

MD3-2060

Multi-Directional Magnetic Wet Bench for AC, HWDC or 1-Phase FWDC Magnetization

The MD3-2060 multi-directional magnetic bench offers 5,000 amps of Alternating Current, 6,000 amps of Half Wave Direct Current and 6,000 amps of 1-phase Full Wave Direct Current for time-saving multidirectional magnetization which can find defects in all orientations with one mag-cycle.

The three outputs (contact, coil and Flux-Flo coil) each offer AC, HWDC or 1-Phase FWDC, and are independently adjustable to balance the magnet field intensity.

BENEFITS

Maximize part throughput

- Maximize throughput by magnetizing a part in all directions in a single shot
- 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
- Optional automated conveyer system minimizes part handling by transporting parts directly to the inspection booth

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

Advanced process control

- Assure testing accuracy and repeatability with direct amperage control and fluctuation mitigation
- Maximize consistency between tests with 1,000 customer-programmable techniques
- Track productivity using the automatic parts counter
- Prevent accidental and unauthorized alterations with multiple user profiles and varying tiers of control for a range of operator experience levels
- Daily reminder alarms help ensure measurements are compliant with process specification requirements

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
- Advanced touch-screen operator interface
- 1,000 customer-programmable techniques
- Automatic parts counter
- User-controlled security systems with password protection, supervisor locks and customizable operator access profiles
- Daily reminder alarms to verify UV light, visible light and particle bath concentration for process control requirements
- Dimmable UI display helps reduce operator eye fatigue and keeps ambient light below required minimums
- External pump system for particle bath agitation, circulation and application
- Integrated rapid-reversing FWDC or decaying-AC 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
- Three large, easy-to-read digital ammeters confirms amperage sent through the part
- Current assurance alarm with visual and audible alerts and alarm log to confirm magnetizing current delivery
- Solid state circuitry increases lifetime and performance of machinery

PRODUCT PROPERTIES

Magnetizing Current Capacity	AC	5,000 A
	HWDC	6,000 A
	1-Phase FWDC	6,000 A
Maximum Part Length*	41 in / 104 cm <i>(89 in / 226 cm, 133 in / 337 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) Both limits are considering the use of Rail Mounted Steady rest to help support part on rails	700 lb / 317 kg <i>(1,500 lb / 680 kg)</i>	
Maximum Part Diameter*	16 in / 40 cm <i>(20 in / 50 cm)</i>	
Available Voltages	230, 380, 415, 460, 575 V	
Available Frequencies	50 or 60 Hz	

* Optional feature configurations shown in italics

CONFIGURATION OPTIONS

- Long & Extra-Long Part Capacity to increase max clamping length to 89 in / 226 cm or 133 in / 337 cm
- 20 in / 50 cm Coil or 19.5 in / 49 cm Clam-Shell Coil (instead of 16 in / 40 cm coil)
- 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

- 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
- Inspection Enclosure Hood with ventilation fan for a darkened inspection area without sacrificing function and operator comfort, includes an EV6000 LED UV lamp, flame resistant curtains and visible lighting
- ST700 stationary overhead LED UV lamp, 100-240 V, 50-60 Hz
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NDT Supply.com, Inc.

7952 Nieman Road
Lenexa, KS 66214-1560 USA

Phone: 913-685-0675, Fax: 913-685-1125

e-mail: sales@ndtsupply.com, www.ndtsupply.com

