

## MAGNETIC PARTICLE INSPECTION EQUIPMENT

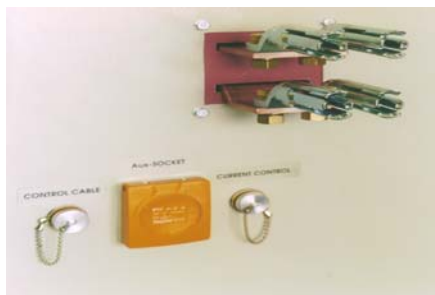
- Two models  
3000/5000 Amp  
AC/HWDC
- Automatic constant  
current regulation
- Switchable AC/HWDC  
output
- Infinitely variable  
output
- Fast decay  
demagnetisation

# MOBILE TESTING UNITS MAG 50/3HM & MAG 50/5HM

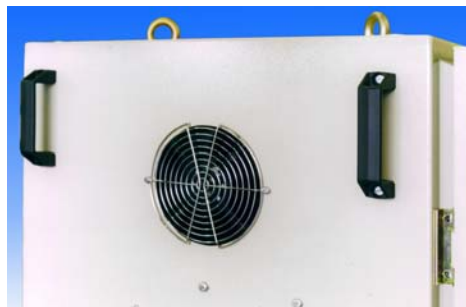
Designed for the inspection of components where it is more convenient to take the inspection process to the component rather than move the component to a specific inspection area



The complete heavy duty MPI process in mobile form



Cable Connections



Grab handles both sides

# MAGNAFLUX<sup>®</sup>

Division of ITW Ltd

## MAGNETIC PARTICLE INSPECTION EQUIPMENT

# MOBILE TESTING UNITS

## MAG 50/3HM & MAG 50/5HM

The MAG50/3HM and MAG50/5HM mobile units are designed to deliver 3000 and 5000 amperes respectively of alternating or half wave DC current to cope with a wide range of magnetic particle inspection applications.

These mobile power packs have a constant current system that eliminates the guesswork of controlling current by means of conventional tap switches or variable transformers, which only adjust the output voltage. The precise amount of current desired will be delivered to the output circuit when the magnetising shot is initiated. The self-regulating current circuitry and solid state controls automatically compensate for variation in load impedance such as heating or varying cable lengths. As a result every current control setting delivers the exact amount of current indicated up to the maximum output of the unit for a particular load.

The output current waveform is selected by a door-mounted switch and the actual output is enabled by a remote push button switch.

The MAG50/3HM and MAG50/5HM have switch selectable fast AC demagnetisation achieved through an electronically controlled current decay system. Demagnetisation can also be accomplished by passing a part through a coil carrying AC current.

### Specification and Operating Data

Model	MAG50/3HM	MAG50/5HM
Maximum Output Current	3000AC or HWDC	5000AC or HWDC
Line current for duration of maximum current shot	190A approx.	300A approx.
Mains input cable size (30 metre length or less)	35mm <sup>2</sup>	50mm <sup>2</sup>
Recommended Fuse Size	80 amp	125 amp
Main Electrical Supply Requirements	380 or 415 volts, 50Hz, 1ph	
Open Circuit Output	10 volts	
True Rms and MAG-Amps calibrated analogue ammeter		
Only requires proprietary test equipment for calibration		
Duty Cycle at maximum output 1.5 seconds 'ON' 15 seconds 'OFF'		
Overheat Protection		
Enhanced Operator Safety with 55 volts to earth		
Leakage Protection (RCD) on operator controls and auxiliary socket		
Switch selectable AC/HWDC output		
Unit and Remote Current Adjustment		
Fast electronically controlled current decay demagnetisation		
Fused Isolator		
Unit Size	900mm wide x 680mm deep x 1350mm high	
Unit Weight	335Kg	345Kg
Units carry the C E mark and conform to the appropriate European Union Directives		

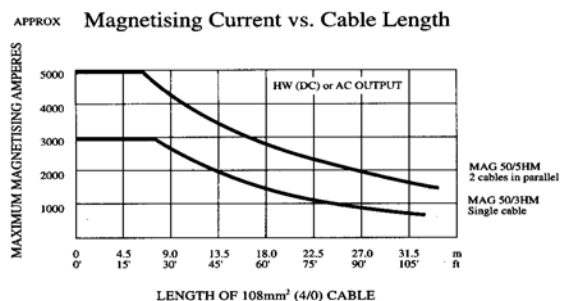
- Switchable peak reading option available
- Output cables must be ordered separately
- i.e. Contact Prods, Magnetic Leeches, Split Coils.



Part No 001C164 Mag50/3HM  
Part No 001C162 Mag50/5HM



Part No 001M004 (1000A)  
Part No 001M005 (2000A)



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