

ABRASIVE CUTTING

Manual MEGA Abrasive Cutter Options

MODEL	Blade Diameter	Wheel Feed	Manual Y-Table	Voltage (options)	Max Motor Power
MEGA-M250S	10-inch (250 mm)	Yes	n.a.	220V single phase 208Y/380V/480V, 3φ	3 hp (2.2KW)
MEGA-T250S	10-inch (250 mm)	Yes	Yes	208Y/380V,480V 3φ	5.8 hp (4.5 KW)
MEGA-T300S	12-inch (305 mm)	Yes	Yes	208Y/380V/480V, 3φ 480V, 3φ	5.8 hp (4.5 KW) OR 20 hp (15 KW)
MEGA-T350S	14-inch (350 mm)	Yes	Yes	208Y/380V/480V, 3φ 480V, 3φ	5.8 hp (4.5 KW) OR 20 hp (15 KW)
MEGA-T400S	16-inch (405 mm)	Yes	Yes	480V, 3φ	5.8 hp (4.5 KW) OR 20 hp (15 KW)

MEGA M250S

10-inch MANUAL Wheel Feed
Metallographic Abrasive Cutter



NEW

MEGA T350S

14-inch MANUAL
Metallographic Abrasive Cutter



MEGA T400S

16-inch MANUAL
Metallographic Abrasive Cutter



MEGA T300S

12-inch MANUAL
Metallographic Abrasive Cutter



MEGA T250S

10-inch MANUAL Table/Wheel Feed
Metallographic Abrasive Cutter



METALLOGRAPHIC ABRASIVE CUTTERS

Automated MEGA Abrasive Cutter Options

2 year warranty
Limited Warranty

MODEL	Blade Diameter	Auto/Manual Y-Table	Auto X-Table	Voltage Options	Max Motor Power
MEGA-T300A	12-inch (305 mm)	Yes	Optional	208Y/380V/480V 480V, 3φ	5.8 hp (4.5 KW) OR 20 hp (15 KW)
MEGA-T350A	14-inch (350 mm)	Yes	Optional	208Y/380V/480V 480V, 3φ	5.8 hp (4.5 KW) OR 20 hp (15 KW)
MEGA-T400A	16-inch (405 mm)	Yes	Optional	208Y/380V/480V, 3φ	5.8 hp (4.5 KW) OR 20 hp (15 KW)

Options:

- ◆ Choose the machine that accommodates your preferred blade diameter
- ◆ Add an automated X-axis Table for maximum flexibility on cuts
- ◆ Choose between voltage options to provide the exact amount of power you need

Benefits:

- ◆ Constant torque variable speed Servo Motor (3-phase)
- ◆ Manual or automated Y-Axis table feed
- ◆ X-axis tables have automated X-axis control
- ◆ Programming options for constant feed rate or constant motor load for better control
- ◆ Twin t-slotted stainless steel table
- ◆ Electronic braking system

MEGA T400A

16-inch AUTOMATED/MANUAL
Metallographic Abrasive Cutter



MEGA T350A

14-inch AUTOMATED/MANUAL
Metallographic Abrasive Cutter



MEGA T300A

12-inch AUTOMATED/MANUAL
Metallographic Abrasive Cutter



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ABRASIVE CUTTING

MEGA-M250S ABRASIVE CUTTER



NEW

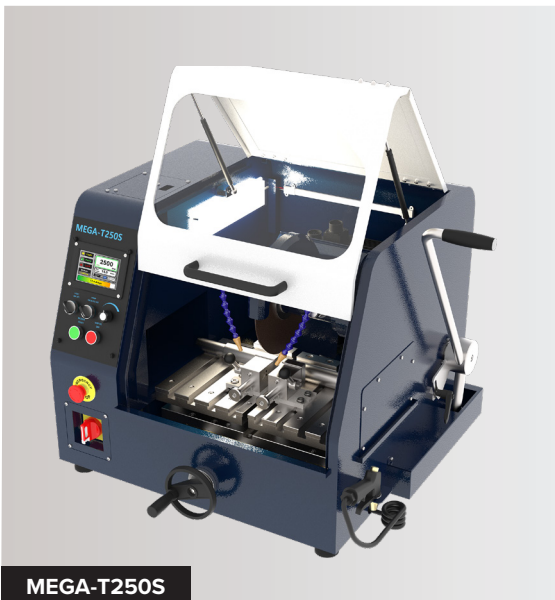
MEGA M250S

10-inch MANUAL Wheel Feed
Metallographic Abrasive Cutter

- Manual Cutting
- Economical
- 3-phase Asynchronous motor (220V single phase or 208Y/380V/480V, 3-phase)
- Variable speed cutting
- Wheel feed cutting
- T-slot table fixturing

