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
  - 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:** 135 lb. (61.2 kg)
- **450:** 186 lb. (84.4 kg)
- **675:** 238 lb. (108 kg)

Flexible, Expandable and Upgradeable

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


Auto-Axcess E 300 Digital

Auto-Axcess E 450 Digital

Auto-Axcess E 675 Digital

Auto-Axcess E Systems

With Insight™ Weld Data Monitoring System

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

Update a standard Auto-Axcess power source by installing an Auto-Axcess E Field Upgrade Module (see page 11).
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® Auto-Axcess E with Insight™ provides a comprehensive welding information system. **Insight is embedded into the operating system of the Auto-Axcess E**, eliminating the need for external monitoring devices. Simply stated, the Auto-Axcess E with Insight provides valuable information that can be used to reduce cost, increase productivity, and enhance quality.

**Auto-Axcess® 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

**Insight Centerpoint Application Examples**
- Weld Workflow enhances Part Tracking by allowing management to not only govern the application of welds, but to specify and govern what other critical information/functions are presented to the operator/welder and when.
- Cost Calculator is a tool within Centerpoint that allows part and weld costs to be estimated based on measured values and cost variables entered by the user.
- Signature Analysis is an advanced weld monitoring mode that provides ability to measure and evaluate peak/background voltage and current, pulse width, pulse frequency, short circuit frequency and power input.
- Weld Process Production Manager can be used to track and alarm for basic preventative maintenance tasks including total wire used, total gas used (requires optional gas flow sensor) total arc time, and total parts.

**Insight Centerpoint™ Feature Guide**

<table>
<thead>
<tr>
<th>Insight Centerpoint™ Feature</th>
<th>Standard i100</th>
<th>Optional i1000</th>
<th>Optional i2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data capture for current, voltage, WFS, and gas (optional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process Control — high/low set points</td>
<td></td>
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</tr>
<tr>
<td>Jobs (central repository for all Part Tracking™ info)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detects missing, extra, and incomplete welds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totalize arc time, wire/gas usage, parts, and welds/time period</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculates overall equipment effectiveness</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld history extraction (no full-time PC connection)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto Learn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld Signature™ — low resolution (averages)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld Signature™ — high resolution (1 Khz)</td>
<td></td>
<td></td>
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<tr>
<td>Weld Workflow™</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cost Calculator</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Signature Analysis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld Process Production Manager (WPPM)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Part Tracking™ and Weld Signature™ are registered trademarks of IMPACT Engineering.
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 Auto-Axcess® E networked to a PC running Insight Centerpoint can feed weld production process data to the Insight Reporter SQL database software.

Insight Reporter Application Examples

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
- Parts 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.*

**Interface with Auto-Axcess® E Via Web Pages**

With a compliant Web browser* and access to the company’s factory network, authorized employees can interface with the Auto-Axcess 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**

**Weld Sequencer Page**
Define each attribute of the weld sequence for each program.

**Weld Diagnostics Page**
Determine the status of internal component performance.
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 Auto-Axcess™ 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.

**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 and wetting action for RMD.

**Remote/trigger program select** Allows changing weld programs to take advantage of up to eight programs of Multi-MIG welding process capabilities.

*Note: As new and improved software features are developed, they can be added to existing Auto-Axcess E systems for FREE. Code transfer is accomplished via a USB memory stick plugged directly into USB connection on the Auto-Axcess E.*
Multi-MIG® Process Capability (Through software-based programs.)

Access 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 accessed 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 accessible 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.

<table>
<thead>
<tr>
<th>Process</th>
<th>Standard Spray</th>
<th>Pulsed Spray</th>
<th>Accu-Pulse® and Accu-Curve™</th>
<th>Standard Short Circuit</th>
<th>RMD® Regulated Metal Deposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weld Puddle Control</td>
<td>Flat/Horizontal</td>
<td>All Position Performance</td>
<td>Thin Materials/Gap Filling</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Featured Welding Processes

Accu-Pulse® STANDARD on all Auto-Axcess™ 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 Auto-Axcess™ 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 Auto-Axcess™ E models

The RMD 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 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

Learn More at MillerWelds.com/advanced
Auto-Axcess® E Digital Control Panels

Front Panel

1. USB Connection A (Host)
2. Voltage/Arc Adjust Display Meter
3. Program Display
4. Program # Select
5. Power Switch
6. Process Setup Button
7. Control Knob
8. Wire Speed/Amperage Display Meter
9. Purge Pushbutton
10. Jog Forward Pushbutton
11. Jog Retract Pushbutton
12. Wire Feed/Amperage Select
13. Arc Control
14. Wire Feed Speed Sensor Connection (Optional)
15. Gas Flow Sensor Connection (Optional)
16. Peripheral Connector
17. Circuit Breakers
18. Motor Connector
19. DeviceNet Connector
20. Ethernet Connector A
21. Ethernet Connector B
22. E-Stop
23. 115 VAC, 10 A Duplex Receptacle

Capabilities

Remote Program Select — Allows changing weld programs from the robot controller to take advantage of up to eight programs or Multi-MIG® welding process capabilities.

