



**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 6" (152mm) Diameter  
Cutting Capacity**

**Uses 14" and 16" (355-406mm)  
Abrasive Wheels**

**BUEHLER<sup>®</sup> DELTA<sup>™</sup> 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:** 10Hp (7.5kW) or 7.5Hp (5.5kW)

**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:** 14" and 16" (355mm-406mm), 1900 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:** 29" W x 73" H x 31" D (748mm x 1860mm x 792mm)

**Dimensions with hood closed:** 29" W x 66" H x 31" D (748mm x 1860mm x 792mm)

**T-Slot Beds & Vises:** Three 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)

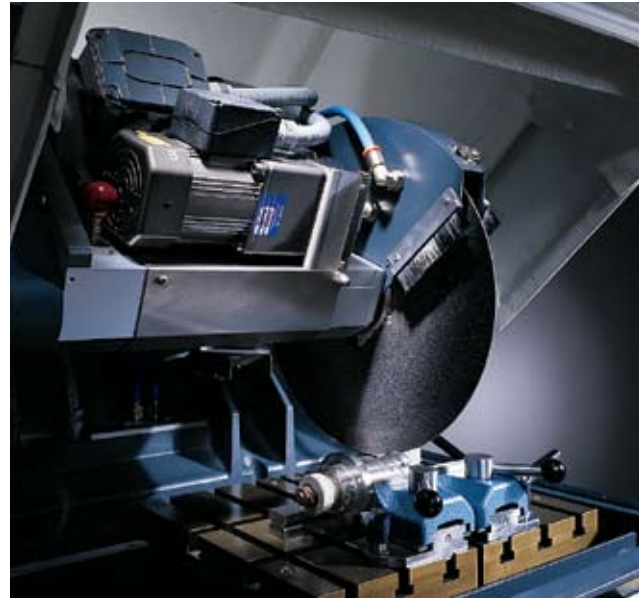
**Vise Options:** Sliding Vise for DELTA Automatic Orbital and Chop Cutters, Left and Right Hand\*

Speed Vise Kit, medium, for cutting irregular shaped specimens

Angle Cutting Attachment

Adjustable Vee Blocks

**Additional Options:** Fume Extractor, and Serial Cutting Table



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.

*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

10Hp (7.5kW) Specimens 4" (100mm) or larger. Heavy laboratory usage or high production volumes or multiple shift operations. Steels, ferrous and nonferrous, difficult to cut materials, titanium, metal matrix composites, super alloys.

7.5Hp (5.5kW) Smaller specimens 4" (100mm) or less. Normal laboratory usage or smaller production volumes. Steels, nonferrous and ferrous and smaller, difficult to cut materials.

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

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**BUEHLER ANALYST® SECTION 1**



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