



EXTEC® Labcut 150 – Variable Speed Precision Diamond Saw

Precision Cutting Without Deformation

Item List & Accessories · Specs

Related Products



The **EXTEC® Labcut 150 Variable Speed Precision Diamond Saw** is an attractive, modern styled laboratory instrument designed for precision cutting of a wide variety of materials. Samples can be cut with minimal damage and deformation. The universal design and variable speed aid the precision cutting of fragile and soft materials. Variable wheel rotation speeds range from 0 to 1000 rpm. A variety of sample holders add to the 150's versatility. This includes the Rapidcut Precision Attachment which reduces cutting time and results in a high quality surface finish.

The **Labcut 150** is ruggedly constructed from a cast-aluminum frame with stainless steel components providing stability and corrosion resistance in a molded water resistant cabinet. The EZ-DRO™ Easy Keypad operates the powerful belt driven AC 1/4 HP motor with inverter. The sample arm is pivoted and can be counterbalanced to provide low loading conditions on the specimen. It features 25mm micrometer movement that allows positioning of the sample with respect to the wheel.

The **Recirculating Coolant System** consists of a coolant reservoir with an adjustable power supply, liquid recirculation pump, twin coolant tubes, stainless perforated tray, sample retrieval tweezers and sump drain tool. The system provides adequate coolant flow to the twin coolant tubes located on either side of the cutting wheel. The Recirculating Coolant System accepts EXTEC cutting fluids.

The **Labcut 150** will accept 3 inch* (75mm), 4 inch (100mm), 5 inch (125mm) and 6 inch (150mm) diameter diamond wafering blades and abrasive cut-off wheels. A transparent polycarbonate splash/safety shield with an integrated safety switch is fitted to prevent operation when the shield is open. An endpoint microswitch indicator can be set to terminate the cutting process at a predetermined depth.

An optional **sample rotation attachment** (model 1000-100) is available featuring a modified sample arm with a motor drive and variable speed controller which help to eliminate blips and reduces cutting time.

**3 inch (75mm) requires set of optional flanges*

Features

- Accepts 3 inch (75mm) , 4 inch (100mm), 5 inch (125mm) and 6 inch Wheels and Blades
- Variable wheel rotation speeds range from 0 to 1000 rpm
- EZ-DRO™ Easy Keypad
- Powerful Belt Driven AC 1/4 HP Motor with Inverter
- Designed for Stability and Corrosion Resistance
- Pivoted Specimen Arm with 25mm Micrometer Movement
- Transparent Polycarbonate Splash/Safety Shield
- Recirculating Coolant System

- Adjustable Power Supply
- Liquid Recirculation Pump
- Twin Coolant Tubes
- Stainless Perforated Tray



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.

SPECIFICATIONS

Spindle:	Stainless Steel ½ inch (12.7mm) diameter with standard flanges, belt driven.
Motor:	1/4HP (0.18kW) 100-115 volt or 220-240 volt
Wheel Speed:	EZ-DRO™ Easy Keypad Range 0 to 1000 rpm
Wheel Size:	3* inch (75mm), 4 inch (100mm), 5 inch (125mm), 6 inch (150mm) *3 inch (75mm) requires set of optional flanges.
Speed Display:	Speed displayed digitally on front panel EZ-DRO keypad. Range 0-1000rpm
Sample Holder:	Counter balanced pivoting arm, variety of sample holders can be attached

End Point:	Microswitch for stopping the cutting process at a preset depth.
Micrometer:	0-25 mm (>1 inch) 0.01mm (< .0040 inch)
Recirculating Coolant System:	Stainless steel perforated tray, power supply, adjustable coolant pump, twin coolant tubes, sample retrieval tweezers, RCS drain tool
Safety Shield:	Polycarbonate Splash/Safety Shield with magnetic integrated safety switch
Dimensions:	Width: 12" (300mm) Height: 8"* (200mm) Depth: 16" (400mm) Main Body Height: 8" (208mm)
Weight:	40lbs (18kg)

ORDERING INFORMATION	
CATALOG NUMBER	DESCRIPTION
10150	EXTEC LABCUT 150 Variable Speed, 3" - 6", includes: 10015 Screw Holder for irregular samples, set of 3 weights, tools and digital rpm indicator, 10153 splash guard and 12050 cutting fluid.
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
10040	EXTEC Rotational Holder
10041	EXTEC Flange Set F/3" Wheel (10010 series requires special coolant tray 10052)
10047 NEW!	EXTEC Vacuum Chuck Complete with Vacuum Pump

10048	EXTEC Vacuum Chuck (requires Vacuum Pump, see 10049 EXTEC Vacuum Pump)
10049	EXTEC Vacuum Pump F/10048 EXTEC Vacuum Chuck
10050	EXTEC Rapidcut Precision Attachment
10052	EXTEC Special Coolant Tray
10053	EXTEC Splash Safety Shield



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