



EDM NETWORK, INC.

Quality EDMs & High Speed Mills

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EDMMax Diamond Abrasive Saws

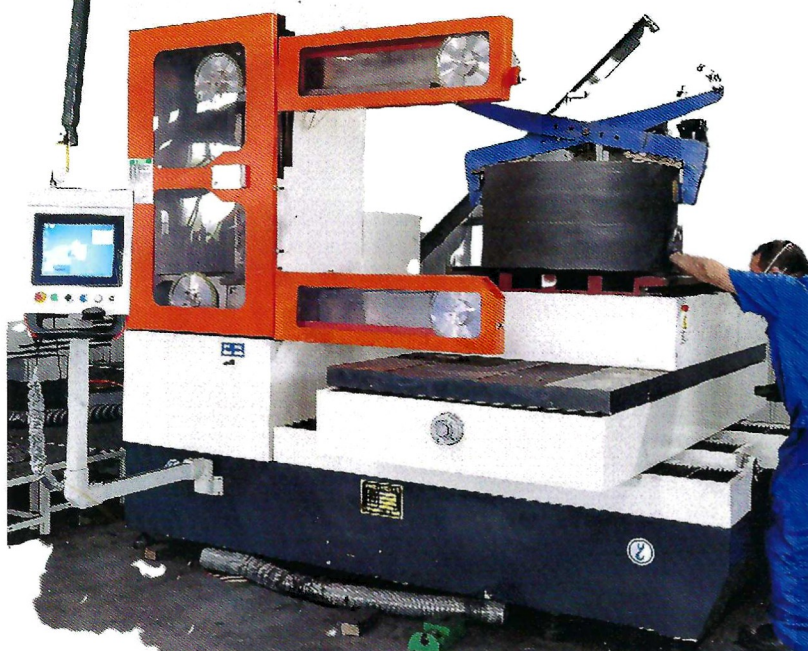


EDMMax 865S Diamond Abrasive Reciprocating Saw

Diamond Abrasive Saws are 2-axis CNC machines utilizing a steel wire from .2mm up to 1.2mm in diameter and coated with PCD particles for abrasive machining.

EDMMax 1000RS Diamond Abrasive Ring Saw

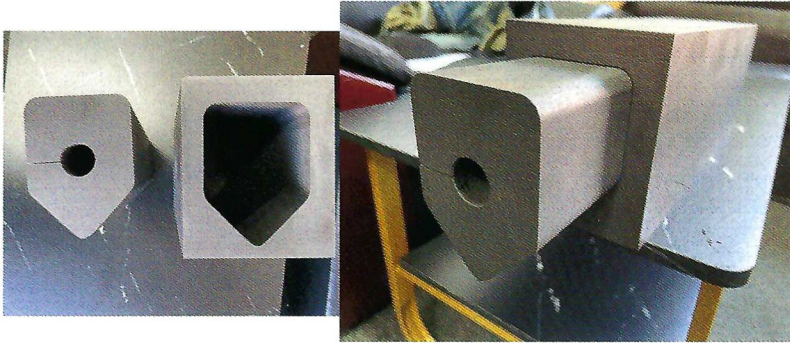
These saws are well suited for cutting composites, ceramics, graphite, plastics, SIC, G10, and even stone.



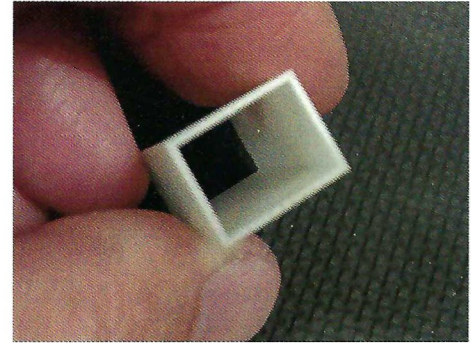
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Reciprocating Diamond Abrasive Saw

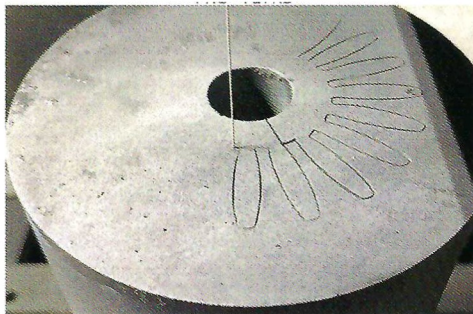
The steel blade in .2, .25, .3 and .37mm diameters is loaded onto the reversible drum, about 150 meters length. It is then fed through the part ID or OD and moves at a speed of about 3 meters/second. The PCD .30 - .60 microns in size, removes the material in its programmed 2-axis path. The wire reverses direction at the end of its length, then cuts in the opposite direction until the cut is complete, briefly pausing as it reverses direction.



