

Access[®] E Systems

With Insight[™] Weld Data Monitoring System

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Digital Semi-Automatic
MIG Welding Systems 

Quick Specs

Manufacturing Applications

Construction Equipment
Automotive Components
Recreational Vehicles
Farm Machinery
Office Furniture
Mining Machinery

Processes

Multi-MIG[®]
Accu-Pulse[®] MIG (GMAW-P)
Accu-Curve[™] MIG (GMAW-P)
Pulsed MIG (GMAW-P)
MIG (GMAW)
Metal-Cored
Carbon Arc Gouging (CAC-A)
can also be activated
RMD[®] (GMAW-SCT)

Rated Output

300: 300 A at 29 VDC, 60% Duty Cycle
(225 A at 25.3 VDC, 100% Duty Cycle)
450: 450 A at 36.5 VDC, 100% Duty Cycle
675: 675 A at 38 VDC, 100% Duty Cycle

Voltage Range

10–44 V

Auxiliary Power

120 VAC, 10 A Duplex

Net Weight

300: 129 lb. (58.5 kg)
450: 176 lb. (79.8 kg)
675: 194 lb. (88 kg)

The Power of Blue.[®]

Flexible, Expandable and Upgradeable

Multi-MIG capable welding systems are precise, digitally controlled and software-driven. For additional information see page 5.

Access E digital control technology combined with an inverter welding power source is designed to reduce the complexity of a semi-automatic Pulsed MIG welding system, simplify installation, and provide superior welding performance.

Configure the Access E via convenient Web pages using a compliant Web browser (see page 2).

Insight weld data monitoring system provides comprehensive feedback on welding activity and productivity (see pages 3 and 4).



Access E 300

Access E 450

Access E 675

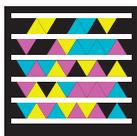
Field Upgrade Module



Update a standard Access power source by installing an Access E Field Upgrade Module (see page 10). Not compatible with Auto ROI.



Access E four-drive-roll wire drive feeder is combined with an operator interface, leaving no controls back at the power source. Provides positive feeding for the appropriate preprogrammed wire diameters from 50–1400 IPM, and operates from 40 VDC supplied by Access power source.



Scan this tag with your mobile device to see Access E videos.

Individual carrier rates may apply. Start by downloading the free mobile app at <http://gettag.mobi>



Power source is warranted for 3 years, parts and labor.

DESIGNED **USA**
AND BUILT IN **USA**



Miller Electric Mfg. Co.
An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

Web Site
www.MillerWelds.com



Interface with Access[®] E Via Web Pages

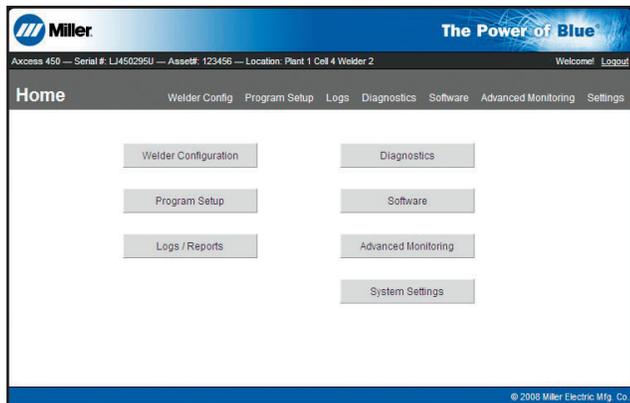
With a compliant Web browser* and access to the company's factory network, authorized employees can interface with the Access E to change configurations, check settings, define

programs, monitor basic functions, troubleshoot the system, and much, much more. In addition, with external access to the factory network, this

can be accomplished from anywhere in the world. The use of Web pages is easy and intuitive, which means the learning curve is short.

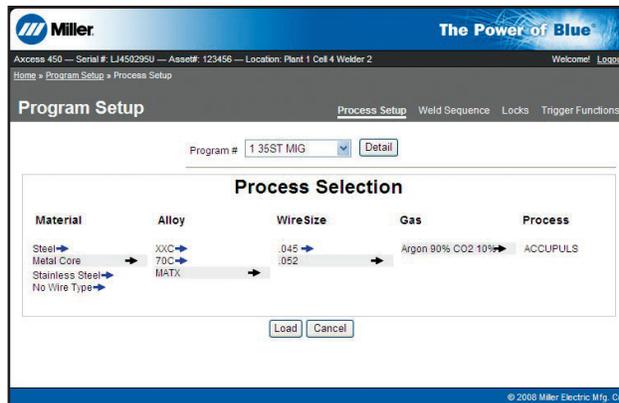
*Internet Explorer 7 or higher, Firefox 3.5 or higher — Java script **must** be enabled.

Web Page Examples



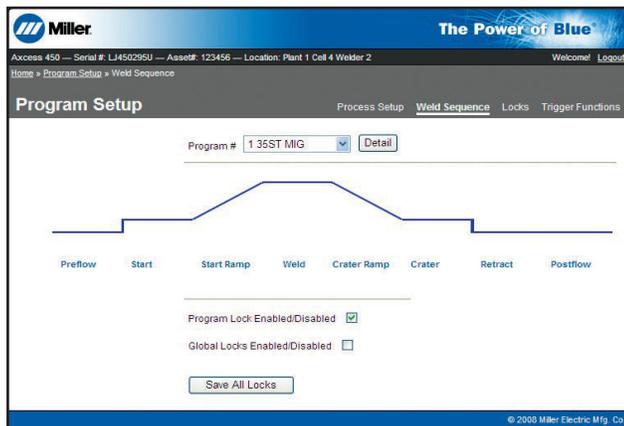
Home Page

Provides quick access to all Access E information and set-up screens.



Process Setup Page

Define each of the eight available Access E programs.



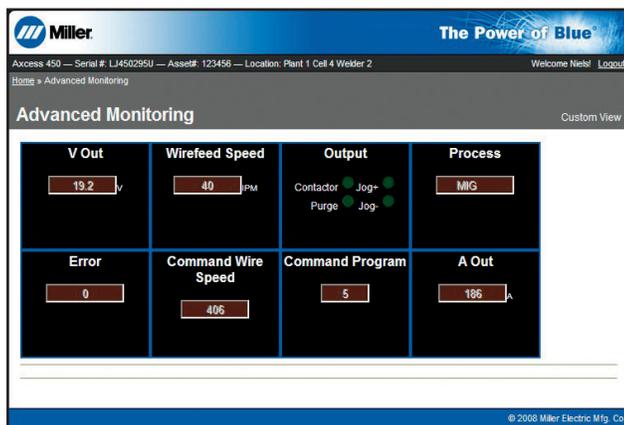
Weld Sequencer Page

Define each attribute of the weld sequence for each program.



