

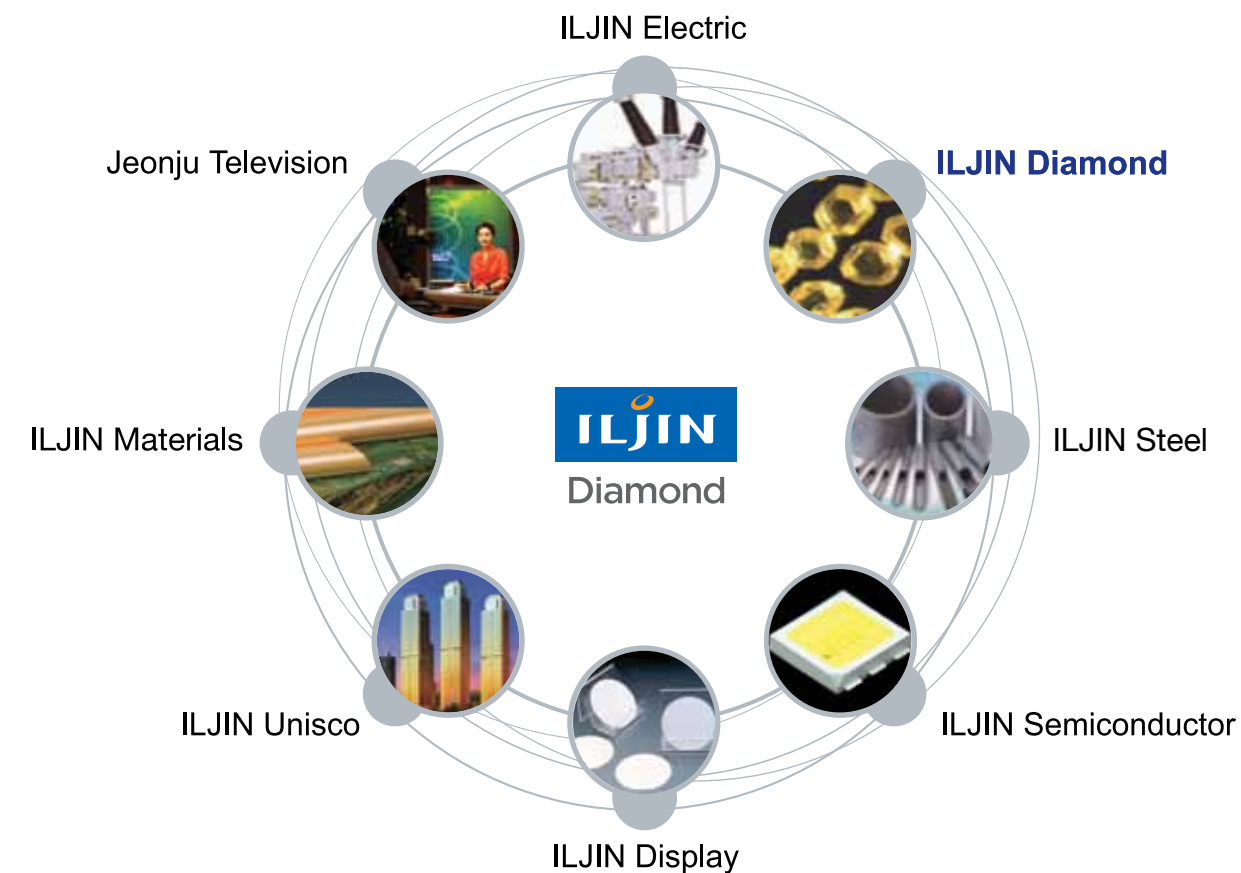
About ILJIN GROUP

Overview



Establishment	January 22, 1967
Head Office	Dohwa-dong, Mapo-gu, Seoul
Sales	Approx. \$2.5 Billion
Overseas Network	ILJIN USA, ILJIN CHINA, ILJIN EUROPE, ILJIN JAPAN
Employees	5,000

