### Processes
- Stick (SMAW)
- DC TIG (GTAW)
- MIG (GMAW)
- RMD® (GMAW-S)
- Pulsed MIG (GMAW-P)
- Flux-Cored (FCAW)
- Air Carbon Arc (CAC-A) Cutting and Gouging (1/4-in. carbons)

### Quick Specs

<table>
<thead>
<tr>
<th>Operations</th>
<th>Processes</th>
<th>Rated Output</th>
<th>Output Range</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Welding Field</td>
<td>Stuck (SMAW)</td>
<td>350 A at 34 VDC, 60% Duty Cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>DC TIG (GTAW)</td>
<td></td>
<td>Stick: 40 – 350 A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MIG (GMAW)</td>
<td></td>
<td>DC TIG: 10 – 350 A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMD® (GMAW-S)</td>
<td></td>
<td>MIG/Flux-Cored: 10 – 44 V</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pulsed MIG (GMAW-P)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flux-Cored (FCAW)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air Carbon Arc (CAC-A) Cutting and Gouging</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1/4-in. carbons)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>Power Source: 100 lb. (45.4 kg)</td>
<td></td>
<td>FieldPro Remote: 10 lb. (4.5 kg)</td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>FieldPro Feeder: 35 lb. (16 kg)</td>
<td></td>
<td>FieldPro Feeder: 50 lb. (23 kg)</td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>FieldPro Smart Feeder: 50 lb. (23 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Simplicity-Driven Performance for Your Construction Site.
Designed exclusively for onsite pipe welding.

### Simplified Cable Management
- Save time by eliminating the need to trace cables back to change welding parameters and processes.
- No control cables to string and manage on the jobsite.

### Complete Control at the Weld Joint
- FieldPro Remote reduces weld defects by automatically setting correct polarity for each welding process—without the need to manually swap cables.
- Eliminates the need to “get by” with less than optimal settings without control cables, and allows for easy setup of a new weld process with the touch of a button.
- Total remote control of welding processes and parameters improves safety by limiting jobsite movement and reducing slip, trip and fall hazards.

### Arc Performance Optimized for Critical Pipe Welding
- Industry-leading arc performance like the PipeWorx 400 Welding System, but in a field-ready package.
- True multiprocess system provides conventional Stick, TIG, FCAW, and MIG welding as well as the advanced technologies of RMD and Pulse.
- Smart Feeder delivers excellent RMD and Pulse welding up to 200 feet away from the power source with no control cables. RMD and Pulse processes also help reduce weld failures and eliminate backing gas on some stainless and chromoly applications.

### New Durability Standard for Field Construction
- Designed and built to withstand the harshest field environments.

---

**Miller Electric Mfg. Co.**
An ITW Company
1635 West Spencer Street
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Appleton, WI 54912-1079 USA

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

**MillerWelds.com**

---

Power source is warranted for 3 years, parts and labor.
Complete remote control. The FieldPro Remote provides all the same functionality of the PipeWorx 350 FieldPro hundreds of feet from the power source, including process changeover, and amperage adjustment with no special cables. Connect the FieldPro Remote in line with the electrode holder or TIG torch with standard welding cables and have complete remote control.

Superior arc performance. The optimized Stick and TIG performance specifically meets the needs of open root pipe welding and helps reduce training time and increases quality. Starts maintain root opening and prepared edge and stops limit arc marks outside of the heat-affected zone.

Easy to use. The PipeWorx 350 FieldPro™ is streamlined and simplified to reduce setup time and potential weld defects. Pushbutton process changeover eliminates the need for swapping cables. The robust design will withstand harsh environments common in the field.

