WE BUILD™
Everything. With Everyone.

We build with the aerospace welder whose work helps us travel the world — and with the artist whose work helps us smile.

We build with the pro who’s welded in a factory for 30 years — and with the DIYer who’s welding in their backyard for the first time.

From pipelines to project cars, from skyscrapers to sculptures, if you weld, Miller welds with you. Together, WE BUILD™.

For pricing or to find your local distributor, visit us on the web or give us a call.

1-800-4-A-Miller (1-800-426-4553)
New from Blue

Shop with speed and convenience
Visit MillerWelds.com for a fast and easy way to buy welding products for your home or shop.

Shop with expert advice and attention
Visit your local Miller distributor for in-depth knowledge and one-on-one assistance in product selection. MillerWelds.com/wheretobuy

11 XR-AlumaFeed® SuitCase®
12 Deltaweld® 500 and Intellex™ Dual-Wire Feeders

40 Maxstar® 280 Multiprocess
57 Syncrowave® 300

73 Bobcat™ 200 Air Pak™ Diesel
105/107 LPR-100™ OV Half Mask Respirator and New Welding Helmet Graphics
Miller is committed to bringing forward-thinking technologies and solutions to the welding industry. We listen to your challenges and constantly seek to improve our products and services to better address them.

**Ease of use**

**ArcConnect™**
Next generation communication that utilizes high-speed signals to improve weld performance and allow point-of-use controls to be located at the feeder. Found on the Deltaweld® Systems (pg 12).

**MVP™ plugs and adapters**
Allows connection to common 120- or 240-volt receptacles without the use of tools — just choose the plug/adapter that fits the receptacle. Found on the following products:

- **MIG**
  - Millermatic® 211 (pg 7)
- **TIG**
  - Diversion™ (pg 52)
  - Syncrowave® 210 (pg 53)
- **Engine drives**
  - Fusion (pg 71)
- **Plasma cutters**
  - Spectrum® 375/625 (pg 90–91)

**Auto-Line™ Technology**
Allows for any input voltage hookup with no manual linking. Provides convenience in any job setting and is ideal for dirty or unreliable power. Found on the following products:

- **MIG**
  - Millermatic® 255 (pg 9)
  - AlumaPower® 350 (pg 11)
  - Invision™ 352 (pg 14)
  - Continuum™ (pg 15)
  - Auto-Continuum™ (pg 16)
- **Multiprocess**
  - Multimatic® 255 (pg 39)
  - Maxstar® (pg 40)
  - Dynasty® (pg 40)
  - XMT® 350 (pg 42–45)
- **Stick**
  - Maxstar® (pg 48–49)
- **TIG**
  - Maxstar® (pg 52/54–56)
  - Syncrowave® 210 (pg 53)
  - Dynasty® (pg 54–56)
- **Plasma cutters**
  - Spectrum® (pg 90–91)

**Auto-Set™**
Provides speed, convenience and confidence of preset controls and eliminates guesswork when setting weld parameters. Variations of this technology include **Advanced Auto-Set** and **Auto-Set Elite**. Found on the following products:

- **MIG**
  - Millermatic® 141/211/212 Auto-Set™/255 (pg 7–9)
- **Multiprocess**
  - Multimatic® (pg 37–39)
- **TIG**
  - Syncrowave® 210 (pg 53)

**QuickTech™**
Provides easy setup and process changing on the Multimatic® 220 AC/DC multiprocess welder (pg 38).
- Automatically determines polarity. Work is always connected to the bottom right receptacle. MIG gun and TIG torch can stay connected at the same time.
- Automatically switches to the right process. Just hit trigger or foot control and the machine automatically changes, eliminating the need to manually change processes.
- Automatically recalls settings from the last process used.

**ClearLight™ Lens Technology**
Optimizes contrast and clarity in welding and light states. 1/1/1/2 optical clarity rating allows a lighter light state while not welding, providing versatility for varied applications. Found on T94™, Digital Infinity™, Digital Elite™ and Digital Performance™ welding helmets (pg 106–107).

**X-Mode™**
Electromagnetically senses the weld to eliminate sunlight interference and continuously detects the arc even if sensors are blocked. Found on T94™, Digital Infinity™, Digital Elite™ and Classic VSi™ welding helmets (pg 106–107).
Productivity

**ArcReach**

ArcReach technology allows operators to adjust welding parameters right at the weld joint without a control cord, using the wire feeder (pg 18/46) or remote (pg 46) — maximizing arc-on time and impacting the bottom line. Found on the following products:

- **Multi-process**
  - Dimension™ 650 ArcReach (pg 41)
  - XMT® 350 FieldPro™ models (pg 44)
  - XMT® 450 CC/CV ArcReach (pg 45)

- **Engine drives**
  - Trailblazer® 325 ArcReach models (pg 76)
  - Big Blue® ArcReach models (pg 78–81)

**Auto-Speed™**

Automatically adjusts engine speed to meet demands so the engine never works harder than necessary. Reduces fuel consumption, exhaust emissions and noise levels on the Bobcat™ 200 Air Pak™ (pg 73) and Trailblazer® 325 (pg 76) engine drives.

**Excel™ power**

Provides 2,400 watts (20 A) of 120-volt power at all engine speeds, including idle. Reduces fuel consumption, exhaust emissions and noise levels on select models of the Trailblazer® 325 engine drive (pg 76).

