Miller’s patented technology allows for any input voltage hook-up (208 – 575 V) with no manual linking. Assures rock-solid, consistent output on fluctuating primary lines.

Fan-On-Demand™ only operates when needed, cooling internal components.

1/4-turn steel connectors allow for faster installation of system and eliminates thread stripping.

115 VAC duplex receptacle provides 10 A circuit-breaker-protected auxiliary power regardless of primary power.

Flexible, Expandable and Upgradeable

Multi-MIG capable welding systems are precise, digitally controlled and software-driven. For additional information see page 2.

Access the ability to accommodate welding data file exchange through downloadable upgrades and new hybrid welding processes using e-mail, or the Web and a PC or Palm™ handheld (PDA).


Insight™ Core is a flexible, Internet-based industrial welding information management solution that can help your operation be more competitive and profitable by delivering accurate, decision-ready information about welding processes. See page 2 for more information.

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

SOFTWARE (Standard)

**Multi-MIG® capability**
Includes common carbon steel, aluminum and stainless welding programs, including Accu-Pulse®, Accu-Curve™ and Accu-Speed™ (optional), standard or adaptive pulse, conventional MIG and metal core programs, and RMD® (optional) 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 8 programs of Multi-MIG welding process capabilities.

**Optional Auto-Axcess software**
Accu-Speed and RMD, Axcess file management system, and WaveWriter™ pulse wave shaping.

**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® Accu-Curve™ Accu-Speed™ (Optional)</th>
<th>Standard Short Circuit</th>
<th>RMD® Regulated Metal Deposition (Optional)</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 work-sense lead must be connected as close to arc as possible.*
Accu-Pulse® STANDARD on all Auto-Axcess™ 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™ 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.

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

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

Optional Software-Based Welding Processes

Accu-Speed™

Field #300 719 For Palm (Required Palm handheld with data card slot is NOT included.)
Field #300 720 For PC (PC-based emulator and cable are NOT included.)

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.

Note: Serial number must be provided for field installation. Factory-installed software can be ordered as a combo-number option with power supply. See power source stock number listings on page 8. Field kits include cable for connecting to Auto-Axcess, but require PC Palm handheld or PC version of File Manager.

Benefits
- Up to 20% greater travel speed than Accu-Pulse
- Lower average voltage/amperage than Accu-Pulse
- Tight, driving arc
- Remains stable at higher travel speeds

RMD® (Regulated Metal Deposition)

Field #195 252 For Palm (Required Palm handheld with data card slot is NOT included.)
Field #300 721 For PC (PC-based emulator and cable are NOT included.)

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 (amperage) levels. Features proactive dynamic puddle control.

Note: Serial number must be provided for field installation. Factory-installed software can be ordered as a combo-number option with power supply. See power source stock number listings on page 8. Field kits include cable for connecting to Auto-Axcess, but require PC Palm handheld or PC version of File Manager.

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 Axcess®-related programs
- Minimize distortion
- Use larger diameter wire on thin materials

Learn More at MillerWelds.com/advanced
Control Panels

1. Voltage/Arc Adjust Display Meter
2. Program Display
3. Program # Select
4. Power Switch
5. Process Setup Button
6. Control Knob
7. Wire Speed/Amperage Display Meter
8. Purge Pushbutton
9. Handheld RS-232 Port
10. Jog Forward Pushbutton
11. PC-Communication RS-232 Port
12. Jog Retract Pushbutton
13. Wire Feed/Amperage Select
14. Arc Control
15. Peripheral Connector
16. Robot Connection
17. Motor Connector
18. DeviceNet Connector (Optional)
19. 115 VAC, 10 A Duplex Receptacle

Capabilities

Auto-CAL (Automatic Calibration) — Software-based feature exclusive to Auto-Axcess. Allows simple, quick and accurate wire feed speed and voltage commands from most robots using analog signals. Auto-Axcess calibrates itself to deliver exact responses to commands from robots. This allows Auto-Axcess 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

Digital Outputs
- Arc On
- Wire Stick
- Welder Ready

Digital Inputs
- Start
- Jog Forward
- Jog Reverse
- Purge
- Program Select
- E-Stop

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
- Retract
- Postflow: 0 – 9.9 seconds

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.

DeviceNet connector for quick, easy connection to common robot controllers (ABB, Fanuc, KUKA and Motoman) with standard DeviceNet cables. Available on DeviceNet power supplies.

