

EXTEC® Labcut 1010

Low Speed Diamond Saw

Item List & Accessories · Specs

Related Products



The EXTEC Labcut 1010 Low Speed Diamond Saw is a convenient preparation instrument in the laboratory and is designed for the precision cutting of a wide variety of materials. Samples can be cut with minimal damage and deformation. The universal design cuts fragile and soft materials that cannot be handled by standard high speed cutoff machines. Variable wheel rotation speeds range from 0 to 500 rpm for precise cutting. A variety of sample holders are available, making the Labcut 1010 even more versatile. This includes the rapidcut precision attachment which reduces the cutting time and gives a high quality surface finish.

The Labcut 1010 is fabricated from a Cast-Aluminum Frame with stainless steel components which provides stability and corrosion resistance. The drive is transmitted to the wheel shaft from an advanced 1/10 HP belt driven motor. The sample arm is pivoted and can be counter-balanced to give low loading conditions on the specimen. It features a 25mm micrometer movement that allows positioning of the sample with respect to the wheel. A convenient, Front-Loading, Lubricant Tray is easily accessible and has an external tray which can be set for 3 inch, 4 inch, 5 inch, or 6 inch wheels.

The Labcut 1010 will accept 3 inch (75mm), 4 inch (100mm), 5 inch (125mm), and 6 inch (150mm) diameter EXTEC Diamond Wafering Blades. Wheel clamps provide rigid support to these thin blades. A splash guard safety shield covers the rotating diamond wafering blade. If this is removed the machine will shut down.

An end point microswitch with associated indicator can be set to terminate the cutting process at a predetermined depth. The wheel rotation can be varied from 0 to 500 rpm.

A digital rpm indicator with variable speed control allows the operator to set a precise, repeatable cutting speed irrespective of wheel size, thickness of material and specimen loading.

APPLICATIONS

Materials:	Slicing samples of metals, alloys, composites.
Ceramics:	Slicing samples of ceramics.
Semiconductor:	Cutting Semiconductor crystals and sectioning embedded devices.
Pathology:	Cutting bone and teeth material and preparing thin sections. Cutting embedded tissue.
General Physics:	Mounting and slicing single crystals along a particular axis.
Geology:	Preparing mineralogical sections of rocks.
Paleontology:	Preparing sections of fossils in rocks.

ORDERING INFORMATION	
CATALOG NUMBER	DESCRIPTION
10010	EXTEC LABCUT 1010 (110V, 60Hz) Includes: Screw holder for irregular samples, set of 3 weights, tools and digital rpm indicator, and splash safety shield.
10015	EXTEC Screw Holder for Irregular Samples
10020	EXTEC V-Block Holder Small
10022	EXTEC V-Block Holder Large
10024	EXTEC Double Clamp Holder
10026	EXTEC 1" to 1/4" (25-35mm) Cylindrical Holder
10028	EXTEC Ceramic Disc Holder with 3 Discs
10030	EXTEC Mounting Plate 1 1/2" x 1" (38mm x 25mm)
10031	EXTEC Mounting Plate 1 1/2" (38mm) dia.
10032	EXTEC Mounting Plate 1" (25mm) dia.
10034	EXTEC Mounting Stubs 3/4" (19mm) dia. Pkg/5
10035	EXTEC PCB Holder
10038	EXTEC Tilttable 45 degree Plate Holder discontinued
10040	EXTEC Rotational Holder
10042	EXTEC 2 Axis Goniometer for Crystals
10043	EXTEC Splash Safety Shield
10048	EXTEC Vacuum Chuck
10050	EXTEC Rapidcut Precision Attachment

SPECIFICATIONS

ELECTRIC MOTOR :	1/10 HP DC Motor Available in 115 or 220 Volt.
WHEEL SHAFT :	1/2" (12.7mm) diameter double bearing, adjustable to eliminate lateral movement. Variable speed between 0 and 500 rpm.
SPECIMEN HOLDER :	Counter-balanced holder with set of 3 weights. Micrometer for lateral movement 0-25 mm. Standard specimen holder provided.
WHEEL SIZE:	3" (75mm), 4" (100mm), 5" (125mm), 6" (150mm) wheels used as standard.
LUBRICANT RESERVOIR :	Front loading tray which is raised and fixed when in position.
END POINT :	A microswitch for stopping the cutting process at a preset depth. Can be adapted to all wheel sizes.
DIMENSIONS :	12" (300mm) width x 7 1/4" (185mm) height x 12" (300mm) depth.
WEIGHT :	40 lbs. (18kg)



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