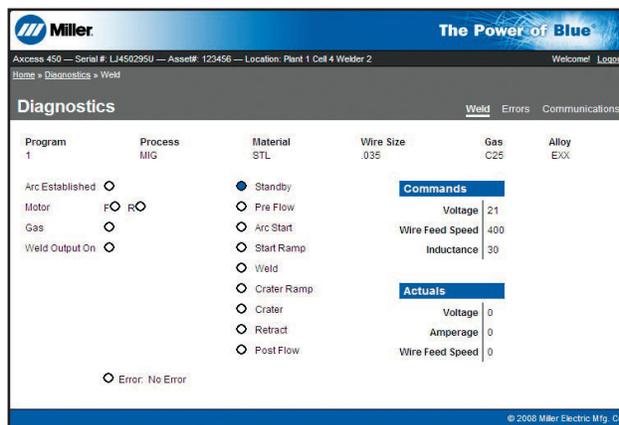
Short Term Weld Data Page

Get a quick reading of arc time and wire usage since last reset.



Custom Dashboard Page

Customized view of critical machine information.



Weld Diagnostics Page

Determine the status of internal component performance.

Insight Centerpoint™ Weld Process Management System

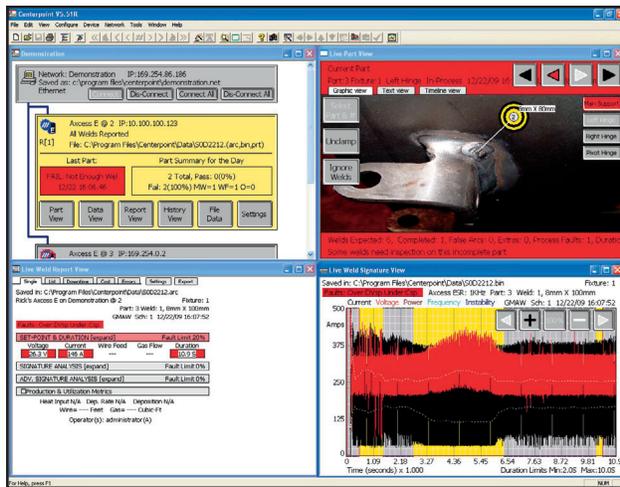
Don't just monitor production data, use Insight to provide the information that will create the knowledge you need to improve your welding operation on many levels. When combined with the power of Ethernet connectivity, Miller® Access E with Insight provides a comprehensive welding information system. **Insight is embedded into the operating system of the Access E**, eliminating the need for external monitoring devices. Simply stated, the Access E with Insight provides valuable information that can be used to reduce cost, increase productivity, and enhance quality.

Access® E with Insight Centerpoint™

- Streamlines operator training
- Helps the operator apply welds in the correct sequence
- Detects missing or incomplete welds
- Detects under and over welding
- Identifies and addresses recurring quality issues
- Monitors system information and trends to prompt preventative maintenance
- Monitors various welding inputs/outputs to ensure process conformance

- Provides Weld Signatures™ with detailed information on welds outside of predetermined limits
- Provides information on faults
- Provides information on wire consumption and gas consumption (optional)
- Provides information by time, by part, by work cell, by shift, and by operator
- Consolidates weld data information for an entire fleet of Access E systems via factory Ethernet network

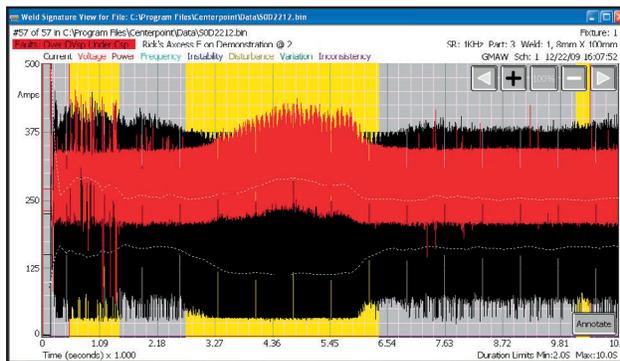
Insight Centerpoint Application – View Examples



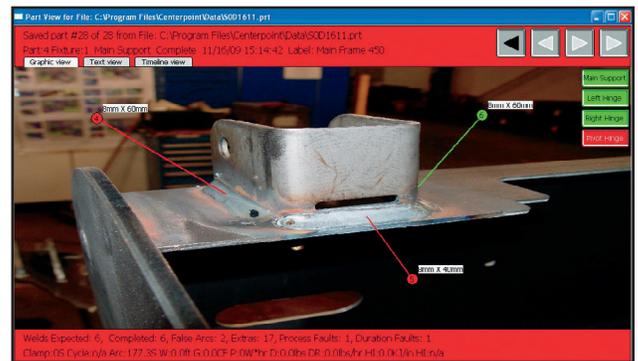
Administrative View



HMI View for Operator



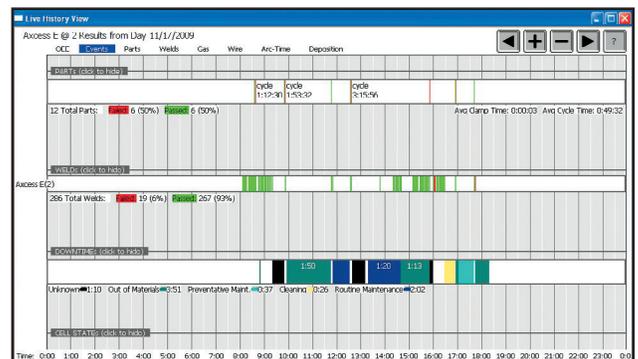
Weld Signature™ View with Faults Highlighted



Part View with Failures



History View—Parts



History View—Parts, Welds, Downtime

*Part Tracking™ and Weld Signature™ are registered trademarks of IMPACT Engineering.

Insight Reporter™ Production Management Reporting System

Insight Reporter provides the type of enterprise weld production information that can be used to drive your business forward. Insight Reporter provides information via a wide range of pre-configured process, production, and management charts and reports. This information is stored in a SQL server database which contains data from multiple Insight Centerpoint™ sources. There are two primary components to Insight Reporter: database software and client software. Any Access E networked to a PC running Insight Centerpoint can feed weld production process data to the Insight Reporter SQL database software.

