



# **SWSI**

**Southern Welding Systems International LLC**

**Welding | Industrial | Safety**

**International Wholesale Distribution**

**Contact us for Pricing:**

**Phone: 281-485-9772 | Fax: 281-485-4386**

**Email: [Sales@swsintl.com](mailto:Sales@swsintl.com) | Website: [www.swsintl.com](http://www.swsintl.com)**

**Address: 3908 1st Street Pearland, Texas 77581**

# AUTOMATED

## MANUFACTURING SYSTEMS

Products shown in this section are more complex and may require Miller® factory support at additional expense to assure the system and components needed are properly selected and installed. Consult the factory for ALL Automation and Robotic applications at **1-920-954-3813**.

[MillerWelds.com/Advanced](http://MillerWelds.com/Advanced)



## Auto-Access® Systems

See Literature No. AU/8.0

For robotic automation – seamless integration of digital control technology combines inverter welding power source and robotic interface.



AA-40GB Motors  
(Motor control cables must be ordered separately.)

AA-40GB motor connections.

**AA-40GB Wire Drive Motor Assembly with OCP (Over Current Protection)** to protect against current surges. Design utilizes an improved sheet metal enclosure including printed circuit board. It features a threaded gas connection and a direct-panel-mounted, quarter-turn motor control cable connection that eliminates motion stress on the motor's power and tachometer feedback wires.



Allows for **any** input voltage hookup (208–575 V) with no manual linking. Assures rock-solid, consistent output on fluctuating primary lines.

MIG welding programs include **Accu-Pulse®**, **Accu-Curve™**, standard or adaptive pulse, conventional MIG and Metal-Cored programs.

**Accu-Pulse®** MIG process delivers precise control of the arc even over tack welds and in tight corners.

**SureStart®** technology provides consistent arc starts by precisely controlling power levels for specific wire and gas combinations.

### Optional Access-able software:

Accu-Pulse™ tandem (factory-installed only), Accu-Speed™ for Palm or PC, RMD® (Regulated Metal Deposition) for Palm or PC, Access® File Management for PC, and WaveWriter™ File Management with Wave Shaping.

### Access® Multi-MIG® Welding Process Capabilities

Process	Standard Spray	Pulsed Spray	Accu-Pulse® Accu-Curve™ Accu-Speed™ (Optional)	Standard Short Circuit	RMD® Regulated Metal Deposition (Optional)
Weld Puddle Control	Flat/Horizontal		All Position Performance		Thin Materials/Gap Filling

Note: Look for high-speed video clips of Accu-Pulse, Accu-Curve, Accu-Speed and Front Panel Simulator at [MillerWelds.com/advanced](http://MillerWelds.com/advanced).

\*Order Wire Drive Motor Assembly and required Motor Control Cable length separately.

### Processes

CV DC 3  
Phase

#### Multi-MIG®

- Accu-Pulse® MIG (GMAW-P)
  - Accu-Pulse® tandem (optional)
  - Accu-Curve™
  - Accu-Speed™ (optional)
- Pulsed MIG (GMAW-P)
- Metal-Cored
- MIG (GMAW)
- RMD® Regulated Metal Deposition (GMAW-SCT) (optional)

#### Required Wire Drive Motor Assembly/Motor Control Cable

- AA-40GB Wire Drive Motor (includes 50-ft. volt-sense lead)
  - Left-Hand Drive #195 426
  - Right-Hand Drive #195 515
 (Order required Motor Control Cable separately)
- Motor Control Cable
  - 20 ft. (6.1 m) #242 395 020
  - 30 ft. (9 m) #242 395 030
  - 50 ft. (15.2 m) #242 395 050

#### Most Popular Access-ories

- Accu-Speed™ (pg 21)
  - For Palm #300 719
  - For PC #300 720
- RMD® (pg 21)
  - For Palm #195 252
  - For PC #300 721
- Access® File Management Software for PC #300 529
- WaveWriter™ File Management Software (consult factory)
- Coolant Flow Switch #195 461 (pg 86)
- Receptacle/Adapter Kits (One required per machine)
  - ABB #194 793
  - Fanuc #194 791
  - Motoman #194 790
  - Panasonic #300 056
  - Universal #195 002
- Smart Adapter #300 012 – allows automatic to be configured to function as semi-automatic
- Fanuc/Motoman Motor Bracket #300 013