Integrated 80 V Touch Sensor — To be used with external circuitry or peripheral equipment when touch sensing.

Front Panel Features
- Weld Process Selection
- Wire Size and Type
- Gas Type
- Wire Jog Forward Button
- Wire Jog Reverse Button
- Purge Button
- Digital Display Meters:
  - Voltage/Arc Adjust (Trim)
  - Wire Feed Speed/Amperage
- Program Number
- Arc Control (SharpArc® and Inductance)

Digital Outputs
- Voltage
- Current

Digital Inputs
- Voltage/Arc Adjust (Trim)
- Wire Feed Speed

Auto Setup
- Robot Specific

Sequence
- Preflow: 0 – 9.9 seconds
- Start Power: 0 – 2.5 seconds
- Start Ramp
- Voltage: 10 – 44
- IPM: 50 – 1400
- Crater: 0 – 2.5 seconds
- Crater Ramp
- Retract
- Postflow: 0 – 9.9 seconds

Learn More at MillerWelds.com/advanced
The Auto-Axcess E platform is designed to bring the benefits of digital control technology to manufacturers who currently use Ethernet I/P or DeviceNet robot control. Contact robot manufacturers for robot controllers compatible with the Axcess E Digital Systems.

Ethernet I/P

- **Motor Control Cable**: Must be ordered separately.
- **Motor Mounting Brackets**: Must be supplied by robot manufacturer or system integrator.
- **50-ft. Volt-Sense Cable**: Supplied with AA-40GB Wire Drive Motor Assembly. Should be connected as close to arc as possible for optimum performance.
- **Positive (+) Weld Cable**: Must be ordered separately using Equip to Weld™.
- **Negative (–) Weld Cable**: Must be ordered separately using Equip to Weld™.
- **Robot Cell Base**

DeviceNet

- **Motor Control Cable**: Must be ordered separately.
- **Motor Mounting Brackets**: Must be supplied by robot manufacturer or system integrator.
- **50-ft. Volt-Sense Cable**: Supplied with AA-40GB Wire Drive Motor Assembly. Should be connected as close to arc as possible for optimum performance.
- **Positive (+) Weld Cable**: Must be ordered separately using Equip to Weld™.
- **Negative (–) Weld Cable**: Must be ordered separately using Equip to Weld™.
- **Robot Cell Base**
Auto-Axcess® E Analog Control Panels

**Front Panel**

1. USB Connection A (Host)
2. Voltage/Arc Adjust Display Meter
3. Program Display
4. Program # Select
5. Power Switch
6. Process Setup Button
7. Control Knob
8. Wire Speed/Amperage Display Meter
9. Purge Pushbutton
10. Jog Forward Pushbutton
11. Jog Retract Pushbutton
12. Wire Feed/Amperage Select
13. Arc Control
14. Wire Feed Speed Sensor Connection (Optional)
15. Gas Flow Sensor Connection (Optional)
16. Peripheral Connector
17. Circuit Breakers
18. Motor Connector
19. Ethernet Connector A
20. Ethernet Connector B
21. Robot Connection
22. 115 VAC, 10 A Duplex Receptacle

**Rear Panel**

- 72-pin Harting connector for quick, easy connection to common robot controllers (ABB, Fanuc, KUKA and Motoman) with optional adapter cables. Analog robot controls. Available on analog power supplies.

**Capabilities**

**Auto-CAL (Automatic Calibration)** — Software-based feature exclusive to Auto-Axcess E. Allows simple, quick and accurate wire feed speed and voltage commands from most robots using analog signals. Auto-Axcess E calibrates itself to deliver exact responses to commands from robots. This allows Auto-Axcess E to be used interchangeably with many brands of robots, and allows quick replacement of competitive power supplies without the need to change wire feed speeds. Available on analog power supplies.

**Remote Program Select** — Allows changing weld programs from the robot controller to take advantage of up to eight programs or Multi-MIG® welding process capabilities.

