

Diamond Blade Saw Applications

Equipments:

Digital Low Speed Diamond Saw - SYJ-150

CE



Automatic Section Saw - SYJ-200

CE

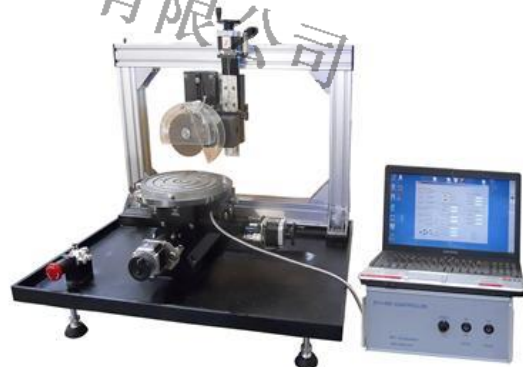


Precision CNC Dicing/Cutting Saw - SYJ-400

CE



Precision CNC Dicing / Cutting Saw - SYJ-800



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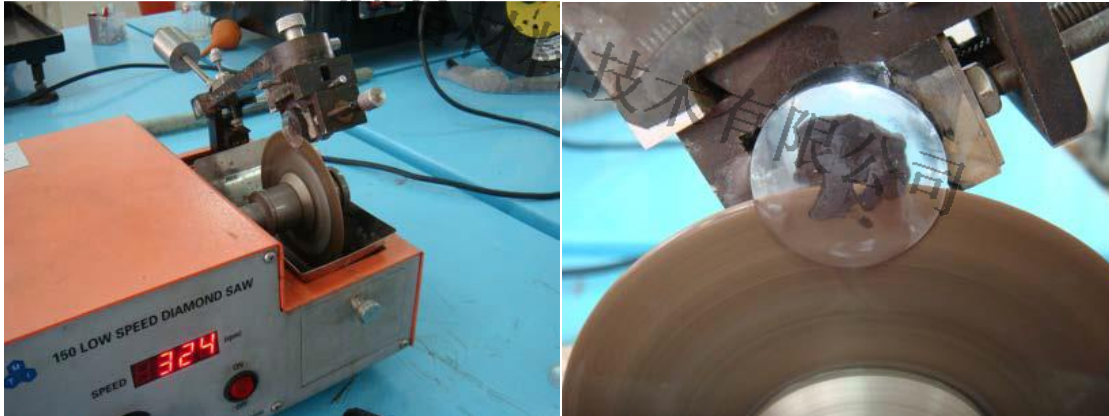
Testing Equipment#1:

Digital Low Speed Diamond Saw - SYJ-150

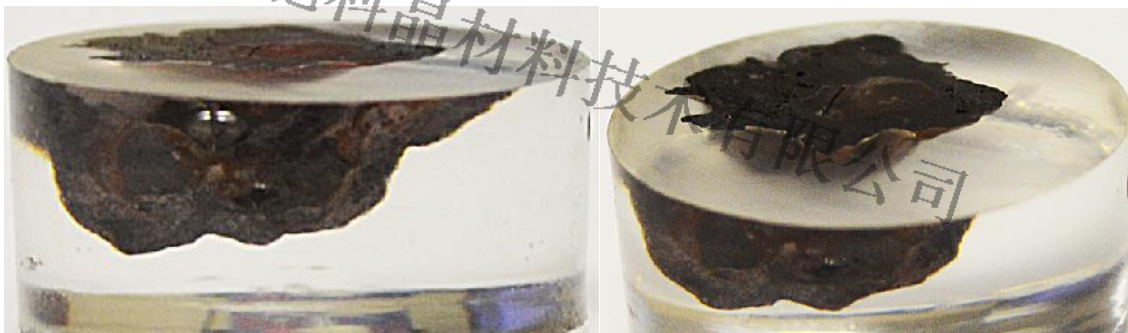


Testing Materials:	Iron ore
Accessories:	Diamond blade EQ-DF0403
Testing Object:	Cutting
Testing Data:	Thickness of blade: 0.35mm
	Cutting speed: 324r/min
	Sample size: $\varnothing 25 \times 0.65\text{mm}$

Application Images:



Sample Result Images:



Note: [Small Precision Diamond Wire Saw -- STX-202A](#) can perform the same task

Testing Equipment#2:

Automatic Section Saw - SYJ-200



Testing Materials:	Steel bolt
Accessories:	Alumina Abrasive Blade EQ-AL0801
Testing Object:	Central cutting
Testing Data:	Thickness of blade: 0.05 mm
	Cutting speed: 1 mm/min