MEGA-M250S

MEGA-T250S ABRASIVE CUTTER

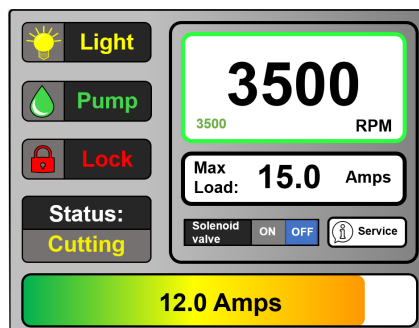


MEGA-T250S

MEGA T250S

10-inch MANUAL Wheel / Table Feed
Metallographic Abrasive Cutter

- Manual Cutting
- High torque servo motor
- Variable speed cutting
- Table and Wheel feed cutting
- T-slot table fixturing
- Non-Touch screen control (selector switch)



MEGA -T250S



METALLOGRAPHIC ABRASIVE CUTTERS

10-inch Metallographic Abrasive Cutter

2 year warranty
Limited Warranty

FEATURE	MEGA-M250S DESCRIPTION	MEGA-T250S DESCRIPTION
Cut-off blade size	10-inch (~250 mm)	10-inch (~250 mm)
Arbor size	32 mm	32 mm
Cutting capacity (H X D)	Maximum 2 x 4-inch (50 x 100 mm)	Maximum 2 x 8-inch (50 x 200 mm)
Cutting capacity	Maximum diameter 2.5-inch (65 mm)	Maximum diameter 3-inch (75 mm)
Wheel feed	Manual	Manual
Table feed	n.a.	Manual
Y pulse feed	n.a.	Manual
Y constant feed	n.a.	Manual
Vertical movement (z-axis)	3.25-inch (82 mm)	3.9-inch (100 mm)
Table feed movement (y-axis)	n.a.	3.3-inch (84 mm)
Table movement (x-axis) for parallel cuts	n.a.	n.a.
T-slotted table dimensions	9.75 x 9-inch (250 x 230 mm)	11 x 18.25-inch (280 x 470 mm)
T-slotted width	0.5-inch (50 mm)	0.5-inch (50 mm)
Operation	Manual	Manual
Cooling unit	14 gallons (53 liters)	14 gallons (53 liters)
Motor power	Asynchronous 3 phase motor speed - 2.2 KW/(3 hp)	Constant torque variable speed servo motor - 4.5 KW/(5.8 hp)
Motor speed	Variable (1000-3000 rpm)	Variable (1500-3500 rpm)
Electrical specification	220V single phase 380V or 480V, 3φ (50/60 Hz)	208Y / 380V or 480V, 3φ (50/60 Hz)
Cutting force (current settings)	15 amps (max)	3-15 amps (Adjustable)
Dimensions (WxDxH)	Hood closed: 29.5 x 27 x 28-inch (750 x 685 x 720 mm) Hood open: 29.5 x 27 x 39-inch (750 x 685 x 990 mm)	Hood closed: 35.5 x 32 x 28-inch (900 x 815 x 710 mm) Hood open: 35.5 x 32 x 39-inch (900 x 815 x 990 mm)
Weight	240 lbs (110 kg)	375 lbs (170 kg)
Cutter Support Bench (optional)	MEGA-T2-BENCH	MEGA-T2-BENCH
Catalog Number	MEGA-M250S	MEGA-T250S

Benefits:

- ◆ Non-touch screen control
- ◆ Wheel and table feed controlled cutting
- ◆ Cutting capacity up to 3-inches (75 mm) solid stock sample using 10-inch (250 mm) blade
- ◆ Variable speed control
- ◆ High leverage handle for better control
- ◆ Variable speed motors
- ◆ Twin t-slotted stainless steel table
- ◆ Electronic braking system

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ABRASIVE CUTTING

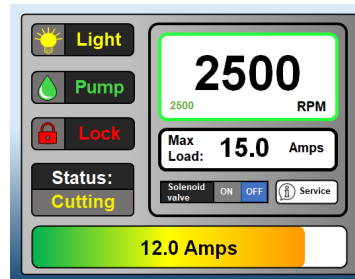
MEGA-T300S ABRASIVE CUTTER



MEGA T300S

12-inch MANUAL Metallographic Abrasive Cutter

- Manual Cutting
- High torque servo motor
- Variable speed cutting
- Wheel and table feed cutting
- T-slot table fixturing
- Non-Touch screen control (selector switch)



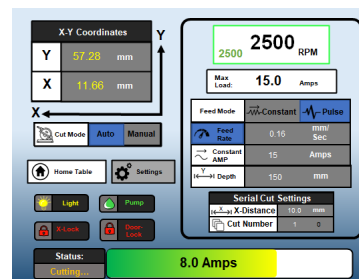
MEGA-T300A ABRASIVE CUTTER



MEGA T300A

12-inch AUTOMATED Metallographic Abrasive Cutter

- Automated / Manual Cutting
- Auto / Manual y-axis feed (optional Auto X-axis feed)
- High torque servo motor
- Variable speed cutting
- Wheel and table feed cutting
- Constant feed or constant cutting force control
- T-slot table fixturing
- Non-Touch screen control (selector switch)



