

MICRACUT 200[®] Micro Star 2000, inc.

MICRACUT[®] 200 is a micro-processor controlled high speed automatic precision cut-off machine with moving table. It is used for precise and deformation-free cutting of "Metals, Ceramics, Electronic Components, Crystals, Composites, Biomaterials, Sintered Carbides, Minerals, etc."

- Fully automatic operation ...
- Preset constant feed rate ...
- Adjustable cutting force ...
- Wheel speeds up to 4000 rpm ...
- Accepts wheels up to 175mm (7") dia. ...
- Accurate X & Y axis positioning ...
- Inch or Metric digital display ...
- Sample rotation ...
- Last parameter settings retained in memory ...

Design & Operation

The MICRACUT 200[®] consists of a precisely manufactured heavy-duty aluminum frame, providing a stable and vibration-reducing base. Only precision components have been utilized to create a reliable and accurate instrument. The cutting compartment is fully enclosed by a transparent hood which is equipped with an interlocking safety switch.



The powerful DC motor can be programmed from the front panel and offers cutting speeds from 400 up to 4000 rpm, which allow low and high-speed cutting. By moving the t-slotted cutting table, the MICRACUT 200[®] is capable of cutting larger and longer specimen.

A wide range of clamping tools and accessories are available for the instrument to give it a tremendous flexibility, including a motorized x-axis table, which is capable to position the specimen with 2 Micron accuracy.

The height of the cut-off wheel (Z-axis) can be adjusted by 45 mm, which allows compensating for the wear of the wheel. Diamond, CBN and abrasive cut-off wheels up to 200 mm diameter can be used. Different flange sets are available which can be selected for either maximum cutting capacity or maximum wheel support.

The feed rate from .02-1.5 mm/sec may be pre-selected on the front panel and will be maintained automatically, resulting in perfect cuts every time and eliminating sample and machine damage.



Specifications

MICRACUT 200®

Automatic High Speed Precision Cut-off Machine, with moving table cutting system, microprocessor controlled, with variable cutoff wheel speed from 400 to 4000 rpm, 800 watt cutting motor, automatic feeding with adjustable feed speed, motorised positioning system with digital readout, touch pad control panel for parameter settings, last settings retained in memory, with built-in recirculation cooling unit, complete and ready for operation.

Without clamping tools specimen vises.

115 V, 60 Hz, 1 phase

Order No: 43 00 10

Technical Data

Cutting Motor	800 Watts
Rotational Speed	400-4000 rpm
Cut-off wheel size	Ø 100-203 mm
Cutting Table	190x196 mm
Positioning ranges	Z: 45 mm Y: 180 mm X: 35 mm
Cooling Unit	4 lt.
Dimensions	880x880x620mm
Weight	80 kg.

Please state mains voltage

All specifications are subject to change without notice.



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Clamping Tools

- 43 20 20 Automatic T-slotted table for digital positioning and digital readout in the X-axis with 2 microns positioning accuracy.
- 43 20 21 Stand for manual positioning in the X-axis. To be used together with specimen vises.
- 43 20 22 Quick acting clamping vise assembly.
- 43 20 23 Vertical Clamping Device with clamping shoe.

Specimen Vises

- 43 20 03 Universal Specimen Vise
- 43 20 04 Specimen vise (teardrop shape) for specimens 18-40mm.
- 43 20 05 Specimen vise (teardrop shape) for specimens 5-20mm.
- 43 20 06 Specimen vise for irregular specimens.
- 43 20 07 Specimen vise for adhering specimens.
- 43 20 08 Specimen vise for round cylindrical specimens (max. Up to 40 mm dia).
- 43 20 09 Specimen vise with accurate centering of specimens (up to 12 mm dia).

Flange Sets

- 43 20 10 Set of Flanges, Ø75 mm, suitable for 12,7 and 25,4 mm arbor dia.
- 43 20 11 Set of Flanges, Ø100 mm, suitable for 12,7 and 25,4 mm arbor dia.