

PowerCut 10™
Abrasive Cut-Off Saw



- ❖ **10" Blade Capacity**
 - ❖ **Powerful 3.5 HP, 3 Phase Motor**
 - ❖ **Impact/Corrosion Resistant Construction**
 - ❖ **Accepts Blades With Either 1¼" or 32 mm Arbor**
 - ❖ **Dual T-Slot Tables Allow Flexible Vise Positioning**

PowerCut 10™


Abrasive Cut-Off Saw

A powerful, bench-top abrasive cut-off saw for sectioning various types and sizes of metallographic samples.

The **PowerCut 10™** uses blades ranging from 8 to 10 inches in diameter, allowing materials up to 3 inches thick to be sectioned. A side port accommodates longer samples such as bar stock.



PowerCut 10™ Features

- ❖ 10-inch diameter blade capacity
- ❖ Blades with either 1¼-inch or 32 mm arbor hole can be used
- ❖ Powerful 3.5 HP (2500 W) motor, 3450 RPM
- ❖ Cutting capacity: Up to 3-inch bar stock
- ❖ Bench top mountable
- ❖ Stainless steel Quick-Slide vise with 3-inch capacity
- ❖ Two (2) T-Slot tables allow front-to-back and side-to-side vise/clamp positioning
- ❖ Optional vertical adjusting clamp available for odd-shaped samples
- ❖ Large, fog-resistant, shatterproof viewing window
- ❖ Illuminated cutting chamber
- ❖ Recirculating coolant system with cleaning hose, 7-gallon capacity
- ❖ Stainless steel coolant tank with removable stainless steel settling pan
- ❖ Counterbalanced motor with direct drive
- ❖ Lubrication fittings on motor hinge allow smooth blade feed
- ❖ Corrosion and impact resistant cover
- ❖ Sturdy cast aluminum base
- ❖ Sealed side-port for cutting long bar stock
- ❖ Electronic brake stops blade for operator safety
- ❖ Safety auto-shutoff switch for cover
- ❖ Emergency shut-off switch
- ❖ Two (2) year warranty – parts and labor
- ❖ Designed & manufactured by Allied in the USA 



Dual vises allow burr-free cutting



T-Slot Tables with Vertical Adjusting Clamps

The optional Cabinet/Stand is also useful for blade, tool and coolant tank storage





Abrasive Cut-Off Blades

Allied's Abrasive Cut-Off Blades are specially formulated for metallographic sectioning. Ideal for reducing thermal damage to minimize structural deformation, they are available in Aluminum Oxide, Silicon Carbide, Diamond or CBN (cubic boron nitride) mineral.

Rubber bonded blades provide excellent wear rates, while resin and rubber/resin provide a cooler cut, making them an excellent choice for harder metals and delicate/brittle materials.

Available in 9" (225mm), 10" (250mm), 12" (300mm) and 14" (350mm) diameter, all blades are standard with an arbor hole that fits both 1¼" and 32mm spindles. Flange blotters are supplied to reduce blade wear and breakage.

PowerCut 10™

Item	Description
5-4000	PowerCut 10™ 230 V 50/60 Hz, 3 Phase

Includes: #5-4005 Quick-Slide Stainless Steel Vise with 3" Capacity, #80-10155 Cutting Fluid, 32 oz., #15-SET Standard Allen Wrench Set, and #80-ASSORT assorted 10" Cut-Off Blades

Accessories:

5-4005	Quick-Slide Stainless Steel Vise with 3" Capacity
5-4010	Quick-Slide Stainless Steel Vise, Low Profile, with 3" Capacity
5-4030	Cabinet/Stand
5-4050	Vertical Adjusting Clamp

Technical Data:

Motor:	3.5 HP (2500 W)
Blade Speed:	3450 RPM
Blade Range:	8-10 inches (200-250 mm) diameter
Arbor:	1¼ inch (32 mm)
Fluid Tank Capacity:	9 gallons (34 L)

Dimensions:	Saw: 24" W x 23" D x 17" H (610 x 584 x 431 mm)
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Weight:	Saw: 168 lb. (76 kg)
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Facility Requirements for Operation:

Inlet Tubing Size (OD):	¼"
Inlet Water Pressure (PSI):	25 min, 50 max 1.76 kg/cm ² /3.52 kg/cm ²

Drain Tube (OD/Length):	1.5"/4 Ft. (1.25" ID)
Drain rate (gal./minute):	1.0 @ 30 PSI 3.78 L/minute

Designed & Manufactured in the USA



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