**Advanced welding processes**

- **Versa-Pulse™** is a fast, low-heat, low-spatter process designed for materials up to 1/4 inch and is great for gap filling.
- **Accu-Pulse®** is better for out-of-position welds, provides higher deposition rates and has the most adaptive arc on 16 gauge and thicker materials.
- **RMD® (Regulated Metal Deposition)** is a modified-short-circuit welding process with the lowest heat process and limited travel speed. It is designed to fill gaps in thin-material applications and provides a higher quality root pass, calm stable arc and less spatter.

Advanced welding processes are found on the following products:

- **MIG**
  - Deltaweld® 350/500 with Intellx™ Pro feeder (Accu-Pulse only) (pg 12)
  - Continuum™ Systems (pg 15)
  - Auto-Continuum™ Systems (pg 16)

- **Multi-process (RMD only)**
  - XMT® 350 FieldPro models (pg 44)*
  - PipeWorx 400 Welding System (pg 47)

*Requires an ArcReach Smart Feeder.

**InfoTrack™**

Data monitoring technology tracks arc time and features a clock. Version 2.0 adds arc count. Found on T94™ and Digital Infinity™ welding helmets (pg 106–107).

**Fan-On-Demand™**

Fan only operates when needed to reduce noise, energy use and amount of contaminants pulled through the machine. Found on various MIG, multiprocess, stick, TIG and plasma cutter products.

**ZoneFlow™ technology**

Extended-capture weld fume extraction technology extends the capture zone up to five feet deep and four feet wide (versus up to 18 inches from conventional source capture extractors). The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity. Found on FILTAIR® Capture 5, and select FILTAIR® SWX and 4000–12000 models (pg 100–102).

**Insight Welding Intelligence™**

- **Insight Core™** is a simplified, internet-based welding information solution that reports operator productivity and deposition, as well as weld parameter verification.
  - Continuum™ (pg 15)
  - Auto-Continuum™ (pg 16)

- **Insight Centerpoint™** is an advanced PC-based operator feedback solution designed to detect missed welds, verify proper weld sequence and provide weld defect detection — all in real time.
  - PipeWorx 400 Welding System (pg 47)

**Augmented reality welding**

Builds a larger, more skilled welding workforce and quickly helps correct errors, reinforces proper welding practices and accelerates skill advancement. This training solution is found on the AugmentedArc™ augmented reality welding system (pg 113).

**Dynamic Dig™**

Automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique. Found on Trailblazer® 325 (pg 76) and Big Blue® (pg 78–81) engine drives.

**InfoTrack™**

Data monitoring technology tracks arc time and features a clock. Version 2.0 adds arc count. Found on T94™ and Digital Infinity™ welding helmets (pg 106–107).

**Insight Core™** is compatible with many 14-pin compliant Miller® power sources (see list at MillerWelds.com/Insight) using an Insight Core 14-pin module or ALL power sources using an ArcAgent for Insight Core.

**Insight Centerpoint™** is compatible with ALL power sources using an ArcAgent Manual or ArcAgent Auto.

Note: **Insight Core™** is compatible with many 14-pin compliant Miller® power sources (see list at MillerWelds.com/Insight) using an Insight Core 14-pin module or ALL power sources using an ArcAgent for Insight Core.

**Insight Centerpoint™** is compatible with ALL power sources using an ArcAgent Manual or ArcAgent Auto.
### Product Guide

