



# Delta™

Manual Abrasive Cutter



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The Delta® Manual Abrasive Cutter is a rugged abrasive cutter that increases productivity using a powerful motor and easy-to-use control panel. The Delta® Manual Cutter was engineered to produce excellent cuts quickly and consistently. The rugged design minimizes cutting time while maintaining user simplicity; and this cutter is backed up with the standard Buehler warranty.

A 14in [356mm] abrasive wheel diameter provides a cutting capacity of up to 5" (125mm) diameter samples. Superior cutting power is provided by the 10 Hp (7.5kW) 3 phase industrial-grade motor, giving plenty of strength to section most materials quickly and easily.

## Safety

- Protective fiberglass hood with interlock switch prevents accidental operation while hood is open

## Cutting

- Manually controlled cutting lever allows operator to "feel" the cutting action
- Lever height is adjustable to fit the user's preference

## Easy to Use

- Durable push button and two-position controls for start, stop and lighting
- Easy to reach emergency stop buttons

## Visibility

- Large 20 W x 18in H [508 x 457mm] allows for easy observation during use
- Independantly controlled, bright, flourescent light fixture illuminates cutting compartment

## Sturdy Construction

- Sturdy, steel cabinet on caster wheels so machine can be easily rolled into position
- Tool storage compartment inside front door



## At a Glance

- Simply vise the sample, press start and go for quick operation.
- All models include an electronic motor brake using a static DC field to electronically stop the motor
- Standard steel wheel guard pivots for easy wheel changing and incorporates a coolant spray shield
- The fiberglass hood's wide opening provides easy access to the large cutting bay for sample positioning and retrieval
- Side access ports allow over-sized parts to be positioned
- Equipped with two 14mm T-slot vise beds with X and Y cross-slots, ideal for handling a variety of component shapes and sizes. Can also accommodate two additional vise beds.



Wheel guard pivots open for easy wheel changing.



10-3529 and 10-3530 Sliding vises secure samples up to 5" (127mm).



10-3523 Irregular Specimen vises secure unusual sample sizes.

## Specifications

Total Power Consumption	10.75 Hp [8.0kW]
Motor Power	10Hp [7.5kW]
Current	27/16 Amps @ 230/460 VAC
Wheel Speed	2000rpm (no load condition)
Lighting	24-watt, Osram 24W/840
Abrasive Wheel Diameter & Arbor	14in [356mm]
Maximum Cutting Capacity	5in [127mm] Diameter
Operating Ambient	41 – 104°F [5 – 40°C]; 30 to 95%, non-condensing humidity
Pump Motor Power	1/5Hp [0.15kW]
Pump Motor Voltage	230 VAC, 1-phase
Pump Motor Current	0.84 Amps
Flow Rate	10gal [40ℓ] per minute
Tank Capacity	21gal [80ℓ]
Fume Extractor & Ducting Accessory Kits	3in [76mm] punchout area on hood for venting
Compliance	CE

## Delta™ Manual Action Cutter

- Manual operation, 10Hp
- 14in [356mm] wheel capacity
- 14mm T-Slot black anodized aluminum bed
- Includes electronic brake

(Recirculating System, Cool 2 Fluid and 2 T-Slot beds included. Vising not included)

Part Number	Voltage/Frequency
10-2213EB-260	200-240VAC, 60Hz
10-2213EB-460	440-480VAC, 60Hz
10-2213EB-400	380-415VAC, 50Hz

### Accessories

10-2326 T-Slot Bed, 14mm, X & Y-axis slots



## Vises for Delta Manual Abrasive Cutter

10-3523	Speed Vise Kit, Large	10-3525	Adjustable Vee Blocks
10-3528	Riser Block Kit, Large (for Speed Vise Kit)	10-3529	Sliding Vise (left)
46-0030	Chain Clamping Vise	10-3530	Sliding Vise (right)
10-2180	Speed Clamping Vise (left)	10-2245	MetKlamp™ VII Cam-Lock Vise (left)
10-2181	Speed Clamping Vise (right)	10-2246	MetKlamp™ VII Cam-Lock Vise (right)
10-3526	Horizontal Clamp for Speed Vise		
10-3527	Vee Block Clamp Kit		

## Recirculating Systems & Fume Extractors

### Filter Conveyor Swarf Removal System



10-2333-260	[200-220VAC, 60Hz]
10-2333-460	[440-480VAC, 60Hz]
10-2333-400	[380-400VAC, 50Hz]

### Recirculating System 22 gal [90ℓ]

(shown with 16-1497 Cart)



10-2332-260	[200-240VAC, 60Hz]
10-2332-460	[440-480VAC, 60Hz]
10-2332-250	[200-240VAC, 50Hz]
10-2332-400	[380-400VAC, 50Hz]

### Fume Extractor

10-2342-400	Fume Extractor
10-2342-030	Smoke Filter Kit for Fume Extractor
10-2342-031	Fume Filter Kit for Fume Extractor
10-2342-032	Wall Vent Kit for Fume Extractor

## Consumables for AbrasiMet 250

### Abrasive Wheels 14in [356mm], 1.25in [31.75mm] Arbor (qty. 10)

#### Recommended Use

SuperAlloys and General Steel, Non-ferrous	12-4305-010 0.063in [1.6mm]
Ferrous materials >HRC60	10-4310-010 0.075in [1.9mm]
Ferrous materials HRC50-60	10-4312-010 0.115in [2.9mm]
Ferrous materials HRC35-50	12-4305-010 0.063in [1.6mm]
Ferrous materials HRC15-35	
Delicate Cutting	
Ductile materials, Ti & Ti-alloys, Zr & Zr-alloys	10-4345-010 0.075in [1.9mm]
Non-ferrous materials, (Al, Cu, Brass)	10-4350-010 0.105in [2.7mm]

### Cool 2 Cutting Fluid

Size	Catalog Number
33.8oz [1ℓ]	41-10102
1gal [3.8ℓ]	41-10103
5gal [191ℓ]	41-10104



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