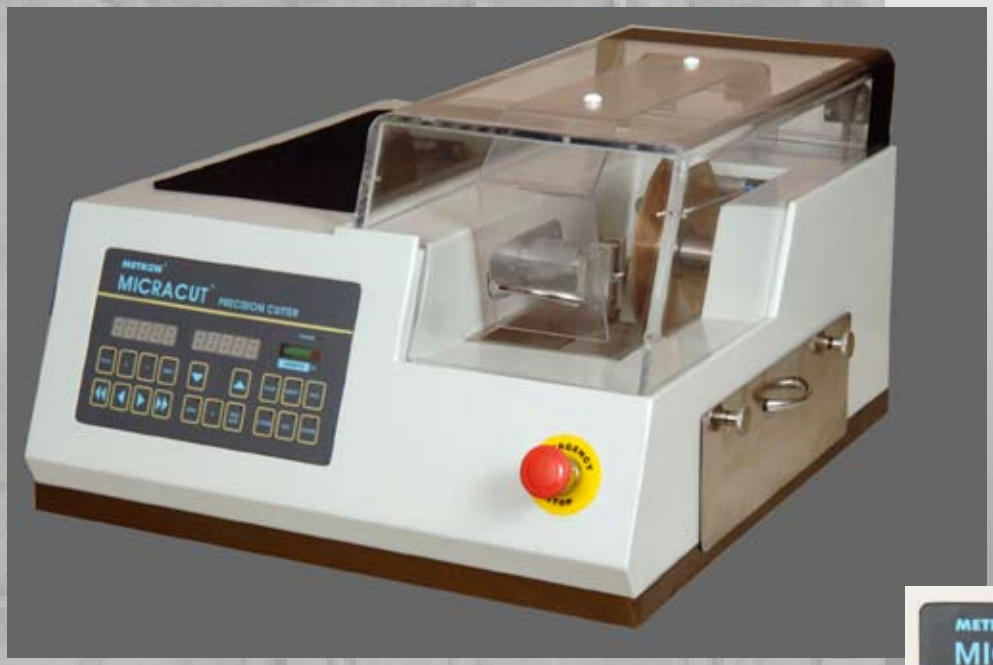
MICRACUT 175

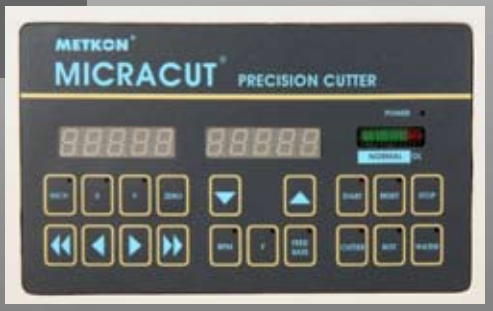
High Speed Precision Saw

PACE TECHNOLOGIES



MICRACUT
High Speed Wafering Saw

Applications:
-Metals
-Ceramics
-Polymers
-Composites
-Aerospace
-Electronics
-Biomaterials



High Speed Precise Cutting

- **Precise serial cutting**
- **High reproducibility**
- **Easy to use**
- **Grinding thin sections**
- **Flexible**
- **Ideal for all materials**
- **User friendly**

The MICRACUT 175 is a variable speed precision wafering saw for sectioning materials with extreme accuracy. It is very useful for sectioning metals, ceramics, electronics and other engineered materials.

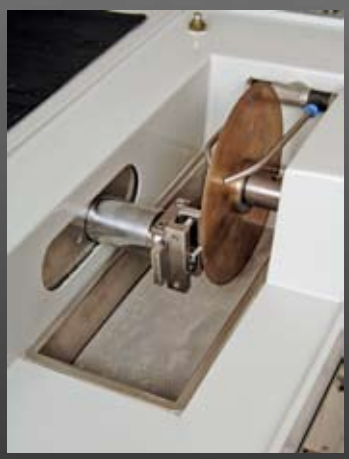
The cutting speed is continuously variable from 400 to 4000 rpm. Accurate alignment and positioning of the specimen with the wafering plate is obtained with a micrometer.

Features - MICRACUT 175

- Simple to use (no programming skills required)
- Microprocessor controlled
- Automated feed with adjustable feed rate
- Heavy duty aluminum frame
- Motorized x-direction with 2 micron (0.0001 inch) accuracy X-axis range of 2.2 inches (55 mm) -4-in (100 mm) y-direction range
- Accepts wafering blade diameters up to 7-in (174 mm) -2-in (50 mm) cutting capacity (4-inch or 100 mm with sample rotation)
- Variable wheel speeds from 400-4000 rpm
- Touch pad control panel
- Grinding cup wheel (optional)

Specimen Fixturing Vises

All the specimen vises for the MICRACUT 175 have dovetail plates to enable the operator to fixture the sample on to the vise prior to attaching to the cutter. Fixturing of round, square, elongated and other irregularly shaped specimens can be easily accomplished.



Description:

Microprocessor controlled, with variable cut-off wheel speed from 400 to 4000 rpm, 400 Watt motor, 2-inch cutting capacity (4-inch with rotation), load application up to 6000 grams, automatic feeding with adjustable feed speed, motorized positioning system with digital readout, positioning accuracy to 2 microns, touch-pad control panel for parameter settings, last settings retained in memory, with built-in sample rotation and recirculation cooling unit (Part No. 17-01)

Technical Specifications:

Cutting capacity	2-inches (50 mm) 4-inches (100 mm) with rotation
Positioning range	X-direction: 2.2 inches Y-direction: 3.9 inches
Feed rate	0.24 - 3.54 inches/minute (0.01 - 1.5 mm/second)
Cutting force	Max. 6000 grams (60 N)
Cutting speed	400-4000 rpm
Voltage	110 volts
Motor	400 Watt
Recirculating tank	1.2 gallons
Wheel size	Max. 7-inch (0.5-inch arbor)
Micrometer adjustment	0.0 - 1.0 inches (0-25 mm)
Positioning accuracy in X-direction	2 microns

Specimen Vises

Universal specimen vise Micracut 175/200	GR 0210
Universal specimen vise	GR 0400
Double saddle specimen vise	GR 0401
Circular specimen vise (1.25” dianeter)	GR 0402
Irregular shaped specimen vise	GR 0403
Vise for adhering specimens	GR 0404
Teardrp specimen vise (0.7-1.6” diameter)	GR 0439
Cutting table attachment for manual cutting of large flat specimens and PCB’s	GR 0211

Wafering Blades

Description	4-inch	5-inch	6-inch
Fine grit / low conc.	WB-0040LC	WB-0050LC	WB-0060LC
Medium grit / low conc.	WB-0045LC	WB-0055LC	WB-0065LC
Medium grit / high conc.	WB-0045HC	WB-0055HC	WB-0065HC
CBN blades	WCBN-0045	WCBN-0055	WCBN-0065

Accessories

Description	Catalog Number
DIACUT Dressing Sticks (1/2” x 1/2” x 4 1/2”)	DRES-0010
DIACUT water-based cutting fluid (32 oz)	WL-3000-32

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