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<th>Millermatic® 141</th>
<th>1-Phase</th>
<th>Millermatic® 211</th>
<th>1-Phase</th>
<th>Millermatic® 212 Auto-Set®</th>
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<th>1-Phase</th>
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<td>3-Phase</td>
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<td>5-Phase</td>
<td>9</td>
<td>9-Phase</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>Handles, optimal running gear</td>
<td>Steel, stainless, aluminum</td>
<td>30-140 A</td>
<td>All-in-one, 120 V input, Auto-Set™ Smooth-Start™</td>
<td>Up to 3/16 in. using self-shielded wire maintenance/repair, auto body, hobby</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>Installed running gear</td>
<td>Steel, stainless, aluminum</td>
<td>30-210 A</td>
<td>All-in-one, 230 V input, Fan-On-Demand™ Gun-On-Demand™</td>
<td>Up to 3/8 in. maintenance/repair, auto body, hobby</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>8</td>
<td></td>
<td>Installed running gear</td>
<td>Steel, stainless, aluminum</td>
<td>30-300 A</td>
<td>All-in-one, standard times menu, Fan-On-Demand™ connects to standard MIG gun, push-pull gun or spool gun</td>
<td>Up to 1/2 in. industrial production/fabrication, farm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>Handles, optimal running gear</td>
<td>Steel, stainless, aluminum</td>
<td>20-350 A</td>
<td>All-in-one, Auto-Set™ stores up to 4 programs, connects to standard MIG gun, push-pull gun or spool gun</td>
<td>Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Class</th>
<th>Millermatic® 350P</th>
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<th>Millermatic® 350P Aluminum System</th>
<th>3-Phase</th>
<th>AlumaFeed™ 350 Aluminum System</th>
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<th>Invision™ 352 MPa Plus System</th>
<th>3-Phase</th>
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<td>Installed running gear</td>
<td>Steel, stainless, aluminum</td>
<td>25-400 A</td>
<td>All-in-one, connects to standard MIG gun, push-pull gun or spool gun</td>
<td>Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>Aluminum</td>
<td>25-400 A</td>
<td>All-in-one, optimized for feeding aluminum wire only using a push-pull gun or spool gun</td>
<td>Up to 1/2 in. industrial aluminum production/fab, pulsed MIG ideal for thin gauge aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11</td>
<td></td>
<td>Handles, optional cart, MIGRunner™</td>
<td>Aluminum</td>
<td>5–425 A</td>
<td>Profile Pulse™ lightweight feeder can be up to 100 feet from power source</td>
<td>Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>14</td>
<td></td>
<td>Most metals</td>
<td>5–425 A</td>
<td>Push-pull gun capability, optimized with 74 MPa Plus wire feeder</td>
<td>Manufacturing and production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Product       | Page | Class | AlumaFeed™ 450 MPa Plus System | 3-Phase | Invision™ 450 MPa Plus System | 3-Phase | Deltaweld™ 350 Systems | 3-Phase | Deltaweld™ 500 Systems | 3-Phase | Continuum™ 350 | 3-Phase | Continuum™ 500 | 3-Phase | Auto-Continuum™ 350 | 3-Phase | Auto-Continuum™ 500 | 3-Phase |
|---------------|------|-------|-------------------------------|---------|-------------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|
|               | 11   |       | Handles, optional cart, MIGRunner™ | Aluminum | 15-600 A | Profile Pulse™ lightweight feeder can be up to 100 feet from power source | Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding |
|               | 14   |       | Most metals | 15-600 A | Push-pull gun capability, optimized with 74 MPa Plus wire feeder | Manufacturing and production |
|               | 12   |       | Lift eye, optimal running gear, MIGRunner™ | Steel, stainless | 20–400 A | Special arc control feature when paired with Intellx™ feeders, Accu-Pulse® MIG welding with Inletx Pro feeders | Medium-to-large manufacturing and fabrication |
|               | 12   |       | Lift eye, optimal running gear, MIGRunner™ | Steel, stainless | 30–650 A | Special arc control feature when paired with Intellx™ feeders, Accu-Pulse® MIG welding with Inletx Pro feeders | Medium-to-large manufacturing and fabrication |
|               | 15   |       | Lift eye, optimal running gear, MIGRunner™ | Most metals | 26–400 A | Advanced arc performance, Welding Intelligence™ | Mid- to high-volume manufacturing |
|               | 15   |       | Lift eye, optimal running gear, MIGRunner™ | Most metals | 20–600 A | Advanced arc performance, Welding Intelligence™ | Mid- to high-volume manufacturing |
|               | 16   |       | Lift eye | Steel, stainless | 20–400 A | Available for EtherNet/IP™, DeviceNet and analog protocol | Fixed and flexible automation |
|               | 16   |       | Lift eye | Steel, stainless | 20–600 A | Available for EtherNet/IP™, DeviceNet and analog protocol | Fixed and flexible automation |

### Product Key

- **Class:** Light industrial, Industrial, Heavy industrial
- **Capability:** Designed for this process, Capable of this process
- **New! or Improved! products appear in blue type.**
- *If using self-shielded wire on a CC/CV machine, use CV weld output.*
Millermatic® 141 and 211 See literature DC/12.42 (141) and DC/12.58 (211)

Mild Steel Welding Capability

<table>
<thead>
<tr>
<th>Model</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16 in. (4.8 mm)</td>
<td>24 ga. (0.6 mm)</td>
<td>24 ga. (0.6 mm)</td>
</tr>
<tr>
<td>3/8 in. (9.5 mm)</td>
<td>211</td>
<td></td>
</tr>
</tbody>
</table>

Aluminum Welding Capability

<table>
<thead>
<tr>
<th>Model</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 ga. (1.9 mm)</td>
<td>211</td>
<td></td>
</tr>
<tr>
<td>18 ga. (1.2 mm)</td>
<td>211</td>
<td></td>
</tr>
</tbody>
</table>

Recommended aluminum solution

Spoolmate 100 (page 27) with both Millermatic models
OR Spoolmate 150 (page 27) with Millermatic 211.

Auto-Set™ automatically provides the right settings to weld mild steel while infinite voltage control allows the flexibility to manually set your own parameters. Millermatic 211 model provides additional capabilities.

- Set the wire diameter (141: .024/.030 in.) (211: .024/.030/.035 in.), a blue light shows Auto-Set is activated
- Dial in the thickness of material you are welding
- Start welding with the exact parameters you need!

Angled cast-aluminum drive system with calibrated tension knob creates consistent feeding and easy setup.

Quick Select™ drive roll makes setup quicker by offering three grooves — two for different size solid wire and a third for flux-cored wire.

Auto Spool Gun Detect™ automatically detects when a MIG gun or spool gun is connected, eliminating the need for a switch.

Smooth-Start™ provides a smooth, spatter-free start.

Thermal overload protection shuts down unit and activates the over temperature light if airflow is blocked or duty cycle is exceeded. Automatically resets when unit cools.

Uses 4- or 8-inch (102 or 203 mm) spools.

**Millermatic 211 model additional features**

Advanced Auto-Set™ includes five different wire/gas combinations and .024-, .030- and .035-inch wire capabilities.