Graphite Continuous Casting Die 12" high



G10 Rectangular Part, with internal .012" corner radii



Complex 2D shapes can be imported in DXF format ●



G10 Composite



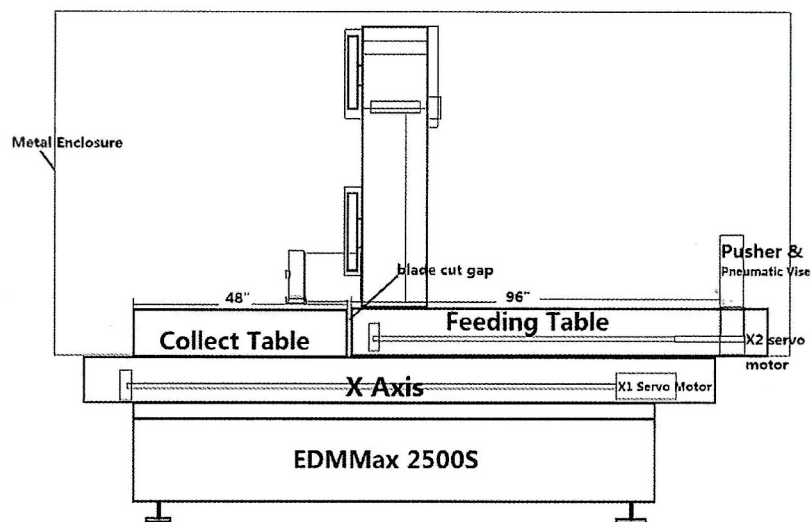
Graphite Electrode 6" high

Typically, we use vacuum, oil or water to collect the dust from the cutting. Ten (10) micron filters remove the dust from the oil or water solution. These are single use filters. The steel wire can last up to 100-150 hours depending on the material being cut. The plated wire is sold in spools of about 1000 meters, so multiple machine loads come from one spool. Average cost of consumables is about \$1.00-\$1.50/hr. for wire and filters. These reciprocating saws range in cutting envelopes from 450x350x400mm to 1000x800x400mm.

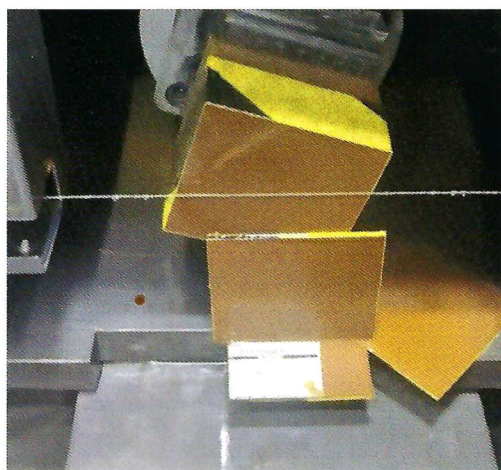
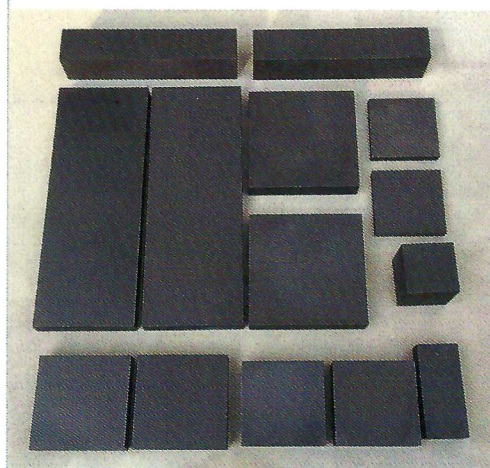
Ring Abrasive Saw

Ring Saw EDMMax 2500RS, graphic below, with optional feeding table to hold up to 48" x 96" sheets, 6-8" thick. X-2 servo motor feeds the sheets in the X direction to allow cutting to programmed lengths.

