

BUEHLER®

# DELTA™ 2318 AUTOMATIC ORBITAL CUTTER

## BASIC SYSTEM CONFIGURATION

The DELTA™ 2318 is a rugged, abrasive cutter that increases productivity using patent pending orbital cutting action, SMARTCUT, and programmability. Orbital cutting action minimizes the area of contact, producing perfect cuts quickly and consistently. The SMARTCUT system automatically adjusts the feed rate, eliminating damage to sample or machine and results in excellent cuts for multiple operators and materials. Unit comes standard with three No.10-2326 T-Slot beds with X and Y dual directional positioning, 16" (406mm) and 14" (355mm) wheel capacity, and Base Cabinet with doors.

## MODEL SPECIFICATIONS AND FACTORY INSTALLED OPTIONS FOR DELTA AUTOMATIC ORBITAL ABRASIVE CUTTER

DELTA Cutter with 10Hp (7.5kW) Motor for 200-220V/60Hz/3 Phase .....	10-2318-260
DELTA Cutter with 10Hp (7.5kW) Motor for 460V/60Hz/3 Phase .....	10-2318-460
DELTA Cutter with 10Hp (7.5kW) Motor for 200-220V/50Hz/3 Phase .....	10-2318-250
DELTA Cutter with 10Hp (7.5kW) Motor for 400V/50Hz/3 Phase .....	10-2318-400
DELTA Cutter with 10Hp (7.5kW) Motor for 200-220V/60Hz/3 Phase, with Electronic Brake .....	10-2318B-260
DELTA Cutter with 10Hp (7.5kW) Motor for 460V/60Hz/3 Phase, with Electronic Brake .....	10-2318B-460
DELTA Cutter with 10Hp (7.5kW) Motor for 200-220V/50Hz/3 Phase, with Electronic Brake .....	10-2318B-250
DELTA Cutter with 10Hp (7.5kW) Motor for 400V/50Hz/3 Phase, with Electronic Brake .....	10-2318B-400

## FIELD OR FACTORY INSTALLED OPTIONS

Filter Conveyor, Swarf Removal System .....	10-2333**
Large Recirculating System on Wheels* .....	10-2332**
Serial Cutting Table, 'X' Direction .....	10-2341†
Fume Extractor .....	10-2342**
Smoke Filter Kit .....	10-2342-030
Fume Filter Kit .....	10-2342-031
Ducting Kit .....	10-2342-032
Activated Charcoal Fume Filter .....	10-3350-001
Side Panel Splash Guard (pair) .....	10-2247

## OPTIONAL SYSTEM ACCESSORIES

Additional T-Slot Beds & Vises .....	
T-Slot Bed with 3 T-Slots, standard bed with X-axis vise positioning .....	10-2325
T-Slot Bed with X and Y Cross-slots for most versatile dual directional positioning of vises* .....	10-2326
Sliding, Left Hand Vise .....	10-3529
Sliding, Right Hand Vise .....	10-3530
Angle Cutting Attachment, cuts up to 45° in 5° increments .....	10-3515
Speed Vise Kit Large, for holding irregular shaped samples (pair)* .....	10-3523
Adjustable Vee Blocks (pair) .....	10-3525
Horizontal Clamp for Speed Vise Kit (pair) .....	10-3526

\* Recommended selections for most applications    \*\* Select same voltage as chosen for DELTA Cutter

† If option 10-2341 is chosen, the cutting envelope is reduced by 3/8" (18mm).

## Additional T-Slot Beds & Vises (cont.)

Vee Clamp Block Kit (pair) .....	10-3527
Riser Block for Speed Vise, Large (pair) .....	10-3528
Met Klamp VII Vise for Delta, Left Hand .....	10-2245
Met Klamp VII Vise for Delta, Right Hand .....	10-2246

## Cutting Envelope

**Maximum diameter of sample:** 6" (152mm) with 16" (406mm) wheel: 5" (127mm) with 14" (355mm) wheel

## NORMAL SHIPPING WEIGHT & DIMENSIONS

**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)

## DELTA ORBITAL CUT-OFF WHEELS

DELTA Orbital Abrasive Cutters combined with DELTA Orbital Cut-off Wheels are specially formulated for perfect, burn free sections and minimal deformation of cut. Created using peripheral wheel speed technology, the DELTA wheels are engineered to provide long life when used with DELTA Orbital Cutting Action.