METALLOGRAPHIC ABRASIVE CUTTERS

12-inch Metallographic Abrasive Cutter

2 year warranty
Limited Warranty

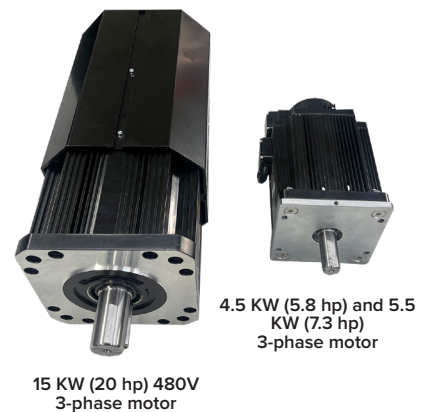
FEATURE	MEGA-T300S DESCRIPTION	MEGA-T300A DESCRIPTION
Cut-off blade size	12-inch (305 mm)	12-inch (305 mm)
Operation	Manual	Auto / Manual
Screen	Non-touch	Non-touch
Arbor size	32 mm	32 mm
Cutting capacity (H X D)	Maximum 3 x 8-inch (70 x 200 mm)	Maximum 3 x 8-inch (70 x 200 mm)
Cutting capacity	Maximum diameter 4-inch (100 mm)	Maximum diameter 4-inch (100 mm)
Wheel feed	Manual	Manual
Table feed	Manual	Auto / Manual
Y pulse feed	Manual	Auto
Y-axis Table feed -Range -Speed (feed rate)	7-inch (180 mm) n.a.	7-inch (180 mm) 0.04 to 0.20-inch/second (1-10 mm/second)
X-axis Table feed -Range -Speed (feed rate)	n.a. n.a.	OPTIONAL: 1.8-inch (45 mm) 0.04 to 0.07-inch/second (1-2 mm/second)
Vertical movement (z-axis)	7-inch (175 mm)	7-inch (175 mm)
T-slotted table dimensions	11 x 18.25-inch (280 x 470 mm)	11 x 18.25-inch (280 x 470 mm)
T-slotted width	0.5-inch (50 mm)	0.5-inch (50 mm)
Cooling unit	14 gallons (53 liters)	14 gallons (53 liters)
Motor power	Constant torque variable speed Servo Motor, 3φ (50/60 Hz): - 4.5 KW/(5.8 hp) 208Y, 380Y, 480V - 15 KW (20 hp) 480V	Constant torque variable speed Servo Motor, 3φ - 4.5 KW/(5.8 hp) 208Y, 380Y, 480V - 15 KW (20 hp) 480V
Motor speed	Variable (1500-3500 rpm)	Variable (1500-3500 rpm)
Cutting force (current settings)	3-15 amps (208Y/380V) 5-25 amps (480V)	3-15 amps (208Y/380V) 5-25 amps (480V)
Electrical specification	208Y / 380V or 480V 3-phase (50/60 Hz)	208Y / 380V or 480V 3-phase (50/60 Hz)
Dimensions (WxDxH)	Hood closed: 42 x 42 x 30-inch (1070 x 1070 x 760 mm) Hood open: 42 x 42 x 36-inch (1070 x 1070 x 930 mm)	Hood closed: 42 x 42 x 30-inch (1070 x 1070 x 760 mm) Hood open: 42 x 42 x 36-inch (1070 x 1070 x 930 mm)
Weight	500-550 lbs (230-250 kg)	500-550 lbs (230-250 kg)
Cutter Support Bench (optional)	MEGA-T3-BENCH	MEGA-T3-BENCH
Catalog Number	MEGA-T300S	MEGA-T300A

Benefits:

- ◆ Non-touch screen control
- ◆ Wheel and table feed controlled cutting
- ◆ Cutting capacity up to 4-inches (110 mm) solid stock sample using 12-inch (300 mm) blade
- ◆ Variable speed control
- ◆ High leverage handle for better control
- ◆ Constant torque variable speed Servo Motor
- ◆ 5.8 hp (4.5 kW) (208V, 380V, 480V 3-phase)
- ◆ 20 hp (15 kW) (480V 3-phase)
- ◆ Twin t-slotted stainless steel table
- ◆ Electronic braking system

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ABRASIVE CUTTING

MEGA-T350S ABRASIVE CUTTER

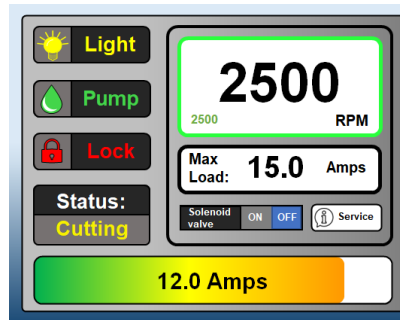


MEGA-T350S

MEGA T350S

14-inch **MANUAL**
Metallographic Abrasive Cutter

- Manual Cutting
- High torque servo motor
- Variable speed cutting
- Wheel and table feed cutting
- T-slot table fixturing
- Non-Touch screen control (selector switch)