Affiliated Companies



Quality Control

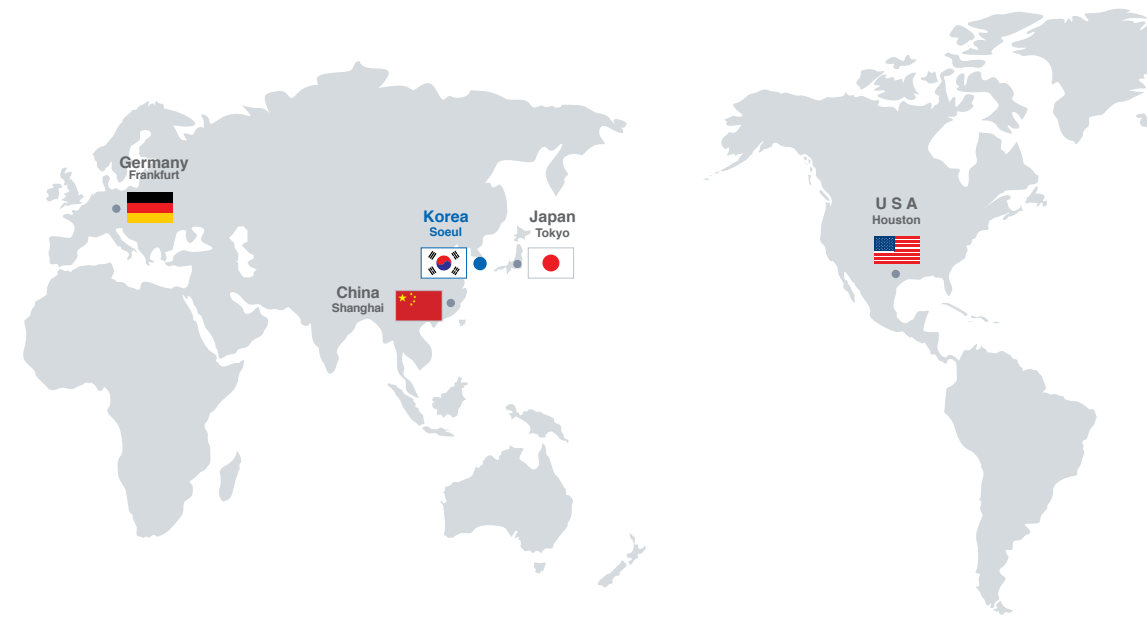
☐ 通过品质保证系统(ISO9001)环境管理标准(ISO14001)认证

☐ 产品制造通过严格的检查系统



Sales Network

KOREA
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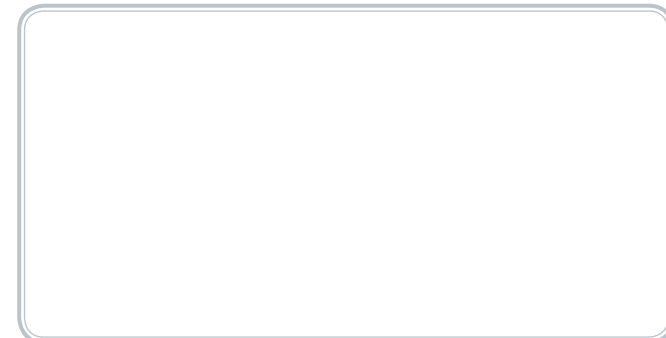