Application Image:



Sample Result Image:



Note: Special fixture is required; cutting speed needs to be slow

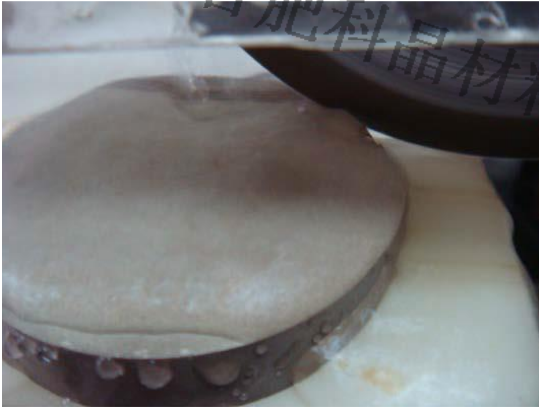
Testing Equipment#3:

Precision CNC Dicing / Cutting Saw - SYJ-400

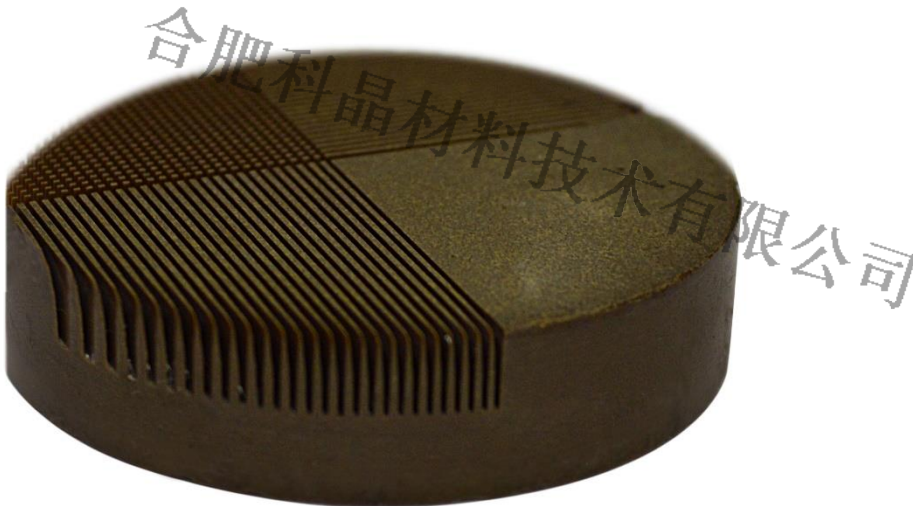


Testing Materials:	Piezoceramic
Accessories:	Diamond blade EQ-DF0403
Testing Object:	Grooving
Testing Data:	Thickness of blade: 0.35mm
	Cutting speed: 5mm/min
	Sample result: 0.4×0.4×5mm

Application Image:



Sample Result Image:



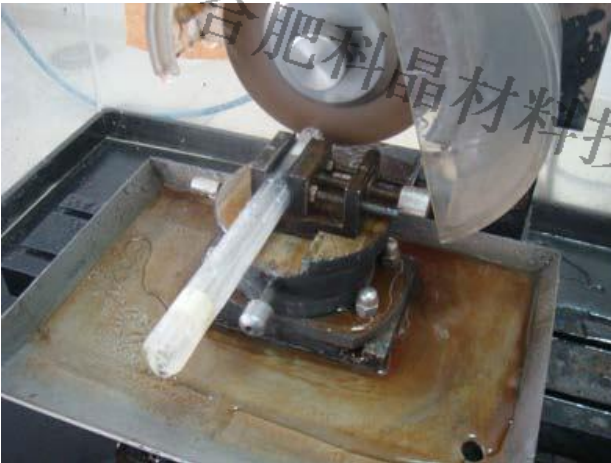
Testing Equipment#3:

Precision CNC Dicing / Cutting Saw - SYJ-400



Testing Materials:	4mm O.D Quartz tube
Accessories:	Diamond blade EQ-DF0403
Testing Object:	Fast cutting
Testing Data:	Thickness of blade: 0.35mm
	Cutting speed: 30 mm/min

Application Images:



Sample Result Image:



