

Equipment Type: 10-inch Manual Abrasive Cut-off Machine

Model: **MEGA-M250S**

Electrical Requirements: 208Y/308V-480V Volts (3-phase)

Frequency: 50/60 Hz

Motor Horsepower: 3 hp (3-phase) (2.2 KW)

Manual Revision Date: August 16, 2024

This instruction manual is provided with each piece of delivered equipment.



## **WARRANTY**

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**4. ACCEPTANCE:**

Customer shall inspect the Products promptly upon receipt of delivery. Unless customer objects in writing within thirty (30) business days thereafter, customer shall be deemed to have accepted the Products. All claims for damages, errors, or shortage in Products delivered shall be made by Customer in writing within such five (5) business day period. Failure to make any claim timely shall constitute acceptance of the Products.

**5. PAYMENT:**

Customer agrees to provide timely payment for the Products in accordance with the terms of payment set forth on the reverse side hereof or in any proposal submitted herewith. If any payment is not paid on or before its due date, Customer shall pay interest on such late payment from the due date until paid at the lesser of 12% per annum or the maximum rate allowed by law.

**6. DEFAULT:**

If Buyer is in default (including, but not limited to, the failure by Buyer to pay all amounts due and payable to Seller) under the work or purchase order or any other agreement between Buyer and Seller, Buyer's rights under the warranty shall be suspended during any period of such default and the original warranty period will not be extended beyond its original expiration date despite such suspension of warranty rights.

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This agreement has been made in and shall be governed by the laws of the State of Arizona. All disputes arising under or relating to the purchase of the equipment shall be brought and resolved solely and exclusively in the State of Arizona, Pima County. These terms and conditions and the description of the Products on the reverse side hereof or in any proposal submitted herewith constitute the entire agreement and understanding of the parties with respect to this sale and supersede all prior and contemporaneous agreements or understandings, inducements or representations, expressed or implied, written or oral, between the parties with respect hereto. Any term or provision of this Agreement may be amended, and any observance of any term of this Agreement may be waived, only by a writing signed by the party to be bounds. The waiver by a party of any breach shall not be deemed to constitute a waiver of any other breach. Should suit be brought on this Agreement, the prevailing party shall be entitled to recover its reasonable attorneys' fees and other costs of suit including costs and attorneys' fees incurred on appeal or in collection of any judgment., errors, or shortage in Products delivered shall be made by Customer in writing within such five (5) business day period. Failure to make any claim timely shall constitute acceptance of the Products.

**8. RESTOCKING FEE:**

All Returns are subject to a restocking charge equal to 15% (fifteen percent) of the Invoice, unless the Goods are proved to be non-conformed by PACE Technologies.

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### 1.0 Product Description

The **MEGA-M250S** is a manual wheel feed abrasive cut-off machine for cutting materials ranging from soft aluminum metals to hardened tool steels. It is ideal for the metallographic laboratory, as well as for small industrial or production applications.

The **MEGA-M250S** is very robust and durable with its cast aluminum alloy and stainless steel construction. Featuring a corrosion-free T-slot table, the **MEGA-M250S** is a very versatile wheel feed bench top model metallographic cutter.

