



The **MAGMASTER 2000** is an economically priced compact unit ideal for production or batch testing of a wide variety of ferrous components for fatigue or processing defects by the magnetic particle method.

Nuts, bolts, pins, shafts, con rods, gears, camshafts etc. can be quickly and thoroughly tested.

Complies with International standards for magnetic particle inspection - ASTM E1444-94a, AS1171, BS6072 and Electrical Safety Standard AS3100.

A range of optional accessories is available to extend the versatility of the machine's operation, including HWDC magnetising current for the detection of subsurface defects.

BRIEF SPECIFICATIONS

- Two axis magnetising.
Current through part to check for longitudinal or lengthwise cracks, and coil magnetising to check for radial or transverse cracks.
- 2000 amp AC peak magnetising current. Optional halfwave DC current.
- Accepts parts up to 1100mm long and 30kg in weight.
- 250mm internal diameter traversing coil, producing up to 6000 peak ampere turns.
- Continuously variable current control enabling setting of any required magnetising current value up to the rated maximum.
- Automatic press button electronic demagnetising.
- Electronic timer automatically controls the period of the magnetising current.
- Digital Ammeter, accurately indicates the magnetising current.
Holds reading on display for 4 seconds and auto resets.
- Pneumatic clamping system.
The left hand head is fitted with an air operated contact face initiated by a hand switch and provides a high pressure end clamping action for positive electrical contact. An air regulator and gauze are fitted to control the clamping pressure.
- Head contact faces fitted with resilient multilayer copper gauze pads.
- Vee blocks supplied to support and facilitate rotation of cylindrical parts.
Can be easily removed to provide a large unobstructed contact face.
- 20 litre inspection fluid storage system with efficient particle agitation and recirculation system, suitable for oil or water based inspection fluids.
- Operates from a nominal 240V 50Hz single phase supply.
Maximum demand is 18 amps.

Quality at an Affordable Price
by LECTROMAX AUSTRALIA

P.T.O.

BENEFITS

- Australian manufacture backed by over 30 years experience in magnetic particle inspection equipment.
- High quality design and construction.
- Stainless steel tanks.
- Reliable plug in electronic control system.
- 2 year warranty on electronic modules.
5 year warranty on the magnetising transformer.
- Operator efficiency enhanced by ease of operation, e.g. quick changeover from **HEAD** to **COIL** and **AC** to **DC** modes by a selector switch.

OPTIONAL EQUIPMENT

OPTION 01 **HALF WAVE DC**

In addition to AC magnetising, HWDC can be selected when greater depth of penetration is required for detection of subsurface defects. Often specified for aeronautical inspection procedures.

OPTION 02 **LIGHT RESTRICTING HOOD**

Essential to provide a semi darkened environment when using fluorescent inspection. Provides the contrast necessary for the detection of fine indications.

Complete with sliding front curtain. The hood folds back for overhead loading.

OPTION 03 **BLACKLIGHT LAMP**

High intensity 125 watt blacklight (ultraviolet) lamp for use with fluorescent inspection fluid.

OPTION 04 **EXTENSION MAGNETISING CABLE KIT**

For off bench testing of parts too large to be accommodated on the machine.

Comprises: 2 x 2.5metre cables with spring clamps to attach to part.
1 x 5 metre cable to encircle the part or form a coil.
1 x Remote hand/footswitch c/w 4m control cable and plug.

OPTION 05 **QUALITY CONTROL KIT**

Essential to maintain a high standard of quality control over the system to ensure maximum performance.

Comprises:- * A magnetic flux test ring, c/w central conductor, to check the relative effectiveness of the magnetic system during vee shots.
* A test tube and stand to check fluid particle concentration.
* A magnetic field indicator to check for residual magnetism after demagnetising.

SHIPPING DIMENSIONS 215cm L x 93cm W x 165cm H Weight Approx. 380kgs.

SUPPLY REQUIREMENTS 240V1PH 50Hz Other Voltages / Frequencies to order.

The MAGMASTER 2000 is one of a wide range of crack detectors manufactured by LECTROMAX AUSTRALIA.

Manufactured by -

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