

MAGNETIC PARTICLE INSPECTION EQUIPMENT

Model MD3-2060

Experience BRAND NEW technology in a familiar package. Take the “guess work” out of Magnetic Particle Inspection. Increase your work flow with the PLC technology.

The MD3-2060 is our most versatile, powerful standard multidirectional unit. It offers time-saving multidirectional magnetization for detecting defects in all directions with one cycle, or conventional two-cycle operation. It provides alternating current (AC), full wave DC (FWDC), and half wave DC (HWDC) magnetization for surface or near-surface flaws. It provides enough amperage for a wide range of parts. A programmable logic controller (PLC) and a user-friendly graphical operator interface accomplish superior control of the units operation.

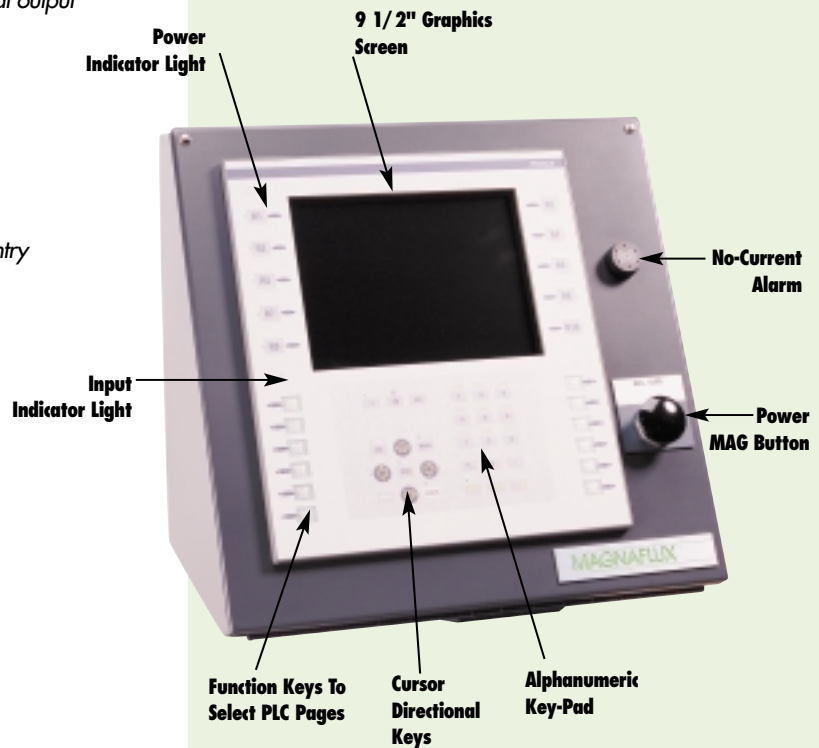


Benefits

- ▶ Ensures Cycle Repeatability by Controlling Mag Shots and Bath Applications
- ▶ Security System (password protection, supervisor locks) reduces the risk of error in set up and inspection by ensuring proper amperage fields
- ▶ 50 Customer Programmable menus for pre-programming of inspection setups. (Parameters for Magnetization/ Demag)
- ▶ Automatic Piece Parts counter for quality control reporting
- ▶ Quick Disconnect Wiring installed for ease of serviceability
- ▶ Decaying AC and Reversing DC Demagnetization to help reduce gauss level in part and enhance post operations like drilling, grinding, welding
- ▶ Controlled Break Circuitry/Quick Break which ensures magnetic field wraps around ends of test piece (crucial to final inspection)
- ▶ Current Assurance Indicator lets operator know the current did not pass thru or magnetic field was not set up in test piece
- ▶ Front & Hardwood Grilles: impervious to oils & water, forgiving surface for parts that may be accidentally dropped
- ▶ Push Bar: initiates mag cycle, frees up two hands for part handling and inspection
- ▶ Adjustable Tailstock facilitates movement back & forth on rail to accommodate various lengths of your test pieces

Features

- ▶ 6000 amp FW/HWDC and 5000 amp AC multidirectional output
- ▶ Multidirectional power supply — three phases: contacts, Flux-Flo™ coils and auxiliary coil
- ▶ Programmable Logic Controller (PLC) and Graphics Display Control Panel
- ▶ Large Illuminated Display with Digital Amperage Readout
- ▶ Three independent variable current controls with keypad entry
- ▶ Visual/Audible current assurance alarms with alarm log
- ▶ Modular digital solid state circuitry
- ▶ Quick disconnect wiring
- ▶ 50 customer programmable recipes
- ▶ Automatic piece parts counter
- ▶ Security systems (password protection, supervisor locks)
- ▶ Footswitch-operated pneumatic headstock
- ▶ Adjustable tailstock with crank
- ▶ Push bar
- ▶ Stainless steel tank
- ▶ Front and rear hardwood grilles
- ▶ Magnetization shot duration adjustment



Specifications

- | | |
|---------------------------|--|
| ▶ Dimensions w/o hood | 88 1/2"L x 41"W x 60 1/4"H
(224.8 cm x 104.1 cm x 153 cm) |
| ▶ Net weight | 1900 lbs (861 kg) |
| ▶ Coil diameter | 16" (40.6 cm) |
| ▶ Input | 460 VAC, 50/60 Hz, three phase |
| ▶ Line current | 400 amperes |
| ▶ Recommended line fuse | 200 amperes |
| ▶ Recommended wire size | #2/0 AWG |
| ▶ Duty cycle | 0.5 seconds ON, 10 seconds OFF |
| ▶ Part length capacity | 41" (104.1 cm) |
| ▶ Part weight capacity | 1500 lbs (680 kg)
w/optional steady rests |
| ▶ Tank capacity | 10 gallons (37.9 liters) |
| ▶ Convenience outlets (1) | 115 VAC, 5 amperes |
| ▶ Air supply | 60–100 psi (4.2–7.0 kg/cm ²) |
| ▶ PLC | Modular Design |
| ▶ Display screen size | 9 1/2" (24.13 cm) |

Programmable Logic Control

- ▶ Increase Reliability and Speed
- ▶ Reduce Operator Errors
- ▶ Print Reports
- ▶ Count Parts
- ▶ Maintain Cycle Repeatability
- ▶ Store and Recall Application Setups

MAGNAFLUX®

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We reserve the right to change specifications without prior notice or obligation.

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