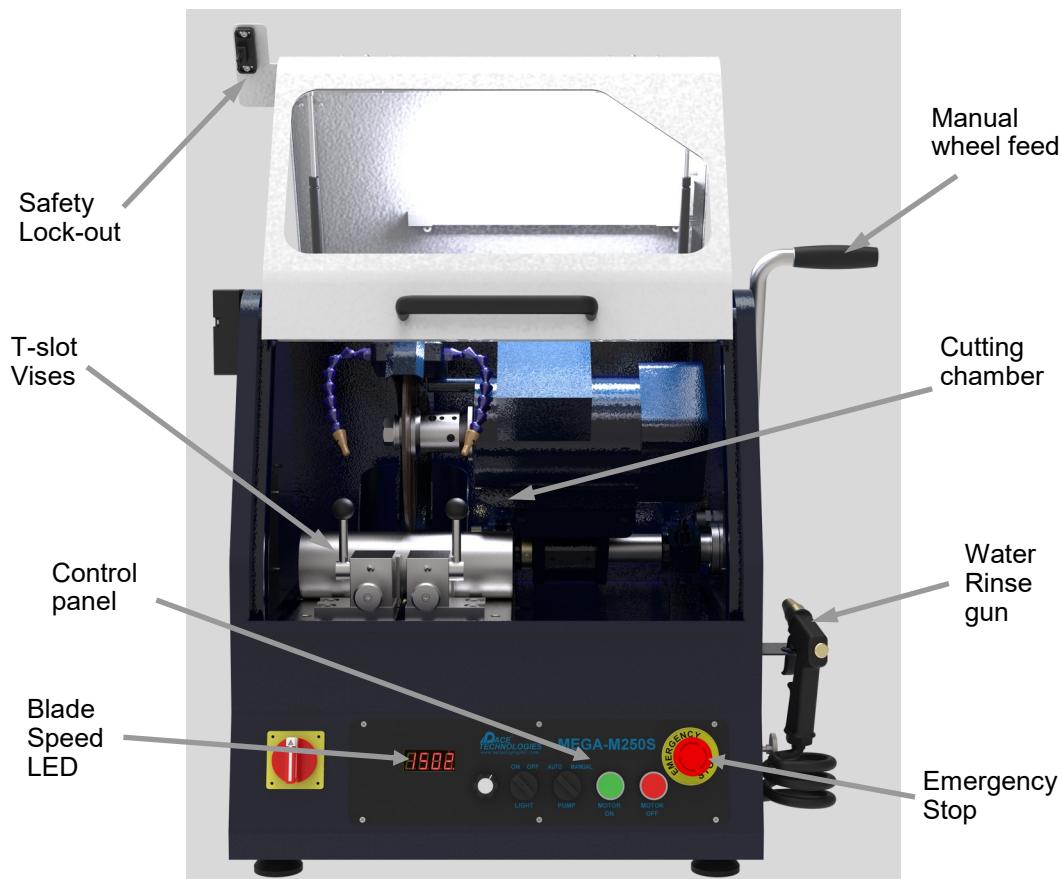
#### Powerful motor

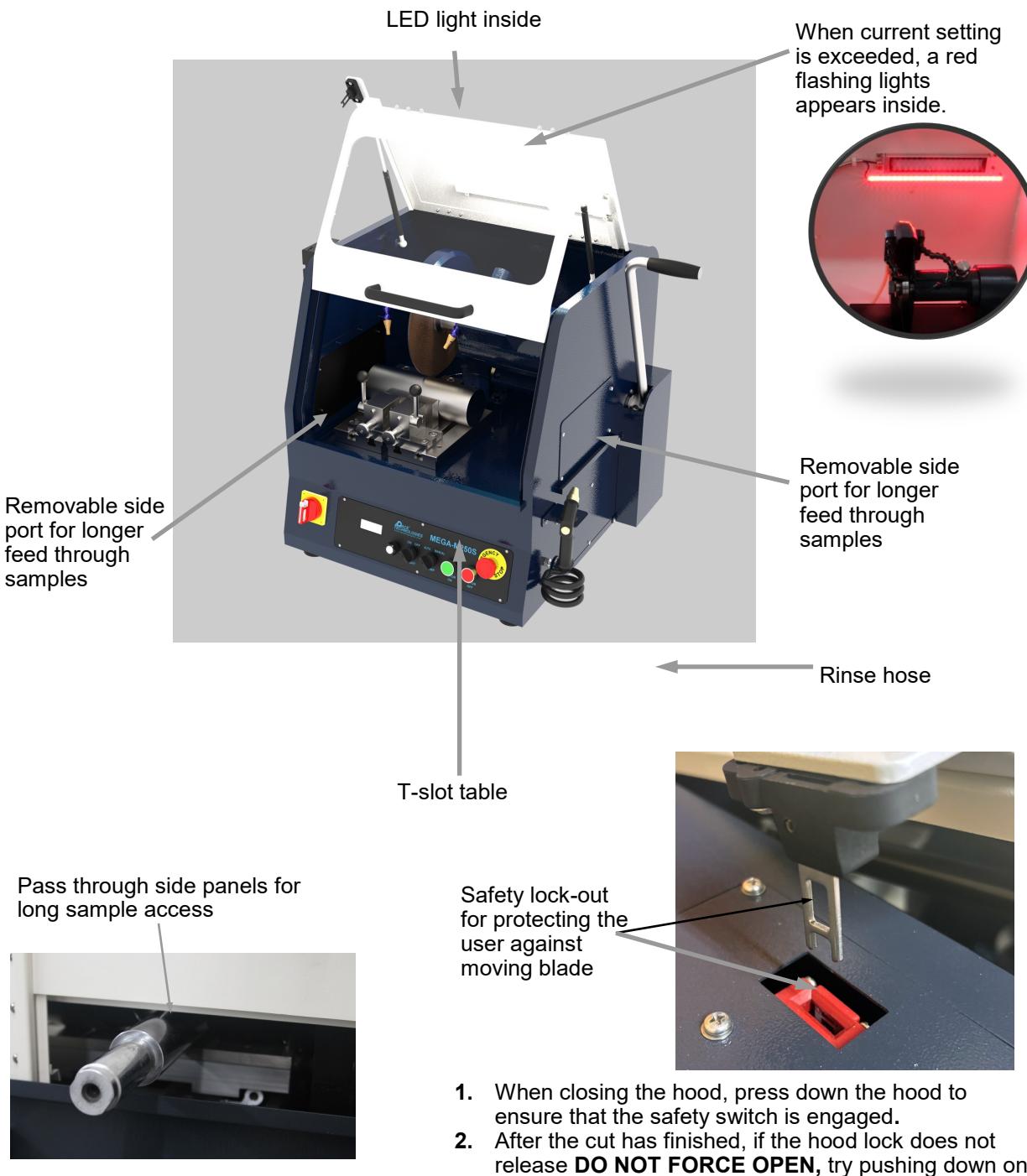
The **MEGA-M250S** is equipped with a powerful belt driven motor. In addition, the motor has an inductive brake for a quicker of halting the blade (approx. 5 seconds).

#### Manual feed cutting

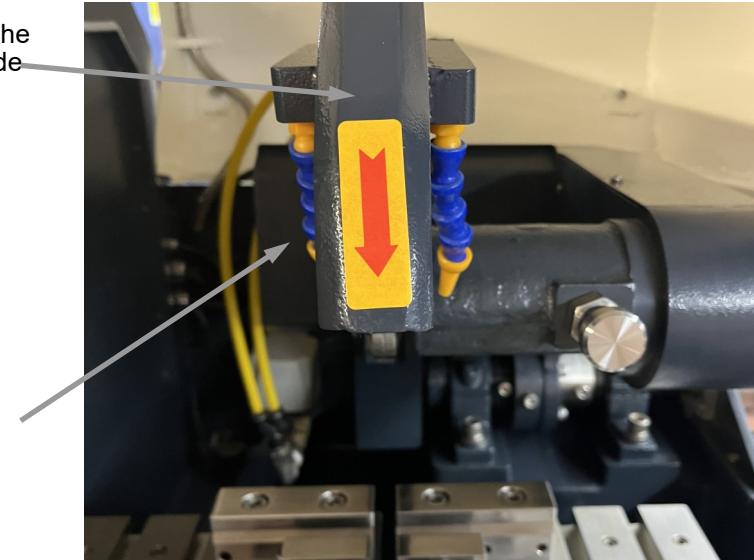
The **MEGA-M250S** is an easy-to-use manual cutter with simple controls.

The **MEGA-M250S** features a removable side port panel for sectioning longer samples.





