

**The Standard for  
Cryogenic and LG**

## **Gold Track® VP**

The Gold Track® Variable Polarity (VP) system is the newest and most advanced welding system in the industry. Its unique patented Puls weld® square wave variable polarity process uses a fully adjustable level of cathodic etching to remove oxides, thereby cleaning the weld surface and producing the highest quality welds possible.

The Gold Track® VP is capable of operating enclosed and open frame weld heads, as well as industrial welding lathes and seamers, for a variety of fusion and wire feed applications requiring high integrity welds. The Gold Track® VP is ideally suited for aluminium but can also be used with a range of superalloys, and other challenging materials.



**TUBE**

**PIPE**

**X-RAY QUALITY**

**VARIABLE  
POLARITY**



**Weld Quality Starts in the Arc**

USA | tel: 1-704-230-2510 | [dimmktg@dimetrics.com](mailto:dimmktg@dimetrics.com)  
INTERNATIONAL | tel: 1-905-689-0734 | [liburdi@liburdi.com](mailto:liburdi@liburdi.com)  
EUROPE | tel: +31-6-2036-1018 | [liburdieurope@liburdi.com](mailto:liburdieurope@liburdi.com)  
[www.liburdi.com](http://www.liburdi.com)

# Gold Track<sup>®</sup> VP Variable Polarity

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## The Power of Control

The state of the art control architecture is expandable to 8 servos of wire and motion control, has USB and Ethernet ports, and supports connectivity to the Internet, MODBUS, and high speed data monitoring. In addition to the welding functions, the servo and I/O functions can be connected through the auxiliary port and used to operate custom applications such as lathes, seamers, machining, and inspection equipment.

## Leaping Ahead

The fusion of precision Pulsaweld<sup>®</sup> aerospace technology and advanced controls offers unparalleled versatility and performance. For high reliability welding in orbital and industrial aluminum applications, the Gold Track<sup>®</sup> VP is the superior solution capable of meeting the most demanding needs.

## Physical Characteristics

Height: 39" (990 mm)  
 Length: 37" (940 mm)  
 Width: 23" (585 mm)  
 Weight: 600 lbs (272 kg)

## Welding Specifications

Welding Range: 1 to 250 Amperes  
 Peak Pulse Current: 250 Amperes  
 Weld Current Increments: 0.1 Amperes  
 Continuous Weld Current: 200 Amperes (at 30 Volts)

## Utilities

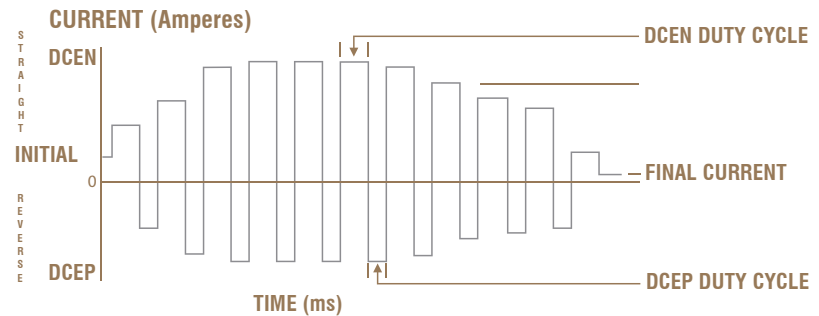
Primary Voltage: 480/400 VAC  
 Line Current 20 Amp Max.

## Options

- Automatic Schedule Generator
- Offline Programmer
- Notebook Computer Interface
- Custom Head Developer Kit
- Ethernet Streaming Telemetry
- Modbus control interface

## Standard Controller Features

- PC/104 architecture
- USB/Ethernet Connectivity
- User Configurable Pendant
- Automatic Software Calibration for Current, Volts, Travel, Wire
- Backward Compatibility with Legacy Dimetrics heads
- Adapters available for all commercially available heads
- Data logging



\*wave form can be adversely affected by length of cables and other parasitic inductance losses

System	Specialities	Hot Wire	Amps (peak)	Amps (cont.)	Servo Motor Drives* Max Servos	Feedback Type	Control Channels** Digital I/O	Analogue I/O	Water Cooler
<b>GT<sup>®</sup> VI</b>	Top Range, Tube, Pipe, Hotwire	YES	600	500	8	EMF, Tach Encoder	45/52	16/16	Integrated
<b>GT<sup>®</sup> VP</b>	Variable Polarity	N/A	250 (+/-)	200 (+/-)	8	EMF, Tach Encoder	45/52	16/16	Integrated
<b>P300<sup>™</sup></b>	Portable Mid Range, Tube, Pipe	N/A	300	250	4	EMF, Tach	37/36	8/8	External
<b>ORBITIG 240<sup>™</sup></b>	High Integrity GTAW Code Quality Portable System	N/A	240	210	4	EMF, Tach	37/36	8/8	External
<b>PTW 160<sup>™</sup></b>	Portable tube welding	N/A	160	90	2	EMF, Tach	20/20	4/4	Integrated

\*Rotation, Oscillation, Wire Feed, AVC or custom \*\*Depending on weld head configuration free channels can be used for customization

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 Specs subject to change



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