Model	Stock Number*	Amp/Volt Ranges	Three-Phase Rated Output	Amps Input at Rated Output, 50/60 Hz						Max. Open-Circuit Voltage	Dimensions	Net Weight	
				208 V	230 V	400 V	460 V	575 V	KVA	KW			
Auto-Access 300	(#907 151) Base Power Source (#907 151-00-1) w/Accu-Speed Software (#907 151-01-1) w/RMD Process Software	5 - 400 A 10 - 44 V	300 A at 29 VDC, 60% Duty Cycle	33	29.7	16.9	14.6	11.6	11.7	11.2	80 VDC	300 H: 23 in. (584 mm) 450 H: 31 in. (787 mm) 675 H: 39 in. (991 mm) W: 17 in. (432 mm) D: 22.5 in. (572 mm)	116 lb. (52.6 kg)
Auto-Access 450	(#907 153) Base Power Source (#907 153-00-1) w/Accu-Speed Software (#907 153-01-1) w/RMD Process Software (#907 153-02-2) w/tandem Synchronization	5 - 600 A 10 - 44 V	450 A at 36.5 VDC, 100% Duty Cycle	–	60	33.7	28.8	22.8	23.8	22.9	80 VDC		163 lb. (73.9 kg)
Auto-Access 675	(#907 155) Base Power Source (#907 155-00-3) w/Accu-Speed Software (#907 155-02-1) w/tandem Synchronization	5 - 900 A 10 - 44 V	675 A at 38 VDC, 100% Duty Cycle	–	89.7	–	43.7	34.8	35.7	34.4	80 VDC		208 lb. (94.3 kg)



## Featured Welding Processes

### Accu-Pulse® STANDARD on all Axxess® models

The Accu-Pulse process allows for precise control of the pulse arc. Accu-Pulse provides optimum molten puddle control and has power to increase wire feed speeds and deposition 20 to 25 percent in many applications.

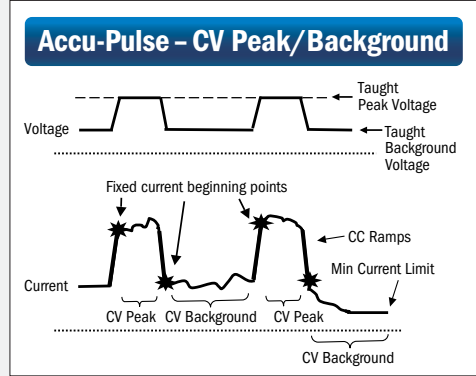
### Accu-Pulse® tandem OPTIONAL on all Auto-Axxess® models

Miller technology synchronizes pulsing between two Auto-Axxess power supplies to achieve two stable, independent arcs in one torch. Each wire has its own power source, wire drive, and contact tip. Accu-Pulse tandem welding unites the arc characteristics of Accu-Pulse with the high deposition rates and travel speeds achievable with the tandem process.

See page 20 for power sources with optional Accu-Pulse tandem.

### Accu-Curve™ STANDARD on all Axxess® models

Accu-Curve is a variation of the Accu-Pulse process. The transitions from peaks to background voltage are “curved”. The curved transitions provide a “softer” feel without sacrificing the tight arc lengths that allow for better puddle control that have become the hallmark of the Accu-Pulse process.



Note: Accu-Curve can be added to existing Axxess or Auto-Axxess systems for FREE by updating code online at [MillerWelds.com/advanced](http://MillerWelds.com/advanced). Requires Palm handheld or PC to transfer code to Axxess.

## Optional Software-Based Welding Processes

### Accu-Speed™

Field #300 719 for Palm\*

Field #300 720 for PC\*\*

Accu-Speed is a variation of the Accu-Pulse process and was developed for the type of arcs needed in automated welding applications. Accu-Speed has a tighter driving arc that can be directed into the joint, yet still remains stable at the higher travel speeds used in automated welding. In general, Accu-Speed has lower average voltage and amperage when compared to Accu-Pulse which makes it ideal when welding out of position in the manual mode.

### RMD® (Regulated Metal Deposition)

Field #195 252 for Palm\*

Field #300 721 for PC\*\*

The RMD (Regulated Metal Deposition) process is a precisely controlled short-circuit transfer. It is a method of detecting when the short is going to clear and then rapidly reacting to this data changing the current (amperage) levels. Features Proactive Dynamic Puddle Control.

Note: Serial number must be provided for field installation. Field kits include cable for connecting to Axxess, but require Palm handheld or PC version of File Manager. FREE trial of Accu-Speed and RMD with a combined total of 16 hours included with every new Axxess power supply. See page 20 for power sources with factory-installed software.

\*Required Palm handheld with data card slot is NOT included.

\*\*PC-based emulator and cable are NOT included.



## Bringing Together the Best of Both Worlds!

Miller Welding Automation combines top-tier Panasonic robotics and electronics with Miller's industry-leading welding products, services and support. It's a natural fit that brings together the resources of two global technology leaders. We offer a comprehensive array of both pre-integrated systems and standalone automated welding components.

Now you can approach the toughest production challenges of the future with your trusted welding partner—a one-stop resource with the real system intelligence it takes to deliver the performance and payback you're looking for. We'll guide your every step by evaluating your automation options, and recommending the system and integration partner that fits your needs.

Find out more at [MillerWelds.com/automation](http://MillerWelds.com/automation)