MEGA-T350A ABRASIVE CUTTER

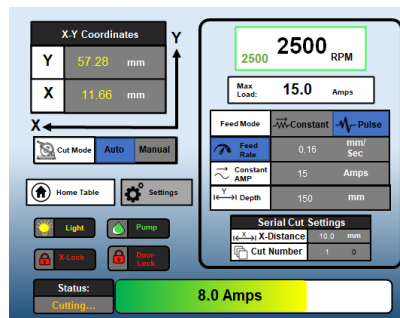


MEGA-T350A

MEGA T350A

14-inch **AUTOMATED**
Metallographic Abrasive Cutter

- Automated / Manual Cutting
- Auto / Manual y-axis feed (optional Auto X-axis feed)
- High torque servo motor
- Variable speed cutting
- Wheel and table feed cutting
- Constant feed or constant cutting force control
- T-slot table fixturing
- Non-Touch screen control (selector switch)



METALLOGRAPHIC ABRASIVE CUTTERS

14-inch Metallographic Abrasive Cutter

2 year warranty
Limited Warranty

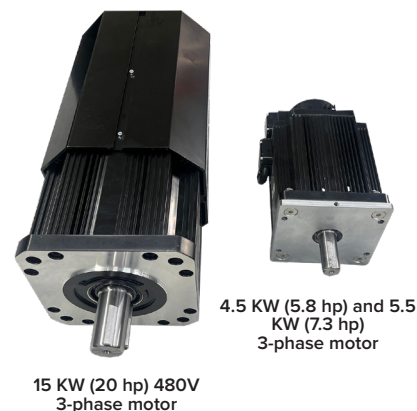
FEATURE	MEGA-T350S DESCRIPTION	MEGA-T350A DESCRIPTION
Cut-off blade size	14-inch (350 mm)	14-inch (350 mm)
Operation	Manual	Auto / Manual
Screen	Non-touch	Non-touch
Arbor size	32 mm	32 mm
Cutting capacity (H X D)	Maximum 3 x 6-inch (70 x 150 mm)	Maximum 3 x 6-inch (70 x 150 mm)
Cutting capacity	Maximum diameter 4.5-inch (115 mm)	Maximum diameter 4.5-inch (115 mm)
Wheel feed	Manual	Manual
Table feed	Manual	Auto / Manual
Y pulse feed	Manual	Auto
Y-axis Table feed -Range -Speed (feed rate)	7-inch (180 mm) n.a.	7-inch (180 mm) 0.04 to 0.20-inch/second (1-10 mm/second)
X-axis Table feed -Range -Speed (feed rate)	n.a. n.a.	OPTIONAL: 1.8-inch (45 mm) 0.04 to 0.07-inch/second (1-2 mm/second)
Vertical movement (z-axis)	3-inch (75 mm)	5.5-inch (140 mm)
T-slotted table dimensions (WxD)	28 x 16-inch (710 x 400 mm)	28 x 16-inch (710 x 400 mm)
T-slotted width	0.5-inch (50 mm)	0.5-inch (50 mm)
Cooling unit	14 gallons (53 liters)	14 gallons (53 liters)
Motor power	Constant torque variable speed Servo Motor, 3φ - 4.5 KW/(5.8 hp) 208Y, 380Y, 480V - 15 KW (20 hp) 480V	Constant torque variable speed Servo Motor, 3φ - 4.5 KW/(5.8 hp) 208Y, 380Y, 480V - 15 KW (20 hp) 480V
Motor speed	Variable (1000-3000 rpm)	Variable (1000-3000 rpm)
Cutting force (current settings)	3-15 amps (208Y/380V) 5-25 amps (480V)	3-15 amps (208Y/380V) 5-25 amps (480V)
Electrical specification	208Y / 380V or 480V 3-phase (50/60 Hz)	208Y / 380V or 480V 3-phase (50/60 Hz)
Dimensions (WxDxH)	Hood closed: 42 x 42 x 64-inch (1070 x 1070 x 1625 mm) Hood open: 42 x 42 x 70-inch (1070 x 1070 x 1780 mm)	Hood closed: 42 x 42 x 64-inch (1070 x 1070 x 1625 mm) Hood open: 42 x 42 x 70-inch (1070 x 1070 x 1780 mm)
Weight	650-700 lbs (300-320 kg)	650-700 lbs (300-320 kg)
Catalog Number	MEGA-T350S	MEGA-T350A

Benefits:

- ◆ Non-touch screen control
- ◆ Wheel and table feed controlled cutting
- ◆ Cutting capacity up to 4.5 inches (115 mm) solid stock sample using 14-inch (350 mm) blade
- ◆ Variable speed control
- ◆ High leverage handle for better control
- ◆ Constant torque variable speed Servo Motor
- ◆ 5.8 hp (4.5 kW) (208V, 380V, 480V 3-phase)
- ◆ 20 hp (15 KW) (480V 3-phase)
- ◆ Twin t-slotted stainless steel table
- ◆ Electronic braking system

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ABRASIVE CUTTING

MEGA-T400S ABRASIVE CUTTER

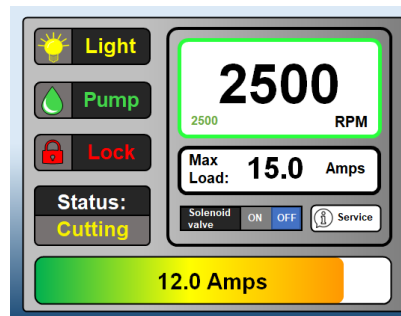


MEGA-T400S

MEGA T400S

16-inch **MANUAL**
Metallographic Abrasive Cutter

- Manual Cutting
- High torque servo motor
- Variable speed cutting
- Chop and table feed cutting
- T-slot table fixturing
- Touch screen control