Coolant applied through the shroud directly to the blade



Flexible coolant  
hose for application  
to cutting area  
(optional)

Easy to use  
vises



## 1.2 Technical Specifications

Electrical specifications:	Standard 208Y (phase-phase or 120/120/120 to ground), (380V, 480 optional)
Motor power:	3 hp (2.2 kW) - 3-phase unit
Cut-off wheels:	10-inch (250 mm) diameter
Wheel arbor:	32 mm (~1.25 inch) diameter
Speed:	300-3000 rpm
Maximum sample diameter:	3-inch (75 mm)
Wheel feed (z-axis)	3.25-inch (82 mm)
Weight:	Approx. 240 lbs (110 kg)
Dimensions (WxDxH):	<b>Hood Closed:</b> 29.5 x 27 x 28.25-inches (750 x 685 x 720 mm) <b>Hood Open:</b> 29.5 x 27 x 39-inches (750 x 685 x 990 mm)
Table dimensions (WxD):	9.75 x 9-inch (250 mm x 230 mm)
Cabinet:	Cast aluminum block construction
Hood:	Fabricated steel with Lexan safety glass
Working temperature:	32° - 100°F (0 - 40°C)
Shipping temperature:	32° - 100°F (0 - 40°C)
Storage temperature:	32° - 100°F (0 - 40°C)
Recirculation system (included):	14 gallons (53 liters)
MEGA-T2-BENCH (optional)	Support bench



EU Directives:

Machinery directive 2006/42/EC

## 2.0 Unpacking, Shipping and Installation

### 2.1 Unpacking

Unit is delivered in a crate. Unpack and check for completeness of parts.

**Measures WxHxD:** Approx. 38 x 38 x 38-inch

**Weight:** Approx. 260 lbs

### 2.2 Shipping

When moving crate, lift from bottom. To move **MEGA-M250S** use support bars provided with the machine.

The **MEGA-M250S** is constructed of sensitive electronic and mechanical components. **Do not drop.**

**!** **Caution:** Heavy equipment. Take care to avoid bodily injury.



(Installation continued on next page)

## 2.3 Installation

! Install unit carefully! Improper installation voids warranty.

The **MEGA-M250S** should be placed on a flat stable surface.

! Connect coolant tank supply, drain and electrical connections.



! **Electrical connections**—The standard saw is designed to operate at 208-220V 3-phase (120V-120V-120V-ground) (optional 380V). **Warning:** If not connected properly to 3-phase power damage may occur to the motor and void the warranty.

Verify voltage on nameplate

! Verify the direction of rotation of the cut-off wheel. The wheel should turn from top to bottom as viewed from the front of the machine. If not reverse any two of the 3-phase power wires.

(Installation continued on next page)

### Recirculating tank connections



**External coolant supply:**

Attach 3/4-inch (17mm) tube between pump and cutter.

**Drain:**

1.5-inch (38 mm) tube.

**Electrical connections:**

Connect electrical power cable to source.

**Note:** Inspect the operating voltage on the name plate.

**Electrical connection for external coolant supply:**

Power for recirculation system comes from the **MEGA-M250S**,

**Recommended Coolant:**

To minimize corrosion apply a coolant with a anti-corrosion additive or an oil emulsion coolant is recommended. **Note:** Recommended that the coolant be changed every 50 cuts or once a week, whichever occurs first.

(Installation continued on next page)

### 3.0 Safety Guidelines

#### 3.1 Warning Sign

! This sign points to special safety features on the machine.

#### 3.2 Safety Precautions

Careful attention to this instruction manual and the recommended safety guidelines is essential for the safe operation of the **MEGA-M250S**.

Proper operator training is mandatory for the safe operation of the **MEGA-M250S**. Any unauthorized mechanical and electrical change, as well as improper operation, voids all warranty claims. All service issues need to be reported to the manufacturer/supplier.

- ! Before operating, the cutting chamber hood must be closed. After cutting, the safety latch will not open for approximately 2-8 seconds after pressing the emergency or red stop button.
- ! Use only certified cut-off wheels from a professional supplier. Improper blades selection voids warranty. (For appropriate blade selection, refer to the Abrasive Blade Selection Guidelines Chart in Section 4.4)
- ! Disconnect power before opening the main unit.
- ! Replacement parts should be installed only by qualified personnel.
- ! Securely clamp the part /sample to the working table. During cutting, consider that the part may pinch and cause jamming of the cut-off wheel. Use the appropriate clamping devices to avoid this occurrence.
- ! Never start a cut under load.
- ! Make sure that the cut-off blade is rotating down and into the sample.

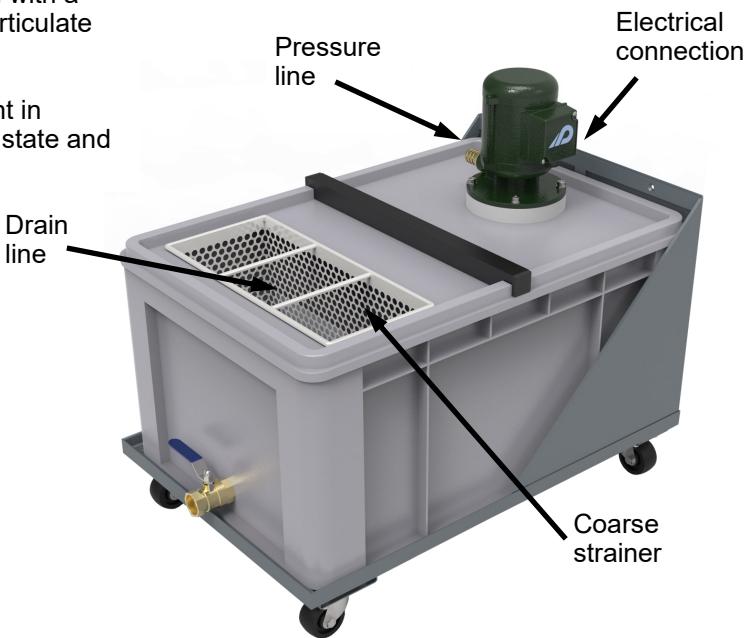
#### 3.3 Emergency Statement

The **MEGA-M250S** abrasive cutter has been designed for cutting metallographic specimens. **DO NOT CUT** oversize samples. Always follow proper operational guidelines and avoid contact with moving parts, lubricants and abrasives. Seek appropriate medical care for cutting injuries.