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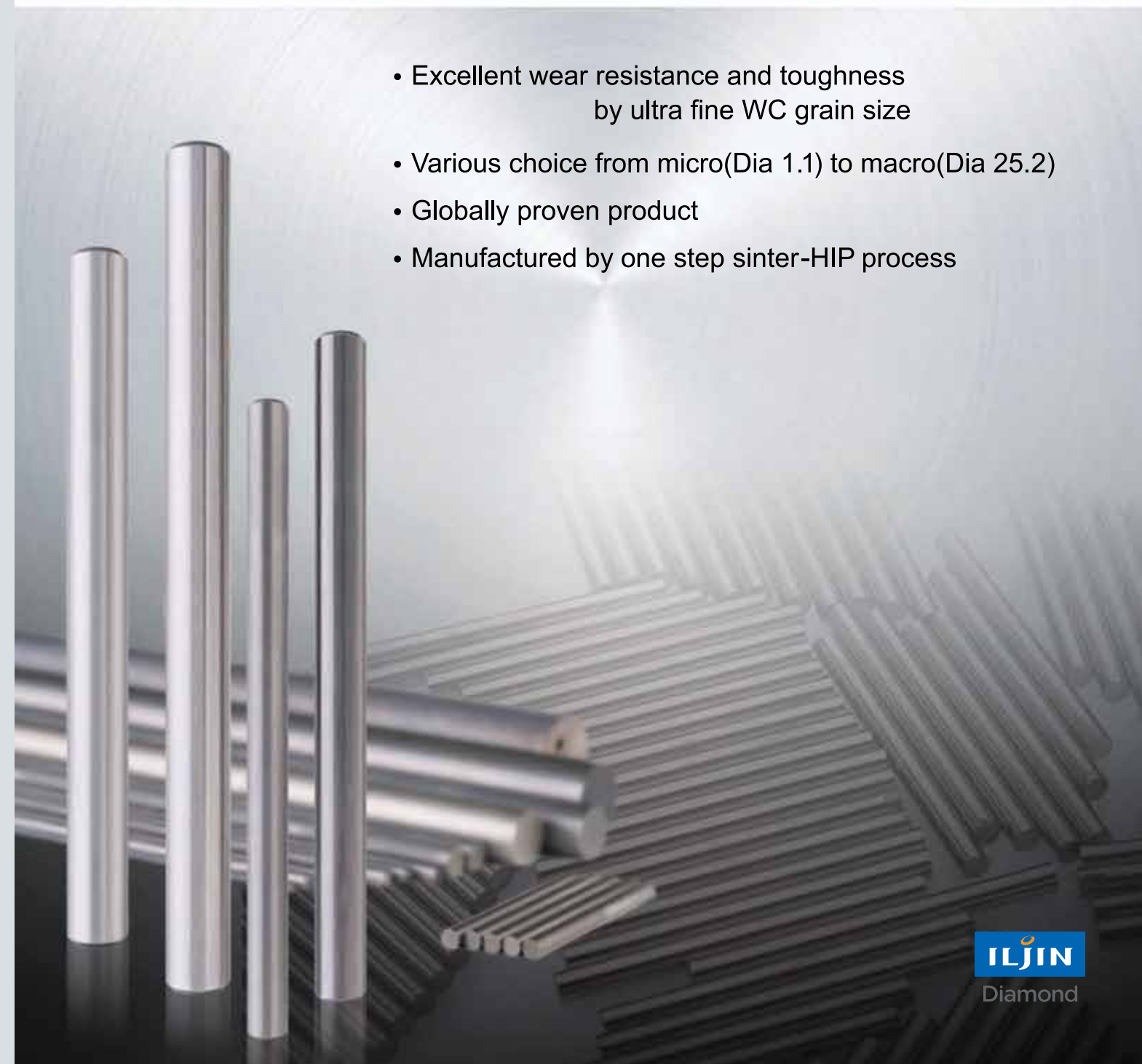
Europe
Germany
 ILJIN EUROPE GmbH.
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JAPAN
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中国
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 上海市闵行区先锋街25号 宝纳大厦3楼C单元, 201103
 电话 : +86-21-61268711 传真 : +86-21-61268713



TUNGSTEN CARBIDE RODS and BLANKS 硬质合金棒料



- Excellent wear resistance and toughness by ultra fine WC grain size
- Various choice from micro(Dia 1.1) to macro(Dia 25.2)
- Globally proven product
- Manufactured by one step sinter-HIP process



Excellent Wear Resistance & Toughness by ultra fine grain size

规格说明和适用范围(Grade Specification and Application)

MD

牌号	密度 (g/cm³)	硬度		抗弯强度 (Mpa)	晶粒度 (μm)	含钴量 (%)	适用范围	外径 (mm)
		HV	HRA					
N810X	14.55	1,980	94.0	4,300	0.3	7.5	PCB Micro Drill : ϕ0.35	$\phi</math>1.15~\phi</math>1.52$
N810A	14.47	1,960	93.9	4,400	0.3	8.2	PCB Micro Drill : $\phi</math>0.20~\phi</math>0.40$	$\phi</math>1.15~\phi</math>1.52$
M710	14.61	1,930	93.8	4,100	0.5	7.5	PCB Micro Drill : > $\phi</math>0.40$	$\phi</math>1.15~\phi</math>1.52$
EF6A	14.75	2,020	94.2	3,700	0.5	6.0	PCB Router & End mill	$\phi</math>3.30$