The Insight Reporter client software is offered on a per-seat license and can be run from any PC on the network with access to the SQL Server. Examples of some of the standard reports include:

Weld Analysis Charts

- Weld summary
- Welds per time
- Sensor averages
- Process features
- Fault types

Part Analysis Charts

- Part summary
- Parts per time
- Part faults per time
- Faults on a single part
- Weld counts per part
- Parts with missing welds
- Single part report

Productivity Charts

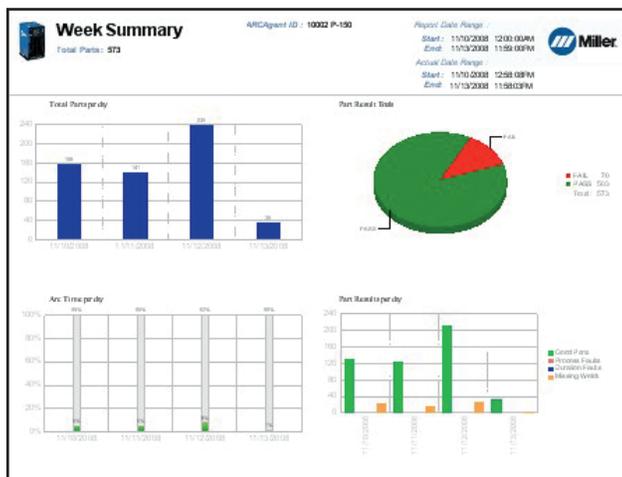
- Arc-efficiency
- Parts per hour
- Welds per hour
- Downtime analysis
- Cycle time

Costing Analysis Charts

- Wire usage
- Gas usage
- Summary reports
- Available by shift, day, week, month, or year

Note: Insight Reporter requires installation of Insight Reporter SQL database on a networked PC or server.

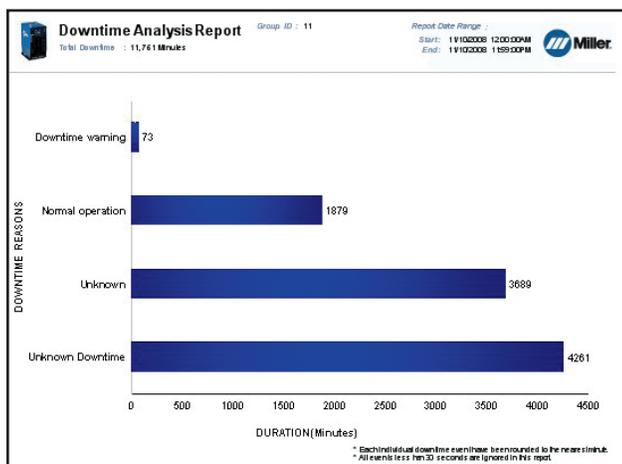
Report Examples



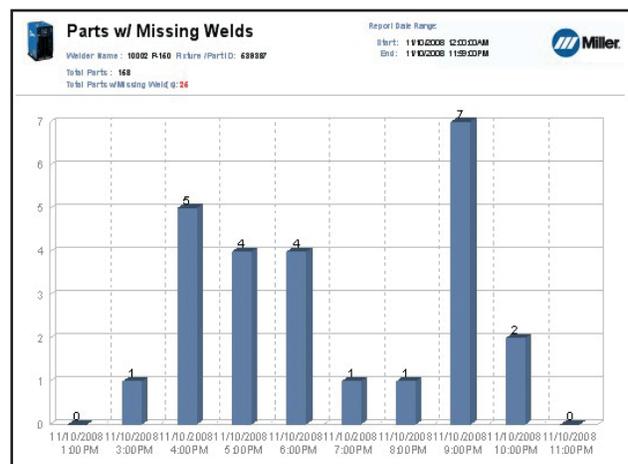
Weekly Summary Report



Weld Count Summary by Hour Report



Downtime Analysis Report



Parts with Missing Welds Report

Features and Benefits

HARDWARE (Standard)



	Miller® Auto-Line technology allows for any input voltage hook-up (190–630 V, 50 or 60 Hz) with no manual linking. Assures rock-solid, consistent output on fluctuating primary lines.
Fan-On-Demand™	Cooling system operates only when needed. Reduces amount of airborne contaminants pulled through the machine.
Wind Tunnel Technology™	Circulates air over components that require cooling, not over electronic circuitry, which reduces contaminants and improves reliability in harsh welding environments.
1/4-turn steel connectors	Allow for faster installation of system and eliminates thread stripping.
115 VAC duplex receptacle	Provides 10-amp circuit-breaker-protected auxiliary power regardless of primary power.
Dual removable lifting eyes	For moving with overhead lifts. Removability allows for flat-top feeder or storage on top.
Forklift slots	Slots cut into the frame for forklift transportation.
Small footprint	All models feature a small footprint, designed to minimize floor space requirements.
Flexible feeding options	Several different wire feeding and operator interface options are available and configurable to desired application.
Connections for Ethernet (2)	Interface with any Axxess E either directly or via the factory Ethernet network.
Connections for USB	USB flash drives can be used for executing code updates.

SOFTWARE (Standard)

Multi-MIG® capability	Includes common carbon steel, aluminum and stainless welding programs, including Accu-Pulse®, Accu-Curve™, standard or adaptive pulse, conventional MIG, Metal-Cored, and RMD® (Regulated Metal Deposition) programs using the most popular wire diameters and gas combinations.
Accu-Pulse®/Accu-Curve™	MIG processes that deliver precise control of the arc even over tack welds and in tight corners. Provide optimum molten puddle control for out-of-position welding.
SureStart™	Provides consistent arc starts by electronically assuring a ball is not left on the wire when welding is stopped. This provides a predictable condition for the next arc start and combines this with precisely tuned arc starting routines.
Arc control	Control offers a simple way to tailor factory pulse weld programs by adjusting the arc plasma cone to accommodate a variety of welding applications without the need for any reprogramming or changing any hardware.
Arc adjust	Allows a simple method that controls arc length for pulse processes.
Remote/trigger program select	Allows changing weld programs to take advantage of up to eight programs of Multi-MIG welding process capabilities.

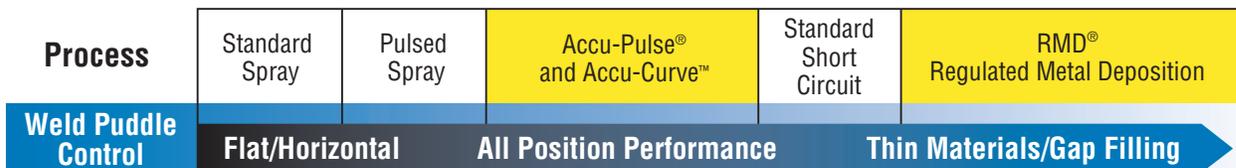
Multi-MIG® Process Capability — Through Software-Based Programs

“Axxess®” the ideal welding process for any weld joint at hand. Whether you need high travel speed combined with high deposition rates or require gaps to be filled, any combination of the available welding processes can be “Axxess”-ed either at the start of a welding sequence or

anywhere in the weld while actually welding by using trigger or remote program select.

For a given wire-feed speed, the chart below shows from left (hottest) to right (coolest) all the possible arc mode transfer ranges of “Axxess”-able MIG and pulse processes. This shows compatible

shielding gas combinations such as 90 Ar/10 CO₂ (90 percent Argon and 10 percent Carbon Dioxide) on steel using the same wire-feed speed and also gives an indication of puddle control characteristics based on arc type selected.



