Key features:

Narrow gap joint design

Increased deposition rate

Microprocessor control

Simplistic operation

Consistent weld properties

Application

High accuracy fabrication

P–600Z Dual Torch External Welding System

Dual torch, fully customizable automated GMAW or Pulsed–GMAW welding with precise, clean results.

The P-600Z Dual Torch External Welding System displays consistent welds with parameter control. The user has a range of 32 programmable welding passes per torch. The machine also boasts both horizontal and vertical tracking to maintain the centre of the bevel and tip-to-work distance.

The P-600Z incorporates torch and tracking controls on board, an external wire feeder and an external power supply controller with an easy-to-use handheld user interface controller. The machine is suitable for Gas Metal Arc Welding (GMAW) or Pulsed-GMAW welding process. This machine's versatile design is widely compatible with most constant voltage or pulsed current welding power sources including new inverters. The P-600 can perform external root pass in addition to standard hot, fill, and cap pass welding.

The onboard computer ensures precise control of welding parameters: volts, amps, travel speed, oscillation, dwell times, etc. A secure data key prevents unauthorized weld parameter variables which means you know your setup will be correct when you come back to it. The data key also keeps a real-time log of all weld data for further processing in Microsoft Excel.

P-600Z Dual Torch External Welding System

Length	24.5"	622mm	Wire Spool Weight	30lbs	13.6kg
Width	14.5"	368mm	Vertical Axis Stroke	2"	50.8mm
Height	15.5"	393mm	Head Angle Adjustment	±0–10O	–
Weight	39lbs	17.7kg			
Oscillation Rate[1]			0–220 osc/min		–
Oscillation Width[2]			0–2"		0–50.4mm
Dwell Time[2]			0–2 seconds		–
Wire Feed Speed[3]			100–625 IPM		2.56–16 meter/min
Travel Speed[4]			4–60 IPM		0.1–1.54 meter/min
Tilt Sensor			Accurate to ±1O		
Wire Feed Motor (DC Brush-type motor			Speed controlled via digital encoder		
Travel Motor (DC Brush-type motor)			Speed controlled via digital encoder		
Oscillation/Horizontal Motor			Uses a digital stepper motor		
Vertical Motor			Uses a digital stepper motor		
Minimum Cutback Distance (bevel to coating)			Please consult CRC for your application		
Minimum Cutback Distance (bevel to concrete)			12.75"		323.9mm

Programmable Parameters

Pass and Weld Names
Crater Fill Time
Pipe/Band/Wire Diameters
Burn Back Time
Welding Process
Blow Wire In Puddle Delay and Period
Motor Speeds
Post-Purge Time
Motor Ramp Times
Units (English or Metric)
Motor Speed Limits
Clockwise or Counter-Clockwise Bug Type
Potentiometer Function
Horizontal Bias
Oscillation Width and Width Limits
Auto Tilt-Based Welding Mode
Oscillation Frequency
Dry Cycle Mode

Welding Power Supply PID Parameters
Turn Display On or Off
Arc Trim Range and Limits
Enable/Disable Oscillation Width Adjustment
Work Point Range, Limits, and Ramp Time
Oscillation Width Adjustment Increment
Arc Voltage Range and Limits
Support for Multiple Shielding Gas
Hot Start Work Point, Voltage, and Time
Reverse Travel Speed
Vertical/Horizontal Tracking Speed
Enable/Disable Data Logging
Vertical Target (Amps and Volts)
Data Logging Distance
Vertical Target Limits (Amps and Volts)
Weld Position, etc.
Vertical Target Increment (Amps and Volts)
Out of Limit Weld Cut Off
Vertical Tracking Thresholds (Amps and Volts)

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