ILJIN Diamond

超硬合金 丸棒&カットブランク



MD

for PCB drill , PCB router, Micro cutting tools

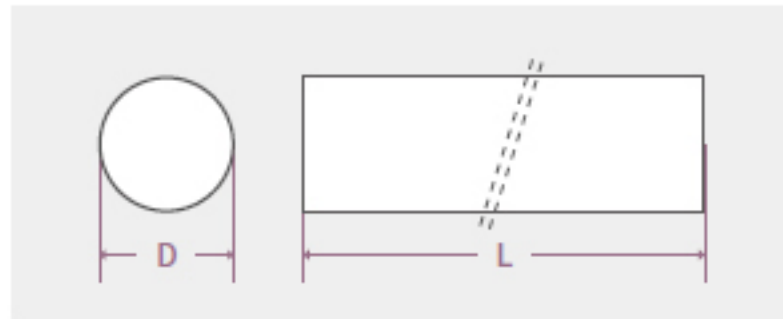
Grade	Density	Hardness		TRS (Mpa)	WC (μ m)	Co (%)	Application	Diameter (mm)
		HV	HRA					
N810X	14.55	1,980	94.0	4,300	0.3	7.5	PCB Micro Drill : < Ø0.1~0.35 Higher performance for halogen free PCB	Ø1.15~1.52
N810A	14.47	1,960	93.9	4,400	0.3	8.2	PCB Micro Drill : Ø0.15~0.50	Ø1.15~1.52
M710	14.61	1,930	93.8	4,100	0.5	7.5	PCB Micro Drill : > Ø0.50	Ø1.15~1.52
HF6	14.75	2,020	94.2	3,700	0.5	6.0	PCB Router & End mill	Ø3.30

EDR

for Endmill, Drill, Reamer

Grade	Density	Hardness		TRS (Mpa)	WC (μ m)	Co (%)	Application	Diameter (mm)
		HV	HRA					
HF6	14.75	2,020	94.2	3,700	0.5	6.0	End Mill, Drill, Reamer Al & Non-ferrous metal	Ø3.2~25.2
HF10	14.3	1,650	92.2	3,900	0.6	10.0	End Mill, Drill, Reamer HRC < 50 Steel, Cast iron, Stainless steel, Al & Non-ferrous metal, Graphite & fiber reinforced materials	Ø3.2~25.2
HF12	14.15	1,580	91.7	4,000	0.6	12.0	End Mill, Drill, Reamer HRC < 45 Steel, Cast iron, Stainless steel, Al & Non-ferrous metal	Ø3.2~25.2
EF8	14.57	1,920	93.8	4,050	0.5	8.0	End Mill, Drill HRC > 50 Steel, Cast iron, Dental Bur Al & Non-ferrous metal, Graphite & fiber reinforced materials	Ø3.2~25.2
EF10	14.35	1,760	92.7	4,100	0.5	10.0	End Mill, Drill, Reamer HRC < 50 Steel, Cast iron, Stainless steel, Al & Non-ferrous metal, Dental Bur Graphite & fiber reinforced materials	Ø3.2~25.2
EF12	14.15	1,640	92.1	4,200	0.5	12.0	End Mill, Drill, Reamer HRC < 45 Steel, Cast iron, Stainless steel, Al & Non-ferrous metal	Ø3.2 ~25.2
TH608	14.59	1,790	92.5	3,500	0.8	6.0	End Mill & Drill for CVD Diamond Coating CFRP & Grapite Non-ferrous & Non-metal materials	Ø3.2~25.2
TH1008	14.4	1,590	91.8	3,800	0.8	10.0	End Mill, Drill, Reamer HRC < 50 Steel, TiAl, Inconel, Stainless steel, Al & Non-ferrous metal	Ø3.2~25.2
N810A	14.47	1,960	93.9	4,400	0.3	8.2	End Mill, Drill HRC > 50 Steel, Hardened steel	Ø3.2~25.2

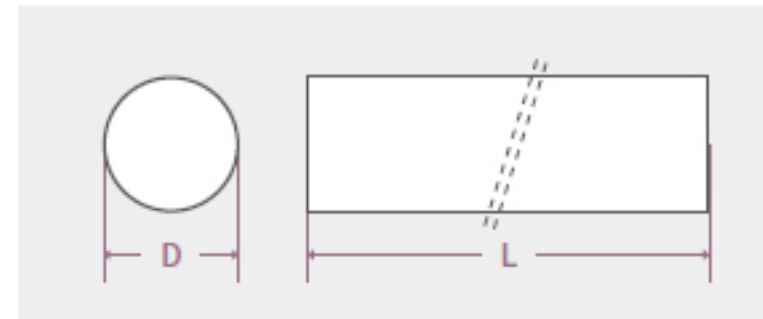
Solid rods



unit:mm			
D	Tol	L	Tol
1.15~1.50	+0.05	320 / 330	
2.20~4.20	+0.30	310 / 320	
5.20~6.20	+0.40		+10.0
7.20~10.2	+0.45	310 / 330	
11.20~20.20	+0.55		
21.20~25.20	+0.65		