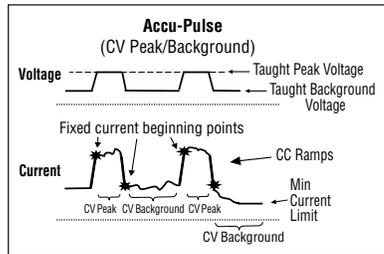
Note: To achieve optimum performance, 4/0 welding power secondary cable is recommended and the supplied work-sense lead must be connected as close to arc as possible.

Software Feature Guide

Note: As new and improved software features are developed, they can be added to existing Access E systems for FREE. Code transfer is accomplished via a USB memory stick plugged directly into USB connection on the Access E.

Accu-Pulse® STANDARD on all Access® E 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. In most cases, slightly different ratios of gas mixtures will perform well using a similar program and adjusting arc length or the appropriate arc control for the selected process. Contact Miller for more information on less common materials and gas combinations.



Benefits (Compared to conventional pulse)

- Shorter arc lengths possible
- Better puddle control
- More tolerant of contact tip to work variation
- Less audible noise
- No arc wandering in tight corners
- Narrow arc plasma column
- Allows weld to fill in at toes increasing travel speed and deposition
- More tolerant of poor fit up and gaps (compared to standard pulse)
- Ideal for robot seam tracking applications

Accu-Curve™ STANDARD on all Access® E models

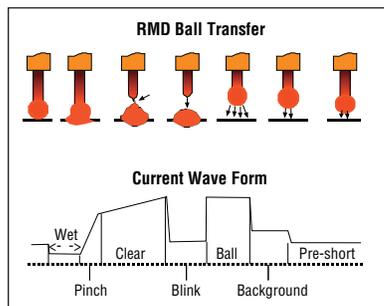
Accu-Curve is a variation of the Accu-Pulse process. The transitions from peaks to background voltage are “curved”. The curved transitions provide a “softer” feel without sacrificing the tight arc lengths that allow for better puddle control and have become the hallmark of the Accu-Pulse process.

Benefits

- “Softer” arc feel than Accu-Pulse
- Maintains tight arc lengths
- Maintains better puddle control

RMD® (Regulated Metal Deposition) STANDARD on all Access® E models

The unique patented design of RMD (Regulated Metal Deposition) 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 levels. Features Proactive Dynamic Puddle Control.



Benefits

- Well suited to thin materials
- Can replace TIG process in some applications
- Gap filling
- Spatter reduction
- Provides less heat into work piece
- Excellent performance on stainless steel
- Can be combined with other Access®-related programs
- Minimize distortion
- Use larger diameter wire on thin materials

Insight™

Insight is an application that is integrated into the Access® E operating system. The standard Access E comes equipped with Insight i100. For even more functionality, upgrade any Access E to Insight i1000 or i2000.

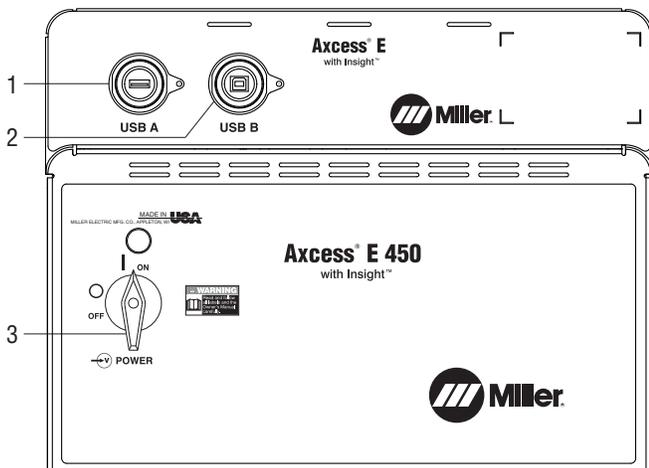
Key Benefits/Features*	Standard i100	Optional i1000	Optional i2000
Support for Insight Centerpoint™ and Insight Reporter™	■	■	■
Support for External Wire Feed Speed and Gas Flow Sensors (sensors and interface board sold separately)	■	■	■
Data Capture for Current, Voltage, Wire, and Gas (gas flow sensor sold separately)	■	■	■
Process Control — High/Low Set Points	■	■	■
Jobs (central repository for all Part Tracking™ information)	■	■	■
Detects Missing Welds, Extra Welds, and Incomplete Welds	■	■	■
Totalization of Arc Time, Consumable Usage, Parts, and Welds (per hour/per shift since last reset)	■	■	■
Overall Equipment Effectiveness (OEE) Calculations	■	■	■
Weld History Extraction Support (no full-time PC connection)	■	■	■
Dual Feeder Support	■	■	■
Auto Learn	■	■	■
Weld Signature™** — Low Resolution	■	■	■
Weld Signature™** — High Resolution		■	■
Workflow		■	■
Measurement of Process Mode Features (pulse characteristics, short circuit frequency, etc.)			■
Advanced Signature Analysis			■
Weld Process Production Manager (WPPM)			■

*Insight Centerpoint required.

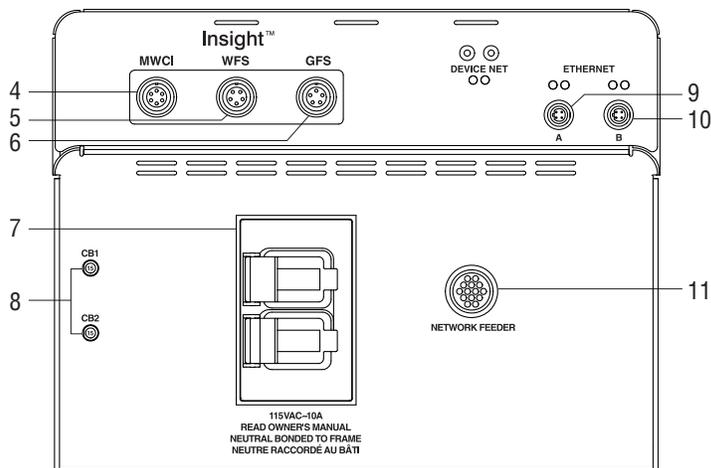
**Part Tracking™ and Weld Signature™ are registered trademarks of IMPACT Engineering.

