

BUEHLER®

DELTA™ 2218 AUTOMATIC ORBITAL CUTTER

BASIC SYSTEM CONFIGURATION

The DELTA™ 2218 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 two No.10-2226 T-Slot beds with X and Y dual directional positioning, 12" (305mm) and 10" (254mm) wheel capacity, and No. 10-2229 Steel Frame Support Base.

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

DELTA Cutter with 7.5Hp (5.5kW) Motor for 200-220V/60Hz/3 Phase	10-2218-260
DELTA Cutter with 7.5Hp (5.5kW) Motor for 460V/60Hz/3 Phase	10-2218-460
DELTA Cutter with 7.5Hp (5.5kW) Motor for 200-220V/50Hz/3 Phase	10-2218-250
DELTA Cutter with 7.5Hp (5.5kW) Motor for 400V/50Hz/3 Phase	10-2218-400
DELTA Cutter with 7.5Hp (5.5kW) Motor for 200-220V/60Hz/3 Phase, with Electronic Brake	10-2218B-260
DELTA Cutter with 7.5Hp (5.5kW) Motor for 460V/60Hz/3 Phase, with Electronic Brake	10-2218B-460
DELTA Cutter with 7.5Hp (5.5kW) Motor for 200-220V/50Hz/3 Phase, with Electronic Brake	10-2218B-250
DELTA Cutter with 7.5Hp (5.5kW) Motor for 400V/50Hz/3 Phase, with Electronic Brake	10-2218B-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	10-2241†
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 for 102342-031	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	10-2225
T-Slot Bed with X and Y Cross-slots for most versatile dual directional positioning of vises*	10-2226
Sliding, Left Hand Vise*	10-3529
Sliding, Right Hand Vise*	10-3530
Adjustable Vee Blocks (pair)	10-3525
Horizontal Clamp for Speed Vise Kit (pair)	10-3526
Vee Clamp Block Kit Assembly (pair)	10-3527

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

† If option 10-2241 is chosen, the cutting envelope is reduced by 3/8" (18mm).

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Additional T-Slot Beds & Vises (cont.)

Speed Vise Kit (Medium), for holding irregular shaped samples (pair)	10-3531
Riser Block for Speed Vise, Medium (pair)	10-3532

Base Cabinets

Steel Base Cabinet with a Door and Toolrack	10-2228
Steel Base Cabinet with Doors (Designer Model)	10-2230

Cutting Envelope

Maximum diameter of sample: 4.5" (114mm) with 12" (300mm) wheel; 3.5" (89mm) with 10" (250mm) wheel

NORMAL SHIPPING WEIGHT & DIMENSIONS

Normal shipping weight: 740 lbs. (340kg)

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 1670mm x 792mm)

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

12" x 0.105" x 1 1/4" (300mm 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 ₂ O ₃	12-4410-010
DELTA Orbital Cut-off Wheels for Hard Steels RC50, RR/Al ₂ O ₃	12-4412-010
DELTA Orbital Cut-off Wheels for Medium Hard Steels RC35-50, RR/Al ₂ O ₃	12-4416-010
DELTA Orbital Cut-off Wheels for Soft or Annealed Steels RC15-35, Rb46-90, RR/Al ₂ O ₃	12-4420-010
DELTA Orbital Cut-off Wheels for Medium Hard Nonferrous Materials, Uranium, Titanium, Zirconium, R/SiC	12-4445-010
DELTA Orbital Cut-off Wheels for Soft Nonferrous Materials, Aluminum, Brass, etc., R/SiC	12-4450-010
DELTA Orbital Cut-off Wheels for Superalloys	12-4405-010
10" x 0.105" x 1 1/4" (250mm 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 ₂ O ₃	12-4210-010
DELTA Orbital Cut-off Wheels for Hard Steels RC50, RR/Al ₂ O ₃	12-4212-010
DELTA Orbital Cut-off Wheels for Medium Hard Steels RC35-50, RR/Al ₂ O ₃	12-4216-010
DELTA Orbital Cut-off Wheels for Soft or Annealed Steels RC15-35, Rb46-90, RR/Al ₂ O ₃	12-4220-010
DELTA Orbital Cut-off Wheels for Medium Hard Nonferrous Materials, Uranium, Titanium, Zirconium, R/SiC	12-4245-010
DELTA Orbital Cut-off Wheels for Soft Nonferrous Materials, Aluminum, Brass, etc., R/SiC	12-4250-010
DELTA Orbital Cut-off Wheels for Superalloys	12-4205-010

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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