

Wire Saw Machine Application Note

The cutting results are applicable to the following equipment:

Precision Wire Saw - STX-1202



Small Precision Diamond Wire Saw - STX-202A



Diamond Wire Saw with 6" Dia. Cutting Capability - STX-603



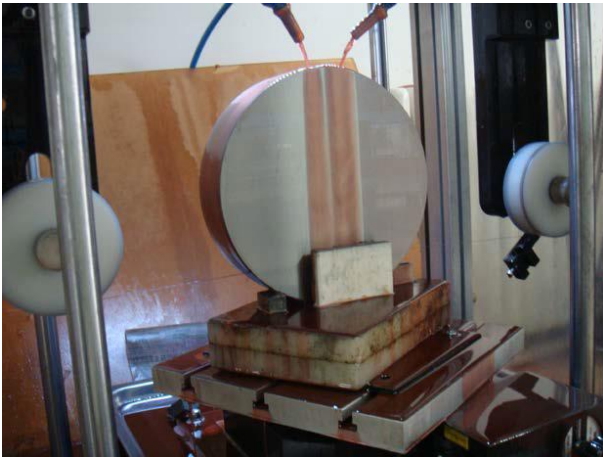
Test 1:

Precision Wire Saw - STX-1202



Material:	Tungsten alloy
Testing Object:	Cutting
Wire Type	Diamond wire
Wire Dia.	0.3mm
Cutting speed	0.35mm / min
Sample Resulting Surface Roughness	Ra 1.66um

Application Images:



Note: Max. sample loading Dia. 475mm

Sample Result Images:



Test 2:

Precision Wire Saw - STX-1202

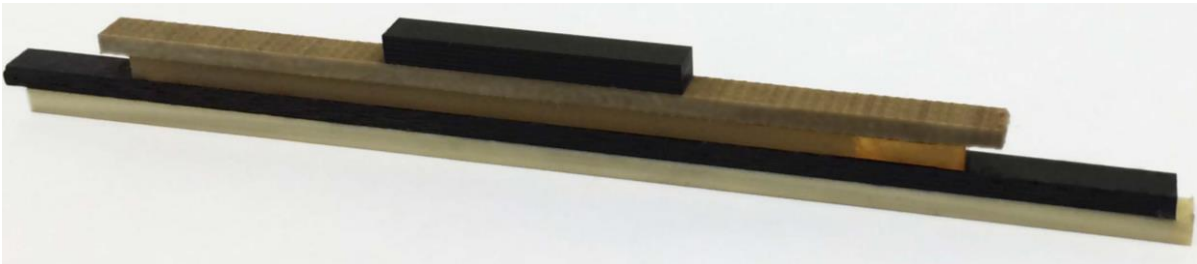


Material:	Lamination Materials (See Below)
Testing Object:	Cutting
Wire Type	Diamond wire
Wire Dia.	0.3mm
Cutting speed	10 mm / min
Sample Resulting Width	5mm

Application Images:



Sample Result Images:



Material included:
(from up to bottom)

- Carbon fiber
- Aramid fiber
- Glass fiber
- Carbon fiber
- Refractory glass fiber

Test 3:

Small Precision Diamond Wire Saw - STX-202A



Material:	Rock
Testing Object:	Thin Piece Cutting
Wire Type	Diamond wire
Wire Dia.	0.3mm
Cutting speed	0.25mm / min
Sample Resulting Thickness	500um

Sample Result Images:



Note: Min. achievable thickness is 95 um, but with low success rate 10%

Test 4:

Small Precision Diamond Wire Saw - STX-202A



Material:	Alumina Ceramic
Testing Object:	Piece Cutting
Wire Type	Diamond wire
Wire Dia.	0.3mm
Cutting speed	0.15mm / min
Sample Resulting Size	30 × 30× 0.47 mm

Sample Result Images:



Note: Min. cutting achievable thickness is 80um, but with low success rate: 10%

Test 5:

Small Precision Diamond Wire Saw - STX-202A



Testing Material#3:	Red glass
Testing Object:	Piece Cutting
Wire Type	Diamond wire
Wire Dia.	0.3mm
Cutting speed	0.15mm / min
Sample Resulting Thickness	50 × 45 × 0.16 mm

Sample Result Images:



Note: Min. achievable thickness is 100um, but with low success rate: 10%