Diameter x Thickness x Arbor

16" x 0.125" x 1 1/4" (400mm x 3.0mm x 31.75mm) Wheels, Ten per Box

DELTA Orbital Cut-off Wheels for Tool Steels RC60 and above, carburized steels, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-5610-010
DELTA Orbital Cut-off Wheels for Hard Steels RC50, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-5612-010
DELTA Orbital Cut-off Wheels for Medium Hard Steels RC35-50, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-5616-010
DELTA Orbital Cut-off Wheels for Soft or Annealed Steels RC15-35, Rb46-90, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-5620-010
DELTA Orbital Cut-off Wheels for Medium Hard Nonferrous Materials, Uranium, Titanium, Zirconium, R/SiC .....	12-5645-010
DELTA Orbital Cut-off Wheels for Soft Nonferrous Materials, Aluminum, Brass, etc., R/SiC .....	12-5650-010
DELTA Orbital Cut-off Wheels for Superalloys .....	12-5605-010

14" x 0.105" x 1 1/4" (355mm x 2.7mm x 31.75mm) Wheels, Ten per Box

DELTA Orbital Cut-off Wheels for Tool Steels RC60 and above, carburized steels, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-4310-010
DELTA Orbital Cut-off Wheels for Hard Steels RC50, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-4312-010
DELTA Orbital Cut-off Wheels for Medium Hard Steels RC35-50, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-4316-010
DELTA Orbital Cut-off Wheels for Soft or Annealed Steels RC15-35, Rb46-90, RR/Al <sub>2</sub> O <sub>3</sub> .....	12-4320-010
DELTA Orbital Cut-off Wheels for Medium Hard Nonferrous Materials, Uranium, Titanium, Zirconium, R/SiC .....	12-4345-010
DELTA Orbital Cut-off Wheels for Soft Nonferrous Materials, Aluminum, Brass, etc., R/SiC .....	12-4350-010
DELTA Orbital Cut-off Wheels for Superalloys .....	12-4305-010

*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.*

© 2002 BUEHLER LTD. Printed in U.S.A. 1M0702 FN01172 \*For metallurgical equipment produced by BUEHLER LTD. USA

**BUEHLER ANALYST®**  
SECTION

1



**BUEHLER LTD - Worldwide Headquarters**  
41 Waukegan Road • P.O. Box 1  
Lake Bluff, Illinois 60044-1699 • USA  
Tel: 847/295-6500 • Fax: 847/295-7979  
Sales: 1/800/BUEHLER • 1/800/283-4537  
Web Site: <http://www.buehler.com>  
Email: [info@buehler.com](mailto:info@buehler.com)

**BUEHLER GMBH - European and MESA Headquarters**  
In der Steele 2 • 40599 Düsseldorf  
Postfach 16 03 55 • 40566 Düsseldorf  
Telefon: (49) 211 974100 • Telefax: (49) 211 9741079  
Web Site: <http://www.buehler-met.de> • Email: [info@buehler.com](mailto:info@buehler.com)

**BUEHLER FRANCE**  
Téléphone: 0800 89 73 71 • Télécopie: 0800 88 05 27  
Web Site: <http://www.buehler.fr>  
Email: [info@buehler.fr](mailto:info@buehler.fr)

**BUEHLER UNITED KINGDOM**  
Telephone: 0800 707 6273 • Fax: 0800 707 6274  
Web Site: <http://www.buehler.co.uk>  
Email: [sales@buehler.co.uk](mailto:sales@buehler.co.uk)

**BUEHLER CANADA**  
10 Carlow Court, Unit #2 • Whitby, Ontario L1N 9T7  
Telephone: 1-800-268-3593  
Email: [info@buehler.ca](mailto:info@buehler.ca)

**BUEHLER ASIA**  
5/F Vogue Centre • 696 Castle Peak Road  
Lai Chi Kok, Kowloon • Hong Kong, SAR, China  
Telephone: (852) 2307 0909 • Fax: (852) 2307 0233