MEGA-T400A ABRASIVE CUTTER

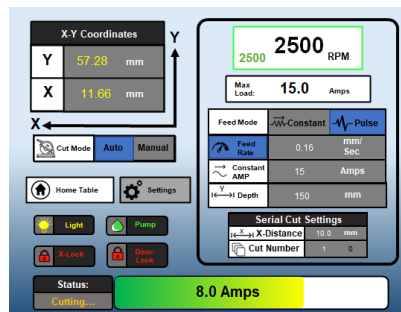


MEGA-T400A

MEGA T400A

16-inch **AUTOMATED**
Metallographic Abrasive Cutter

- Automated / Manual Cutting
- Auto / Manual y-axis feed (optional Auto X-axis feed)
- High torque servo motor
- Variable speed cutting
- Wheel and table feed cutting
- Constant feed or constant cutting force control
- T-slot table fixturing
- Touch screen control



METALLOGRAPHIC ABRASIVE CUTTERS

16-inch Metallographic Abrasive Cutter

2 year warranty
Limited Warranty

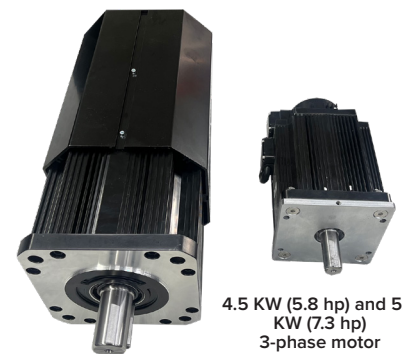
FEATURE	MEGA-T400S DESCRIPTION	MEGA-T400A DESCRIPTION
Cut-off blade size	16-inch (400 mm)	16-inch (400 mm)
Operation	Manual	Auto / Manual
Screen	Touch	Touch
Arbor size	32 mm	32 mm
Cutting capacity (H X D)	Maximum 3 x 6-inch (70 x 150 mm)	Maximum 3 x 6-inch (70 x 150 mm)
Cutting capacity	Maximum diameter 6-inch (150 mm)	Maximum diameter 6-inch (150 mm)
Wheel feed	Manual	Manual
Table feed	Manual	Auto / Manual
Y pulse feed	Manual	Auto
Y-axis Table feed -Range -Speed (feed rate)	7-inch (180 mm) n.a.	7-inch (180 mm) 0.04 to 0.20-inch/second (1-10 mm/second)
X-axis Table feed -Range -Speed (feed rate)	n.a. n.a.	OPTIONAL: 1.8-inch (45 mm) 0.04 to 0.07-inch/second (1-2 mm/second)
Vertical movement (z-axis)	5-inch (125 mm)	5-inch (125 mm)
T-slotted table dimensions	11 x 18.25-inch (280 x 470 mm)	11 x 18.25-inch (280 x 470 mm)
T-slotted width	0.5-inch (50 mm)	0.5-inch (50 mm)
Cooling unit	14 gallons (53 liters)	14 gallons (53 liters)
Motor power	Constant torque variable speed Servo Motor, 3φ - 4.5 KW/(5.8 hp) 208Y, 380Y, 480V -15 KW (20 hp) 480V	Constant torque variable speed Servo Motor, 3φ - 4.5 KW/(5.8 hp) 208Y, 380Y, 480V -15 KW (20 hp) 480V
Motor speed	Variable (1000-3000 rpm)	Variable (1000-3000 rpm)
Cutting force (current settings)	5-25 amps (480V)	5-25 amps (480V)
Electrical specification	208Y / 380V or 480V 3-phase (50/60 Hz)	208Y / 380V or 480V 3-phase (50/60 Hz)
Dimensions (WxDxH)	Hood closed: 48 x 51 x 64-inch (1220 x 1300 x 1610 mm) Hood open: 48 x 51 x 66-inch (1200 x 1300 x 1700 mm)	Hood closed: 48 x 51 x 64.5-inch (1200 x 1300 x 16010 mm) Hood open: 48 x 51 x 66-inch (1200 x 1300 x 1700 mm)
Weight	880-930 lbs (400-425 kg)	880 lbs (400 kg)
Catalog Number	MEGA-T400S	MEGA-T400A

Benefits:

- ◆ Touch screen control
- ◆ Wheel and table feed controlled cutting
- ◆ Cutting capacity up to 6 inches (150 mm) solid stock sample using 16-inch (400 mm) blade
- ◆ Variable speed control
- ◆ High leverage handle for better control
- ◆ 5.8 hp (4.5 kW) (208V, 380V, 480V 3-phase)
- ◆ 20 hp (15 KW) (480V 3-phase)
- ◆ Twin t-slotted stainless steel table
- ◆ Electronic braking system

