



AVC-5 System

EXACT CONTROL OF ARC LENGTH

Arc Products' AVC-5 Systems utilize a control and drive unit to maintain precise TIG and plasma arc length in automated systems. In long automated welds, the system compensates for tungsten erosion, keeping the weld zone and heat input consistent throughout the length of the weld. The system is easy to program and integrates with a wide range of power supplies, torches, and positioners for assembling turn-key automation systems.

AVC-5 FEATURES:

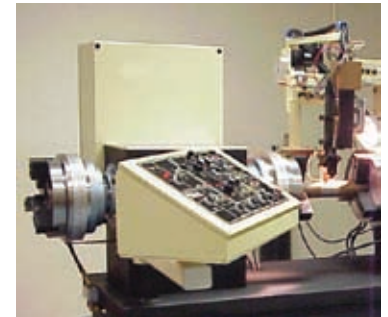
- AVC-5 acts as weld process master to power supply, DWF-4, and DirectArc systems.
- Integrates with a wide range of power supplies, positioners and multi-process controllers.
- Standard and Compact drives available to meet your requirements.

BENEFITS

- 1. Easy to Setup**
With little to no fixturing the system can be setup for your specific requirements.
- 2. Easy to Operate**
Simple programmable control.
- 3. Instant Rewards**
Low-cost automation, faster production, reduced welder fatigue, reduced production costs.

IDEAL FOR WELDING

- Tube and Pipe Mills
- Aerospace
- Pharmaceutical
- Precision TIG and Plasma Weldments



AVC-5 System includes Slide, Control Unit, and Cables



AVC-5 System

EXACT CONTROL OF ARC LENGTH

FIELD APPLICATION



Welding stainless steel pipes in a pipe mill

By combining an AVC-5 system, two MA-40 magnetic arc controls, two MP-4 probes, and a plasma welder, the pipe mill was able to decrease the weld production time, eliminate second operations, and virtually eliminate weld failure. The combined effect was greatly improved production time, with lower rejection rates.

INTEGRATES WELL WITH

DIRECT ARC

DirectArc technology provides complete control over the weld puddle. When oscillating, the puddle is pulled side to side providing uniform penetration.

DWF-4

Digital Wire Feed Systems provide exact wire input for high precision applications. The control is easy to program and integrates well with the AVC and DirectArc systems.



| | Stroke Length | Compensation Rate | Manual Rate | Load Capacity |
|---------------------------|------------------|---------------------------|----------------------------|---------------------|
| Standard AVC Drive | 6.5" (165 mm) | 22 ipm max (559 mm pm) | 12 ipm max (305 mm pm) | 45 lbs (20.4 kg) |
| Compact AVC Drive | 1" (24.5 mm) | 15 ipm max (381 mm pm) | 7.7 ipm max (196 mm pm) | 10 (4.5 kg) |

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

WORLD-CLASS WELDING AND AUTOMATION EXPERTISE

Arc Products has been designing and manufacturing automated welding equipment since 1980. Our off-the-shelf and custom systems increase weld quality, improve the working environments, and lower production costs. With our recent incorporation into Lincoln Electric, we can now offer our current and future customers unparalleled automation and weld processes expertise.

EXCEPTIONAL CUSTOMER SERVICE

Through Lincoln Electric, Arc Products provides a global network of facilities and people to provide quick response and personalized attention. No matter where your welding operations are located today, no matter where they will be tomorrow, Lincoln Electric welding experts can provide local support, ready to create and implement solutions that fit your needs.

VALUABLE CUSTOM AND TURN KEY SOLUTIONS

While Arc Products offers a wide spectrum of pre-engineered systems, we also offer the ability to modify or completely customize our equipment to meet your needs. Furthermore, through the Lincoln Electric facilities across the globe we offer completely customized turn-key systems designed to meet your precise needs. Contact us today!



ARC PRODUCTS, INC. A Lincoln Electric Company

1245 30th Street
San Diego, CA 92154
Toll-Free: 800-770-0063
Fax: 619-628-1028
E-mail: sales@ArcProducts.com
www.ArcProducts.com