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Rated Welding Output</th>
<th>Voltage Range in CV Mode</th>
<th>Amperage Range in CC Mode</th>
<th>Max. Open-Circuit Voltage</th>
<th>RMS Amps Input at Rated Load Output, 60 Hz, at NEMA Load Voltages and Class 1 Rating</th>
<th>KVA</th>
<th>KW</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Phase</td>
<td>350 A at 34 VDC, 60% Duty Cycle</td>
<td>10–44 V</td>
<td>10–350 A</td>
<td>75 VDC</td>
<td>36.1</td>
<td>17.8</td>
<td>14.1</td>
<td>15.0</td>
<td>14.4</td>
</tr>
<tr>
<td>1-Phase</td>
<td>300 A at 32 VDC, 60% Duty Cycle</td>
<td>54.6</td>
<td>25.4</td>
<td>19.9</td>
<td>11.7</td>
<td>11.2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Solid Wire and Flux-Cored Welding Processes

Set volts and wire feed speed remotely. The simple interface on the feeder allows operators to adjust parameters at the point of use with no control cables.

Easy process changeover. Simply connect the FieldPro feeder to your weld lead and you are ready to go. The power source automatically switches settings to run conventional wire processes.

Easy solution for traditional wire process. Add the Flux-Cored capability of the PipeWorx 350 FieldPro™ for fill and cap passes for increased productivity.

Durable design reduces downtime. Impact-resistant case and the elimination of feeder control cables provides a solid solution to last in harsh environments.

FieldPro™ Feeder Control Panel

1. Voltmeter
2. Wire Speed/Amperage Meter
3. Wire Speed Control
4. Power Control Switch
5. Voltage Control
6. Soft Start Switch
7. CC/CV Switch
8. Trigger Hold Switch
9. Jog/Purge Switch

FieldPro™ Feeder Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Welding Power Source Type</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Diameter Capacity</th>
<th>Max. Spool Size Capacity</th>
<th>Wire Speed</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-circuit/arc voltage, 14–110 VDC</td>
<td>Constant Voltage (CV) or Constant Current (CC) DC power source only</td>
<td>425 A at 60% Duty Cycle</td>
<td>Solid Wire: .023–.0564 in. (0.6–2.0 mm)</td>
<td>Up to 45 lb. (20.4 kg)</td>
<td>50–800 IPM (1.3–20.3 m/min.) dependent on arc voltage</td>
<td>H: 15.5 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)</td>
<td>35 lb. (15.9 kg)</td>
</tr>
</tbody>
</table>
RMD® and Pulsed MIG Welding Processes

Smart Feeder delivers excellent RMD and Pulsed MIG welding up to 200 feet away from the power source with no control cables — twice the distance previously possible. RMD and Pulsed MIG processes also help reduce weld failures and eliminate backing gas on some stainless and chromoly applications.

Durable design reduces downtime. Impact-resistant case and the elimination of feeder control cables provide a solid solution to last in harsh environments.

Synergic processes. RMD and Pulsed MIG welding permits procedures with one wire and one gas to eliminate process switch-over time.

Easy process changeover. Simply connect the FieldPro Smart Feeder to your leads and you are ready to go. All controls automatically shift to the FieldPro Smart Feeder.

FieldPro® Smart Feeder Control Panel

1. In Use Button and Indicator
2. Arc Length/Volts Display and Indicators
3. Arc Length/Volts Decrease and Increase Buttons
4. Purge Button
5. MIG Type Select Button and Indicator
6. Trigger Hold On/Off Button
7. Jog Button
8. Amps/Wire Feed Speed Display and Indicators
9. Amps/Wire Feed Speed Decrease and Increase Buttons
10. Memory Select Button and Location Indicator
11. Trigger Select On/Off Button
12. Memory Card Button
13. Memory Card Load Button
14. Memory Select Button and Location Indicator
15. Wire Diameter Select Button and Indicator
16. Jog Button
17. Purge Button
18. Wire Type Select Button and Indicator
19. MIG Type Select Button and Indicator
20. Gas Type Select Button and Indicator

