

M-Series mobile power pack M-530

Magnetic particle inspection
equipment

General Description

The M-530 mobile power packs offer a convenient solution to in-field testing. Designed to be taken to the component for inspection, the M-series is ideal for performing magnetic particle inspection of in-field parts or large heavy parts that require only moderate power.

These power packs have a constant current system that eliminates the guesswork of controlling current by means of conventional tap switches or variable transformers. The precise amount of desired current is delivered to the output circuit when the magnetising shot is initiated. The self-regulating current circuitry and solid state. As a result, every current control setting delivers the exact amount of current indicated up to the maximum output for a particular load.

the M-530 have switch-selectable AC demagnetization achieved through an relay -controlled current decay system. Demagnetization can also be achieved by passing a part through a coil carrying AC current.



Product Features

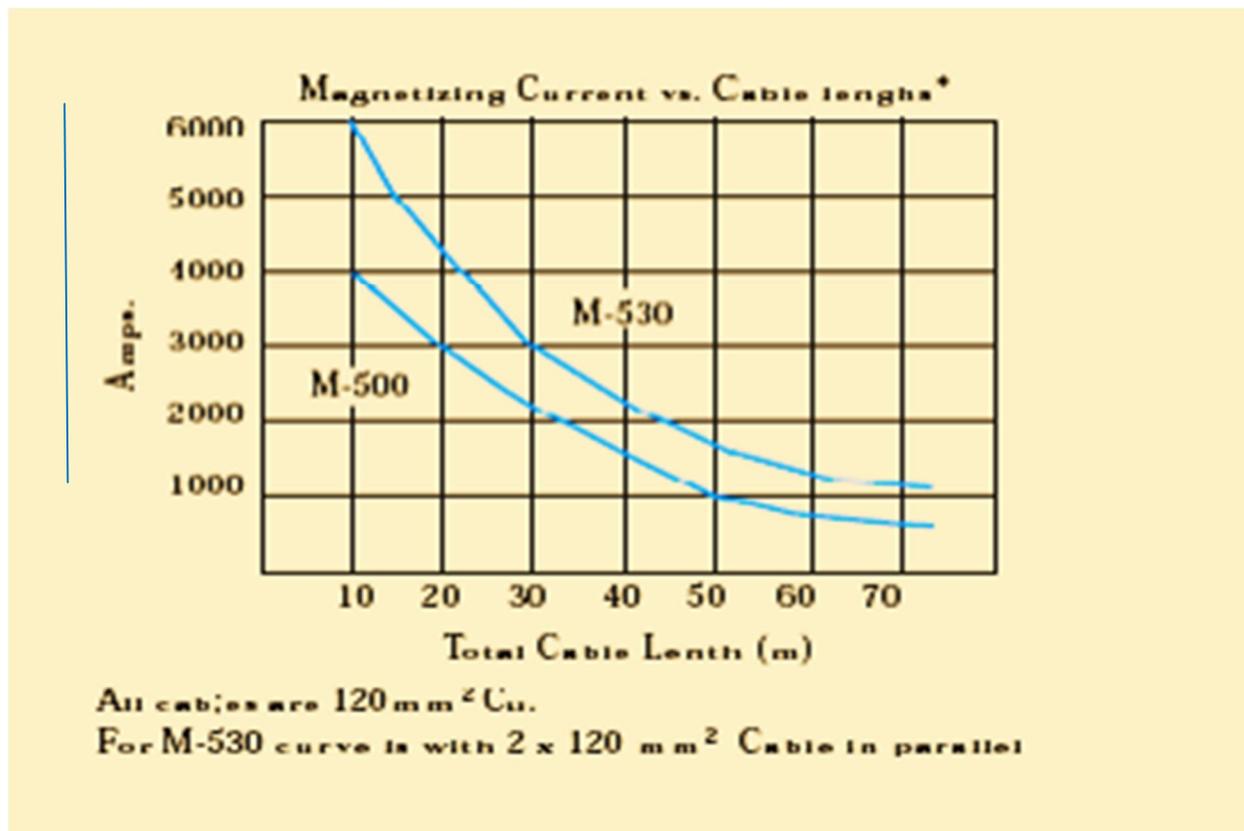
- M-530 is 6,000 Amp AC/HWDC
- Automatic constant current regulation
- Infinitely variable output
- True RMS and MAG-Amps calibrated analogue ammeter
- Only requires proprietary test equipment for calibrations
- Unit and remote current adjustment
- Push-button, automatic AC decay Demagnetization
- Fused isolator
- Locate defects in any direction using prods, central Conductor or coil (wrap the part with 3-5 turns of cable).
- Remote current control option for convenience and productivity.
- "Dial Amps" thyristorized, self-regulating current control with closed loop feedback compensates for voltage fluctuations, electrical resistance, and prod placement.

Specification and Operating Data

Maximum output current	6,000 Amps AC or HWDC
Line current draw for duration of maximum current shot	ca 220 Amps
Recommended external fuse size	250 Amp
Mains input cable size (30 m length or less)	25 mm ² Cu cable 3 core
Mains electricity supply requirements	415 Volts, 50 Hz, 2lines of 3ph
Open circuit voltage	17 Volts
Duty cycle at maximum output AC/HWDC	0.8 seconds 'ON', 6 seconds 'OFF'
Unit size	1020 mm length x 750 mm width x 910 mm high
Unit weight	410 Kg
Part number	F08003

All units carry the CE mark and conform to the appropriate EU directives.

M-530



Optional Accessories

Product description	Suitable for	Part number
Magnetizing cables - 120 mm ² x5Mx1	M-530	F05004
Magnetizing cables - 120 mm ² x10Mx1	M-530	F05007
Remote current control pendant with 10m. cable	M-530	F05008

***Doubling the cable length reduces resistance at any amperage, thus increasing effectiveness.

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F/MKTG/146/0 Rev 06/2015

