



BUEHLER®
ABRASIMATIC® 2
AUTOMATIC
ABRASIVE CUTTER

The all new ABRASIMATIC® 2 Abrasive Cutter combines automation with a revolutionary pulse cutting concept for efficient high-quality abrasive cutting.

The operator can choose between two modes of automatic cutting – continuous or pulse feed. In difficult cutting applications, the pulse mode provides a high-quality, burn-free cut surface when other machines would simply stall or burn the sample surface. In both modes of operation, the rotating wheel is fed into the sample by a variable-rate pneumatic feed system.

The ABRASIMATIC® 2 Cutter, powered by a 4 HP (3.0 kw) motor, drives a 10" (254 mm) diameter cut-off wheel and delivers a cutting capacity of up to 3" (76 mm) of solid stock. Its recirculating coolant system, included as standard equipment, incorporates a 7 gallon (27 liter) tank to supply an adjustable flow of coolant to both the cutting wheel and the sample.

The structural components of the ABRASIMATIC® 2 Cutter include a heavy-duty alloy base casting for exceptional rigidity and a corrosion-resistant, glass-reinforced plastic (GRP) hood. The well-lighted, spacious cutting chamber provides easy access for sample loading, unloading and wheel changing.

In addition to its rugged design, power and capacity, the ABRASIMATIC® 2 Cutter offers a number of standard safety and convenience features including:

- Built-in electronic brake to bring the cutter to a full stop within seconds after the unit has been shut off
- Large, shatter-resistant viewing window for monitoring the cutting operation
- Twin left and right-hand cam-activated vises for fast, positive gripping of samples
- T-slot work table
- Side access port to permit the sectioning of long stock
- Hose for washing and cleaning cutting chamber

BUEHLER® ABRASIMATIC® 2

- Front panel mounted low-voltage controls
- Overload protection
- Two year warranty

The ABRASIMATIC® 2 Cutter, available as a table-top or floor-model unit, is designed for high-quality, high-productivity cutting of a broad range of engineering materials. Its capacity, automatic operation and ample power make it the ideal choice for high-volume and repetitive laboratory cutting applications.



Front panel mounted controls allow operator to choose between continuous or pulse feed cutting modes.



T-slot work table with dual cam-activated vises secure samples during sectioning. Optional T-slot Clamping Kit accommodates irregularly shaped samples.

Specifications

No. 95-C1820-260 ABRASIMATIC® 2 Automatic Abrasive Cutter, table model featuring a 4 HP, 3400 rpm motor, electronic brake, 3" solid bar cutting capacity, continuous or pulse feed cutting modes, corrosion-resistant, glass-reinforced plastic hood, heavy-duty, alloy base casting with T-slot table, dual cam-activated vises with 3 $\frac{3}{16}$ " maximum throat depth, pneumatic feed system, lighted cutting chamber, side access port for cutting long stock, clean-out hose, recirculating system with 1/10 HP (75 W), 3 phase motor, divided 7 gallon (27 liter) settling tank, regulating valve, 1" (25 mm) coolant drain, interconnecting hoses and electrical cable. Includes samples of Soluble Oil and six assorted 10" (254 mm) abrasive cut-off wheels. Operating instructions. For 220V/60 Hz/3 phase operation.

No. 95-C1820-460 ABRASIMATIC® 2 Automatic Abrasive Cutter, same as above except 460V/60 Hz/3 phase.

No. 95-C1820-400 ABRASIMATIC® 2 Automatic Abrasive Cutter, same as above except 380-415V/50 Hz/3 phase, 2850 rpm.

Dimensions: 22" W x 27" D x 27" H
(56 cm x 68 cm x 68 cm)

Shipping Weight: 265 lbs. (120 kg)

No. 95-C1825-260 ABRASIMATIC® 2 Automatic Abrasive Cutter, same as No. 95-C1820-260 plus sturdy TECH-MET® sheet metal base cabinet, 36" (91 cm) high and wheeled cart for recirculating system.

No. 95-C1825-460 ABRASIMATIC® 2 Automatic Abrasive Cutter, same as 95-C1825-260 except 460V/60 Hz/3 phase, 2850 rpm.

No. 95-C1825-400 ABRASIMATIC® 2 Automatic Abrasive Cutter, same as 95-C1825-260 except 380-415V/50 Hz/3 phase, 2850 rpm.

Dimensions: 30" W x 30" D x 63" H
(76 cm x 76 cm x 160 cm)

Shipping Weight: 515 lbs. (234 kg)

Note: Filtered, lubricated compressed air required for operation.

Accessories

No. 20-1364 Air Preparation Kit, includes filter, regulator, lubricator and fittings for connection to compressed air line and abrasive cutter.

No. 95-C1823 T-slot Clamping Kit, for clamping irregularly shaped samples which cannot be held in the standard vises.

Consumable Supplies

For a complete listing of BUEHLER® Cut-off Wheels and other consumable products, refer to BUEHLER ANALYST® Section 7: Cutting, Grinding, Mounting and Polishing Supplies for Microstructural Analysis.



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BUEHLER ANALYST®
SECTION

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