### Recirculation tank

The **MEGA-M250S** is equipped with a coarse filter to remove large particulate and broken blades

**Note:** Dispose of the old coolant in accordance with federal, state and local regulations.



### Rinse line

After use, water off the cutting chamber to prevent debris and corrosion build-up.

! **Leave the hood open to dry**



### 3.4 Safety Tests



Emergency stop switch

! Examine and verify that the **MEGA-M250S** safety devices and operating performance are in good working condition prior to use. The following safety checks are considered important:

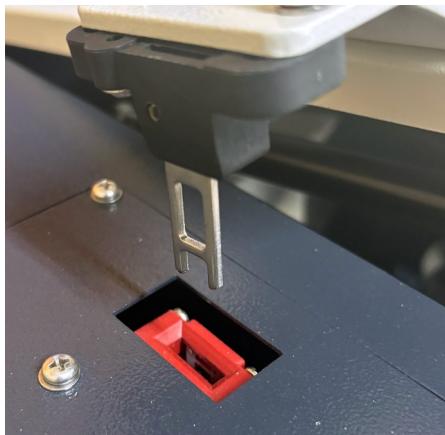
#### Emergency stop switch

**Test:** Activate the main switch and the close hood; depress emergency stop switch.

**Proper Response:** Machine powers down and motor stops in 2-8 seconds

**Malfunction:** Machine does not lose power.

**Corrective measure:** If system does not power down, disconnect power supply cord and call service technician.



Magnetic Safety switch

#### Magnetic safety lock out switch

**Test:** Activate the main switch and close hood; turn cut-off wheel ON then OFF; Try to open the hood.

**Proper Response:** Hood does not open for approximately 5 -10 seconds.

**Malfunction:** Hood opens immediately.

**Corrective measure:** If the cut-off wheel does not power down, disconnect the power supply cord and call service technician.

#### HOOD (Closing / Opening)

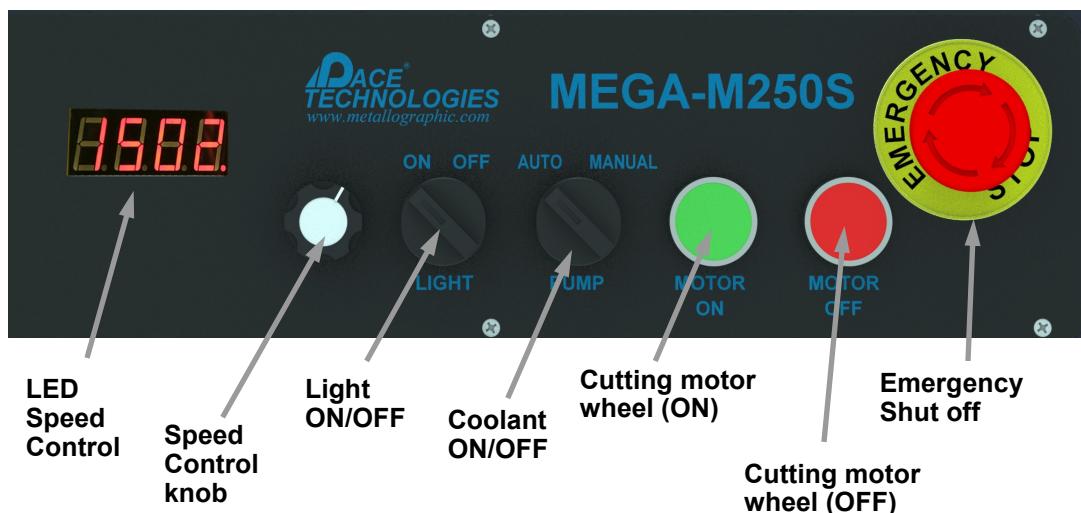
1. When closing the hood, press down on the hood to ensure that the safety switch is engaged.
2. If the hood lock does not unlock **DO NOT FORCE OPEN**, or try pushing down on the hood to release the safety pin.

#### 4.0 Start-up and Operation

##### 4.1 General

The **MEGA-M250S** is a manual wheel feed variable speed cutter.

##### 4.2 Control Panel



**Cutting wheel ON/:** Starts the cutting wheel.

**Cutting wheel OFF/:** Stops the cutting wheel (inductive brake engages to slow wheel). The hood cannot be opened until safety lock releases in approximately 5-10 seconds after pressing the stop button.

**Coolant ON/AUTO/OFF:** Operates the coolant pump in Auto or Manual mode. **Must be selected before starting the motor.**

**Light ON/OFF:** Turns inside chamber light ON or OFF.

**Speed Knob:** Rotate to select wheel speed

#### 4.4 Changing abrasive cut-off wheels

1. Remove blade locking bolt (reverse threaded).
  2. Position new 250 mm abrasive cut-off wheel into position.
- !** Use only certified abrasive cut-off wheels.
3. Gently tighten blade locking bolt (Note: locking bolt is reverse threaded).

#### Changing Blade

**Remove:** Loosen by turning clockwise

**Tighten:** Turn counter-clockwise



To prevent  
shaft from  
turning, push  
in locking rod  
to hold in place

**ABRASIVE Cutting CONSUMABLES SELECTION GUIDELINES CHART**

**Abrasive Cutting Fluids**

<u>Pace Product Name</u>	<u>Catalog Number</u>	<u>Packaging</u>
MAXCUT™ Abrasive Cutting Fluid (32 oz)	MAXCUT 1000-32	32 oz
MAXCUT™ Abrasive Cutting Fluid (128 oz)	MAXCUT 1000-128	1 gallon
MAXCUT™ 2 Cutting Fluid with Anticorrosion Additive (32 oz)	MAXCUT2 1000-32	32 oz
MAXCUT™ 2 Cutting Fluid with Anticorrosion Additive (128 oz)	MAXCUT2 1000-128	1 gallon