Inverter technology combines best-in-class arc characteristics with the portability of a 38-pound machine. The arc is extremely forgiving to variations in arc length and travel speeds.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

**Power Source**

- **V-Knurled Drive Roll** 202926
- **Running Gear/Cylinder Rack** 301239 (pg 114)
- **Protective Cover** 301262 (pg 117)
- **Multi-voltage plug (MVP™)** allows connection to common 120- and 240-volt power receptacles without the use of any tools — simply choose the plug that fits the receptacle and connect to the power cord.

**Processes**

- **MIG (GMAW)**
- **Flux-cored (FCAW)**

**Comes complete with**

- 10 ft. (3 m) 100-amp MDX®-100 MIG gun
- 10 ft. (3 m) work cable with clamp
- 6.5 ft. (2 m) power cord with plug (Millermatic 141) OR 6.5 ft. (2 m) power cord with MVP plugs for 120 V and 240 V (Millermatic 211)
- Quick Select™ drive roll for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire

**Most popular accessories**

- Spoolmate™ 100 300371 (pg 27)
- Spoolmate™ 150 301272 (pg 27) (for Millermatic 211 only)
- Flow gauge regulator and gas hose for argon or AR/CO2 mix, two .030 in. contact tips, Hobart® spool of .030 in. solid wire, hook-and-loop cord wraps and material thickness gauge (229895)

**Dimensions**

- **H:** 23.6 in. (60 cm)
- **W:** 11.2 in. (28 cm)
- **D:** 12.5 in. (32 cm)

**Net Weight**

- 38 lb. (17.2 kg)
- 51 lb. (23.1 kg)

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 141 (907612) (951601) with running gear/cylinder rack</td>
<td>120 V</td>
<td>30-140</td>
<td>90 A at 18.5 VDC, 20% duty cycle</td>
<td>20 – 3.0 2.45</td>
<td>Solid steel Flux-cored .023-.030 in. (0.6-0.8 mm)</td>
<td>H: 12.5 in. (318 mm) W: 11.25 in. (286 mm) D: 20.5 in. (521 mm)</td>
<td>38 lb. (17.2 kg)</td>
<td></td>
</tr>
<tr>
<td>Millermatic 211 (907614) (951603) with running gear/cylinder rack</td>
<td>120 V</td>
<td>30-130</td>
<td>115 A at 19.8 VDC, 20% duty cycle</td>
<td>24.3 – 2.9 2.9</td>
<td>Solid steel Flux-cored .023-.035 in. (0.6-0.9 mm)</td>
<td>H: 12.5 in. (318 mm) W: 11.25 in. (286 mm) D: 20.5 in. (521 mm)</td>
<td>51 lb. (23.1 kg)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>30-230</td>
<td>150 A at 21.5 VDC, 40% duty cycle</td>
<td>16.6 4.0 4.0</td>
<td>Solid steel Flux-cored .030-.045 in. (0.8-1.2 mm)</td>
<td>H: 12.5 in. (318 mm) W: 11.25 in. (286 mm) D: 20.5 in. (521 mm)</td>
<td>38 lb. (17.2 kg)</td>
<td></td>
</tr>
</tbody>
</table>
**Millermatic® 212 Auto-Set™** See literature DC/12.46

**Welding Capability**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>200(208)/230 V with Spoolmate 200, regulator, and dual cylinder rack</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amperage Range</strong></td>
<td><strong>Rated Output</strong></td>
</tr>
<tr>
<td>30–210</td>
<td>160 A at 24.5 VDC, 60% duty cycle</td>
</tr>
</tbody>
</table>

**Auto-Set™** makes setup quick and easy. On the Millermatic 212, it works with .030- and .035-inch wire (see page 7 for more information).

**Infinite voltage control.** When used in manual mode provides broader operating range with finer control than a tap machine.

**Gun-On-Demand:** Simply pull the trigger for either gun and you’re ready to weld. No wasted time installing modules and using gas valve kits.

**Heavy-duty aluminum two-drive-roll system.**

**Fan-On-Demand** cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

**Aluminum MIG welding** with optional Spoolmate® 200 spool gun. Wire feed speed control on the gun saves time by reducing trips back to the machine. Also compatible with the more industrial Spoolmatic® spool guns.

**Millermatic® 252** See literature DC/12.49

**Welding Capability**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>200(208)/230 V with Spoolmate 200, regulator, and dual cylinder rack</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amperage Range</strong></td>
<td><strong>Rated Output</strong></td>
</tr>
<tr>
<td>30–300</td>
<td>200 A at 28 VDC, 60% duty cycle</td>
</tr>
</tbody>
</table>

**Infinite voltage control with self-calibrating digital meters** that permit presetting of voltage and wire feed speed. Ensures precise parameters and accuracy.

**EXCLUSIVE! Auto-Gun Detect** automatically adjusts voltage, wire speed and timers for faster switching between MIG, push-pull and spool guns.

**Integrated digital timers** come complete with presettable preflow/postflow, bumpback, spot and delay (stitch) timers. Independent timers for MIG and spool gun.

