

# Quality Leader

ILJIN DIAMOND provides a great value to customers through superlative product.



## Advanced HPHT Technology

ILJIN Diamond delivers “high-performance quality products” to the customers



## Best Quality Products

ILJIN Diamond maintains product quality consistency through strict quality standards and optimized manufacturing process.



## Quality Assurance

ILJIN Diamond’s quality control policy is established on customer’s value assurance

ILJIN DIAMOND

# Quality Control

□ Implementing Strict Quality Management System

□ Certified by Quality Assurance Standard (ISO9001)  
And Environmental Management Standard (ISO14001)

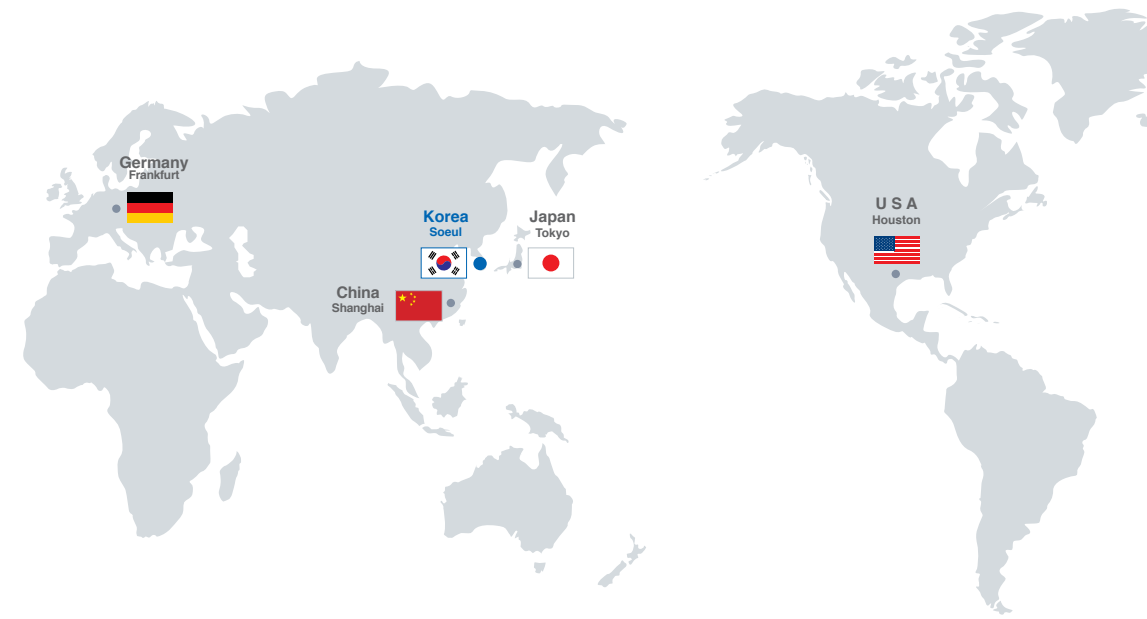


## Sales Network

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**ILJIN**  
Diamond [www.iljindiamond.com](http://www.iljindiamond.com)



# SAW GRIT

ISD Construction  
IPD Stone Mining

- Best Solution for Longer Tool Life & Cutting Ability
- Excellent Thermal & Chemical Stability
- Outstanding Performance to Meet Customers Needs



**ILJIN**  
Diamond

Grade

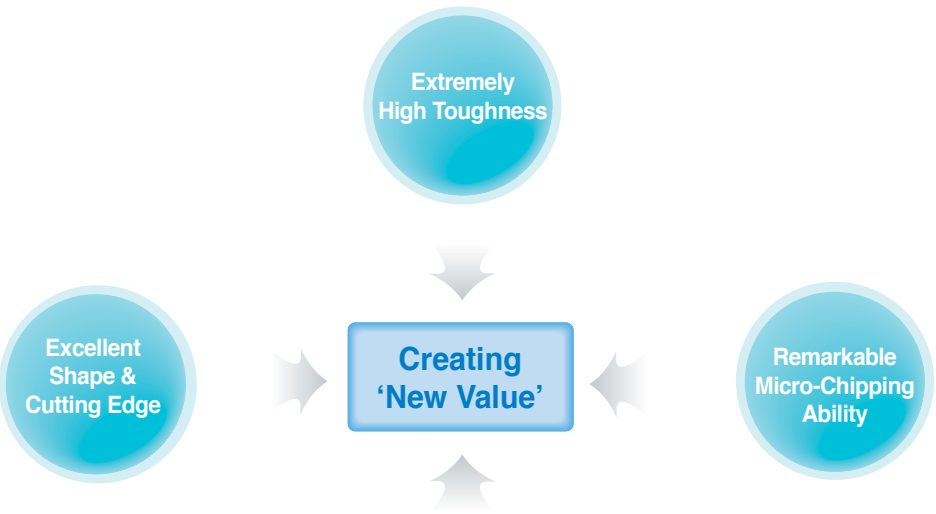
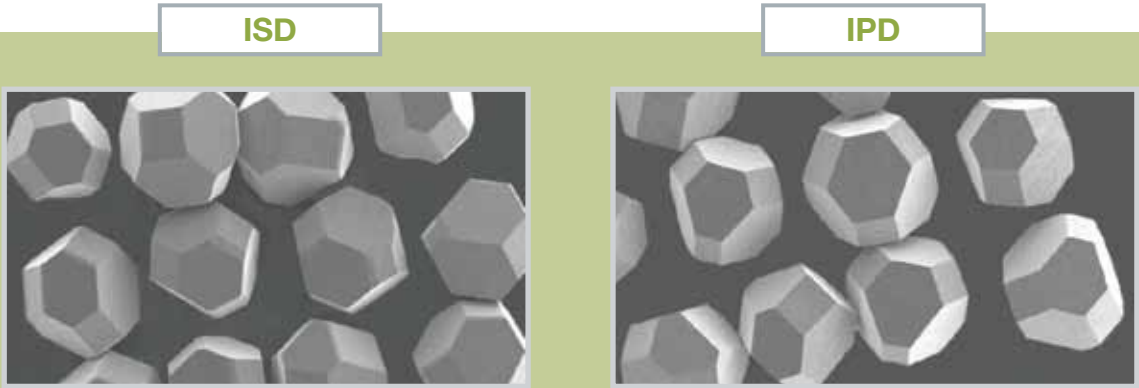
Grade	ISD-1750	ISD-1700	ISD-1600	ISD-1500	ISD-1300
Image					
Available Mesh Size	25/30 to 60/80				
Characteristics	Extremely high strength, thermal stability and strictly controlled shape in perfect cubo-octahedral	High strength, thermal stability and optimized shape for hard working condition	High strength, low inclusion and uniform shape distribution for hard working condition	Mid-range of strength and shapes with low inclusions for general application	Relatively friable with wider distribution of strength and shape for moderate applications