**250 mm (~10") MAXCUT™ Abrasive Blades 32mm (~1¼") Arbor**

<u>Pace Product Name</u>	<u>Catalog Number</u>	<u>Packaging</u>
Soft Non-ferrous Materials (Aluminum, Brass, Zinc, Etc.)	MAX-E250	10
Hard Non-ferrous Materials	MAX-C250	10
Soft Steels	MAX-E250	10
Case Hardened Steels	MAX-VHS250	10
Steels and Ferrous Metals	MAX-D250	10
Universal Thin Resin/rubber Alumina Blade	MAX-A250	10
General Purpose Industrial Blade	MAX-I250	10



MAXCUT-A Blade



MAXCUT-C Blade



MAXCUT-D Blade



MAXCUT-D-RT Blade



MAXCUT-E Blade



MAXCUT-I Blade

#### 4.5 Manual cutting (step-by-step procedure)

1. Connect electrical power and turn on master power switch on the side panel before opening the hood.
2. Position fixtures and sample near to cut-off wheel.
3. Close hood.
4. Turn on coolant and cutter motor.
5. Hand feed the cutting wheel or table feed into the sample.
6. Turn off cutter and allow blade to completely stop before opening cover.  
Note magnetic safety switch has an approximately 3-5 second delay. Cutter hood cannot be opened until safety switch is deactivated.

#### 4.6 Fixturing sample

For proper clamping, use the appropriate clamping vises to securely hold the sample in place. It is recommended that both sides of the part be clamped to avoid pinching of the blade (possibly breaking the blade) and to minimize burning of the workpiece during cutting.

! For proper fixturing, take into account the initial stress on the samples.

##### Fixture examples

###### Fast clamping



Left lever (Cat. No. QCL-1100)  
Right lever (Cat. No. QCR-1100)

Note: vises have a slot in them so that the face does not rotate



###### UNIVERSAL Clamping vise



UNIVERSAL (Cat. No. MG-01)  
Clamping height 1.8inch (45 mm)



MEGA Saddle Clamping vise  
(Cat. No. M-702)

## 5.0 Maintenance

### 5.1 Introduction

The recommended maintenance for the **MEGA-M250S** includes the following:

**Important: Clean the table feed shaft after using the cutter to keep the abrasive from building up in the bushing. If the table feed begins to become more difficult use WD-40 to clean the feed shaft until the feed improves.**

1. Use an anti-corrosion cutting fluid such as the **MAXCUT 2** cutting fluid. It is recommended that the cutting fluid be changed every 50 cuts or weekly for maximum effectiveness.
2. Rinse and dry the table and vises after use.
3. When the cutter is not in use, OPEN the HOOD to prevent humidity and corrosion build-up inside the cutting chamber.
4. If cutter will not be used for an extended period of time, coat the table and vises with a water displacement oil such as WD-40.
5. Use only recommended abrasive blades to minimize overheating the bearings and motor. Do not exceed the recommend amp rating of the motor.
6. Grease the appropriate fittings periodically (minimally after every 200 cuts or every other month, whichever occurs first).
7. Clean and apply a film of WD-40 on the table feed screw and bearing guides.
8. Periodically spray WD-40 between the inner arbor flange and the bearing housing to keep debris from building up.
9. Immediately replace any broken or damaged parts.

**Note: corrosion is considered a maintenance issue and not a warranty issue**

### 5.2 Cleaning outside cabinet

The cabinet and front shield should be cleaned occasionally with a moistened cloth. Do not use any chemicals or cleaning abrasives. We recommend an anti-condensation gel be used on the front panel.

## 6.0 Trouble Shooting

Problem	Cause	Solution
No power or function	a. Unit is disconnected from main electrical power supply. b. Main power switch is off. c. Emergency stop button engaged.	a. Verify electrical source and connection. b. Turn on main power switch. c. Release by turning clockwise.
Main motor does not operate	a. Hood not closed. b. Overload relays activated	a. Close hood b. Restart after resetting relay.
Pump motor does not operate	a. Plug is disconnected	a. Check plug.
Excessive vibration during cutting	a. Not cutting with enough force b. Specimen locked too far back on cutting table c. Incorrect blade selection	a. Increase cutting force. b. Move specimen forward. c. Use correct blade.
Corrosion of table of vises	a. Improper cleaning and drying b. Incorrect or old cutting fluid.  c. Cutting chamber has become a humidity / corrosion chamber d. Long term storage oxidation	a. Rinse and dry table and vises. b. Use an anti-corrosion cutting fluid such as the <b>MAXCUT 2</b> . It is recommended that the cutting fluid be changed every 50 cuts or weekly for maximum effectiveness. c. Open hood when not being used  d. If cutter will not be used for an extended period of time, coat the table and vises with a water displacement oil such as WD-40.
ERROR 01*	<b>Sudden stopping of motor after red light flashes</b> a. Feed rate too high b. Amperage draw is too high c. Improper blade selection  <b>Sudden stopping of motor with no red light warning</b> a. Feed rate too high b. Amperage draw is too high c. Improper blade	<b>Turn off main power for several seconds to reset and correct problem:</b> a. Reduce feed rate b. Decrease cutting force c. Use correct blade.  <b>Turn off main power for several seconds to reset and correct problem:</b> a. Reduce feed rate b. Decrease cutting force c. Use correct blade.
Hood does not open when motor is off	a. Trying to open the hood before the safety switch releases (approximately 2-3 seconds) b. Safety switch still does not disengage	a. Wait until the safety lock out clicks b. Try pushing down on the hood to release the safety pin in the safety lockout switch

\* If the motor stalls and an ERROR 01 is displayed, power off the cutter and wait until you here a small click from the driver for it to reset, typically <15 seconds.