**Heavy-duty aluminum two-drive-roll system.**

**Fan-On-Demand** cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

**Superior aluminum MIG welding with direct connection** of optional Spoolmate® 200 and Spoolmatic®/Spoolmatic Pro spool guns or XR® push-pull guns. No extra module to buy or install.
Millermatic® 255

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Min. 24 ga. (0.6 mm)</th>
<th>Max. 1/2 in. (13 mm)</th>
<th>Min. 18 ga. (1.2 mm)</th>
<th>Max. 1/2 in. (13 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>50-800 ipm (1.3-20 m/min.)</td>
<td>44.0</td>
<td>39.5</td>
<td>9.5</td>
</tr>
<tr>
<td>Aluminum</td>
<td>.023-.045 in. (0.6-1.2 mm)</td>
<td>.023-.045 in. (0.6-1.2 mm)</td>
<td>.035-.047 in. (0.9-1.2 mm)</td>
<td>.035-.045 in. (0.8-1.2 mm)</td>
</tr>
</tbody>
</table>

Aluminum welding uses optional XR-Aluma-Pro® push-pull gun.

Recommended aluminum solution
XR-Aluma-Pro® push-pull gun (page 29).

Industrial Processes

- MIG (GMAW)
- Flux-cored (FCAW)
- Pulsed MIG (GMAW-P)

Millermatic 255 comes complete with

- 15 ft. (4.5 m) 250-amp MDX™-250 MIG gun with Bernard® AccuLock™ S consumables
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Chain to secure gas cylinder
- .035/.045 in. reversible V-groove drive rolls
- Extra contact tips and material thickness gauge (229895)

Most popular accessories

- MDX™-250 EZ-Select™ MIG Gun 1770047 (pg 24)
- Spoolmatic® Spool Gun (pg 28) (non-Pro gun only)
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns (pg 29)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 114)
- EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack 301481
- Converts an EZ-Latch™ Single Cylinder Running Gear into a Dual Cylinder Rack Running Gear as seen below

Stay Welding. Stay In Control.

Auto-Set™ Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.

- Available for MIG and pulsed MIG processes with the ability to fine-tune your settings
- Set weld parameters by selecting wire and gas type, wire diameter and material thickness

Built-in pulsed MIG programs. All programmed information is restored after each power up — aluminum/steel/stainless steel.

Program mode allows easy save and recall of favorite weld settings. Delivers more productivity and consistent quality while minimizing supervisor intervention.

EXCLUSIVE! Auto-Gun Detect™ automatically adjusts voltage, wire speed and timers for faster switching between MIG, push-pull and spool guns.

Heavy-duty aluminum two-drive-roll system.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

Easy-to-understand interface with 7-inch color LCD display ensures proper machine setup and parameter selection, reducing setup time and increasing weld time.

- Quick-access Auto-Set and pulse mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick, easy and intuitive
- Large text for easier readability
- Intuitive connection setup images
- Full troubleshooting descriptions versus help errors and look up codes

Stock Number
(907734) 208-240 V
(951766) 208-240 V
with single cylinder running gear

Amperage Range
20-350
Rated Output
230 A at 25.5 V, 60% duty cycle
Amps Input at Rated Output, 50/60 Hz
208 V 240 V 230 A
KVA 44.0 39.5 9.5
KW 7.2
Wire Feed Speed
50-800 ipm (1.3-20 m/min.)
Wire Type and Diameter Capacity
Solid steel .023-.045 in. (0.6-1.2 mm)
Stainless .023-.045 in. (0.6-1.2 mm)
Aluminum .035-.047 in. (0.9-1.2 mm)
Flux-cored .030-.045 in. (0.8-1.2 mm)
Power Source
DC/12.8
Dimensions
H: 19.24 in. (489 mm)
W: 13.75 in. (349 mm)
D: 26.25 in. (667 mm)
Net Weight
84 lb. (38 kg)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Recommended accessories
- EZ-Latch™ Single Cylinder Running Gear 951769 (pg 114)
- Protective Cover 301521 (pg 117)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Millermatic® 350P

See literature DC/12.51

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Min. 24 ga. (0.6 mm)</th>
<th>Max. 1/2 in. (13 mm)</th>
<th>Max. 1/2 in. (13 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>33</td>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>Aluminum</td>
<td>69</td>
<td>61</td>
<td>30</td>
</tr>
</tbody>
</table>

Aluminum welding uses optional XR-Aluma-Pro™ push-pull gun.

Built-in pulsed MIG programs. All programmed information is restored after each power up — aluminum/steel/stainless steel/metal-cored.

Infinite voltage control with self-calibrating digital meters that permit presetting of voltage and wire feed speed. Ensures precise parameters and accuracy.

EXCLUSIVE! Auto-Gun Detect™ automatically adjusts voltage, wire speed and timers for faster switching between MIG, push-pull and spool guns.

Integrated digital timers come complete with presettable preflow/postflow and spot timers. Independent timers for MIG and push-pull guns.