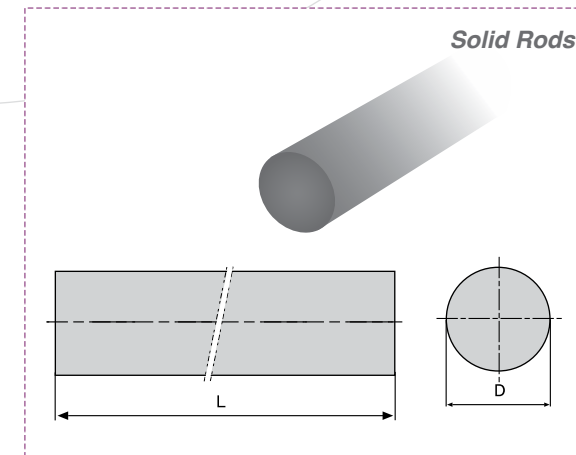
EDR

牌号	密度 (g/cm³)	硬度		抗弯强度 (Mpa)	晶粒度 (μm)	含钴量 (%)	适用范围	外径 (mm)
		HV	HRA					
EF8	14.57	1,920	93.8	4,050	0.5	8.0	End Mill, Drill HRC > 50 Steel, Cast iron, Al & Non-ferrous metal, Graphite & fiber reinforced materials Dental Bur	$\phi</math>1.5~\phi</math>25.2$
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, Graphite & fiber reinforced materials Dental Bur	$\phi</math>1.5~\phi</math>25.2$
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	$\phi</math>2.2~\phi</math>25.2$
ED6	14.59	1,790	92.8	3,000	0.8	6.5	End Mill & Drill for CVD Diamond Coating Non-ferrous & Non-metal materials(Graphite)	$\phi</math>3.2~\phi</math>25.2$
TH908	14.44	1,680	92.2	3,600	0.8	9.5	End Mill, Drill HRC < 45 Steel, Stainless steel, Non-ferrous metal	$\phi</math>3.2~\phi</math>25.2$

Various choice from micro to macro

圆棒—长棒

外径	公差	长度	差		
1.15	+0.05	320	+10.0		
1.30		330			
1.50					
2.20	+0.30	310			
3.20		320			
4.20					
5.20	+0.40	310			
6.20					
7.20					
8.20	+0.45			330	
9.20					
10.20					
11.20	+0.55		310		
12.20					
13.20					
14.20	+0.65				330
15.20					
16.20					
17.20	+0.65	310			
18.20					
19.20					
20.20	+0.65			330	
21.20					
22.20					
23.20	+0.65		310		
24.20					
25.20					



圆棒—短棒

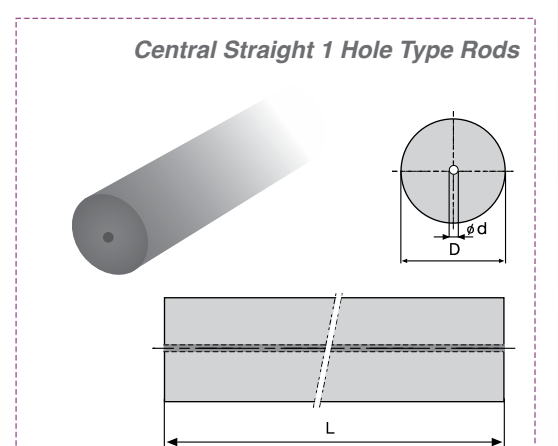
外径	差	长度	差	加工
3.21	±0.01	38.5	±0.1	Ground
3.25				Unground
3.30	±0.04			Ground
3.0~25.0	h6	38~150	+1.0	Ground

Available size : dia 1.1 to dia 25.2

Proven Performance & Quality

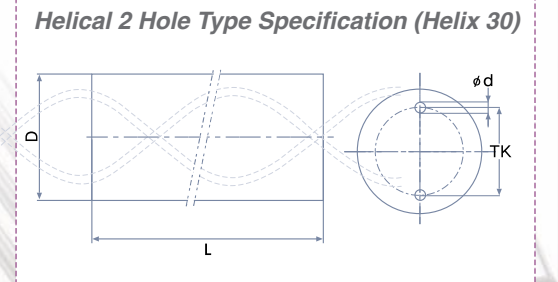
单孔直孔圆棒

外径	公差	内径	公差	牌号	
				EF10	EF12
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		1.5		○	○
10.3		2.0		○	○
12.3	+0.5/0.0	2.0	±0.20	○	○
14.3		2.0		○	○
16.3		2.0		○	○



双孔直孔圆棒

外径	公差	双孔孔距	公差	内径	公差	牌号	
						EF10	EF12
6.3	+0.4/0.0	2.4	±0.2	1.0	±0.15	○	○
8.3				1.0		○	○
10.3				1.0		○	○
12.3	+0.5/0.0	3.7		1.3		○	○
14.3				1.5		○	○
16.3				1.5		○	○



30° 双孔螺旋圆棒 (Helix 30)

外径	公差	双孔孔距	公差	内径	公差	螺距长度	公差	牌号	
								EF10	EF12
4.3	+0.50	1.7	±0.2	0.6	±0.15	21.75	±1.5		○
6.3				0.7		32.65		○	○
7.3				1		38.09			○
8.3	+0.60	3.5		1		43.53		○	○
9.3				1.4		48.97			○
10.3				1.4		54.41		○	○
11.3	+0.90	4.9	±0.3	1.4	±0.2	59.86	±2		○
12.3				1.4		65.30		○	○
13.3				1.75		70.74			○
14.3	+1.00	6.7		1.75		76.20		○	○
15.3				1.75		81.62			○
16.3				1.75		87.06		○	○