## 6.1 Trouble Shooting Error Codes

Error Code	Code Description	Solution
<b>ERR 01</b>	IPM error	Disassemble and return to supplier
<b>ERR 02</b>	Over current	Check the setting parameters
<b>ERR 03</b>	EEPROM error	Rewrite the default value
<b>ERR 04</b>	Current sampling	Rewrite parameters
<b>ERR 05 (GF)</b>	Bus under or over voltage	Check the voltage and parameters
<b>ERR 06</b>	Communication anomaly	Check the wire connection
<b>ERR 07</b>	Locate failed	Check the encoder signal; Or the current feedback wrong. Reposition and try again.
<b>ERR 08</b>	Lost step when running	Normally, the reverse angle is 2 degrees, and the reverse angle is 20 degrees when positioning will be wrong. Reposition and try again.
<b>ERR 09</b>	Overload	Cutting too fast, too much load, or reduce the speed.
<b>ERR 10</b>	Module temperature is too high	Check whether the fan works properly
<b>ERR 12</b>	Power failure	Disassemble and return to supplier
<b>ERR 13</b>	Encode failure	Check wire connection, or the encoder was damaged
<b>ERR 14</b>	Motor get stuck	Check the motor or cutting speed is too high

## 7.0 Metallographic Cutting Basics

### Philosophy:

1. Cutting is the most important metallographic sample preparation step
2. Minimize damage during sectioning
3. Less sectioning damage = reduced number of grinding and polishing steps

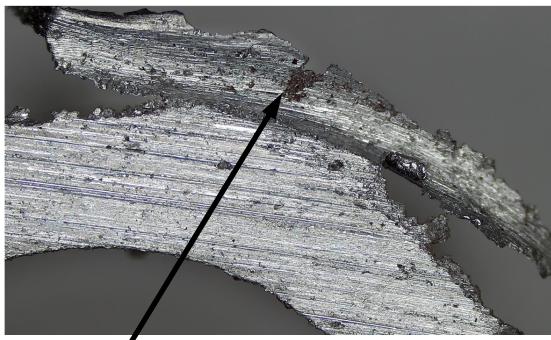
**Note:** In some cases cutting damage cannot be removed by subsequent polishing operations (especially for brittle samples)

### Time Well Spent:

1. Spend more time on sectioning in order to decrease overall sample preparation time
2. Protect integrity of the specimen with proper sectioning

#### Wheel feed

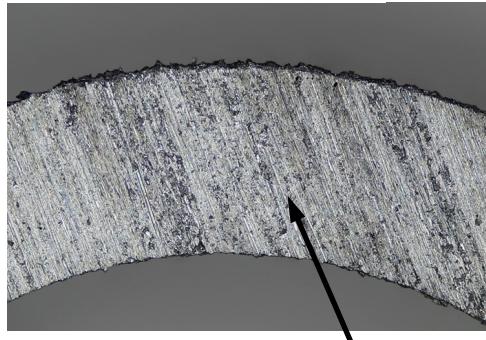
- High speed (3500 rpm)
- High load (10 amps)



Coarse finish with  
large cutting burr

#### Table feed

- Low speed (1500 rpm)
- Low load (2 amps)

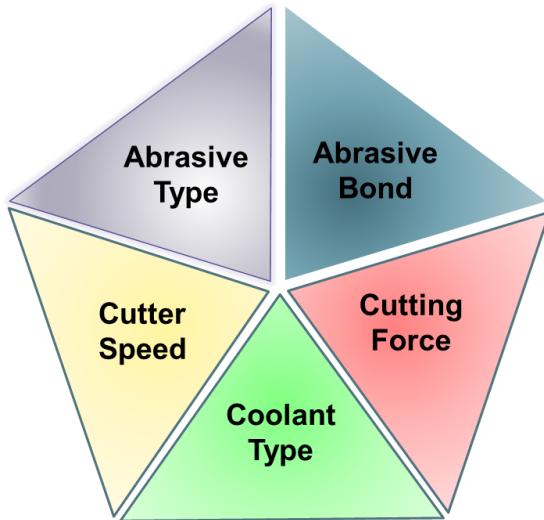


Finer finish with  
minimal cutting burr

## 7.0 Metallographic Cutting Pentagon

Five variables for successful sectioning:

- **Abrasive Type**
  - Silicon Carbide
  - Alumina
- **Abrasive Bond**
  - Resin
  - Rubber
- **Cutting Force**
  - Control by motor current
  - Cutter Speed  
Low (1500-2000 rpm)
  - Medium (2000-2500 rpm)
  - High (2500-3500 rpm)
- **Coolant**
  - Water-based
  - Oil Emulsion-based



### Metallographic Abrasive Blades:

- **Resin Bonded Blades**
  - Breakdown easily
  - Less smell and burning
  - More versatile
  - Alumina abrasives
- **Rubber Bonded Blades**
  - Longer life
  - Produces a burnt rubber smell
  - More likely to burn the sample
  - More difficult to match the blade to the material being cut
  - SiC and Alumina abrasives



