

MAGNETIC PARTICLE INSPECTION EQUIPMENT



"MAGNAFLUX® Magnetic Particle Testing Equipment was completely scalable to our needs, allowing us to start small and add more capabilities as our business grew."

scalable



Magnaflux® Magnetic Particle Testing Equipment has been value engineered to meet or exceed government and industry inspection standards while remaining sensitive to the operating cost, speed and volume requirements of NDT customers.

Modular Capabilities

P-SERIES

The Magnaflux® P-Series is an extremely compact, lightweight portable magnetizing unit designed for use in a wide range of magnetic particle inspection applications that require only moderate power to perform.

Perfect for in-service inspections demanding maximum portability, the P-Series is built tough to take job-site abuse and offers many of the features and convenience of our larger units.

The current control potentiometer of P-Series P-70 and P-1500 units provides infinitely variable magnetizing and demagnetizing current control. A power transformer, supported by fan cooled silicon diodes, transforms the high voltage, low amperage line input to low voltage, high amperage half-wave D.C. for magnetizing. Low voltage, high amperage A.C. is also provided for magnetizing and demagnetizing.

P Series Features:

- Locate surface discontinuities using AC current. Switch cable connections to halfwave DC (HWDC) to locate near surface defects
- Locate discontinuities in any direction using prods, central conductor or coil wrap
- Infinitely variable current control
- Demagnetize parts in AC mode by slowly turning current dial to zero
- Built-in automatic-reset circuit breaker

P Series Benefits:

- Either-end terminals for quick changeover
- Unit comes with control cable with activation button

General Specifications:

	MODEL P-70	MODEL P-1500
Dimensions	17.5"L x 9"W x 8"H 44.5 x 22.9 x 20.3 cm	22"L x 9.5"W x 9.5"H 55.9 x 24.1 x 24.1 cm
Weight	35 lbs (15.9 kg)	93 lbs (42.2 kg)
Max Output ¹	750 Amps AC or HWDC	1500 Amps AC or HWDC
Current Input ² (single phase)	115 VAC 50/60 hz 230 VAC 50/60 hz	230 VAC 50/60 hz 460 VAC 50/60 hz
Line Current	26 Amps @ 115 VAC 13 Amps @ 230 VAC	42 Amps @ 230 VAC 21 Amps @ 460 VAC
Max Duty Cycle	2 Minutes ON 2 Minutes OFF	2 Minutes ON 2 Minutes OFF

¹Current ratings based on use of two 15-foot lengths of 4/0 cable.

²Other voltages available.



MAGNETIC PARTICLE INSPECTION EQUIPMENT

NDT professionals rely on Magnaflux to provide the best solution in Magnetic Particle Inspection Equipment for the detection of surface and near surface discontinuities in manufactured parts of all shapes and sizes. Built to stand up to tough industrial environments, Magnaflux equipment is prized for its ease of operation, rugged dependability and economical performance.

MAG KIT

Magnaflux Mag Kit

The Magnaflux® Mag Kit is a modular mag particle inspection system that allows lower volume NDT users to tailor a fully operational bench unit to their personal application needs by adding only the components that they currently require.

Using a portable power pack as a power supply, the Mag Kit is an economical, easy to operate alternative to more expensive, higher volume bench units when volume processing is not required. It provides the same level of inspection dependability in a lower volume, lower cost equipment package.

Dimensions: 50.5" L x 20.5" W x 50.25" H (Table Height 36")
128cm L x 52.1cm W x 127.6cm H (Table Height 91.4 cm)

Flexibility Features:

- Purchase just the base unit (bench, headstock, tailstock and coil) if you already have a portable power pack
- Purchase the base unit with portable power pack
- Specify recirculating pump spray system with original purchase or add it later (not needed if aerosols are used)
- Conveniently switch magnetizing current from head/tail to coil by changing 2 plug-in cable connections
- Conduct remote inspections of large, heavy parts with the same portable power pack by using cables and prods

General Specifications:

- Coil Diameter - 11" I.D. (28.0cm)
- Max Part Weight - 350 lb. (159kg)
- Max Part Length - 39" (99.1cm)
- Mag Kit Weight - 300 lb. (136kg)

Part Number:

69360-11 Mag Kit
623830 Mag Kit Hood Assembly with ZB-100F Black Light

Shown with optional power pack, pump and ZB-100F UV Black Light.





Mag Kit Pump

The Magnaflux® Mag Kit Pump has been developed for use with Magnaflux Mag Kit units to provide continuous spray and recapture of the Magnaglo® bath. The pump includes hose, nozzle, fittings and 5-gallon pail.

Part Number:

69390 Mag Kit Pump 115V

69395 Mag Kit Pump 230V

DEMAG EQUIPMENT

S-66 Demagnetizing Coil

The Magnaflux® S-66 Demagnetization Coil is a compact tabletop unit designed to be conveniently integrated into existing mag particle inspection systems. Oil and waterproof by virtue of its plastic-impregnated glass coating, the S-66 can be flush mounted to the work surface with supplied angle supports to facilitate easy part insertion by the operator.

Dimensions: 15.5" L x 9.4" W x 14.4" H (39.4 cm L x 23.9 cm W x 36.6 cm H)

General Specifications:

- Elec. Requirements - 115V - 12 amp
230V - 6 amp
460V - 3 amp
- Opening Size - 6" x 6" (15.2 cm x 15.2 cm)
- Shipping Weight - 85 lb. (38.6 kg)

S-1212 Demagnetizing Coil

The Magnaflux® S-1212 Demagnetization Coil is a compact tabletop unit designed to be conveniently integrated into existing mag particle inspection systems. Oil and waterproof by virtue of its plastic-impregnated glass coating, the S-1212 can be flush mounted to the work surface with supplied angle supports to facilitate easy part insertion by the operator.

Dimensions: 24" L x 11.8" W x 24" H (61 cm L x 30 cm W x 61 cm H)

General Specifications:

- Elec. Requirements - 230V - 30 amp
460V - 14 amp
- Opening Size - 12" x 12" (30.5 cm x 30.5 cm)
- Shipping Weight - 285 lb. (129.3 kg)



69390