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15 KW (20 hp) 480V
3-phase motor

4.5 KW (5.8 hp) and 5.5
KW (7.3 hp)
3-phase motor



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ABRASIVE CUTTING FIXTURES

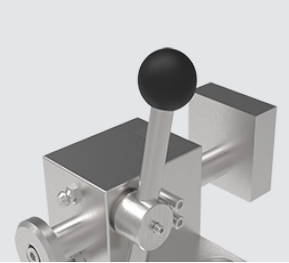
MEGA Vises

Left Cam Lock Vise



Quick release clamping vise (left hand)
Catalog no. QCL-1000-250 & QCL-1000

Right Cam Lock Vise



Quick release clamping vise (right hand)
Catalog no. QCR-1000-250 & QCR-1000

Back Support



Back support plate for Quick Release clamping vises
Catalog no. QCB-1000-250 & QCB-1000

Back Support



Back support plate for Quick Release clamping vises
Catalog no. QCB-1000-300R

MEGA Cam Locking Vise Recommendations	MEGA-M250S	MEGA-T250S	MEGA-T300	MEGA-T350	MEGA-T400
Left cam vise	QCL-1000	QCL-1000-250	QCL-1000	QCL-1000	QCL-1000
Right cam vise	QCR-1000	QCR-1000-250	QCR-1000	QCR-1000	QCR-1000
Left backstop	QCB-1000	QCB-1000-250	QCB-1000	QCB-1000	QCB-1000
Right backstop	QCB-1000-300R	QCB-1000-250	QCB-1000-300R	QCB-1000-300R	QCB-1000

Small Vertical Vise



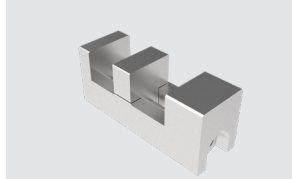
1.8-inch (45 mm) Vertical clamping vise with shoe for MEGA-T250/300/350
Catalog no. MG-01

Large Vertical Vise



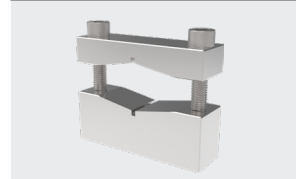
3-inch (75 mm) Vertical clamping vise with shoe for MEGA-T400S
Catalog no. MG-15

Fastener Vise



MEGA fastener vise
Catalog no. MEGA-711

Saddle Vise



MEGA saddle vise
Catalog no. MEGA-702

Universal Vertical Vise



Universal Vertical clamping vise with 65 and extended 95 mm arm (2.5/3.75-inch) and shoe
Catalog no. MG-E

Universal Vertical Height Adapter Block



57 mm (2.25-inch) height adapter for vertical clamping vise
Catalog no. MG-EH

Recommended Cutting Procedures:

- Select the appropriate abrasive blade (abrasive type, bond, hardness, material properties, cutter speed)
- Secure specimen. Improper clamping may result in blade and/or specimen damage
- Check coolant level and replace when low or excessively dirty
- Adjust the abrasive cutter speed to optimize the cutting process. Typically softer metals are cut at slower speeds to reduce the cutting burr or smearing of the metal. Harder samples are cut at medium to high speeds in order to break down the wheel bond in order to expose new / sharp abrasives.
- Allow the abrasive blade to reach its operating speed before beginning the cut
- A steady force or light pulsing action will produce the best cuts and minimize blade wear characteristics, as well as maintain sample integrity (no burning)
- When sectioning materials with coatings, orient the specimen so that the blade is cutting into the coating and exiting out of the base material, thereby keeping the coating in compression

ABRASIVE CUTTING CONSUMABLES

Abrasive Cutting Fluid Recommendations

CUTTING FLUID	APPLICATION	RECOMMENDED DILUTION	CHANGING FREQUENCY
MAXCUT cutting fluid	As a replacement for competitors cutting fluids	25:1 (water)	50 cuts or weekly
MAXCUT2 cutting fluid	Recommended for reducing corrosion in cutting chamber	25:1 (water)	50 cuts or weekly



Tips: Abrasive Cutter Care:

- ◆ Use clean/fresh MAXCUT2 cutting fluid; fluid should be changed weekly
- ◆ Rinse and dry table and vises after use
- ◆ When cutter is not in use open hood to prevent humidity build-up
- ◆ If cutter will not be used for an extended period of time, spray table and vises with a water displacement oil such as WD40®

Abrasive Cutting Fluids

PACE Product Name	Catalog Number	Qty	Price (\$)
MAXCUT Abrasive Cutting Fluid (32 oz)	MAXCUT-1000-32	32 oz	39.50
MAXCUT Abrasive Cutting Fluid (1/2 gallon)	MAXCUT-1000-64	1/2 gallon	58.00
MAXCUT Abrasive Cutting Fluid (1 gallon)	MAXCUT-1000-128	1 gallon	98.00
MAXCUT Abrasive Cutting Fluid (5 gallons)	MAXCUT-1000-5G	5 gallons	260.00
MAXCUT2 Abrasive Cutting Fluid with Anti-corrosion Additive (32 oz)	MAXCUT2-1000-32	32 oz	41.50
MAXCUT2 Abrasive Cutting Fluid with Anti-corrosion Additive (1/2 gallon)	MAXCUT2-1000-64	1/2 gallon	60.00
MAXCUT2 Abrasive Cutting Fluid with Anti-corrosion Additive (1 gallon)	MAXCUT2-1000-128	1 gallon	105.00
MAXCUT2 Abrasive Cutting Fluid with Anti-corrosion Additive (5 gallons)	MAXCUT2-1000-5G	5 gallons	275.00
Propylene Glycol Based Corrosion Inhibitor Additive (32 oz)	PCC-5000-32	32 oz	28.00