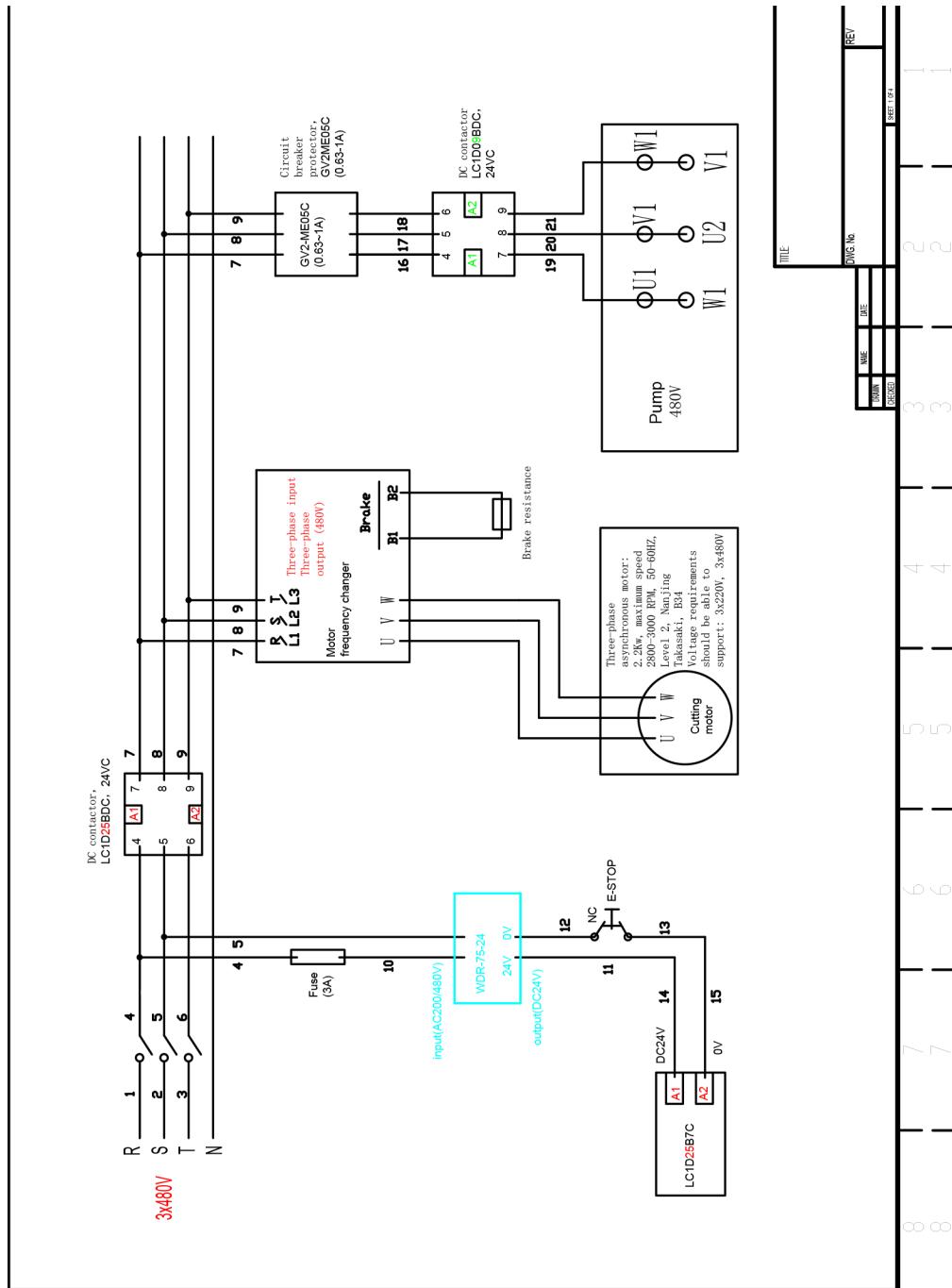
### **Machine Parameters:**

- **Wheel Speed**
  - Slower speed for softer metals (1500-2000 rpm)
  - Medium speed for most metals (2500-3000 rpm)
  - Higher speed for harder samples (3500 rpm)
- **Cutting Force**
  - Controlled by limiting current to the motor
  - Softer metals lower load (2-5 amps)
  - Most metals medium load (6-10 amps)
  - Harder samples higher loads (11-15 amps)

### **Recommended Cutting Procedures:**

Material	Abrasive / Bond	Blade	Cutting Speed	Cutting Force
Soft non-ferrous metals (aluminum, brass, zinc, etc.)	Alumina / resin	MAX-E	1500 rpm	2-5 amps
Hard non-ferrous metals (titanium, zirconium, etc.)	SiC / rubber	MAX-C	2500 rpm	5-10 amps
Soft steels	Alumina / resin	MAX-E	1500 rpm	5-10 amps
Hard and case hardened steels	Alumina / resin	MAX-VHS	2500 rpm	10-15 amps
General purpose steel and ferrous metals	Alumina / resin	MAX-D	2500 rpm	10-15 amps
Universal thin blade	Alumina / rubber	MAX-A	2500 rpm	10-15 amps
Industrial longer life blades	Alumina / resin	MAX-I	3500 rpm	10-15 amps
Ceramics and glass	Diamond / metal	DMAX	3500 rpm	5-10 amps

## 8.0 Electrical Drawing 3-phase power



Please read this instruction manual carefully and follow all installation, operating and safety guidelines.