Heavy-duty aluminum four-drive-roll system.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

Stock Number (907300)
200/230/460 V

Input Power
Ampere Range Rated Output
Three-phase 25–400 300 A at 32 VDC, 60% duty cycle

Amps Input at Rated Output, 60 Hz
200 V 230 V 460 V KVA KW

Wire Feed Speed
Solid steel .023–.045 in. (0.6–1.2 mm)
Stainless .030–.045 in. (0.8–1.2 mm)
Aluminum .035–.047 in. (0.9–1.2 mm)
Metal-cored .035–.052 in. (0.9–1.3 mm)
Flux-cored .030–.052 in. (0.8–1.3 mm)

Industrial

Processes
- MIG (GMAW) • Flux-cored (FCAW)
- Pulsed MIG (GMAW-P)

Comes complete with
- 15 ft. (4.5 m) Bernard® BTB Gun
- 300 A with Centerflex® consumables
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord (without plug) for single- or three-phase
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO2 mix
- Factory-installed, low-mounted running gear/cylinder rack
- .035/.045 in. reversible V-groove drive rolls (order U-groove drive rolls for aluminum welding)
- Extra contact tips

Most popular accessories
- Spoolmatic® Spool Gun (pg 28)
- XR™ Air-Cooled Push-Pull Guns (pg 29)
- Dual Cylinder Rack 195299 (pg 114)
- Protective Cover 195142 (pg 117)
- 230-Volt Extension Cord 770644

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Millermatic® 350P Aluminum

See literature DC/12.56

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Min. 18 ga. (1.2 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>181 lb. (82 kg)</td>
</tr>
</tbody>
</table>

True torque feed motor push-pull design provides continuous push force to the wire while the gun motor controls the speed at the gun. The motors work together to provide accurate and positive wire feed speed without wire shaving or deformation.

Electronic wire spool brake allows wire spool to free spool while welding, resulting in smooth wire delivery.

Built-in aluminum pulsed MIG programs for simplicity and improved puddle control. Pulsed welding virtually eliminates burn-through and warping issues on thinner materials.

Synergic MIG and synergic pulsed MIG provide communication between power source, feeder and gun. As wire speed increases/decreases, the pulse or MIG parameters also increase/decrease to match the right amount of power needed.

Trigger schedule select allows operator to change between two sets of weld parameters.

Trigger hold reduces operator fatigue on extended welds.

Stock Number (907474)
200/230/460 V standard unit

Input Power
Ampere Range Rated Output
Three-phase 25–400 300 A at 32 VDC, 60% duty cycle

Amps Input at Rated Output, 60 Hz
200 V 230 V 460 V KVA KW

Wire Feed Speed
Optional spool gun/push-pull gun 50–800 ipm (1.3–20 m/min.)

Industrial

Processes
- Aluminum MIG (GMAW)
- Aluminum pulsed MIG (GMAW-P)

Comes complete with
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord (without plug) for single- or three-phase
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon
- Factory-installed, low-mounted running gear/cylinder rack
- .035 and .047 in. (0.9 and 1.2 mm) U-groove drive rolls for aluminum welding

Push-pull gun systems include above plus
- XR™ air-cooled push-pull gun (see choices far left in chart below)

Most popular accessories
- XR™ Air-Cooled Push-Pull Guns (pg 29)
- Dual Cylinder Rack 195299 (pg 114)
- Protective Cover 195142 (pg 117)
- 230-Volt Extension Cord 770644

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
AlumaFeed® Synergic Aluminum Welding System

Dedicated aluminum system for the most advanced MIG and synergic pulsed MIG performance.

AlumaPower® 350 MPa and XR-AlumaFeed® SuitCase® with XR-Aluma-Pro gun air-cooled package shown.

NEW! Impact-resistant and flame-retardant suitcase-style feeder.

AlumaPower® 350 model allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power. 450 model is 230/460 V manual link or 575 V, three-phase only.

Synchronized, true push-pull wire feed system for precise wire feeding and arc performance.

Profile Pulse® provides TIG appearance with MIG simplicity and productivity. Achieve "stacked dimes" without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.

Synergic pulsed MIG. As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed, eliminating the need to make additional adjustments.

Built-in MIG and pulsed MIG programs automatically set the optimal parameters for a wide variety of wires making it easy to set up and use.

Parameter and system locks enhance quality assurance and protect weld consistency.

Trigger schedule select allows operator to change between two sets of weld parameters.

Models/Packages

*Additional packages are available — visit MillerWelds.com or your distributor.

<table>
<thead>
<tr>
<th>Power Source Only Stock Number</th>
<th>Package Stock Number*</th>
<th>XR-AlumaFeed SuitCase Feeder</th>
<th>XR-Aluma-Pro® Push-Pull MIG Gun</th>
<th>XR®-Pistol Grip Push-Pull MIG Gun</th>
<th>Industrial MIG 4/0 Kit</th>
<th>Coolmate® with Coolant</th>
<th>Cart</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlumaPower 350 MPa (907420) 208–575 V w/auxiliary power</td>
<td>(951834) w/350 model (907420)</td>
<td>(301567) 25 ft. air-cooled</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951836) w/350 model (907420)</td>
<td>(301567) –</td>
<td>30 ft. air-cooled</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951833) w/350 model (907420)</td>
<td>(301567) 25 ft. air-cooled</td>
<td>–</td>
<td>With Dinse connectors</td>
<td>–</td>
<td>MIGRunner cart</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951840) w/450 model (907483)</td>
<td>(301567) 25 ft. air-cooled</td>
<td>–</td>
<td>With lug connectors</td>
<td>–</td>
<td>MIGRunner cart</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951839) w/450 model (907484)</td>
<td>(301567) 25 ft. water-cooled</td>
<td>–</td>
<td>With lug connectors</td>
<td>Coolmate 3</td>
<td>MIGRunner cart</td>
<td>–</td>
</tr>
</tbody>
</table>

Note: All packages listed include gun drive rolls, feeder drive rolls and consumables for .035- and 3/64-inch (0.9 and 1.2 mm) wire. All systems come set up out of the box to run 3/64-inch wire. 1/16-inch consumables not included — order separately above.