RMD/Pulsed MIG Installation Diagram

FieldPro® Smart Feeder Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Welding Power Source Type</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Diameter Capacity</th>
<th>Max. Spool Capacity</th>
<th>Wire Speed</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-circuit/arc voltage, 14—110 VDC*</td>
<td>PipeWorx 350</td>
<td>275 A at 60% Duty Cycle</td>
<td>.035—.045 in. (0.9—1.1 mm)</td>
<td>12 in. (305 mm) Up to 33 lb. (15 kg)</td>
<td>50–500 IPM (1.3–12.7 m/min) dependent on arc voltage</td>
<td>H: 13 in. (330 mm) W: 18 in. (457 mm) D: 21.5 in. (546 mm)</td>
<td>50 lb. (23 kg)</td>
</tr>
</tbody>
</table>

*Welding with the Smart Feeder requires the PipeWorx 350 FieldPro to be hooked up to 3-phase power.
PipeWorx 350 FieldPro™ Packages

**Stick/TIG System**

PipeWorx FieldPro Stick/TIG Welding System package (#951 547) includes PipeWorx 350 FieldPro power source, FieldPro Remote, and work sense lead with clamp. The system is shown with work cable and clamp (#195 458), weld cable extension (#195 456), TIG torch (WP26V122) and cable cover (WC310).

- Remotely change process and polarity
- Set actual amperage
- No need to swap weld cables
- Detects improper connection

**MIG/Flux-Cored System**

PipeWorx FieldPro MIG/Flux-Cored Welding System package (#951 607) includes PipeWorx 350 FieldPro power source, FieldPro Feeder with work sense lead and clamp, and Bernard™ 300A MIG gun. The system is shown with work cable and clamp (#195 458) and weld cable extension (#195 456).

- No feeder control cables
- Eliminates trips back to power source
- Total remote control
- Automatically changes to CV output when feeder is connected

**RMD/Pulse System**

PipeWorx FieldPro RMD/Pulse Welding System package (#951 608) includes PipeWorx 350 FieldPro power source, FieldPro Smart Feeder, and Bernard™ 300A MIG gun. The system is shown with work cable and clamp (#195 458), and weld cable extensions (#195 456).

- Offers traditional MIG and Flux-Cored processes, as well as advanced RMD and Pulse programs.
- Weld up to 200 feet away from the power source with no special cables
- Save welding parameters for later use on SD memory card
- Complete remote control at the weld joint
Bernard™ PipeWorx Guns Features

As the preferred hand-held MIG gun and consumable manufacturer of Miller®, Bernard is proud to provide its durable and innovative products for use with Miller wire feeders and machines. Each Bernard product is versatile, dependable and built with the goal in mind of improving your welding productivity and performance.

The Bernard Q-Gun™ with a tapered tip and nozzle is recommended for root pass welding, especially in fixed-position applications where visibility is difficult. Switch to a standard tip and nozzle for fill and cap pass welding with Flux-Cored or Pulsed MIG welding processes. This allows one gas and one wire to make the weld.

Versatility

Can be used for MIG, Pulsed MIG, and Flux-Cored.

Ergonomics

Compact, lightweight gun with high-amperage capability reduces operator fatigue improving productivity.

Visibility

The combination of tapered tips and nozzles and 60° neck provides excellent visibility on root passes in pipe joints.

Centerfire™ Tip

Provides “drop-in” tip with no threads providing quick changeover. No tools are required.

Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Bernard Model</th>
<th>100% Duty Cycle NEMA</th>
<th>100% Duty Cycle CE</th>
<th>60% Duty Cycle CE</th>
<th>35% Duty Cycle CE</th>
<th>Gas Type</th>
<th>Cable Length</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PipeWorx 250-15 #195 399 (root pass only)</td>
<td>300 A</td>
<td>250 A</td>
<td>300 A</td>
<td>365 A</td>
<td>100% CO₂</td>
<td>15 ft. (4.6 m)</td>
<td>9 lb. (4.1 kg)</td>
</tr>
<tr>
<td>Q3015TC8EM</td>
<td>350 A</td>
<td>320 A</td>
<td>370 A</td>
<td>470 A</td>
<td>CO₂ Gas</td>
<td>15 ft. (4.6 m)</td>
<td>10 lb. (4.6 kg)</td>
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Key Gun Consumables