Additional diameter available up to Ø40.2 upon request

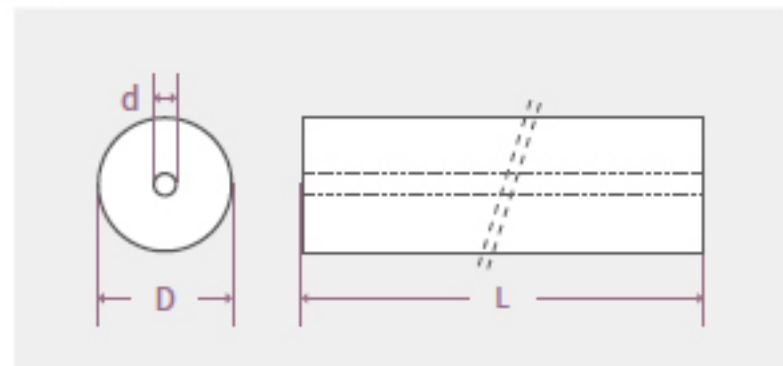
Solid blanks



unit:mm				
D	Tol	L	Tol	Remarks
3.21~3.25	±0.01			Ground
3.30	±0.04	38.5	±0.1	Unground
3.0~25.0	h6	38~150	+1.0	Ground

Central straight 1 hole type rods

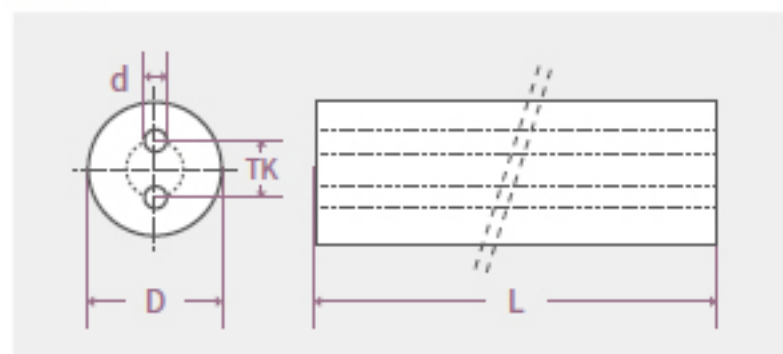
EF12



unit:mm			
D	Tol	d	Tol
3.3	+0.3/0.0	0.8	±0.15
5.3		1.0	
6.3		1.5	
8.3	+0.4/0.0	1.5	
10.3	+0.5/0.0	1.5	±0.20
10.3		2.0	
12.3		2.0	
14.3	+0.6/0.0	2.0	
16.3		2.0	

Central straight 2 hole type rods

EF12

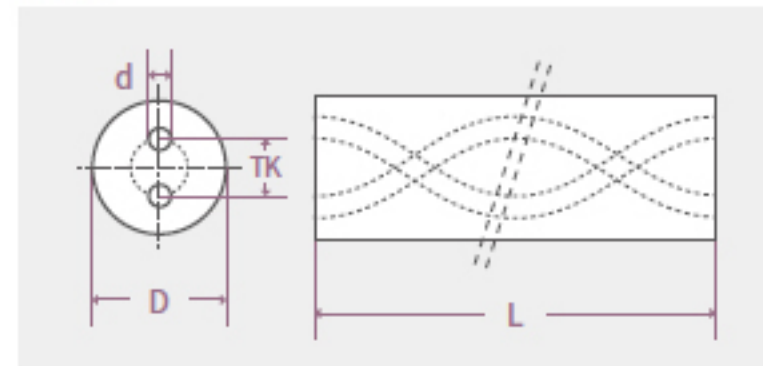


unit:mm					
D	Tol	TK	Tol	d	Tol
6.3	+0.4/0.0	2.4	±0.2	1.0	±0.15
8.3					
10.3	+0.5/0.0	2.6		1.3	
12.3		3.7			
14.3	+0.6/0.0	5.0	±0.25	1.5	
16.3					

Diameter in odd number also available

Helical 2 hole type rods (30°)

EF12



L : 330mm, unit:mm						
D	Tol	TK	Tol	d	Tol	Pitch Tol
6.3		2.4		0.7		32.65
7.3		3.5	±0.2	1		38.09
8.3	+0.6	3.5		1		43.53
9.3		4.5	±0.3	1.4	±0.15	48.97
10.3		4.8		1.4		54.41
11.3		4.9		1.4		59.86
12.3	+0.9	5.85		1.4		65.30
13.3		6.1	±0.4	1.75		70.74
14.3	+1.0	6.7		1.75	±0.2	76.20
15.3		7.3		1.75		81.62
16.3		7.9		1.75		87.06

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