Control Panels

Front Panel



Rear Panel

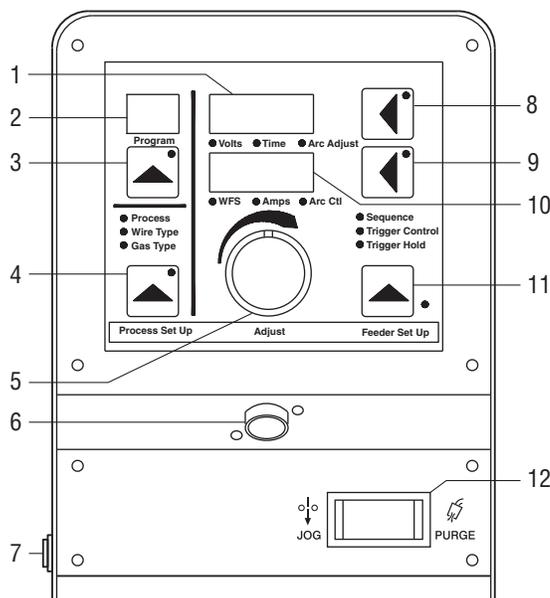


1. USB Connection A (Host)
2. USB Connection B (Device)
3. Power Switch

4. MWCI Connection (Optional)
5. Wire Feed Speed Sensor Conn. (Optional)
6. Gas Flow Sensor Connection (Optional)
7. 115 VAC, 10 A Duplex Receptacle

8. Circuit Breakers
9. Ethernet Connector A
10. Ethernet Connector B
11. Network Feeder Connector

Access E Feeder and Remote Operator Interface (ROI E)



1. Voltage/Arc Adjust Display Meter
2. Program Display
3. Program # Select
4. Process Setup Button
5. Control Knob
6. Trigger Receptacle
7. On/Off Switch
8. Voltage/Arc Adjust Button
9. Wire Feed Speed/Arc Control Setup Button
10. Wire Speed/Amperage Display Meter
11. Feeder Setup Button
12. Jog/Purge Switch

Capabilities

Dual Schedule—Toggle between two program pairs (e.g. 1,2 – 3,4 – 5,6 – 7,8).

4T—When trigger is released, output will operate at different weld parameters.

Trigger Program Select (TPS)—Provides the ability to “Access” any of the Multi-MIG® processes or any of the eight active programs.

Trigger Dual Schedule (TDS)—When activated allow selection between predetermined program pairs (e.g. 1,2 – 3,4 – 5,6 – 7,8).

Trigger Hold (TH)—When activated, allows gun trigger release and continuous welding until trigger is pulled again.

Carbon Arc Gouging (CAC-A)—Can be activated.

Sequence (in seconds)

- Preweld: 0.1 – 10.0 sec.
- Start Power: 0.1 – 10.0 sec.
- Crater: 0.1 – 10.0 sec.
- Postflow: 0.1 – 10.0 sec.

Arc Adjust—Arc length (Trim)

Arc Control—Arc force or focus (SharpArc®)

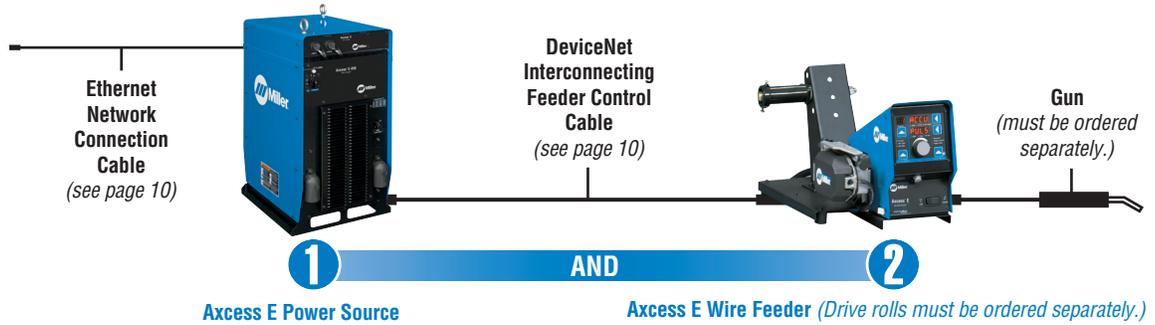
Process Selection—Accu-Pulse®, Accu-Curve™, Pulsed MIG, MIG, Metal-Cored

Typical Installations (Semi-Automatic Pulsed MIG or Conventional MIG)

The Access E platform is designed to provide multiple wire feeding configurations suited to the unique needs of modern manufacturing applications and industries. It utilizes many common components to minimize both part and maintenance complexity. All motors operate on 40 VDC provided by the Access E power supply and have a wire feed speed range of 50–1400 inches per minute. A common operator interface is used on all (see page 6).

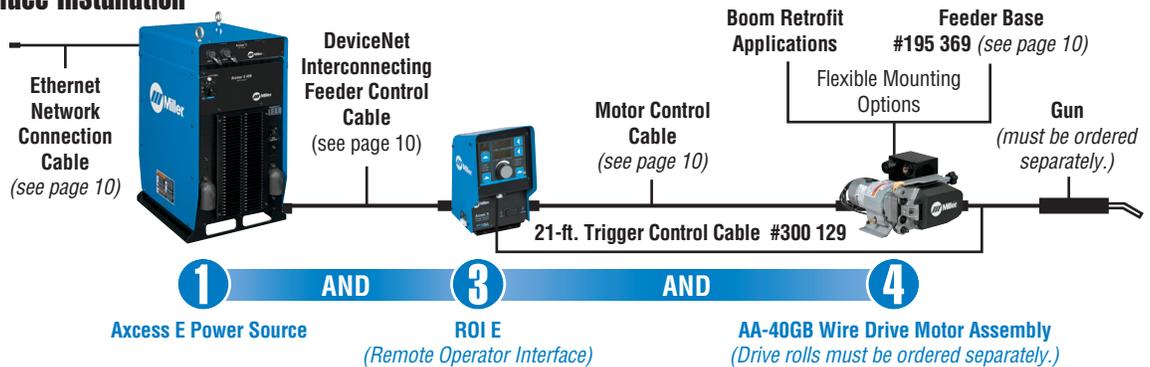
Standard Installation

A typical bench/sled feeder installation. For use when the feeder is placed on the power supply, a bench or an optional cart.



Remote Operator Interface Installation

Allows feeder motor drive to be placed away from power supply and operator interface. Ideal for fixed automation applications and updating or replacing equipment on booms or other applications where separate location of power source, ROI, and wire drive motor is desirable.