Learn More at MillerWelds.com/advanced
**Typical Installation (Robotic/Automation Pulsed MIG or conventional MIG)**

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

Visit tregaskiss.com for additional torch information.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Output</th>
<th>Voltage Range</th>
<th>Amperage Range</th>
<th>Max. Open-Circuit Voltage</th>
<th>Amps Input at Rated Output, 50/60 Hz, 3-Phase</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>208 V</td>
<td>230 V</td>
<td>400 V</td>
<td>460 V</td>
<td>575 V</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>80 VDC</td>
<td>80 VDC</td>
<td>80 VDC</td>
<td>80 VDC</td>
<td>80 VDC</td>
<td></td>
</tr>
<tr>
<td>Auto-Axcess 300</td>
<td>300 A at 29 VDC, 60% duty cycle (225 A at 25.3 VDC, 100% duty cycle)</td>
<td>10 – 44 V</td>
<td>5 – 400 A</td>
<td>33</td>
<td>29.7</td>
<td>16.9</td>
<td>14.6</td>
</tr>
<tr>
<td>Auto-Axcess 450</td>
<td>450 A at 36.5 VDC, 100% duty cycle</td>
<td>10 – 44 V</td>
<td>5 – 600 A</td>
<td>80 VDC</td>
<td>—</td>
<td>33.7</td>
<td>28.8</td>
</tr>
<tr>
<td>Auto-Axcess 675</td>
<td>675 A at 38 VDC, 100% duty cycle</td>
<td>10 – 44 V</td>
<td>5 – 900 A</td>
<td>80 VDC</td>
<td>—</td>
<td>89.7</td>
<td>43.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 H: 23 in. (584 mm)</td>
<td>450 H: 31 in. (787 mm)</td>
<td>675 H: 39 in. (991 mm)</td>
<td>W: 17 in. (432 mm)</td>
<td>D: 22.5 in. (572 mm)</td>
<td>112 lb. (50.8 kg)</td>
</tr>
</tbody>
</table>
| AA-40GB Wire Drive Motor Assembly | #195 426 Left-Hand Drive | #195 515 Right-Hand Drive | The AA-40GB wire drive motor assembly with Over Current Protection (OCP) 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 (15.2 m) 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. |

**Wire Drive Motor Assembly**

<table>
<thead>
<tr>
<th>Model</th>
<th>Gas Valve</th>
<th>Type of Input Power</th>
<th>Connection to Power Source</th>
<th>Wire Feed Speed Range**</th>
<th>Wire Diameter Range</th>
<th>AA-40GB Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA-40GB</td>
<td>Included and enclosed</td>
<td>40 VDC (from Auto-Axcess)</td>
<td>Motor Control Cable* (order separately)</td>
<td>50–1400 IPM (1.3 – 35.56 MPM)</td>
<td>.035 – .3/32 in. (0.9 – 1.6 mm)</td>
<td>H: 8 in. (203 mm)</td>
<td>16.5 lb. (7.5 kg)</td>
</tr>
</tbody>
</table>

*Certified to both the Canadian and U.S. Standards for welding equipment.

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.
Consulting Services (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; cogged for extremely soft wire or soft-shelled cored wires</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>—</td>
<td>#151 054</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1/16 in. (1.6 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>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>3/32 in. (2.4 mm)</td>
<td>—</td>
<td>—</td>
<td>#151 057</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

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

Nylon Wire Guides for 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>

Wire Guides

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

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

Genuine Miller® Services and Options

Consulting Services  #195 480
Field Application Support
Auto-Access 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.

File Management Software

Axcess® File Management #300 529 For PC (Includes PC-based emulator, USB cable and USB flash drive with File Management software.)

Simply put, Axcess File Management software turns a standard Palm handheld (PDA) or PC into a remote pendant control for all Axcess Systems.

With Axcess File Management installed on your Palm OS handheld or PC you can:
- E-mail Axcess files anywhere worldwide
- Configure any Axcess system as desired
- Configure multiple Axcess systems exactly the same or any way you choose
- Save and store Axcess files
- Transfer Axcess files to computers
- Transfer Axcess files from machine to machine
- Backup Axcess files and programs
- Set-up and modify Axcess welding sequences
- Adjust and store welding program Locks & Limits for restricting or limiting operator access to programs
- Enable Auto-Thread™ feature to program torch length into Axcess memory. When a combination of purge and jog (or jog and retract) are depressed, the Axcess feeding system delivers exact programmed length of wire. Great for troubleshooting wire feed speed and loading wire into the system.
Universal Connector for Analog Controls
#195 002
Includes mating Harting connector with pins to allow custom configuration for robotic and semi-automatic applications.

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.