ABRASIVE CUTTING CONSUMABLES

Abrasive Cutting Blades

10-inch (250 mm) MAXCUT Abrasive Blades (32 mm arbor)

Blade Usage	M.O.S.	Catalog Number	Qty	Price (\$)
Soft non-ferrous materials (aluminum, brass, zinc, etc.)	3440	MAX-C250	10/box	265.00
Hard non-ferrous materials (titanium)	3440	MAX-C250	10/box	265.00
Soft steel	4500	MAX-E250	10/box	215.00
General purpose resin bonded blade	4580	MAX-D250	10/box	215.00
Nickel, Superalloys	4580	MAX-A250	10/box	265.00
Very hard heat treated and case hardened ferrous materials (>50 Rc)	3055	MAX-VHS250	10/box	355.00
Universal Thin Blade	4580	MAX-A250	10/box	265.00
General Industrial Blade	4500	MAX-I250	10/box	182.00
180 grit high concentration Diamond Abrasive Blade cutting wheel	6100	DMAX-250	each	790.00



10-inch MAX-A250
Abrasive Blade

12-inch (300 mm) MAXCUT Abrasive Blades (32 mm arbor)

Blade Usage	M.O.S.	Catalog Number	Qty	Price (\$)
Soft non-ferrous materials (aluminum, brass, zinc, etc.)	3800	MAX-C300	10/box	310.00
Hard non-ferrous materials (titanium)	3440	MAX-C300	10/box	310.00
Soft steel	3800	MAX-E300	10/box	250.00
General purpose resin bonded blade	3820	MAX-D300	10/box	250.00
Nickel, Superalloys	3945	MAX-A300	10/box	310.00
Very hard ferrous materials (>50 Rc)	2550	MAX-VHS300	10/box	380.00
Universal Thin Blade	3945	MAX-A300	10/box	310.00
General Industrial Blade	3800	MAX-I300	10/box	225.00
180 grit high concentration Diamond Abrasive Blade cutting wheel	5000	DMAX-305	each	975.00



12-inch MAX-D300
Abrasive Blade

14-inch (350 mm) MAXCUT Abrasive Blades (32 mm arbor)



14-inch MAX-E350
Abrasive Blade

Blade Usage	M.O.S.	Catalog Number	Qty	Price (\$)
Soft non-ferrous materials (aluminum, brass, zinc, etc.)	2460	MAX-C350	10/box	405.00
Hard non-ferrous materials (titanium)	2460	MAX-C350	10/box	405.00
Soft steel	3200	MAX-E350	10/box	340.00
General purpose resin bonded blade	3275	MAX-D350	10/box	340.00
Nickel, Superalloys	2730	MAX-A350	10/box	405.00
Very hard heat treated and case hardened ferrous materials (>50 Rc)	2200	MAX-VHS350	10/box	450.00
Universal Thin Blade	2730	MAX-A350	10/box	405.00
General Industrial Blade	3200	MAX-I350	10/box	310.00
180 grit high concentration Diamond Abrasive Blade cutting wheel	4350	DMAX-350	each	1050.00

16-inch (400 mm) MAXCUT Abrasive Blades (32 mm arbor)



16-inch DMAX-400
Diamond Blade

Blade Usage	M.O.S.	Catalog Number	Qty	Price (\$)
Soft non-ferrous materials (aluminum, brass, zinc, etc.)	2390	MAX-C400	10/box	465.00
Hard non-ferrous materials (titanium)	2390	MAX-C400	10/box	465.00
Soft steel	3800	MAX-E400	10/box	445.00
General purpose resin bonded blade	3800	MAX-D400	10/box	445.00
Nickel, Superalloys	2860	MAX-A400	10/box	465.00
Very hard heat treated and case hardened ferrous materials (>50 Rc)	1925	MAX-VHS400	10/box	515.00
Universal Thin Blade	2860	MAX-A400	10/box	465.00
General Industrial Blade	3800	MAX-I400	10/box	415.00
180 grit high concentration Diamond Abrasive Blade cutting wheel	3800	DMAX-400	each	1495.00