**Integrated 80 V Touch Sensor** — To be used with external circuitry or peripheral equipment when touch sensing.

**Front Panel Features**

- Weld Process Selection
- Wire Size and Type
- Gas Type
- Wire Jog Forward Button
- Wire Jog Reverse Button
- Purge Button
- Digital Display Meters:
  - Voltage/Arc Adjust (Trim)
  - Wire Feed Speed/Amperage
- Program Number
- Arc Control (SharpArc® and Inductance)

**Analog Outputs**

- Voltage
- Current

**Analog Inputs**

- Voltage/Arc Adjust (Trim)
- Wire Feed Speed

**Auto Setup**

- Robot Specific

**Sequence**

- Preflow: 0 – 9.9 seconds
- Start Power: 0 – 2.5 seconds
- Voltage: 10 – 44
- IPM: 50 – 1400
- Crater: 0 – 2.5 seconds
- Crater Ramp
- Retract
- Postflow: 0 – 9.9 seconds

Learn More at MillerWelds.com/advanced
Auto-Axcess™ E Analog Typical Installations (Robotic/Automation Pulsed MIG or conventional MIG)

The Auto-Axcess E platform is designed to bring the benefits of digital control technology to manufacturers who currently use analog robot control. When combined with a Smart Adapter (#300 012) and AA-40GB wire drive motor assembly the Auto-Axcess E will automatically reconfigure itself to function as a semi-automatic, thereby providing for single asset management and simplicity. Contact robot manufacturers for robot controllers compatible with the Axcess E Analog Systems.

Visit tregaskiss.com for additional torch information.
*For available lengths visit MillerWelds.com/equiptoweld.

Learn More at MillerWelds.com/advanced
Consulting Services

Field Application Support  #195 480
Auto-Axcess™ 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.

Auto-Axcess™ E Digital Only

DeviceNet Communication Cables
#300 020 9 ft. (2.7 m)
#300 021 20 ft. (6.1 m)

Auto-Axcess E Digital Peripheral Cable
#301 104 20 ft. (6.1 m)

Auto-Axcess™ E Analog Only

Fanuc Internal Wiring Kit   #300 229
Includes 30-foot (9 m) cable that connects to the Fanuc controller, and 22-inch (559 mm) connector for mounting the wire drive assembly on top of the robot arm.

Receptacle/Adapter Kits
#194 793 ABB
#194 791 Fanuc
#194 790 Motoman
#300 056 Panasonic
#195 002 Universal
One required per machine. 12-inch (305 mm) length. For analog communication with robot controls via 72-pin Harting connector on Auto-Axcess.

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.

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>&quot;V&quot; groove for hard wire</th>
<th>&quot;U&quot; groove for soft wire or soft-shelled cored wires</th>
<th>&quot;V&quot; knurled for hard-shelled cored wires</th>
<th>&quot;U&quot; coged for extremely soft wire or soft-shelled cored wires (i.e., hard facing types)</th>
<th>&quot;U&quot; groove for aluminum wires contains nylon guides</th>
</tr>
</thead>
<tbody>
<tr>
<td>.035 in. (0.9 mm)</td>
<td>#151 026</td>
<td>—</td>
<td>#151 052</td>
<td>—</td>
<td>#243 233</td>
</tr>
<tr>
<td>.040 in. (1.0 mm)</td>
<td>#151 190</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>.045 in. (1.1/1.2 mm)</td>
<td>#151 027</td>
<td>#151 037*</td>
<td>#151 053</td>
<td>#151 070</td>
<td>#243 234*</td>
</tr>
<tr>
<td>.052 in. (1.3/1.4 mm)</td>
<td>#151 028</td>
<td>#151 038</td>
<td>#151 054</td>
<td>#151 071</td>
<td>—</td>
</tr>
<tr>
<td>1/16 in. (1.5 mm)</td>
<td>#151 029</td>
<td>#151 039</td>
<td>#151 055</td>
<td>#151 072</td>
<td>#243 235</td>
</tr>
<tr>
<td>.068/.072 in. (1.8 mm)</td>
<td>—</td>
<td>—</td>
<td>#151 056</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>5/64 in. (2.0 mm)</td>
<td>—</td>
<td>—</td>
<td>#151 040</td>
<td>#151 057</td>
<td>#151 073</td>
</tr>
<tr>
<td>3/32 in. (2.4 mm)</td>
<td>—</td>
<td>—</td>
<td>#151 041</td>
<td>#151 058</td>
<td>#151 074</td>
</tr>
</tbody>
</table>

*Nylon Wire Guides for Feeding Aluminum Wire
Note: "U" groove drive rolls are recommended when feeding aluminum wire.