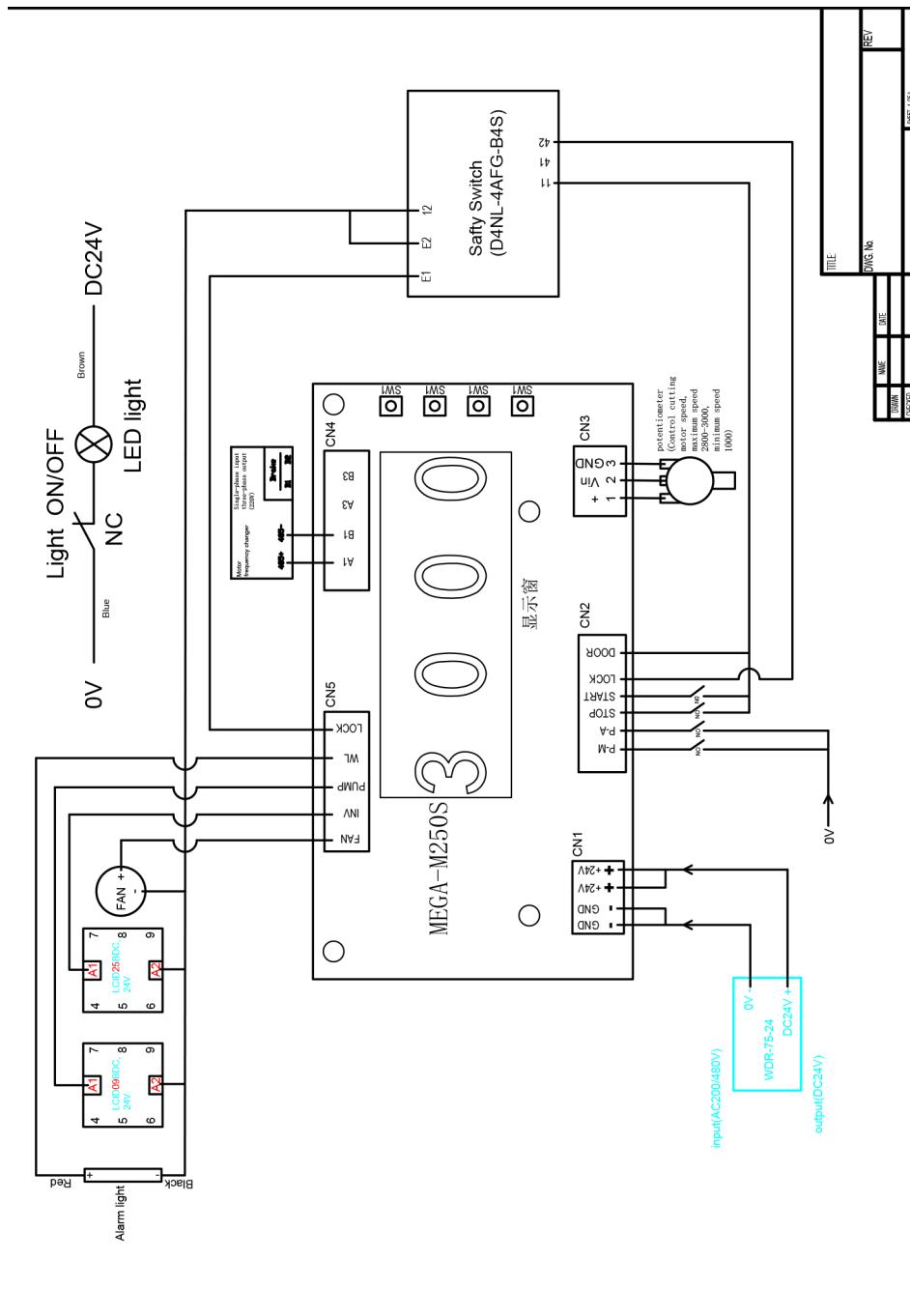


# **MEGA-M250S**

## *Abrasive Cutter*

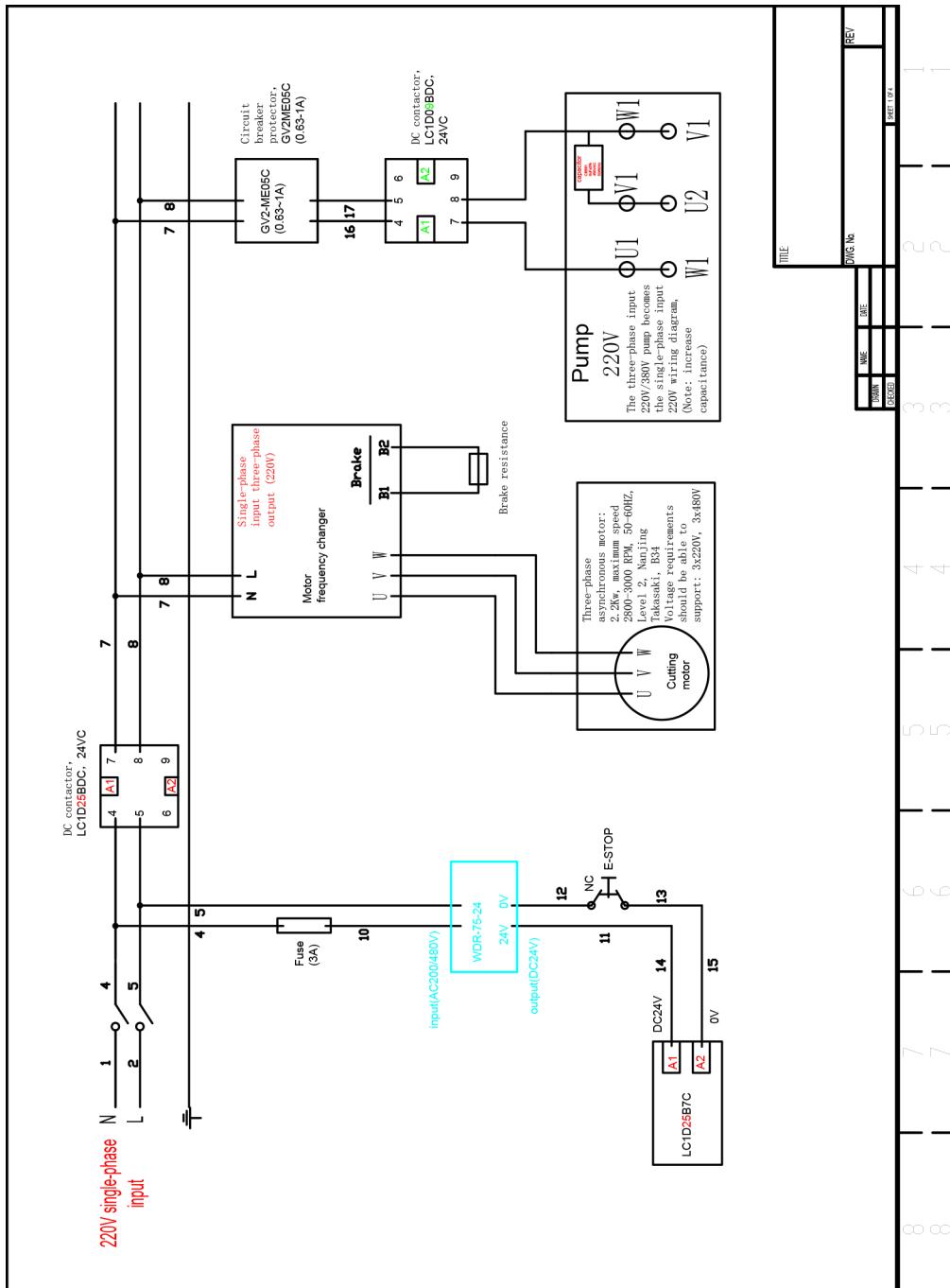
## INSTRUCTION MANUAL

3601 E. 34th St. Tucson, AZ 85713 USA Tel. +1-520-882-6598 Fax +1-520-882-6599 email: pace@metallographic.com Web: <https://www.metallographic.com>



Please read this instruction manual carefully and follow all installation, operating and safety guidelines.

## 8.0 Electrical Drawing Single-phase power



Please read this instruction manual carefully and follow all installation, operating and safety guidelines.

