

BUEHLER®

DELTA™ 2319 AUTOMATIC ORBITAL CUTTER

BASIC SYSTEM CONFIGURATION

The DELTA™ 2319 is a rugged, abrasive cutter that increases productivity using patent pending orbital cutting action, SMARTCUT, and simple programmable operation. 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 positioning slots, 18" (455mm) wheel capacity, and Base Cabinet with doors.

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

DELTA Cutter with 15Hp (11kW) Motor for 400V/50Hz/3 Phase	10-2319-400
DELTA Cutter with 15Hp (11kW) Motor for 460V/60Hz/3 Phase	10-2319-460
DELTA Cutter with 15Hp (11kW) Motor for 400V/50Hz/3 Phase, with Electronic Brake	10-2319B-400
DELTA Cutter with 15Hp (11kW) Motor for 460V/60Hz/3 Phase, with Electronic Brake	10-2319B-460

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

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
Vee Clamp Block Kit (pair)	10-3527
Riser Block for Speed Vise, Large (pair)	10-3528

* 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).

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: 6.75" (170mm) with 18" (455mm) wheel.

NORMAL SHIPPING WEIGHT & DIMENSIONS

Normal shipping weight: 880 lbs. (400kg)

Dimensions with hood open: 46" W x 73" H x 40" D (1680mm x 1860mm x 1040mm)

Dimensions with hood closed: 46" W x 66" H x 40" D (1680mm 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

455mm x 3.8mm x 32mm Wheels, Ten per Box

DELTA Orbital Cut-off Wheels for Tool Steels RC60 and above, carburized steels, RR/Al ₂ O ₃	12-9810-010
DELTA Orbital Cut-off Wheels for Hard Steels RC50, RR/Al ₂ O ₃	12-9812-010
DELTA Orbital Cut-off Wheels for Medium Hard Steels RC35-50, RR/Al ₂ O ₃	12-9816-010
DELTA Orbital Cut-off Wheels for Soft or Annealed Steels RC15-35, Rb46-90, RR/Al ₂ O ₃	12-9820-010
DELTA Orbital Cut-off Wheels for Medium Hard Nonferrous Materials, Uranium, Titanium, Zirconium, R/SiC	12-9845-010
DELTA Orbital Cut-off Wheels for Soft Nonferrous Materials, Aluminum, Brass, etc., R/SiC	12-9850-010
DELTA Orbital Cut-off Wheels for Superalloys	12-9805-010

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.

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SECTION

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