



**Models: Automatic Chop Cutter
and Automatic Orbital Cutter**

**Both Chop Action and Orbital
Action Minimize Deformation
of Cut, Quickly and Consistently**

**Models and Options Allow Cutter
to be Customized to Application**

**SMARTCUT System Prevents
Sample and Machine Damage**

**Up to 4.5" (114mm) Diameter
Cutting Capacity**

**Uses 10" and 12" (254-305mm)
Abrasive Wheels**

**BUEHLER[®] DELTA[™] AUTOMATIC
ABRASIVE CUTTERS**



Technical Data

Operation: Automatic Orbital Cutting or Automatic Chop Cutting, both with user selected feed rate, and available with Electronic Brake

Motor Power: 7.5Hp (5.5kW) or 5.5Hp (4.0kW)

Feed Rate: 0.001-0.196 inch/second, 0.003-0.004 inch/second increments, (0.05-5.0mm/second 0.1mm/second increments)

Wheel Size and Speeds: 10" and 12" (254mm-305mm), 2600 rpm (nominal)

Electronics: Microprocessor Controlled with LCD

Controls: Touch Pad Controls for Programmable Functions, 4 User Defined Methods and Push Button Controls for Start, Stop, Pause, Rapid Advance

Programmable Stroke Travel with Automatic Shut-off: 0.03"-6.25", 0.04" increments (1-130mm, 1mm increments)

Languages: English, French, German, Spanish, Portuguese, Chinese, Japanese, Korean

Units: Imperial and Metric

Normal Shipping Weight: 800 lbs. (365kg)

Dimensions with hood open: 46" W x 73" H x 40" D (1080mm x 1860mm x 1040mm)

Dimensions with hood closed: 46" W x 66" H x 40" D (1080mm x 1670mm x 1040mm)

T-Slot Beds & Vises: Two T-Slot Beds with X and Y Cross-slots for most versatile direction positioning of vises*

Coolant Systems Selections:

Large Capacity Recirculating System

Capacity and Flow Rate: 24 gal. (90ℓ) and 6 gal. (22ℓ/min)

Swarf Conveyor System

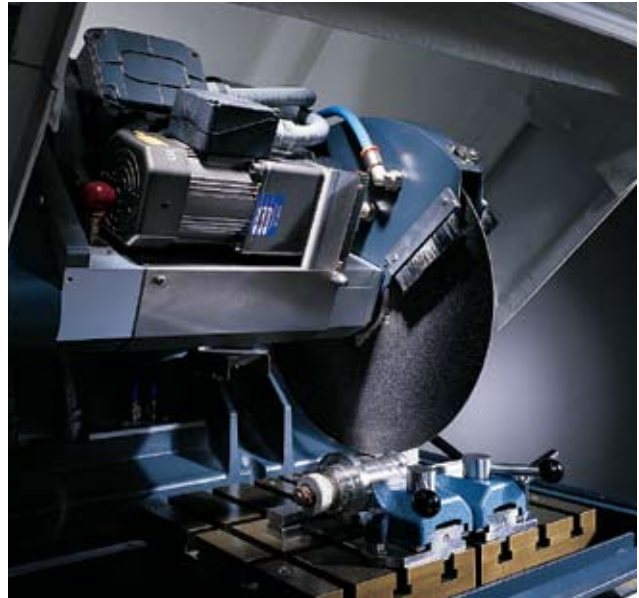
Capacity and Flow Rate: 65 gal. (243ℓ) and 10 gal. (38ℓ/min)

Additional Options: Fume Extractor, Serial Cutting Table, Steel Frame Base Cabinet with Doors and Tool Rack

Vise Options: Sliding Vise for DELTA Automatic Orbital and Chop Cutters, Left Hand and Right Hand*

Speed Vise Kit, medium, for cutting irregular shaped specimens

Vee Block Clamp Kit



The DELTA features a spacious cutting chamber to accommodate large and irregular parts. Four large jets optimize cooling of the sample and wheel utilizing a full 6 gallon (22 liter per minute) flow rate. The cleaning system features a clean out hose and interior waterfall for easy end of day



Orbital action, as compared to a traditional chop action, reduces the area of contact between the wheel and the sample.



The quick disconnect recirculating system provides a generous flow of coolant, dissipates heat and removes debris

Two 10-2526 T-Slot Beds come with the DELTA Cutter; a third can be added.

Select vises are required for specific applications

*Recommended selection for most applications

For a complete listing of Buehler consumable supplies for use with the DELTA Cutter, please refer to Buehler's Consumables Buyer's Guide. Buehler continuously makes product improvements; therefore, technical specifications subject to change without notice.

Motor Size

Suggestion General Application Guide

7.5Hp (5.5kW)
Normal laboratory usage of 3" or greater specimen size or medium production volumes. Medium size steel samples, ferrous/nonferrous and most difficult to cut materials. Metal matrix composites.

5.5Hp (4.0kW)
Specimen size 3" in diameter or less. Lower volume laboratory usage or occasional larger specimens of medium difficulty. Steels ferrous/nonferrous and generally smaller sample sizes.

Choose your motor size based upon your material application and specimen volume.

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