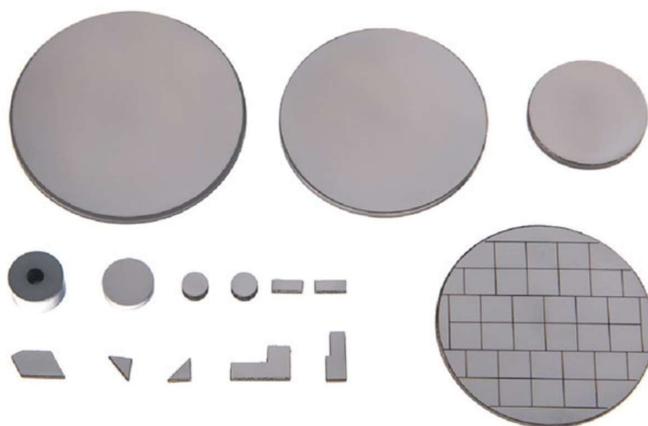


2020 PCD/CBN Product and Service Offering



A public company manufactures PCD/PCBN materials

Capacity: can produce 13,000 discs, 450,000 tips a month



Product offering

PCD blanks & precut tips
CBN blanks & precut tips

Service offering

Disc cutting & dicing
Tailored materials development

PCD blanks & precut tips

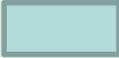
Grade	Grain Size (μm)	Standard Product Specification	Applications
GC001	<1	Disc diameter: Ø51mm Overall thickness:1.0~3.2mm Standard PCD thickness:0.5mm PCD thickness range:0.4~0.7mm	CFRP, PCB, rubber, acrylic glass Low Silicon Aluminum alloy Ultra high surface finishing, mirror surfacing Rough cutting with chip resistance
GC002	2		Wood, profile router Copper Rubber, acrylic glass Thread cutting
GC005	5		<14% Si/Al alloys Copper alloys Plastics Bamboo
UA010 GC010	10		>14% Silicon Aluminum alloys Cu alloy Wood, Timber Particle wood MDF
GD025	25	Disc diameter: Ø58mm Overall thickness:1.0~3.2mm Standard PCD thickness:0.5mm PCD thickness range:0.4~0.7mm	>14% Silicon Aluminum alloys Metal matrix composites Cast iron aluminum bimetal Graphite and other abrasive materials Sintered tungsten carbide and ceramics
GM253	25+3	Note: Overall thickness can be 1.0~5.0 mm for UA010 Overall thickness can be 3.0~5.0 mm for GM253 Disc diameter of Ø74mm will be available 2H 2020	Metal matrix composites Wear part, guide pads HPL board HDF/MDF Veneer
GM302	30+2		For ultra abrasive materials, such as high silicon aluminum alloys High glass composite Metal matrix composites High strength cast iron/ aluminum bi-metal Reinforced particle board Laminated board
GC040	40		Super wear resistance application