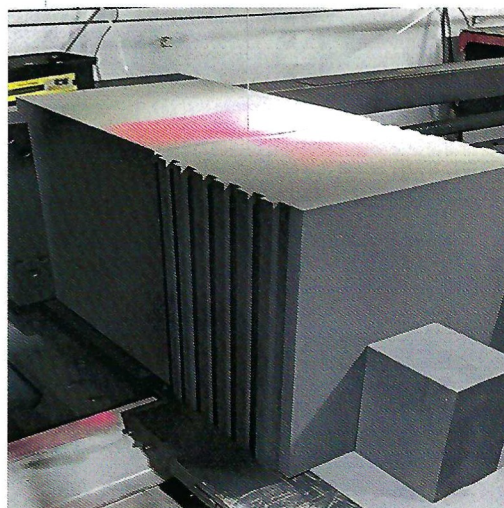
Feeding table can be removed by overhead crane or forklift to allow for full 2-axis shaped cuts.



Front View

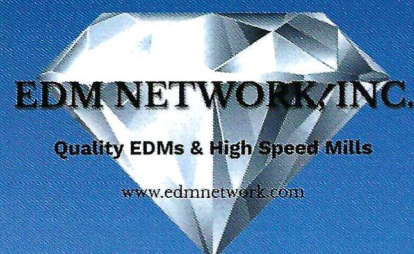


Optional Rotary Attachment



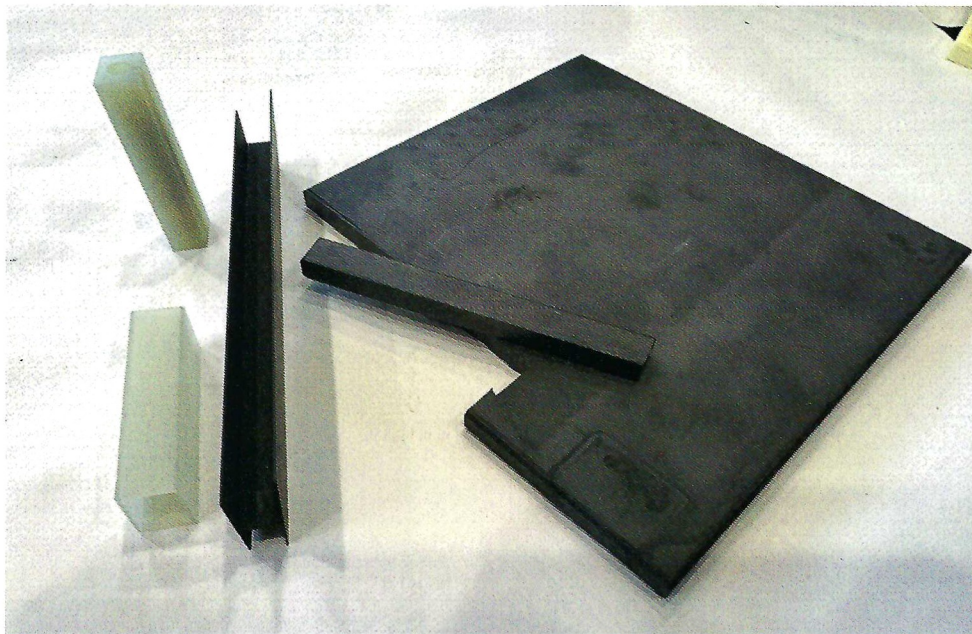
Large 2D shapes standard

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Advantages of the Abrasive Saws

- Sharp corners inside and outside, as small as .005"R
- Sharp edges top and bottom
- Tall parts up to 600mm high
- Straight walls
- Dust free with vacuum water or oil options and full enclosure
- Fine Finishes: Graphite - 35Ra
- Low operating cost, approx. \$1.00-\$1.50/hr.
- Easy to setup and operate
- Affordable!



G10, Graphite, SIC

Reciprocating Diamond Abrasive Saw

EDMMax 433S: 450 x 350 x 400mm
EDMMax 543S: 550 x 450 x 400mm
EDMMax 654S: 630 x 500 x 400mm
EDMMax 865S: 800 x 630 x 500mm
EDMMax 1800S: 1000 x 800 x 500mm

Ring Diamond Abrasive Saw

EDMMax 656RS: 630 x 500 x ⁵⁰⁰~~700~~mm
EDMMax 866RS: 800 x 600 x ⁵⁰⁰~~700~~mm
EDMMax 1000RS: 1000 x 800 x ⁵⁰⁰~~700~~mm
EDMMax 1500RS: 1500 x 1000 x ⁶⁰⁰~~700~~mm
EDMMax 2500RS: 2500 x 1250 x ⁶⁰⁰~~700~~mm

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