

# D-2060

## Magnetic Wet Bench with 3-Phase FWDC Capability

The D-2060 is one of our most powerful wet magnetic benches. Providing 6,000 amps of 3-phase Full Wave Direct Current, this MPI equipment offers maximum magnetization for finding surface and sub-surface defects with clearer indications while using minimal power.

The two outputs are independently adjustable to set each magnetic field, circular or longitudinal.



### BENEFITS

#### Meets aerospace specifications

- Inspect a wide range of components reliably using machinery that meet all Nadcap specifications
- Assure testing accuracy and repeatability with direct amperage control and fluctuation mitigation

#### Faster part processing

- Reduce processing time with operator-enabled automatic Double-Mag Shot
- Generate 300+ shots per hour at maximum unit output
- Optional Database System with advanced touch screen operating interface and barcode scanner eliminates time spent on manual inputs and record keeping

#### Easy to use and maintain

- Make quick operational adjustments using the simple, user-friendly operator interface with touch-screen controls
- External pump system provides fast access for easy cleaning and service

#### Real-world dependability for minimal downtime

- Allen-Bradley PLC provides reliable controls and off-the-shelf replacements
- Advanced agitator system helps prevent blockages and clumping by keeping magnetic particles well suspended
- Rely on a 3-year warranty with best in-class service delivered by a global network of trained Magnaflux authorized service centers

### STANDARD FEATURES

- 5% duty cycle of 0.5 seconds on, 10 seconds off at maximum output
- Allen-Bradley PLC
- Control circuit feedback loop for amperage regulation and repeatability
- Simple touch-screen operator interface
- 3-year warranty on parts and labor
- External pump system for particle bath agitation, circulation and application
- Integrated ultra-low frequency, reversing, step-down DC demagnetization with 1-touch control
- Low-voltage output minimizes electrical exposure for operator safety
- Adjustable mag shot time from 0.5 to 2 seconds
- Automatic Double-Mag Shot with 1-touch control
- Mag-shot-activating front push bar with 1-touch control to enable/disable this feature
- Current assurance indicator light confirms magnetizing current delivery
- Solid state circuitry increases lifetime and performance of machinery
- Quick break feature on coil circuitry

### CONFIGURATION OPTIONS

- Long & Extra-Long Part Capacity to increase max clamping length to 102 in / 259 cm or 146 in / 370 cm
- 16 in / 40 cm, 20 in / 50 cm, 25 in / 63 cm, 30 in / 76 cm or 36 in / 91 cm Coil, or 19.5 in / 49 cm Clam-Shell Coil (instead of 12 in / 30 cm coil)
- Pneumatic Tailstock makes it faster and easier to position and remove longer parts from between the contacts
- Rotating Contacts with 70 lb / 31 kg part capacity minimizes part handling during inspection (minimum coil size required is 16 in / 40 cm, reduces part length capacity by 9 in / 23 cm, not compatible with Auto-Bath)

- Oversized Contact Assembly for headstock and tailstock, 12 x 12 in / 30 x 30 cm (minimum coil size required is 16 in / 40 cm)
- Reinforced Rail for heavier part load, 1,500 lb / 680 kg part capacity
- Dual-Touch Sensor eliminates risk of injury during pinch points

### PRODUCT PROPERTIES

<b>Magnetizing Current Capacity</b>	6,000 A 3-Phase FWDC <i>2,500 A or 6,000 AC</i>
<b>Maximum Part Length*</b>	54 in / 137 cm <i>102 in / 259 cm</i> <i>146 in / 370 cm</i>
<b>Maximum Part Diameter*</b>	12 in / 30 cm <i>16 in / 40 cm</i> <i>20 in / 50 cm</i> <i>25 in / 63 cm</i> <i>30 in / 76 cm</i> <i>36 in / 91 cm</i>
<b>Maximum Unsupported Part Weight Capacity</b> Only using Head and tailstock mounted V-Blocks	300 lb / 136 kg
<b>Maximum Supported Part Weight Capacity</b> using rail-mounted steady rests* (With reinforced rail)	700 lb / 317 kg <i>1,500 lbs / 680 kg</i>
<b>Particle-Bath Tank Capacity*</b>	20 gal/ 76 L <i>(34 gal/ 129 L,</i> <i>46 gal/ 174 L)</i>
<b>Available Voltages</b>	230, 380, 415, 460, 575 V
<b>Available Frequencies</b>	50 or 60 Hz

\* Optional feature configurations shown in italics

## UPGRADE OPTIONS

- MOD 2.5 AC magnetization / demagnetization adds 2,500 A of AC current to increase the variety and range of inspections the equipment can perform
- MOD 6.0 AC magnetization / demagnetization adds 6,000 A of AC current to increase the variety and range of inspections the equipment can perform
- Database System upgrade with advanced touch screen operating interface and barcode scanner for quality control traceability, record automation and reporting
- Auto-Bath upgrade with 22 in / 55 cm capacity decreases processing time by automatically clamping, bathing, magnetizing and unclamping the part
- XG-Series Conveyer Inspection Booth maximizes throughput by automatically transferring inspection-ready parts to an adjacent inspection booth
- GE-Series Inspection Enclosure Hoods with ventilation fan for a darkened inspection area without sacrificing function and operator comfort
- ST700 stationary overhead LED UV lamp, 100-240 V, 50-60 Hz