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Package Quantity</th>
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</thead>
<tbody>
<tr>
<td>.035-in. Tapered Tip</td>
<td>TT-035</td>
<td>10</td>
</tr>
<tr>
<td>.040-in. Tapered Tip</td>
<td>TT-039</td>
<td>10</td>
</tr>
<tr>
<td>.045-in. Tapered Tip</td>
<td>TT-045</td>
<td>10</td>
</tr>
<tr>
<td>.035-in. Tip</td>
<td>T-035</td>
<td>10</td>
</tr>
<tr>
<td>.040-in. Tip</td>
<td>T-039</td>
<td>10</td>
</tr>
<tr>
<td>.045-in. Tip</td>
<td>T-045</td>
<td>10</td>
</tr>
<tr>
<td>.052-in. Tip</td>
<td>T-052</td>
<td>10</td>
</tr>
<tr>
<td>1/16-in. Tip</td>
<td>T-062</td>
<td>10</td>
</tr>
<tr>
<td>.035 – .045 in. Liner</td>
<td>43115</td>
<td>1</td>
</tr>
<tr>
<td>.045 – .062 in. Liner</td>
<td>44215</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Package Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nozzle 5/8-in. ID</td>
<td>NS-5818C</td>
<td>10</td>
</tr>
<tr>
<td>Nozzle 5/8-in. ID</td>
<td>N-5818C</td>
<td>10</td>
</tr>
<tr>
<td>Nozzle 1/2-in. ID</td>
<td>NS-1218C</td>
<td>10</td>
</tr>
<tr>
<td>Nozzle 3/4-in. ID</td>
<td>N-3418C</td>
<td>10</td>
</tr>
<tr>
<td>Nozzle 3/8-in. ID Tapered Tip</td>
<td>NT-3800C</td>
<td>10</td>
</tr>
<tr>
<td>Nozzle 3/8-in. ID Tapered Tip</td>
<td>NST-3800B</td>
<td>10</td>
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<tr>
<td>Nozzle 3/8-in. ID Extended Tapered Tip</td>
<td>NST-38XTB</td>
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<tr>
<td>Diffuser</td>
<td>D-1</td>
<td>10</td>
</tr>
<tr>
<td>Diffuser</td>
<td>DS-1</td>
<td>10</td>
</tr>
<tr>
<td>Q Tube Assembly 60°</td>
<td>QT2-60</td>
<td>1</td>
</tr>
<tr>
<td>Q Tube Assembly 80°</td>
<td>QT2-80</td>
<td>1</td>
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<tr>
<td>O-Ring</td>
<td>4929</td>
<td>10</td>
</tr>
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</table>

*Standard part on PipeWorx 250-15.
*Standard part on Bernard Q3015TC8EM.
Weldcraft® TIG Torches

Complete your PipeWorx Welding System with a Miller | Weldcraft TIG torch. These torches use high-quality, durable components combined with innovative designs to ensure long, trouble-free performance, better productivity and lower costs.

PipeWorx Memory Cards

#300 538 Blank Card — Used to store weld programs
#300 557 Calibration — Used to calibrate the PipeWorx System. For free download, visit MillerWelds.com (Smart Feeder only).
#300 460 Range Locks — Provides ability to set nominal parameter values and ranges for wire feed processes.
#300 667 Accu-Power™ — Displays instantaneous power during welding to meet the new ASME requirement for calculating heat input on complex waveform processes (RMD® and Pulsed MIG).
#301 035 Trigger Select/Hold Option — Enables trigger select while welding to change processes and parameters without stopping.
#301 230 System Software — For free download, visit MillerWelds.com

Wireless Remote Hand Control

Wireless Remote Hand Control #300 430
For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller® machine. See Lit. Index No. AY/6.6 for more information.

