

**Precision Welding
in a Portable System**

P300™

Bred from the stringent requirements of aero engine repair, the Liburdi Dimetrics P300™ portable, full function welding power supply provides high precision welding in standard tube and pipe welding applications. This modular and light weight design delivers a super fast 150,000 cycles per second series switch to produce an incredibly crisp and stable welding arc every time.

Using Puls weld® current module technology, the portable P300™ power supply is a revolution in high integrity welding applications and is unique to the Liburdi Dimetrics Corporation.



BOILER

TUBE

TUBESHEET

**HIGH INTEGRITY TIG
WELDING SYSTEMS**



Weld Quality Starts in the Arc

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P300™

Precision Welding in a Portable System



The Power of Control

The P300™ uses the latest technology in advanced Field-Programmable Gate Array (FPGA) and PC based controls to precisely automate welding current, 4 synchronized servos, data logging, USB and Ethernet. It features software which simplifies the calibration, programming and welding functions as well as providing the flexibility to operate a wide range of heads and motors using Back Electromotive Force (EMF) and Tachometer.

Physical Characteristics

Height: 9.75" (250mm)
Length: 20" (500mm)
Width: 32" (810mm)
Weight: 110 lbs (50kg)

Options

- Offline Programmer
- Notebook Computer Interface
- Custom Head Developer Kit
- Offline Programming and Data Log Tools
- Ethernet Streaming Telemetry and Control
- Modbus/TCP/IP Control Interface
- Operators Pendant
- Optional 2 Axis for 4 Servos Total
- CE Compliant Version Available

Welding Specifications

Welding Range: 1 to 300 Amperes
Peak Pulse Current: 300 Amperes
Weld Current Increments: 0.1 Amperes
Continuous Weld Current: 200 Amperes (at 18 Volts)

Standard Controller Features

- Automatic Schedule Generator
- PC/104 architecture
- USB/Ethernet Connectivity
- Automatic Software Calibration for Current, Volts, Travel, Wire
- Backward Compatibility with Legacy Dimetrics heads
- Adapters available for all commercially available heads
- Data logging
- 2 axis standard (Travel and Wire)

Current Pulsing up to 10,000 Hz in 0.1 Hz steps
Duty Cycle 0-100 in 1% steps

Utilities

Primary Voltage: 480, 3 Phase 60/50 Hz
*Optional 240VAC, 3 Phase 50/60Hz only available by request.
**CE, CSA and UL Compliant Versions Available

Optional User Configured Pendant

- Multi-Language Capability

- 9,999 program segments. Segments have programmable slope for smooth transitions.
- Maximum travel and wire speed are head dependent. Parameters can be programmed in inches or metric values.
- Travel is adjusted in 0.01 rpm steps. Wire in 0.1 ipm steps
- Design your own user interface directly through the ethernet port.



Termiflex Pendant



Orbital Pendant

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