Wire Drive Motor Mounting Brackets
#301 276 ABB 1600
#301 277 ABB 2600
#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*
#242 212 050 50 ft. (15.2 m)
*For additional lengths visit MillerWelds.com/equiptoweld.

Robotic MIG 4/0 Kit  #301 278
Includes AA-40GB left-hand wire drive motor assembly, flowmeter regulator with 30-foot (9 m) gas hose, two 30-foot (9 m) 4/0 weld cables with lugs, 30-foot (9 m) motor control cable, 16.4-foot (5 m) Ethernet network connection cable,.035/.045-inch V-groove drive roll kit with four drive rolls and necessary guides, and 30-foot (9 m) conduit assembly with quick disconnects.

Index No. AY/7.2.

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 multiples 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).
## 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><strong>Auto-Axcess® 300</strong></td>
<td>#907 151</td>
<td>Power source only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Robotic receptacle kit sold separately)</td>
<td>#907 151 001</td>
<td>Power source with Accu-Speed software upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>#907 151 011</td>
<td>Power source with RMD software upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>#907 151 004</td>
<td>Power source with Insight Core upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>#907 151 005</td>
<td>Power source with DeviceNet and Insight Core upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Auto-Axcess® 450</strong></td>
<td>#907 153</td>
<td>Power source only</td>
<td></td>
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<tr>
<td>(Robotic receptacle kit sold separately)</td>
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<td>Power source with Accu-Speed software upgrade</td>
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<td>#907 153 005</td>
<td>Power source with DeviceNet and Insight Core upgrade</td>
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<td><strong>Auto-Axcess® 675</strong></td>
<td>#907 155</td>
<td>Power source only</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>#907 155 003</td>
<td>Power source with Accu-Speed software upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>#907 155 006</td>
<td>Power source with Insight Core upgrade</td>
<td></td>
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<tr>
<td></td>
<td>#907 155 005</td>
<td>Power source with DeviceNet and Insight Core upgrade</td>
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<tr>
<td><strong>Axcess® Insight Core™ Module</strong></td>
<td>#301 081</td>
<td>Field. Adds Insight Core capabilities to Axcess power sources</td>
<td></td>
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<td><strong>Auto-Axcess® 300 DI</strong></td>
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<td></td>
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<td>(Robotic receptacle kit sold separately)</td>
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<td>#907 155 002</td>
<td>Power source with Accu-Speed software upgrade</td>
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<tr>
<td><strong>Auto-Axcess® tandem Systems</strong></td>
<td>For tandem applications consult factory at 1-920-954-3809</td>
<td>For tandem applications consult factory at 1-920-954-3809</td>
<td></td>
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### Wire Drive Motor Assemblies

- **AA-40GB Wire Drive Motor Assembly**
  - See page 5
- **Drive Roll Kits (Required) and Guides**
  - See page 6
- **Wire Drive Motor Mounting Brackets**
  - See page 7

### Optional Software-Based Welding Processes

- **Accu-Speed™**
  - #300 719 For Palm. Field (required Palm™ handheld is NOT included)
  - #300 720 For PC. Field (required PC-based emulator and cable are NOT included)
- **RMD® (Regulated Metal Deposition)**
  - #195 252 For Palm. Field (required Palm™ handheld is NOT included)
  - #300 721 For PC. Field (required PC-based emulator and cable are NOT included)

### Services and Options

- **Field Application Support**
  - #195 480 Robotic/automation. One day minimum, not subject to discount. See page 6
- **Axcess® File Management**
  - #300 529 For PC. File management software (PC-based emulator is included)
- **WaveWriter™ Wave Shaping**
  - Consult factory For PC. File management software with wave shaping (PC-based emulator is included)

### Accessories

- **Fanuc Internal Wiring Kit**
  - #300 229
- **Receptacle/Adapter Kits**
  - See page 7. One required per machine, consult factory
- **Smart Adapter**
  - #300 012 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 7
- **Coolant Flow Switch**
  - #195 461
- **Motor Control Cable**
  - See page 7. See page 5 for connection diagram
- **Volt-Sense Cable (50 ft./15.2 m)**
  - #242 212 050 Included with drive motor. See page 7. See page 5 for connection diagram
- **Robotic MIG 4/0 Kit**
  - #301 278
- **Axcess® Feeder Base and Spool Support**
  - #195 369 Allows mounting of AA-40GB motor when using ROI option
- **Hub and Spindle Assembly**
  - #072 094
- **Spindle Support**
  - #092 989
- **Additional Feeder Accessories**
  - See page 7
- **Coolant Systems**
  - See page 7

**Date:**

**Total Quoted Price**

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