Processes

- Aluminum MIG (GMAW)
- Aluminum pulsed MIG (GMAW-P)

Most popular accessories

- XR® Push-Pull Guns (pg 29)
- MIGRunner® Cart 195445 (pg 115)
- Coolmate® 043007 (pg 115)
- Coolant 043810 (pg 115)
- Industrial MIG 4/0 Kits (pg 117) 300405 With Dinse connectors (350 MPa only)
- 300390 With lug connectors (450 MPa only)

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

- Extension Cables (pg 122)
- 247831025 25 ft. (7.6 m)
- 247831050 50 ft. (15 m)
- 247831080 80 ft. (24.4 m)
- 1/16-Inch (1.6 mm) Liner and Wire Kit for Gun 230708
- 1/16-Inch (1.6 mm) Drive Roll Kit for Control Box 195591

- For gun and feeder remote options, see literature DC/34.0 or visit MillerWelds.com

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Industrial MIG 4/0 Kits (pg 117) 300405 With Dinse connectors (350 MPa only)

Note: All packages listed include gun drive rolls, feeder drive rolls and consumables for .035- and 3/64-inch (0.9 and 1.2 mm) wire. All systems come set up out of the box to run 3/64-inch wire. 1/16-inch consumables not included — order separately above.

Note: All packages listed include gun drive rolls, feeder drive rolls and consumables for .035- and 3/64-inch (0.9 and 1.2 mm) wire. All systems come set up out of the box to run 3/64-inch wire. 1/16-inch consumables not included — order separately above.

Heavy industrial 3-phase MIGPower 450

Processes

- Aluminum MIG (GMAW)
- Aluminum pulsed MIG (GMAW-P)

Most popular accessories

- XR® Push-Pull Guns (pg 29)
- MIGRunner® Cart 195445 (pg 115)
- Coolmate® 043007 (pg 115)
- Coolant 043810 (pg 115)
- Industrial MIG 4/0 Kits (pg 117) 300405 With Dinse connectors (350 MPa only)
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- For gun and feeder remote options, see literature DC/34.0 or visit MillerWelds.com

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Processes

- Aluminum MIG (GMAW)
- Aluminum pulsed MIG (GMAW-P)

Most popular accessories

- XR® Push-Pull Guns (pg 29)
- MIGRunner® Cart 195445 (pg 115)
- Coolmate® 043007 (pg 115)
- Coolant 043810 (pg 115)
- Industrial MIG 4/0 Kits (pg 117) 300405 With Dinse connectors (350 MPa only)
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Consists of flowmeter regulator with 10 ft. (3 m) gas hose, 10 ft. (3 m) 4/0 feeder weld cable, and 15 ft. (4.6 m) work cable with 600-amp C-clamp

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- For gun and feeder remote options, see literature DC/34.0 or visit MillerWelds.com

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Deltaweld® Systems

The new standard in manufacturing provides the solution for welders of all skill levels, plus pulsed MIG capabilities with Intellx® Pro integrated packages.

Reduce the time and hassle of setting up welding systems. Make your move to a weld-ready Deltaweld MIGRunner®.

Ships as a complete package. Just hook up your primary power, add gas, wire and welding gun, and you’re ready to weld.

Versatile MIGRunner cart keeps you organized with its dual cylinder rack, MIG gun holders and spacious storage compartment beneath the power source, and portable with its lockable front casters and oversized rear wheels.

Quality-engineered cable management protects your connections to keep you productive.

Single-wire feeder swivels for convenience and function, eliminating wear on gun and liner assembly. It moves with the MIG gun, allowing operator to see the front of the feeder and which parameters are selected.

Old Deltaweld® System

Time spent assembling old Deltaweld package

3 HOURS

New Deltaweld® System

Time spent assembling new Deltaweld package

14 MINUTES

Deltaweld® Power Sources

Two power source choices
- **Deltaweld 350** has auxiliary power standard and optional 14-pin receptacle and meters for use with legacy feeders.
- **NEW! Deltaweld 500** has auxiliary power and meters standard and an optional 14-pin receptacle. It adds more power (500 amps at 100 percent duty cycle) and a dedicated gouge mode for up to 3/8-inch carbons.

ArcConnect™ is a next generation communication that utilizes high-speed signals to improve weld performance and allow point-of-use controls to be located at the feeder.