1 Power Source Specifications (Subject to change without notice.)



Model	Rated Output	Voltage Range	Amperage Range	Max. Open-Circuit Voltage	Amps Input at Rated Output, 50/60 Hz, 3-Phase							Dimensions	Net Weight
					208 V	230 V	400 V	460 V	575 V	KVA	KW		
Access E 300	300 A at 29 VDC, 60% Duty Cycle (225 A at 25.3 VDC, 100% Duty Cycle)	10–44 V	5–400 A	80 VDC	33	29.7	16.9	14.6	11.6	11.7	11.2	300 H: 26.5 in. (673 mm) 450 H: 34.5 in. (876 mm) 675 H: 42.5 in. (1080 mm) W: 17.094 in. (434 mm) D: 21.75 in. (553 mm)	129 lb. (58.5 kg)
Access E 450	450 A at 36.5 VDC, 100% Duty Cycle	10–44 V	5–600 A	80 VDC	—	60	33.7	28.8	22.8	23.8	22.9		176 lb. (79.8 kg)
Access E 675	675 A at 38 VDC, 100% Duty Cycle	10–44 V	5–900 A	80 VDC	—	89.7	—	43.7	34.8	35.7	34.4		194 lb. (88 kg)

Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

2 Wire Feeder Options



Wire feeders do NOT include drive rolls or required DeviceNet Interconnecting Feeder Control Cable. These must be ordered separately.

Access E Single Feeder #300 677

Access E Dual Feeder #300 801

Feeder is designed specifically for Access E. Provides single-range control of 50–1400 inches per minute. Dual-wire model provides the same functionality as single-wire version, but is ideal when two different wire types need to be available at the same time. Digitally communicates with Access E power source via DeviceNet Interconnecting Feeder Control Cable. Includes 50-foot volt-sense lead.

Model	Gas Valve	Type of Input Power	Connection to Power Source	Wire Feed Speed Range**	Wire Diameter Range	Single Feeder Dimensions	Dual Feeder Dimensions	Ship Weight
Access E Bench/Sled Feeder	Included	40 VDC (from Access)	DeviceNet Interconnecting Feeder Control Cable* (Order separately)	50–1400 IPM (1.3–35.56 MPM)	.035–3/32 in. (0.9–1.6 mm)	H: 14.5 in. (368 mm) W: 12.5 in. (318 mm) D: 27 in. (686 mm)	H: 15 in. (381 mm) W: 19 in. (483 mm) D: 34 in. (863 mm)	Single Feeder 49 lb. (22 kg) Dual Feeder 124 lb. (56 kg)

*Custom cable lengths are available through Equip to Weld™ in 5-foot increments from 5 to 50 feet, and 10-foot increments from 60 to 100 feet.

**This is the wire feed speed range while using MIG. With Pulsed MIG, the wire feed speed range may be more limited.

3 ROI (Remote Operator Interface) Options

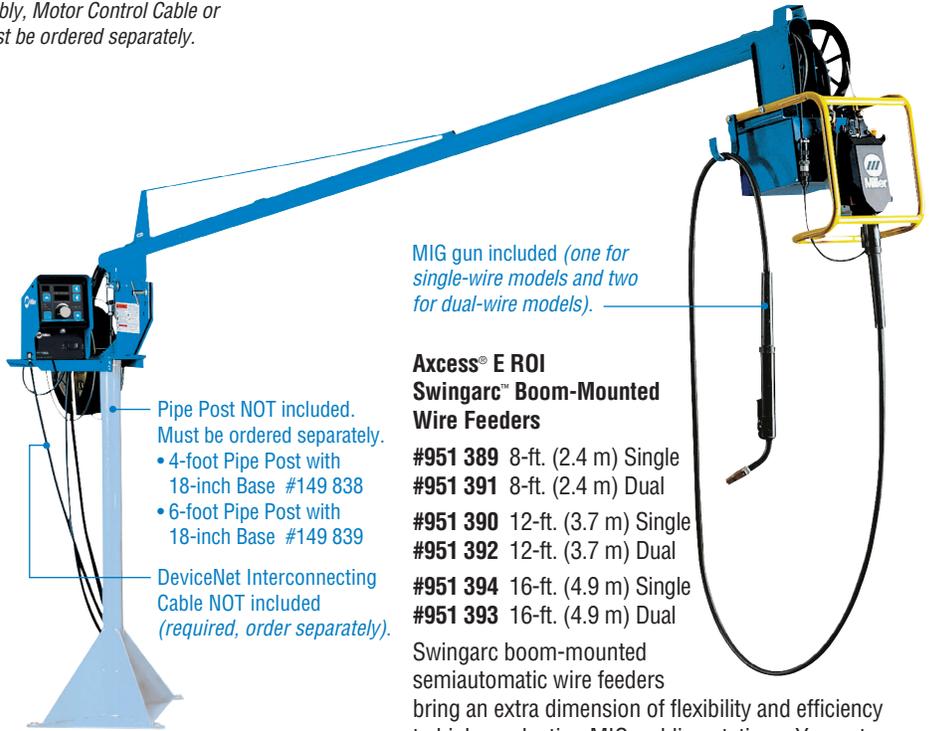
ROI E does NOT include AA-40GB Wire Drive Motor Assembly, Motor Control Cable or DeviceNet Interconnecting Feeder Control Cable. These must be ordered separately.



Single ROI E #300 726
Dual ROI E #300 800

The ROI E allows the Access E power supply, wire drive motor assembly and remote operator interface (ROI) to be located in three separate places. This is desirable for mounting to custom jibs, booms or other extended-reach applications. Since an ROI system can incorporate separate components providing the most flexibility for custom applications, it's an ideal way to obtain the many benefits of the Access E while retaining an existing boom or other structural asset. The dual ROI provides the same functionality as the single, but controls two separate wire drive motor assemblies. Four programs are available per side.

Note: For non-Miller boom and jib mounting, see ROI E installation diagram on page 8 and select desired cable lengths.



MIG gun included (one for single-wire models and two for dual-wire models).

Access® E ROI Swingarc™ Boom-Mounted Wire Feeders

- #951 389 8-ft. (2.4 m) Single
- #951 391 8-ft. (2.4 m) Dual
- #951 390 12-ft. (3.7 m) Single
- #951 392 12-ft. (3.7 m) Dual
- #951 394 16-ft. (4.9 m) Single
- #951 393 16-ft. (4.9 m) Dual

Swingarc boom-mounted semiautomatic wire feeders bring an extra dimension of flexibility and efficiency to high-production MIG welding stations. You get an effective solution that maximizes output, especially when dealing with large weldments and hard-to-reach places.

21-foot Trigger Control Cable #300 129

Required when retrofitting non-Miller booms with an ROI option.

- Pipe Post NOT included. Must be ordered separately.
 - 4-foot Pipe Post with 18-inch Base #149 838
 - 6-foot Pipe Post with 18-inch Base #149 839
- DeviceNet Interconnecting Cable NOT included (required, order separately).

Model	Type of Input Power	Connection to Motor	Connection to Power Source	Single ROI E Dimensions	Dual ROI E Dimensions	Ship Weight
ROI E	Supplied from power source — 40 VDC (motor), 24 VDC (interface)	Motor Control Cable* (Order separately)	DeviceNet Interconnecting Feeder Control Cable* (Order separately)	H: 13 in. (330 mm) W: 7 in. (178 mm) D: 7 in. (178 mm)	H: 13 in. (330 mm) W: 9 in. (229 mm) D: 10 in. (254 mm)	Single ROI E 12 lb. (5.4 kg) Dual ROI E 15 lb. (6.8 kg)

*Custom cable lengths are available through Equip to Weld™ in 5-foot increments from 5 to 50 feet, and 10-foot increments from 60 to 100 feet.

