PRECISION CUTTING

MICRACUT

125/150

MetLab Corporation

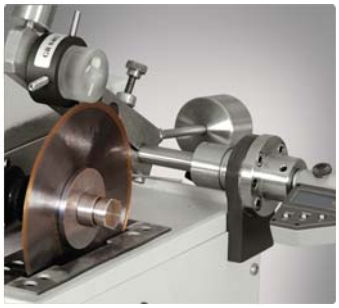
MICRACUT®
125/150

MICRACUT precision cutters are used for precise and deformation-free cutting of “Metals, Ceramics, Electronic Components, Crystals, Composites, Biomaterials, Sintered Carbides, Minerals, etc.” MICRACUT has its place in virtually any metallurgical, geological, electronics, research, biomedical or industrial laboratory.The applications are endless.

MICRACUT 125

MICRACUT 125 accepts diamond wafering blades up to 125 mm(5”) diameter and the wheel speed is continuously variable from 0 to 600 RPM. Gravity feed and drag lubrication make the MICRACUT 125 easy and convenient to use. The coolant tray can be removed for cleaning without having to remove the blade. Most sample configurations can be gripped with the variety of specimen vises which are available. The sample holding arm incorporates a digital micrometer adjustment which enables the operator to place the sample precisely where the cut is desired. Dead weights in 25 gram increments are applied directly to the arm. The sliding weight at the back of the arm allows intermediate forces to be applied. Available blade dressing chuck dresses the diamond disc while sample cutting is continued. Once the cut is done, MICRACUT125 automatically stops and sounds an audible signal to notify the operator that the cutting squence is finished.


MICRACUT 125 Low speed saw


Low deformation cutting


Splash guard supplied as standard


Built - in micrometer for precision sectioning

Design & Operation

MICRACUT 125 and MICRACUT 150 are capable of cutting most materials such as, brittle or ductile metals, hard or soft metals, composites, ceramics, rocks, biomaterials, laminates, etc. They are designed for cutting all types of materials with minimal structural deformation.The structural integrity of the sample is maintained through MICRACUT's design and operation. Additionally, low kerf-loss and sample holding versatility makes the MICRACUT an essential part of the modern day laboratory. The cut surface is ready for microscopic examination with minimal polishing.

MICRACUT 150

MICRACUT 150 accomodates diamond and abrasive wheels up to 150 mm (6") diameter and the speed range is between 0 and 1000 rpm. The gravity feed loading design minimizes sample deformation.The sliding weight arm with counterweight allows precise force application. The digital micrometer enables the operator to set the cutting width with a resolution of 1 micron. The digital micrometer is interchangable and the customer can mount other types of micrometers if and whenever required. The coolant tray is removable from the front of the instrument for easy cleaning.

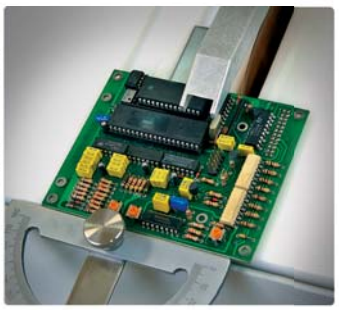
MICRACUT 150's cutting chamber is fully enclosed by a transparent hood. Blade dresser is optionally available. At the end of the cut, an audible signal notifies the operator.

Optional Cutting Table Attachment is available for manual cutting of extra flat large specimens and PCB's.

MICRACUT 150 Precision saw

Sliding weight arm conveniently placed

A variety of specimen vises are available for different applications



Cutting table attachment to cut flat specimens and PCB's

Specifications

MICRACUT® 125

MICRACUT 125 Low speed precision cutter, 50 W powerful DC motor, variable speed from 0-600 rpm, built-in digital micrometer, counterbalanced feed, automatic cut-off switch, with built-in coolant system and ready for operation. / Without specimen vises.
Order No: 16 01
Accessories:
GR 0406 Swivel arm unit for angular cutting.
GR 0408 Dressing Unit for MICRACUT 125

MICRACUT® 150

MICRACUT 150 Precision cutter,with touch-pad controls, 100 W powerful DC cutting motor, variable speed 0-1000 rpm, with digital micrometer cross feed for specimen positioning, counterbalanced sliding weight system,removable cooling unit, automatic cut-off switch, for cutting discs of upto 150 mm diameter and ready for operation. / Without specimen vises.
Order No: 16 03
Accessories:
GR 0212 Cutting Table Attachment for manual cutting of extra flat large specimens and PCB's on MICRACUT 150
GR 0409 Dressing Unit for MICRACUT 150

MICRACUT-125 MICRACUT-150

Order No	16 01	16 03
Cutting Power, W	50	100
Positioning range, X-axis (mm)	25	25
Wheel speed, (rpm)	0-600	0-1000
Cutting Method	Chop	Chop
Wheel diameter, (mm)	Ø125	Ø150
Cutting Capacity ø, (mm)	Ø40	Ø50
Size W+(Mic.) x D x H, (cm)	42 x 38 x 31	51 x 43 x 34
Weight, (kg)	25	28
Mains, (V)	1 phase, 110V, 50/60Hz.	1 phase, 110V, 50/60Hz.

* Other voltages and frequencies avaibable upon request.
Please state when ordering.
All specifications are subject to change without notice.

Specimen Vises & Flanges

GR 0410 FLANGE SET Ø 75 mm
(for arbor dia Ø 12.17 - Ø 25.4)

GR 0411 FLANGE SET Ø 100 mm
(for arbor dia Ø 12.17 - Ø 25.4)

GR 0400
UNIVERSAL SPECIMEN VISE

GR 0401
SPECIMEN VISE FOR LONG
SPECIMENS

GR 0402
SPECIMEN VISE FOR AROUND AND
MOUNTED SPECIMENS Ø 32 mm

GR 0403
SPECIMEN VISE FOR IRREGULARLY SHAPED
SPECIMENS

GR 0404
SPECIMEN VISE FOR ADHERING
SPECIMENS

GR 0405
SPECIMEN VISE FOR
BIOMEDICAL SAMPLES

GR 0406
SWIVEL ARM UNIT FOR ANGULAR
CUTTING

GR 430
SPECIMEN VISE (TEARDROP SHAPE)
FOR SPECIMENS Ø 18-40 mm

GR 0431
SPECIMEN VISE (TEARDROP SHAPE)
FOR SPECIMENS Ø 5-20 mm

GR 0434
SPECIMEN VISE FOR ROUND AND
MOUNTED SPECIMENS UPTO
Ø 40 mm

GR 0453
FASTENER VISE FOR LONGITUDINAL SECTIONING
OF SCREWS, FASTENERS TUBES, ETC.
FROM 12 to 45 mm. IN LENGTH