



MODEL NPT-1000

**Replaces T.S.I.'s
Portamag
MP-1000**

Portable Power Pack with Pulse Modulation

The Mag-P.I.E. Portable Power Pack model NPT-1000 is a specialized instrument for generating intense magnetizing and demagnetizing current fields for the magnetic particle inspection method of flaw detection in ferrous metals. This unit provides AC or HWDC output currents of up 1,000 amperes in both Normal and Pulse Train modes. The NPT-1000 employs the same style and functionality as the old T.S.I. Portamag units but incorporates microprocessor-based SCR phase controller & demag circuitry into the overall design.

The Pulse Train feature has several advantages over normal operation including reduction in cable heating and reduction of power consumption by 70%. The Pulse Train feature provides full effective magnetizing AND demagnetizing output current fields that exceed MIL and Industrial performance requirements.

Required Accessories: 4/0 out cables with Either End connectors, remote control cable trigger switch, power cable plug.



Features & Advantages

- Microprocessor-based phase controller circuitry for reliability
- All electronic controls ensures accurate and repeatable mag shots
- Large bright LED digits are easily visible in any environment
- Pulse train modulation- longest continuous operating time in the industry
- Pulse train modulation significantly reduces SCR stack & cable heating
- Auto Demag feature allows quick & easy demagnetization of parts
- Separate AC & HWDC meter adjustments for accurate calibration settings
- Recessed panel meter & controls protects front panel from user abuse
- High output forced air cooling lowers temp of internal circuit elements
- Either End output cable connectors
- Heavy duty steel enclosure with non-skid runners and powder coat gloss finish

Specifications

Output Current Range..... 0-1,000 Amp
 Digital Display..... 3 1/2 Digits-LED Low Pwr
 Accuracy..... 3% ±2 digits
 Power Source..... 120 VAC Optional 240 VAC
 Input Amps (full pwr)..... 40 Amp or 20 @ 240 VAC
 Line Frequency Range..... 47 to 63 Hz
 Operating Temperature Range..... 0 to 48 °C
 Outer Dimensions..... 8 × 11 × 20 inches
 Weight..... 60 Lbs.

Max Output per Cable

4/0 Cable Length	20'	30'	40'	50'	60'
Current Output	1000	900	700	600	500

