

NCS SERIES

High-Speed Precision Cropping, Shaping, and Dicing



FEATURES

- Capstan design, with minimal number of pulleys, maximizes wire life decreasing CoO
- High wire speed for increased cutting efficiency
- Capable of cutting with wire diameters ranging from 80 to 500µm
- CE safety compliant door interlock switch for added safety
- Numerous process recipes programmable through touch screen interface
- High-Tension version available capable of 150N

TECHNICAL

SPECIFICATION	NCS100	NCS200
Work Piece Dimensions	102 mm L x 102 mm W x 235 mm H	203 mm L x 203 mm W x 235 mm H
Work Table	Optional	
Saw Dimensions	1103.93 mm/43.46" W x 1523.50 mm/59.98" H x 776.13 mm / 30.56" D	
Saw Weight (Max)	470 Kg / 1035 Lbs	
Diamond Wire	Max capacity: Up to 800 m (80 µm) Diameters (Core Size): 80 µm to 400 µm	
Power Requirements (V/f/A/ph)	Std Tension: 208–230/50-60 hz/30/Single High Tension: 208–230/50-60 hz/30/3 phase	
Compressed Air (Variable tension only)	Pressure: 55 N/cm ² Volume: 0.14 m ³ / min	
Yoke Speed (mm/min)	min: 0.001 max: 200	
Wire Speed (m/s)	Standard: 0 - 12 Optional: 0 - 20	
Wire Force (N)	Standard: 10, 20, 30 High Tension: 30 - 150	
Indexing Table Accuracy (mm)	Standard: ±0.015 Optional: ±0.003	

NCS SERIES OPTIONS

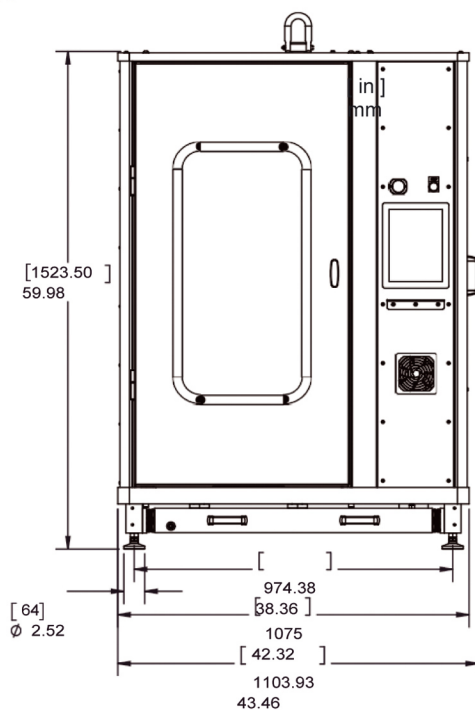
- Tangential Cutting: 0 – 6° of rock for increased cut performance
- High Wire Speed provides up to 20 m/s
- High Tension allows for tension settings up to 150 N
- Standard configuration allows for wire down to 80 µm core size
- Encoder option to improve table accuracy
- Different tables available to fit the most demanding process requirements.
 - Standard Table
 - Precision Table
 - Indexing Tables
 - Tilt and Rotation Table
- Custom Fixturing at request
- Large volume cutting fluid tank with filtration available
- Custom designed stand to hold the NCS at an ergonomic position
- Available MES Connection
- Available Ingot Mounting station

BENEFITS

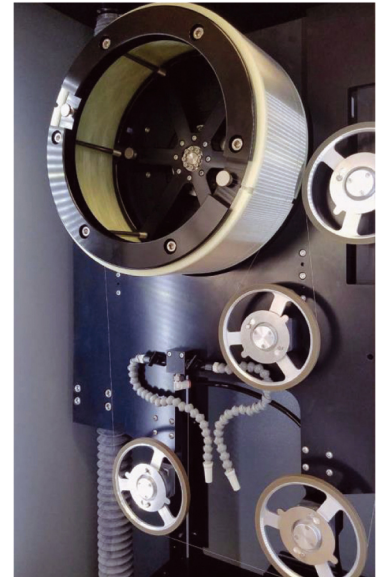
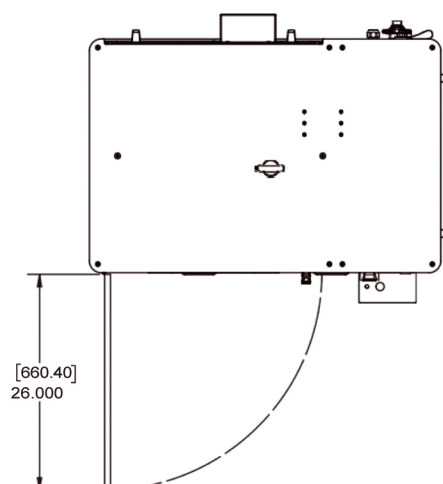
- Ideal for cutting hard and brittle materials such as: silicon, silicon carbide, quartz, fused silicon glass, ceramics, graphite, germanium, etc.
- Increased working speed, quality and versatility over conventional slurry and blade
- Efficient wire usage - increases cutting speed and enables wire changes in minutes
- Wire break detection is a standard feature

FOOTPRINT

Front View



Top View



Side View