4 Wire Drive Motor Assembly Options (To be used with Remote Operator Interface.)

Wire drive motor assemblies do NOT include drive rolls or required Motor Control Cable. These must be ordered separately.

Note: Left- and right-hand drives are determined by facing the wire feed gun outlet.



AA-40GB Wire Drive Motor Assembly

#195 426 Left-Hand Drive

#195 515 Right-Hand Drive

The AA-40GB Wire Drive Motor Assembly with OCP (Over Current Protection) is an improved version of the AA-40G. The motor control cable

now mounts directly to the gas box, reducing strain on the tachometer wires. OCP provides another layer of protection in the event a cable is damaged or shorted, reducing downtime and motor damage. Motors include a 50-foot volt-sense lead.

Model	Gas Valve	Type of Input Power	Connection to ROI E	Wire Feed Speed Range**	Wire Diameter Range	Dimensions	Ship Weight
AA-40GB	Included and enclosed	40 VDC (from Access E)	Motor Control Cable* (Order separately)	50–1400 IPM (1.3–35.56 MPM)	.035–3/32 in. (0.9–1.6 mm)	H: 8 in. (203 mm) W: 12 in. (305 mm) D: 10 in. (254 mm)	23 lb. (10.4 kg)

*Custom cable lengths are available through Equip to Weld™ in 5-foot increments from 5 to 50 feet, and 10-foot increments from 60 to 100 feet.

**This is the wire feed speed range while using MIG. With Pulsed MIG, the wire feed speed range may be more limited.



Access® E Field Upgrade Module #300 641 Field

Upgrade your investment in standard Access equipment. Standard Access power sources can be upgraded to Access E systems with the addition of the Access E field upgrade module. This module comes with everything you need for installation.
Note: Not compatible with Auto ROI.

Ethernet Network Connection Cables

#300 734 9.8 ft. (3 m)

#300 735 16.4 ft. (5 m)

#300 736 32.8 ft. (10 m)

Industrial-grade 360 degree shielded Cat 5 Ethernet cable with conventional RJ45 overmolded four-pole connector on one end to connect to factory network, and industrial M12 overmolded connector on the other end to attach to Access E power source. Cable supports 10/100 Mbps-per-second transmission rate.

DeviceNet Interconnecting Feeder Control Cables*

#242 209 005 5 ft. (1.5 m)

#242 209 010 10 ft. (3 m)

#242 209 025 25 ft. (7.6 m)

#242 209 050 50 ft. (15.2 m)

These specially designed EMI (Electrical Magnetic Interference) protected and shielded feeder control cables are required, but not included with Access feeders or ROI. Determine length needed and order separately.

Motor Control Cables*

#242 395 010 10 ft. (3 m)

#242 395 020 20 ft. (6.1 m)

#242 395 030 30 ft. (9 m)

#242 395 050 50 ft. (15.2 m)

Includes overmolded connections on high-flex cables for optimal service life.

50-foot Volt-Sense Work Cable* #242 208 050

Replacement cable. One cable supplied with every feeder or drive motor.



ADAM DI/O Module #300 803

Provides a digital I/O interface for communication between a robot /PLC and the Access E power supply. The interface allows for the interaction of a robot or PLC and the Insight

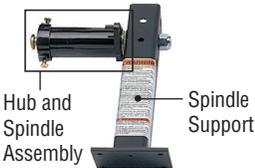
Centerpoint application. This module is optional for semi-automatic Access E models.



Shown with AA-40GB.

Access® E Feeder Base and Spool Support #195 369

Sheet metal construction. Allows mounting of AA-40GB motor (if desired) when using ROI option.



Hub and Spindle Assembly

Spindle Support

Hub and Spindle Assembly #072 094

Spindle Support #092 989



Industrial MIG 4/0 Kit #300 390

Consists of Smith® regulator/flowmeter with 10-foot (3 m) gas hose, 10-foot (3 m). 4/0 feeder weld cable with lugs, and 15-foot (4.6 m) work cable with 600-amp C-clamp.



Running Gear Cylinder Rack #300 408

Fits Access E 300 and 450 models. Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front for easy access. A convenient handle allows the cart to be pulled easily through doorways. System components including power source, single- or dual feeders, and Coolmate™ V3 can be mounted to the cart and secured.



Wire Reel Assembly #108 008



Spool Covers #057 607

Reel Covers #058 256

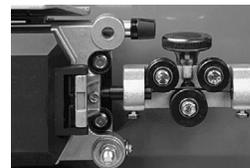
For 60-pound (27 kg) coil. Helps to protect the welding wire from dust and other contaminants.
Note: Reel and Spool Covers cannot be installed if the wire drive assembly is in a rotated position.

Turntable Assembly #146 236

Allows rotation of the feeder as the operator changes work positions. Reduces strain and bending on the gun cable.

Hanging Bail (Electrically Isolated) #058 435

Used for suspending feeder over work area.



Wire Straightener

#141 580

For .035–.045 in. (0.9–1.1 mm) diameter wire.

#141 581

For 1/16–1/8 in. (1.6–3.2 mm) diameter wire.

Helps reduce the cast in wire to improve wire feeding performance and increase the service life of the gun liner and contact tip.

Dual Schedule Switches



DSS-8 #079 693

A 15-foot, two-position

trigger switch which attaches to the gun handle and is used in place of the standard trigger for dual scheduling.

Adapter Cord #157 364

Required for use with DSS-8. 1-foot, Y trigger cable that connects DSS switch and control box to the gun. Required when connecting DSS-8 dual schedule switch, or when using Tregaskiss or Bernard dual schedule torches to interface with the Insight weld monitoring system.



DSS-9M #041 793

A 15-foot, two-position slide

switch which attaches to the gun handle and is used to select the desired welding condition for dual schedule purposes. The gun trigger operates as a standard trigger.

*Note: Custom cable lengths are available through Equip to Weld™ in 5-foot increments from 5 to 50 feet, and 10-foot increments from 60 to 100 feet.

Genuine Miller® Accessories (continued)

Coolant Systems

For more information, see the Miller Coolmate Series literature sheet, Index No. AY/7.2.



Coolmate™ 3

#043 007 115 VAC

#043 008 230 VAC

For use with water-cooled torches rated up to 600 amps. Unique paddle-wheel indicator, external filter and easy-fill spout.

Coolmate™ V3 #043 009 115 VAC

For use with water-cooled torches rated up to 500 amps. Vertical design conveniently mounts to Miller cylinder rack in place of one cylinder.

