

# P920

## Portable Power Pack

The P920 portable power pack is an economical and convenient way to inspect a wide range of assemblies for both surface and near-surface defects.

This portable unit has an aluminium chassis, composite end panels and a coated aluminium top cover fitted with carrying handles. The operating controls are mounted on the front panel, with the ventilating fan, mains input and circuit breaker at the rear.



### Front panel controls

Infinitely variable output current, 'mains on' lamp and analogue ammeter complete with AC/DC switch.

### Front panel output terminals

Three either-end output terminals - common, AC and HWDC:

- AC current develops a strong magnetic field in the outer skin of parts under test and is recommended for surface defects. AC current minimises background interference and should be used for demagnetising parts.
- HWDC current develops a magnetic field which penetrates into the part under test and can reveal both near-surface and surface defects. The pulsating effect of HWDC increases particle mobility.

### FEATURES

- PAC and HWDC output
- Eitherend terminals for quick changeover
- Demagnetising facility
- Choice of prod tips

### PRODUCT PROPERTIES

<b>Magnetising current output</b>	AC/HWDC
<b>Maximum intermittent output into 9 m x 108 mm<sup>2</sup> cable</b>	1,500 Amps
<b>Open circuit output voltage</b>	5 Volts
<b>Control switch voltage</b>	50 V AC
<b>Current draw from supply at maximum current output</b>	55 Amps at 240 V 30 Amps at 415 V
<b>Overall dimensions</b>	325 mm width 325 mm height 640 mm length
<b>Nett weight</b>	54 Kg

Note: AC current in RMS values, HWDC current in MAGAMP values.

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

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## INSTRUCTIONS FOR USE

Select AC or HWDC current operation by connecting cables to the appropriate end terminals and choosing the required ammeter range.

For circular magnetisation, use Pistol Grip Prods or Leeches to pass current directly through the part under test.

For longitudinal magnetisation, wrap cable around the part to form a 3.5 turn coil or use a split coil. These coils can also be used as a means for demagnetising by selecting AC current and pulling the part away from the coil or by continuously reducing the current to zero.

Activate the current shot from either the switch fitted to the Pistol Grip Prods or a remote push button.

## USER RECOMMENDATIONS

<b>Prod Sets</b>	Prod set for P-Series portable power packs (001C090)
	Prod set with switch and 4.5m cable (lug) (001C164)
	Prod set with switch and double 3.75m cable (lug) (001C162)
	Replacement prod stem (038P003)
	Replacement switch (015S178)

## PART NUMBER

007E005