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>Inlet Guide</th>
<th>Intermediate Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>.035 in. (0.9 mm)</td>
<td>#221 912</td>
<td>#242 417</td>
</tr>
<tr>
<td>.047 in. (1.2 mm)</td>
<td>#221 912</td>
<td>#205 936</td>
</tr>
<tr>
<td>1/16 in. (1.6 mm)</td>
<td>#221 912</td>
<td>#205 937</td>
</tr>
</tbody>
</table>

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

Wire Drive Motor Assembly

AA-40GB Wire Drive Motor Assembly
#195 426 Left-Hand Drive (standard)
#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 cable.

Note: Wire drive motor assemblies do NOT include drive rolls or required Motor Control Cable. These must be ordered separately. Left- and right-hand drives are determined by facing the wire feed gun outlet.

*For available lengths visit MillerWelds.com/equiptoweld.
**This is the wire feed speed range while using MIG. With Pulsed MIG, the wire feed speed range may be more limited.

Genuine Miller® Services and Accessories

Learn More at MillerWelds.com/advanced
Auto-Axcess™ E Analog Only (cont.)

Smart Adapter #300 012
Allows Auto-Axcess to be configured to function as semi-automatic. To be used when there is a desire to have a common power supply and motor in both robotic and semi-automatic application. Easy asset management. 21-foot (6.4 m) trigger control cable is included.

Universal Connector for Analog Control #195 002
Includes mating Harting connector with pins to allow custom configuration for robotic and fixed automation applications.

Shell Connector #194 847
For use by anyone wishing to interface peripherals, but not wanting to source the appropriate female amphenol connector.

Analog Robot Simulator #195 030
Device simulates the analog commands of typical robots. It can be used as a diagnostic tool to determine power source functionality and isolate robot, power source or cable issues.

For All Auto-Axcess™ E Models

Wire Drive Motor Mounting Brackets #300 013 Fanuc/Motoman #300 483 Fanuc 100/120ic #300 375 Motoman EA1400 #300 376 Motoman EA1900

Motor Control Cables*
#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.
*For additional lengths visit MillerWelds.com/equiptoweld.

Volt-Sense Cable*
#242 208 050 50 ft. (15.2 m)
Replacement cable. One cable supplied with every drive motor.
*For additional lengths visit MillerWelds.com/equiptoweld.

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 Axcess E power source. Cable supports 10/100 Mbits-per-second transmission rate.

ADAM DI/O Module #300 003 Provides a digital I/O interface for communication between a robot /PLC and the Auto-Axcess E power supply. The interface allows for the interaction of a robot or PLC and the Insight Centerpoint™ application. This module is required for all DeviceNet and Analog Auto-Axcess E models.

Axcess™ E Sourcing I/O Kit #301 150 For Axcess E and Auto-Axcess E.

Axcess™ Feeder Base and Spool Support #195 369 Sheet metal construction. Allows mounting of AA-40GB motor (if desired) when using ROI option or when using an Auto-Axcess E with Smart Adapter.

Hub and Spindle Assembly #072 094 Spindle Support #092 989

Hub and Spindle Assembly shown.

Motor Control Cables shown.

Analog module shown.

Spool Covers #057 607

Reel Covers #195 412
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.

Wire Straightener #141 580 For .035 – .045 in. (0.9 – 1.1 mm) wire. #141 581 For 1/16 – 1/8 in. (1.6 – 3.2 mm) wire. Helps reduce the cast in wire to improve wire feeding performance and increase the service life of the gun liner and contact tip.

Coolant Systems

For more information, see the 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 500 amps. Unique paddle-wheel indicator, external filter and easy-fill spout.

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 degrees Fahrenheit (-38˚ C) or boiling to 227 degrees Fahrenheit (108˚ C). Also contains a compound that resists algae growth.

Learn More at MillerWelds.com/advanced
## Ordering Information

<table>
<thead>
<tr>
<th>Automatic Equipment Options</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Axcess™ E 300 Digital</td>
<td>#907 497</td>
<td>Power source only</td>
<td></td>
<td></td>
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<tr>
<td>Auto-Axcess™ E 450 Digital</td>
<td>#907 496</td>
<td>Power source only</td>
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<tr>
<td>Auto-Axcess™ E 675 Digital</td>
<td>#907 495</td>
<td>Power source only</td>
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<tr>
<td>Auto-Axcess™ E Digital Upgrade Module</td>
<td>#300 648</td>
<td>Field. Upgrades standard semi-automatic power source to Auto-Axcess E</td>
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<tr>
<td>Auto-Axcess™ E 300 Analog</td>
<td>#907 442</td>
<td>Power source only</td>
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<td></td>
<td>#907 442-00-1</td>
<td>Power source with sensor board</td>
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<tr>
<td>Auto-Axcess™ E 450 Analog</td>
<td>#907 443</td>
<td>Power source only</td>
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<td>#907 443-00-1</td>
<td>Power source with sensor board</td>
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<tr>
<td>Auto-Axcess™ E 675 Analog</td>
<td>#907 444</td>
<td>Power source only</td>
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<td></td>
<td>#907 444-00-1</td>
<td>Power source with sensor board</td>
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<tr>
<td>Auto-Axcess™ E Analog Upgrade Module</td>
<td>#300 852</td>
<td>Field. Upgrades standard semi-automatic power source to Auto-Axcess E</td>
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### Software