Application

Applicable Tools	ISD-1750	ISD-1700	ISD-1650	ISD-1600	ISD-1550	ISD-1500	ISD-1400	ISD-1300	ISD-1200	ISD-1100
Large Circular Saws	○	○	○	○						
Multi Blade Saws	○	○	○	○						
Drill Bits	○	○	○	○	○	○				
Wire Saws	○	○	○	○	○	○				
Frame Saws			○	○	○	○				
Milling Tools	○	○	○	○						
Electroplated Tools				○	○	○	○	○	○	○
Free Cutting Tools					○	○	○			
Grinding and Polishing Wheels								○	○	○

ISD Series is manufactured to offer optimal performance in a variety of applications and available with diverse characteristics of size, shape, strength and cutting edge. Customized product development is also available upon request.

IPD series will create new value for customers.  
IPD is engineered to get high strength and well-defined cutting edges, which will lead to improved performance under severe working condition.



Grade

Grade	IPD-SU	IPD-HI
Available Mesh Size	30/40, 35/45, 40/50	

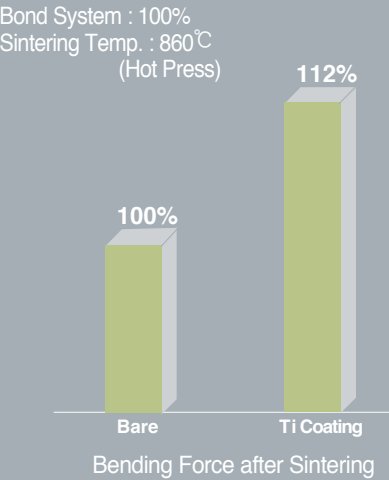
IPD series is available with Ti based coating and single mesh size upon request

Advantages of Titanium based coating  
Improved diamond retention in metallurgical bond  
Diamond protection from chemical damage in aggressive sintering condition

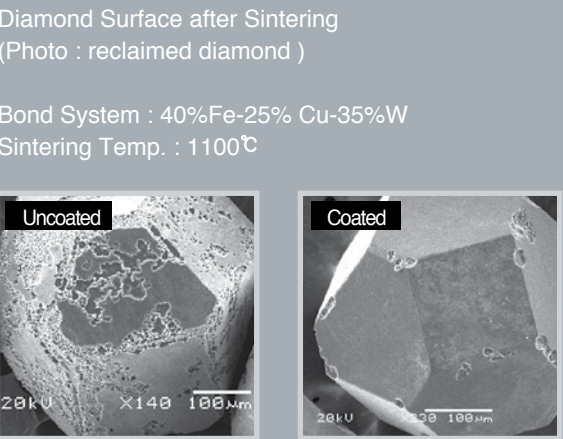
Available Coating

Item		Ti Coating	Tix Coating	TN Coating
Image				
Characteristics of Coating Layer		Resistant to chemical reaction and oxidation at normal sintering temp.	Resistant to chemical reaction and oxidation at high sintering temperature (infiltration)	Ti, Ni double layer High retention force in high content of bronze or Cu bond material
Application (Recommendation)	Base Bond	Cobalt Bronze, Copper	Tungsten Iron	High Bronze or Cu
	Sintering Temperature	750 ~ 900℃	850 ~ 1100℃	
Available Mesh Size		25/30 to 60/80		

Retention Force



Corrosion Resistance of Coated Diamond



New coating system is available upon request