Coolmate™ 4 #042 288 115 VAC

For use with water-cooled torches rated up to 600 amps. Tough molded polyethylene case with carrying handle.

Low-Conductivity Coolant #043 810

Sold in cases of four one-gallon recyclable plastic bottles. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37° Fahrenheit (-38° C) or boiling to 227° Fahrenheit (108° C). Also contains a compound that resists algae growth.

Drive Roll Kits and Guides (Order from Miller Service Parts.)

Select drive roll kits from chart below according to type and wire size being used. Drive roll kits include four drive rolls, necessary guides and feature an anti-wear sleeve for inlet guide.

Wire Size	"V" groove for hard wire 	"U" groove for soft wire or soft-shelled cored wires 	"V" knurled for hard-shelled cored wires 	"U" clogged for extremely soft wire or soft-shelled cored wires (i.e., hard facing types) 	"U" groove for aluminum wires contains nylon guides 
.035 in. (0.9 mm)	#151 026	—	#151 052	—	#243 233
.040 in. (1.0 mm)	#161 190	—	—	—	—
.045 in. (1.1/1.2 mm)	#151 027	#151 037*	#151 053	#151 070	#243 234*
.052 in. (1.3/1.4 mm)	#151 028	#151 038	#151 054	#151 071	—
1/16 in. (1.6 mm)	#151 029	#151 039	#151 055	#151 072	#243 235
.068/.072 in. (1.8 mm)	—	—	#151 056	—	—
5/64 in. (2.0 mm)	—	#151 040	#151 057	#151 073	—
3/32 in. (2.4 mm)	—	#151 041	#151 058	#151 074	—

*Accommodates .045- and .047-inch (3/64-inch) wire.

Nylon Wire Guides for Feeding Aluminum Wire

Wire Size	Inlet Guide	Intermediate Guide
.035 in. (0.9 mm)	#221 912	#242 417
.047 in. (1.2 mm)	#221 912	#205 936
1/16 in. (1.6 mm)	#221 912	#205 937

Note: "U" groove drive rolls are recommended when feeding aluminum wire.

Wire Guides

Wire Size	Inlet Guide	Intermediate Guide
.023-.040 in. (0.6-1.0 mm)	#221 030	#149 518
.045-.052 in. (1.1-1.4 mm)	#221 030	#149 519
1/16-5/64 in. (1.6-2 mm)	#221 030	#149 520
3/32-7/64 in. (2.4-2.8 mm)	#229 919	#149 521

Genuine Miller® Services

Consulting Services

Field Application Support #195 480

Access E systems may require factory-trained technical support, depending on the complexity of the application and the local availability and capability of qualified welding engineers or technology experts. Contact the factory with questions. Factory support is available at a flat rate of \$1250.00 per day (plus expenses), when scheduled more than 10 days in advance. With less than 10-day notice, rates may be higher. Rates are based on a 10-hour day, including travel. One day minimum.

Ordering Information

Semi-Automatic Equipment Options	Stock No.	Description	Qty.	Price
Access® E 300	#907 440	Power source only		
Access® E 450	#907 439	Power source only		
Access® E 675	#907 441	Power source only		
Access® E Field Upgrade Module	#300 641	Field. Upgrades standard semi-automatic power source to Access E. <i>Not compatible with Auto ROI</i>		
Insight™ Software Upgrades	#300 812 #300 815 #300 830	Field. Upgrades Insight i100 to i1000 Field. Upgrades Insight i100 to i2000 Field. Upgrades Insight i1000 to i2000		
Insight Centerpoint™	#300 708 #300 765	Individual license. Weld data monitoring system software Site license		
Insight Reporter™	#300 709	Management reporting system client software		
Insight Reporter™ SQL Database	#300 710	Management reporting system database software		
Wire Feed Options		See page 8 for connection diagram and required cables		
Access® E Feeder	#300 677 #300 801	Single-wire feeder. <i>Order DeviceNet Interconnecting Feeder Control Cable separately</i> Dual-wire feeder		
ROI E (Remote Operator Interface)	#300 726 #300 800	Single-wire model Dual-wire model		
Access® E ROI Swingarc™ Boom	#951 389 #951 391 #951 390 #951 392 #951 394 #951 393	Single, 8-ft. (2.4 m) boom Dual, 8-ft. (2.4 m) boom Single, 12-ft. (3.7 m) boom Dual, 12-ft. (3.7 m) boom Single, 16-ft. (4.9 m) boom Dual, 16-ft. (4.9 m) boom		
AA-40GB Wire Drive Motor Assembly	#195 426 #195 515	Left-hand wire drive assembly Right-hand wire drive assembly		
Installation Cables		See page 8 for connection diagram and required cables		
Ethernet Network Connection Cables	#300 734 #300 735 #300 736	9.8 ft. (3 m) 16.4 ft. (5 m) 32.8 ft. (10 m)		
DeviceNet Interconnecting Feeder Control Cables	#242 209 005 #242 209 010 #242 209 025 #242 209 050	5 ft. (1.5 m) 10 ft. (3 m) 25 ft. (7.6 m) 50 ft. (15.2 m)		
Motor Control Cables	#242 395 010 #242 395 020 #242 395 030 #242 395 050	10 ft. (3 m) 20 ft. (6.1 m) 30 ft. (9 m) 50 ft. (15.2 m)		
<i>Note: Custom cable lengths are available through Equip to Weld™ in 5-foot increments from 5 to 50 feet, and 10-foot increments from 60 to 100 feet.</i>				
Accessories				
Volt-Sense Work Cable	#208 810	Replacement 50-ft. (15.2 m) cable. This cable is included with every feeder or drive motor		
Trigger Control Cable	#300 129	21 ft. See page 8 for connection diagram		
ADAM DI/O Module	#300 803	Optional for semi-automatic Access E models		
Access® E Feeder Base/Spool Support Hub and Spindle Assembly	#195 369	Allows mounting of AA-40GB motor when using ROI option		
Spindle Support	#072 094			
Industrial MIG 4/0 Kit	#300 390	Includes Smith regulator/flowmeter with 10-foot (3 m) gas hose, 10-foot (3 m) 4/0 feeder weld cable with lugs, and 15-foot (4.6 m) work cable with 600-amp C-clamp		
Running Gear Cylinder Rack	#300 408	For 300 and 450 models only. Holds two cylinders, cooler, machine and feeder		
Wire Reel Assembly	#108 008			
Spool Covers	#057 607			
Reel Covers	#058 256			
Turntable Assembly	#146 236			
Hanging Bail (Electrically Isolated)	#058 435			
Wire Straightener		See page 10		
Dual Schedule Switches		See page 10		
Coolant Systems		See page 11		
Drive Roll Kits (Required) and Guides		See page 11		

Date:

Total Quoted Price:

Distributed by:

