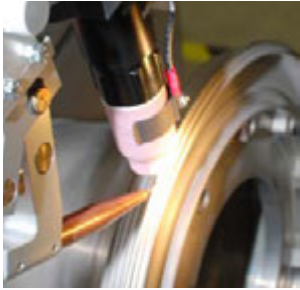


# Dabber®

Liburdi Automated Welding Systems



## 3 - 5 Axis

### Precision Seal Welding

Precisely Controlled Beads on Thin Edges with Minimal Heat Affected Zones

Available for GTAW, PAW, GMAW and Laser Process

Automated Articulated Arm Configuration Available

Our Legendary Control System can be Retrofitted onto any Existing Welding System.



The industry standard for precision welding, the Liburdi Dabber® produces precisely controlled beads on thin edges with minimal heat affected zones.

The Dabber® offers versatility in applications ranging from titanium, super alloy jet engine seals, alloy steel molds and diesel engine valves. Built in feature allows the ability to seam in a straight line up to 42" with linear boom.

### Powered by our Legendary Gold Track® VI

The state of the art control architecture is expandable to 8 servos of motion control including wirefeed, and comes standard with

high speed data monitoring. Our GoldTrack® VI welding system has USB and Ethernet ports and supports the latest technology in connectivity to the internet, MODBUS.

In addition to the standard 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. The Gold Track® VI is an ideal partner with our Dabber® system.



# Dabber®

Liburdi Automated Welding Systems



## Physical Characteristics

Design:	Circumferential Welding
Standard Floor Space:	144" x 120" (3.7 m x 3.1 m)
Overall Height:	103" (2.6 m)
Width:	57" (145 cm)
Weight:	4800 lbs (2200 kg)
Number of Axes:	3 axis (x,y,z) RBM along with 2 axis positioner (rotary and tilt)

## Operating Environment

Temperature:	50°F to 86°F (10°C to 30°C)
Relative Humidity:	5% to 95% (Non-Condensing)

## GTVI Physical Characteristics

Height:	39" (990mm)
Length:	37" (940mm)
Width:	23" (585 mm)
Weight:	600 lbs ( 270 kg)

## Utilities

Primary Voltage:	240-600 VAC
Current:	Three Phase 50/60 Hz
Argon:	60 psi (400 kPa)

## Welding Specifications

Welding Range:	1 to 600 Amperes
Peak Pulse Current:	600 Amperes
Weld Current Increments:	0.1 Amperes
Continuous Weld Current:	500 Amperes (at 30 Volts)

## 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

## Water Circulator

Coolant Tank Size:	5 gallons (19 l)
Input Power:	Integrated
Water Flow Switch:	0.1-1.0 gpm (0.37-3.7 l/min)

## Wire Feeder Control

Wire Feed Speed Control:	Servo Motor
Dabbing Cycle Frequency:	0 to 10 Hz
Wire Feed Rate:	0 to 100 ipm (0 to 300 imp optional)

## Gas Control

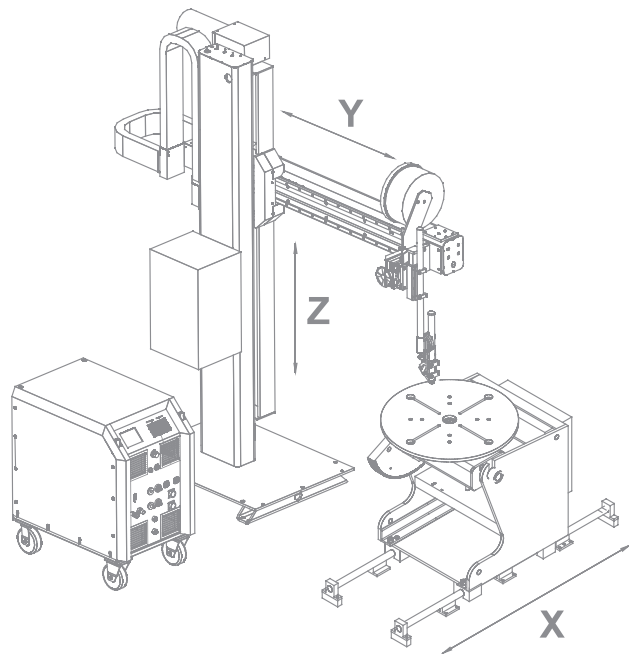
Shield Gas Flow Rate:	0-50 CFH (0-23.5 l/min)
Fixture Gas Flow Rate:	0-50 CFH (0-23.5 l/min)
Gas Flow Switches:	20 psi (1.4kg/cm <sup>2</sup> )
*Plasma Gas Flow Rate:	0-6 CFH (0-2.83 l/min)
(*Optional. Other Rates Available)	

## Torch Manipulator

Z-Axis Travel Distance:	50" (127 cm)
Y-Axis Travel Distance:	42" (107 cm)
X-Axis Travel Distance:	36" (91 cm)
Platform:	64" x 84" (162 cm x 213 cm)
Height with Lifting Eye:	117" (300 cm)

## Precision Rotary Positioner

Load Capacity:	1500 lbs (680 kg) *other sizes optional
Eccentricity, Overhang:	4" - 4" (10 cm - 10 cm)
Anti-Backlash Features:	Available
Table Diameter:	30" (76 cm), Others Available
Table Flatness:	0.006"/ft. (0.05 cm/m)
Rotation Speed:	0.03 -2.0 RPM
Tilt Range:	-5 to +95
Tilt Speed:	0.5 RPM



## System Options:

- Positioner Rails
- Oscillation
- Micro Plasma Welding
- Hot Wire Welding
- Internet Capabilities

## Remote Pendant

- Cycle Start/Stop
- E-Stop the torch
- Travel, Wire, AVC, Oscillate, and Jog
- Parameter Trim
- Parameter Display

## Automatic Voltage Control (AVC)

- 5-40 Volts
- Programmable Sensitivity
- Touch / Retract (GTAW only)
- 20 Hz Update

