

ARC-05HV ARC-05HV Horizontal & Vertical Cladding System

Turnkey Solutions Built Right

The ARC-05HV Cladding System has both vertical and horizontal welding capabilities which allows for a variety of welding applications. The system comes standard with two servo driven, 3-jaw chuck headstocks, and 60" cross slides to provide a quick transition between vertical and horizontal cladding set ups. A standard ARC 5 PLC control unit with touchscreen operator interface controls each set up. With the ARC-05HV, your vertical cladding system and your horizontal cladding system can occupy the same floor space and share the same operator interface.



FEATURES

- Standard ARC 5 PLC control unit with touchscreen operator interface, weld schedule storage, 100% continuous AVC that maintains voltage while following the part, and teach & repeat programming of intersecting bores for automatic bore cladding.
- Self-contained, skid mounted unit with up to 350 amp welding power supply, as well as a 150 amp hot wire power supply.
- Horizontal overlay process doubles the deposition rate.
- Heavy duty slides with up to 60" horizontal travel and 60" vertical travel.
- Excellent system for quadrature, longitudinal, and transverse welding applications.

ARC-05HVGT Technical Capabilities and Specifications

ARC-05HVGT	Description
Control	PLC
Automatic Voltage Control	Yes
Touchscreen Programming	Yes
Hand-held Operator Pendant	Yes
Cabinet Housing	NEMA 12
Displayed Unit of Measurement	Imperial/Metric Switchable on the fly from HMI
Number of programs (Internal memory)	50,000
Interface for external printer	USB and Ethernet Compatible
Compact flash	2 GB
USB	Yes
Data cable	Ethernet
RMS Values Displayed	Yes (Can Display Peak, Background, or RMS)
Wire Counter for Accurate Measurement of Usage	Yes
Arc On Timer	Yes
PLC Remote Diagnosis	Yes
Software operation Language	English, Ability to program any language into HMI and be switchable
Welding Process	TIG-Hotwire
Programming Capability	Position Based Calculations (Faster and Easier Programming)
Simple 2 Point Programming of Cylinders	Yes
Simple 4 Point Programming of Tee Joint	Yes
Simple 4 Point Programming of X Joint	Yes
Simple 3 Point Programming of Upper Minor Bore	Yes
Simple 3 Point Programming of Lower Minor Bore (Seat Pocket)	Yes
Intersecting Bores for Cylindrical Bores (Intersecting Center Lines Only)	Yes
Ring Groove Programming	Yes
Over Ride of Volts, Amps, HW Volts, WFS, Table Speed while welding	Yes
Real time Position Over Ride of Programmed Positions while welding	Yes
X Axis	Motorized, 24" Travel
Z Axis	Motorized, 42" Travel
Y Axis	Manual, 4" Travel
Turntable Capacity	6,000lb @ 12" w/ 3-Jaw Chuck
Tabletop Size	36"
Bore Torch	1.6" Diameter, 36" Length, Adjustable Angled Head
Maximum Part Height	20"
Basic Data Logging with Heat Input Calculation	Yes
Slip Ring for Turntable for Preheating	Optional

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Over Ride of Volts, Amps, HW Volts, WFS, Table Speed while welding	Yes
Real time Position Over Ride of Programmed Positions while welding	Yes
X Axis	Motorized, 60" Travel
Z Axis	Motorized, 60" Travel
Y Axis	Manual, 4" Travel
Headstock	5,000 lb @ 12" — 3-Jaw Chuck
Turntable Capacity	5,000 lb @ 12"
Tabletop Size	24"
Bore Torch	1.9" Diameter, 30" Length, Adjustable Angled Head
Maximum Part Height	30"
Basic Data Logging with Heat Input Calculation	Yes
Slip Ring for Turntable for Preheating	Optional