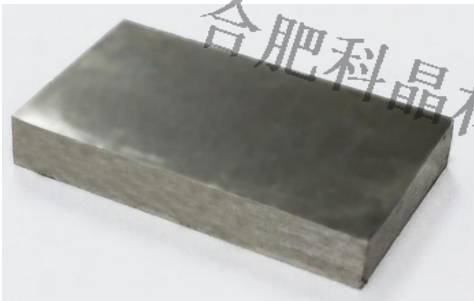
Testing Equipment#3:

Precision CNC Dicing / Cutting Saw - SYJ-400



Testing Materials:	Chrome (Cr)
Accessories:	EQ-SC0404 (Sic Blade)
Testing Object:	Cutting
Testing Data:	Thickness of blade: 0.4mm
	Cutting speed: 3 mm/min

Sample Result Image:



Note: For a better cutting surface quality, Sic blade is better than diamond blade

Testing Materials:	Piezoceramics
Accessories:	Diamond blade EQ-DF0403
Testing Object:	Cutting
Testing Data:	Thickness of blade: 0.35mm
	Cutting speed: 1 mm/min

Sample Result Image:

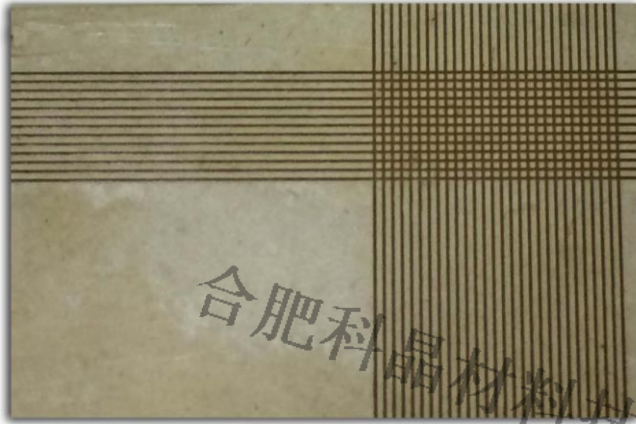


Sample resulting size: 18.5 × 16 × 1.28mm

Diamond Blade Saw Applications (SYJ-150, SYJ-200, SYJ-400, SYJ-800)

Testing Materials:	Piezoceramics
Accessories:	EQ-EC-422
Testing Object:	Grooving
Testing Data:	Thickness of blade: 0.1mm
	Cutting speed: 30 mm/min

Sample Result Image:

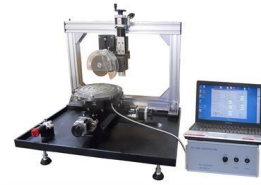


Sample resulting size: 0.2 × 0.2 × 0.2 mm

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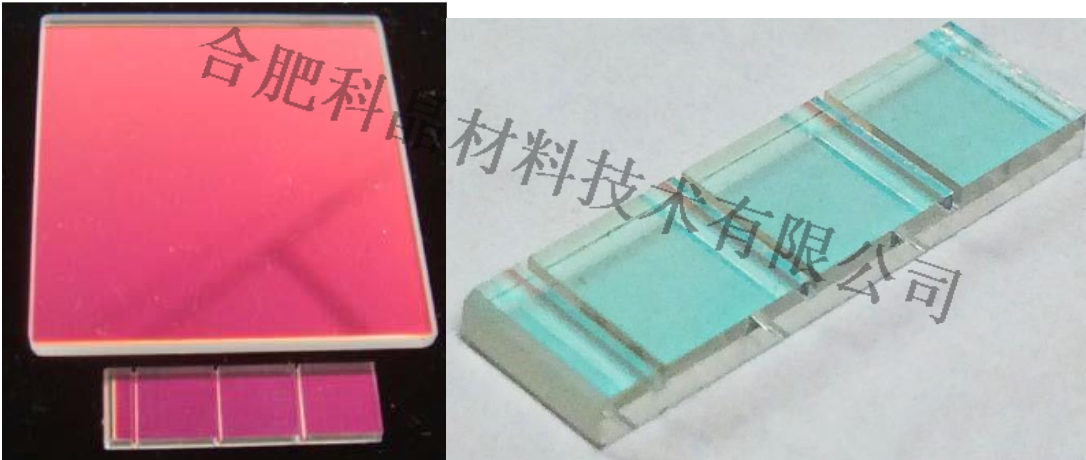
Testing Equipment#4:

Precision CNC Dicing / Cutting Saw - SYJ-800



Testing Materials:	Quartz
Accessories:	Diamond blade EQ-DF0403
Testing Object:	Cutting
Testing Data:	Thickness of blade: 0.35mm
	Cutting speed: 5 mm/min

Sample Result Image:



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