

NCX250 Single Wire Saw

High-Speed Precision Cropping, Shaping, and Dicing of Super-hard Materials



FEATURES

- Reel-to-reel design ideal for the slicing of super-hard materials such as SiC and Sapphire
- Minimally destructive, low-kerf slicing with diamond wire increases yield by saving material
- Simple, robust design minimizes maintenance costs and reduces downtime
- Operator-friendly HMI allows for simple programming of recipes and ease of use
- Tangential cutting method for increased surface finish quality and decreased cut time
- PLC controlled tension system using load cells for feedback for accurate wire tension required for different wire sizes.
- Multi-wrap option available to cut multiple slices in a single action increases throughput

TECHNICAL

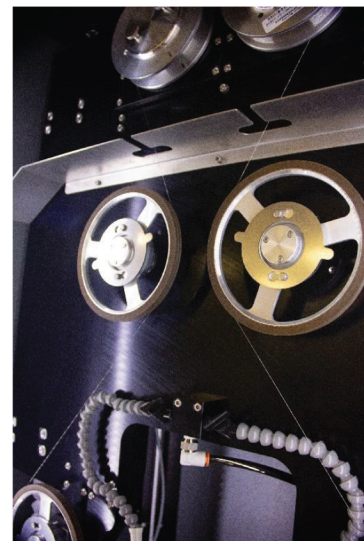
SPECIFICATION	NCX250
Work Piece Dimensions	250 mm x 250 mm x 235 mm
Work Table	Optional
Saw Dimensions	W: 1104 mm / 43.46" H: 2047 mm / 80.56" D: 924 mm / 36.37"
Saw Weight (Max)	583 Kg / 1285 Lbs
Diamond Wire	Max capacity: Up to 15km of 175µm core wire
Power Requirements (V/f/A/ph)	208 – 230 V / 50-60 Hz 30 Amp Single phase
Yoke Speed (mm/min)	min: 0.001 max: 200
Wire Speed (m/s)	max: 20 m/s
Tension	up to 40 N
Fluid Tank	70 Liter / 18.5 Gallon
Indexing Table Accuracy (mm)	Standard: ±0.015 Optional: ±0.003

NCX250 OPTIONS

- High Precision Encoder option to improve table movement accuracy to <±0.003mm
- Variety of tables available to fit the most demanding process requirements
 - Rotation Table
 - Tilt Table
 - Automated Tilt and Rotation Table
 - Manual 90° Dicing Table
- Custom Fixturing at request
- Fluid filtration via filter skid available by request
- Multi-wrap capability
- Available MES Connection

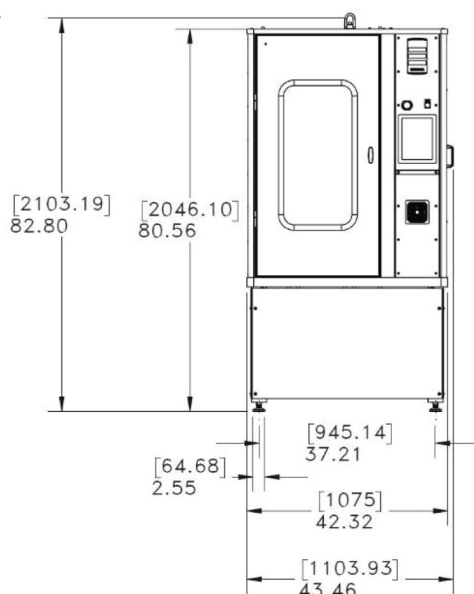
BENEFITS

- Ideal for cutting hard and brittle materials such as: silicon, silicon carbide, quartz, sapphire, fused silicon glass, ceramics, graphite, germanium, etc.
- Increased working speed over conventional slurry process
- High-end Bosch controls ensures process stability through the duration of a cut
- Efficient wire usage - increases cutting speed and enables wire changes in minutes
- Wire break detection is standard

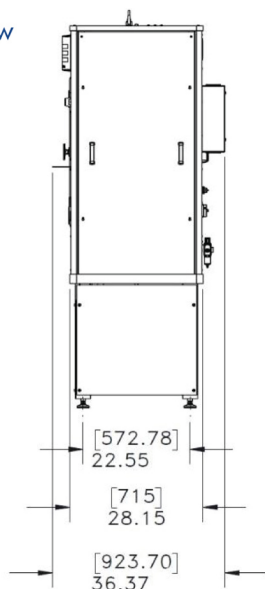


FOOTPRINT

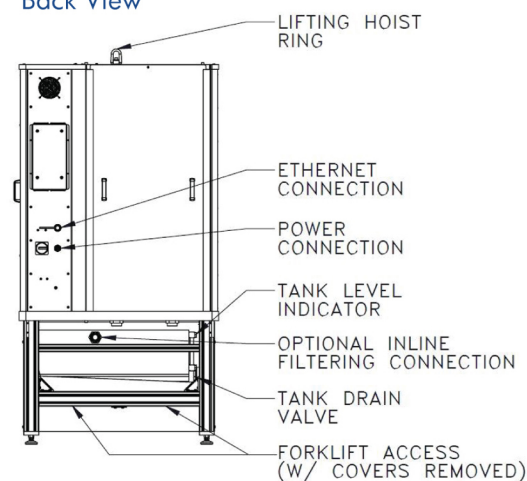
Front View



Side View



Back View



Top View