<table>
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<tr>
<th>Software Upgrade</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Insight™ Software Upgrades</td>
<td>#300 812</td>
<td>Field. Upgrades Insight i100 to i1000</td>
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<td></td>
<td>#300 815</td>
<td>Field. Upgrades Insight i100 to i2000</td>
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<td></td>
<td>#300 830</td>
<td>Field. Upgrades Insight i1000 to i2000</td>
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<tr>
<td>Insight Centerpoint™</td>
<td>#300 708</td>
<td>Individual license. Weld data monitoring system software</td>
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<td></td>
<td>#300 765</td>
<td>Site license</td>
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<tr>
<td>Insight Reporter™</td>
<td>#300 709</td>
<td>Management reporting system client software</td>
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<tr>
<td>Insight Reporter™ SQL Database</td>
<td>#300 710</td>
<td>Management reporting system database software (one required per server)</td>
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### Wire Drive Motor Assemblies

<table>
<thead>
<tr>
<th>Wire Drive Motor Assembly</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
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<tbody>
<tr>
<td>AA-40GB Wire Drive Motor Assembly</td>
<td>#301 104</td>
<td>20 ft. (6.1 m)</td>
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<td></td>
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<tr>
<td>Drive Roll Kits (Required) and Guides</td>
<td></td>
<td>See page 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wire Drive Motor Mounting Brackets</td>
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<td>See page 11</td>
<td></td>
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### Analog Only Accessories

<table>
<thead>
<tr>
<th>DeviceNet Communication Cables</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Auto-Axcess E Digital Peripheral Cable</td>
<td>#300 104</td>
<td>20 ft. (6.1 m)</td>
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</tr>
</tbody>
</table>

### Analog Only Accessories

| Fanuc Internal Wiring Kit                 | #300 229  |                                                                 |      |                                    |
| Receptacle/Adapter Kits                  | #300 012  | One required per machine. See page 10. See page 9 for the connection diagram |      |                                    |
| Smart Adapter                            | #300 803  | Robotic/automation. Allows automatic to function as semi-automatic         |      |                                    |
| Universal Connector for Analog Control   | #195 002  | Robotic/automation. Allows custom configuration                            |      |                                    |
| Shell Connector                          | #194 847  |                                                                 |      |                                    |
| Analog Robot Simulator                    | #195 030  | Robotic/automation. See page 11                                             |      |                                    |

### Digital Only Accessories

| Field Application Support                | #195 480  | Robotic/automation. One day minimum, not subject to discount. See page 10  |      |                                    |
| Coolant Flow Switch                     | #195 461  |                                                                 |      |                                    |
| Motor Control Cable                     |           | See page 11. See page 7 and 9 for the connection diagram                    |      |                                    |
| Volt-Sense Cable (50 ft./15.2 m)        | #242 208 050 | Included with drive motor. See page 11. See page 7 and 9 for the connection diagram |      |                                    |
| Ethernet Network Connection Cables      |           | See page 11. See page 7 and 9 for the connection diagram                    |      |                                    |
| ADAM DI/O Module                        | #300 603  | Required for all DeviceNet and Analog Auto-Axcess E models                  |      |                                    |
| Axcess® E Sourcing Kit                  | #301 150  |                                                                 |      |                                    |
| Axcess® Feeder Base and Spool Support   | #195 369  | Allows mounting of AA-40GB motor when using ROI option                      |      |                                    |
| Hub and Spindle Assembly                | #072 904  |                                                                 |      |                                    |
| Spindle Support                          | #092 989  |                                                                 |      |                                    |
| Wire Reel Assembly                      | #195 008  |                                                                 |      |                                    |
| Spool Covers                             | #057 607  |                                                                 |      |                                    |
| Reel Covers                              | #058 256  |                                                                 |      |                                    |
| Turntable Assembly                      | #146 236  |                                                                 |      |                                    |
| Wire Straightener                        |           | See page 11                                                                 |      |                                    |
| Coolant Systems                          |           | See page 11                                                                 |      |                                    |

**Date:**

| Total Quoted Price                       |          |                                                                 |      |                                    |

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