ABRASIVE CUTTING RECOMMENDATIONS

APPLICATION	ADVANTAGE	DISADVANTAGE	BLADE COMPOSITION	RECOMMENDED BLADE
General cutting with universal thin resin / rubber bonded blades	Thin durable longer lasting blade for cutting most materials.	Rubber bonded blades can produce a burning rubber smell	Alumina resin-rubber bonded	MAX-A 
Hard non-ferrous metals (titanium, zirconium, etc.)	SiC abrasives are much more effective in cutting non-ferrous metals	Rubber bonded blades can produce a burning rubber smell	SiC / resin-rubber bonded	MAX-C 
General purpose blade for steels and ferrous metals	Resin bonded blades break down easily to expose fresh abrasives for cleaner cuts	Generally thicker blades with shorter working life	Alumina / resin bonded	MAX-D 
Soft non-ferrous metals (aluminum, brass, zinc, etc.)	Resin bonded blades break down easily to expose fresh abrasives for cleaner cuts	Generally thicker blades with shorter working life	Alumina / resin bonded	MAX-E 
Industrial general purpose reinforced blade	Lower cost, longer life resin bonded blades	Harder resin bond which may result in damaging or burning of the sample during aggressive cutting	Alumina / resin-bonded	MAX-I 
Heat treated and hardened steels	Specifically designed metallographic abrasive blades to reduce heat damage during sectioning	Resin bonded blades break down faster and therefore have shorter cutting life	Alumina / resin bonded	MAX-VHS 
Non-metallic materials such as glass, minerals, ceramics and composites	Diamond Blades do not wear down like ceramic abrasives blades	Relatively more expensive	Diamond	DMAX 

Abrasive Blade Maximum Operating Speed (M.O.S.) (rpm)

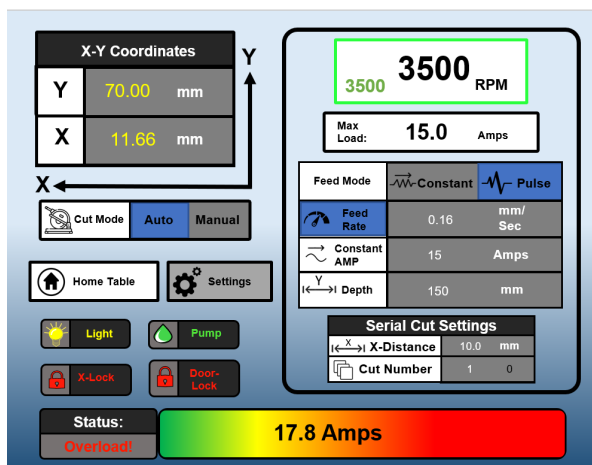
BLADE (M.O.S.)	10-INCH	12-INCH	14-INCH	16-INCH
MAX-A	4580	3945	2730	2860
MAX-C	3440	3440	2460	2390
MAX-D	4580	3820	3275	3800
MAX-E	4500	3800	3200	3800
MAX-I	4500	3800	3200	3800
MAX-VHS	3055	2550	2200	1925
DMAX	6100	5000	4350	3800

TIP: Abrasive Cutting

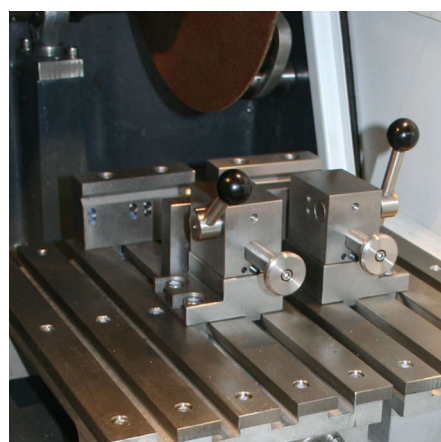
- ◆ Properly fixture or clamp the sample/specimen
- ◆ Select the proper abrasive blade
- ◆ Set the correct cutting speed
- ◆ Use appropriate cutting fluid and direct the flow to the cutting zone
- ◆ Cut specimen while monitoring motor amperage. The correct blade will minimize the current draw on the motor
- ◆ After completion of the cutting operation, clean and dry the cutter fixtures, table and cutting chamber
- ◆ When not in use clean/dry and leave the hood in the open position to prevent corrosion. The use of a water displacement oil cutting fluids will also help prevent corrosion

Abrasive Blade Thickness

BLADE THICKNESS	10-INCH	12-INCH	14-INCH	16-INCH
MAX-A	0.039 in	0.055 in	0.063 in	0.090 in
MAX-C	0.059 in	0.078 in	0.078 in	0.100 in
MAX-D	0.059 in	0.078 in	0.078 in	0.100 in
MAX-E	0.059 in	0.078 in	0.078 in	0.100 in
MAX-I	0.059 in	0.078 in	0.078 in	0.100 in
MAX-VHS	0.075 in	0.078 in	0.098 in	0.100 in
DMAX	0.059 in	0.060 in	0.060 in	0.075 in



MEGA-A Abrasive Cutter Control Screen



MEGA-T400 t-slot table



2024-2025

2024-2025 PRODUCT CATALOG

METALLOGRAPHIC EQUIPMENT AND CONSUMABLES

ABRASIVE & PRECISION CUTTING
COMPRESSION & CASTABLE MOUNTING
GRINDING & POLISHING
MICROSCOPY & ANALYSIS
HARDNESS TESTING
LAB FURNITURE