

D-2060 UL/CSA Certified

Magnetic Wet Bench with 3-Phase FWDC Capability

The D-2060 UL/CSA Unit is designed, built, and certified to UL/CSA 61010-1 by a third party Nationally Recognized Testing Laboratory (NRTL).

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

Unit designed to UL 61010-1 and CAN/CSA-C22.2 NO 61010-1

- Unit shipped with UL/CSA sticker from the Magnaflux Production Facility
- Standard components are further guarded, insulated, and shielded for added protection
- Unit is provided with Emergency Stop buttons which will shut off any in-progress magnetic current flow and dump air from the system to stop all movement
- A shorter stroke on the headstock is used to avoid pinch points

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 our industry leading 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
- 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 Part Capacity to increase max clamping length to 102 in / 259 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)
- 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

UPGRADE OPTIONS

- 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
- 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

PRODUCT PROPERTIES

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

* Optional feature configurations shown in italics