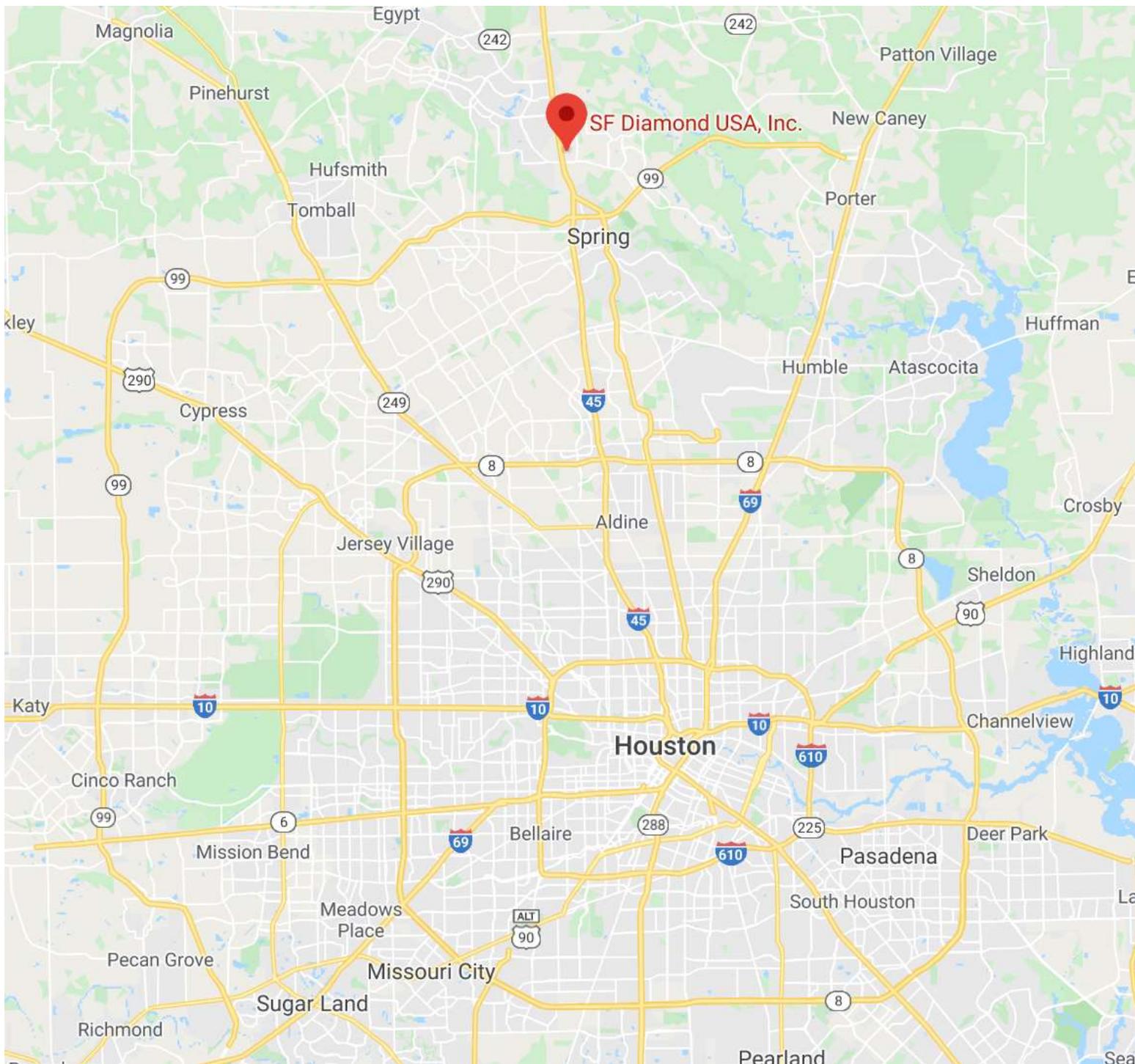
CBN blanks & precut tips

Grade	CBN Content %	Standard Product Specification	Applications
960	96	CB900, CB720, CB500 have carbide support	Cast iron HSS Hard facing alloys Turning of carbide Finishing of Ni- or Co- based super alloy Heavy interruption
900	90	Disc diameter: Ø58mm Overall thickness: 1.6, 2.4, 3.2, 4.8mm Standard PCBN thickness: 0.8mm	Cast iron Powder metallurgy components Hardened steel Inconel 718 Heavy interruption
720	70	Solid CBN grade BN960, BN900, BN720, BN500 without carbide support Disc diameter: Ø48mm Overall thickness: 1.6, 3.2, 4.8, 5.4mm	Hardened steel Powder metal machining Continuous to medium interruption
500	50		Hardened steel Chilled cast iron Continuous to light interruption

PCD/ CBN cutting & dicing service

Laser cut with proprietary post processing, comparable to EDM cut.

Service	Cross section
Normal cut	
Same direction beveling	 
Relief angle	
Bi-beveling flanks cutting	 
Hole making	



Contact:

Bin Fan, *Ph.D.*

Sales Manager
SF Diamond USA, Inc
25519 Oakhurst Dr.
Spring Texas, 77386

Tel: 832 403 9552

Email: bin@sf-diamond.com