- Improves safety by eliminating control cord and reducing potential trip hazard.
- Improves weld quality. Operators can easily adjust their machines to optimize the parameters for different joint configurations, electrodes, and wire types and sizes.
- Improves productivity by allowing parameter adjustments up to 300 ft. (91 m) away from welder without returning to the machine or calling for assistance.
- Reduces maintenance time and cost. No cord repairs.
- Digital meter display allows presetting of machine output before welding, and viewing amperage and voltage while welding.

Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Power Supply</th>
<th>Rated Range*</th>
<th>Battery Life</th>
<th>Temperature</th>
<th>Radio Frequency</th>
<th>RF Power</th>
<th>Antenna</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Control (Transmitter)</td>
<td>Three AA Batteries</td>
<td>300 ft. (91 m)</td>
<td>250 hrs.</td>
<td>-13°F to +158°F (−25°C to +70°C)</td>
<td>2.4 Ghz (ISM Band)</td>
<td>&lt;3 mW</td>
<td>Internal</td>
<td>H: 5 in. (127 mm) W: 2.75 in. (70 mm) D: 1.375 in. (35 mm)</td>
<td>0.6 lb. (0.27 kg) w/Batteries</td>
</tr>
<tr>
<td>14-Pin Receiver</td>
<td>10–35 V AC or DC</td>
<td>300 ft. (91 m)</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 3.5 in. (89 mm) Dia: 1.5 in. (38 mm)</td>
<td>0.16 lb. (0.07 kg)</td>
</tr>
</tbody>
</table>

*Some applications are not suitable for wireless communication. Keep in mind that the rated range is subjective, and depends on factors such as obstructions, frequency interference, transmission technology, and weather. The figures listed assume ideal conditions are present.

FCC ID: LW9-Miller-HC (hand control) and LW9-Miller-RX (receiver)  Canada IC: 2119B-MillerHC (hand control) and 2119B-MillerRX (receiver)
PipeWorx 350 FieldPro™ Racks

Optimal system. The PipeWorx 350 FieldPro Rack provides all the same benefits of the individual PipeWorx 350 FieldPro Systems in an easy to transport package for multiple arcs in the field.

Flexible solution. The flexibility of the PipeWorx 350 FieldPro makes it ideal for multiple system racks. Every system in a rack can be used for different tasks on site, increasing fleet utilization and making the best use of equipment budgets.

Easy installation. The power distribution system on the rack allows the entire rack to be wired into a single power drop, isolating high-voltage power in the field.

Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Input Power to Rack</th>
<th>Rack Capacity</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>230–575 VAC, 50/60 Hz, 3-Phase, with Auto-Line*</td>
<td>4 or 6 Units</td>
<td>H: 59 in. (1500 mm)</td>
<td>4-Rack: 679 lb. (308 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>W: 43 in. (1092 mm)</td>
<td>6-Rack: 879 lb. (399 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D: 34.375 in. (873 mm)</td>
<td></td>
</tr>
</tbody>
</table>

System Components

PipeWorx 350 FieldPro™ Power Source #907 533 230–575 V, 50/60 Hz, Tewco®-style connectors
FieldPro™ Feeder #301 228 TFC/WCAW feeder, Tewco-style connectors
FieldPro™ Smart Feeder #300 935 TFC/WCAW/RMD/Pulse feeder, Tewco-style connectors
FieldPro™ Remote with Stick/Tig Interface #300 934 Tewco-style connectors

Accessories

Feeder Drive Rolls, MIG Guns and Consumables See page 6
TIG Torches and PipeWorx Memory Cards See page 7
Wireless Remote Hand Control w/14-Pin Receiver #300 430 Hand control with wireless 300 ft. (91.4 m) operating range
Empty Rack #195 466 Empty XMT-style rack
FieldPro™ Rack Mounting Kit #301 100 Kit to mount single units in rack
Rack Running Gear #195 114 For all XMT- and CST-style racks
Rack Fuses (see chart above for recommended fuses) #220 768 30 A, individual fuse