Wind Tunnel Technology™: Internal air flow that protects components, greatly improving reliability.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

<table>
<thead>
<tr>
<th>Model</th>
<th>Most Popular MIGRunner</th>
<th>Single-Wire Intellx Feeder MIGRunner</th>
<th>Single-Wire Intellx Pro Feeder MIGRunner</th>
<th>Dual-Wire Intellx Feeder MIGRunner</th>
<th>Dual-Wire Intellx Pro Feeder MIGRunner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltaweld 350</td>
<td>208/230/460 V</td>
<td>(951792)</td>
<td>(951777)</td>
<td>(951817)</td>
<td>(951818)</td>
</tr>
<tr>
<td>Deltaweld 500</td>
<td>208/230/460 V</td>
<td>(951814)</td>
<td>(951808)</td>
<td>(951819)</td>
<td>(951820)</td>
</tr>
<tr>
<td>Deltaweld 500</td>
<td>575 V</td>
<td>—</td>
<td>(951824)</td>
<td>—</td>
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</tr>
</tbody>
</table>
Intellx™ Wire Feeders

Dedicated wire feeder options
• **Intellx™ feeders** with new arc control feature means welders can produce better welds with minimal parameter adjustments.
• **Intellx® Pro feeders** add Accu-Pulse®, EZ-Set, steel weld programs, and memory buttons. Accu-Pulse® provides a 28 percent wider operating window and a more forgiving arc, while EZ-Set simplifies parameter setup based on material thickness, removing complexity.

**NEW!** Dual-wire models allow two different wire types to be available on one feeder, avoiding downtime from changing spools and drive rolls.

User-friendly interface makes the system easy to set up and adjust with minimal training.

Rotatable drive assembly allows operator to rotate the drive, eliminating severe bends in the wire feed path. This extends gun-liner life and aids in feeding difficult wires.

Balanced-pressure drive-roll design and tensioners feed wire in its truest and straightest form for consistent feedability and better welding performance.

---

**Intellx™ Pro Swingarc™**

Models include control cable, Bernard® BTB Gun 400 A (two with dual-wire models) with Centerfire™ contact tips, and .035/.045 in. drive rolls.

**NEW!**

Single- and dual-wire models with 12- or 16-foot booms are sized to accommodate a variety of weld cell layouts (24- or 32-foot diameter work area).

Counterbalance design makes it easy to position boom and 360-degree rotation and 60-degree lift angle maximize work area.

In-boom cable routing organizes hoses and cables for a cleaner work environment.

---

**Intellx™ Wire Feeders**

Feeder Options include a Bernard® BTB Gun 300 A (two with dual-wire models) with .035/.045 in. drive rolls and Centerfire™ contact tips.

---

**Intellx Feeder Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Intellx</th>
<th>Intellx Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital meters</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Remote voltage</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Wire feed speed</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Arc control</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Trigger hold</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Wire jog and purge</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Wire feed speed feedback</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Four drive rolls</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Rotatable drive</td>
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</tr>
<tr>
<td>Up to 60 lb. spool</td>
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</tr>
<tr>
<td>MIG process</td>
<td></td>
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<tr>
<td>Dual-wire models</td>
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<tr>
<td>EZ-Set MIG</td>
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<tr>
<td>EZ-Set Accu-Pulse®</td>
<td>✔</td>
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<tr>
<td>Trigger select</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Preflow</td>
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<tr>
<td>Postflow</td>
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</tr>
<tr>
<td>Memory slots (2)</td>
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<td>✔</td>
</tr>
<tr>
<td>Out-of-box programs</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>(steel only)</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

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**Intellx™ Pro Swingarc™**

Single-wire and dual-wire feeders with 12- or 16-foot booms are designed to accommodate a variety of weld cell layouts (24- or 32-foot diameter work area).

Counterbalance design makes it easy to position boom and 360-degree rotation and 60-degree lift angle maximize work area.

In-boom cable routing organizes hoses and cables for a cleaner work environment.

---

**Intellx™ Pro Swingarc™**

<table>
<thead>
<tr>
<th>Model</th>
<th>Single-Wire Intellx Pro Swingarc</th>
<th>Dual-Wire Intellx Pro Swingarc</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 ft. (3.7 m) Boom</td>
<td>(951804)</td>
<td>(951805)</td>
</tr>
<tr>
<td>16 ft. (4.9 m) Boom</td>
<td>(951806)</td>
<td>–</td>
</tr>
</tbody>
</table>

---

**Power Source Only/Stock Number**

**500 A**

<table>
<thead>
<tr>
<th>Power Source Only/Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output*</th>
<th>Amps Input at Rated Load Output, 60 Hz*</th>
<th>Power Source Dimensions (Includes lift eye)</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltaweld 500 (907785)</td>
<td>200/230/460 V</td>
<td>300 A at 29 VDC, 100% duty cycle</td>
<td>29.3</td>
<td>H: 22.36 in. (568 mm) W: 15.35 in. (390 mm) D: 29.15 in. (740 mm)</td>
<td>145 lb. (65.8 kg)</td>
</tr>
<tr>
<td></td>
<td>300–650 A</td>
<td>50 A at 39 VDC, 100% duty cycle</td>
<td>64.2</td>
<td>H: 22.36 in. (568 mm) W: 15.35 in. (390 mm) D: 29.15 in. (740 mm)</td>
<td>145 lb. (65.8 kg)</td>
</tr>
</tbody>
</table>

---

**50 VDC**

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Maximum Speed</th>
<th>Size Capacity</th>
<th>Dimensions (H x W x D)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 VDC</td>
<td>600 A at 113 VDC, 60% duty cycle</td>
<td>50–780 ipm (1.3–19.8 m/min.)</td>
<td>0.023–0.064 in. (0.6–2.0 mm)</td>
<td>18 in. (457 mm)</td>
<td>60 lb. (27 kg)</td>
<td>Single: 16.25 x 12.38 x 27.88 in. (413 x 314 x 708 mm) Dual: 14 x 18 x 34.5 in. (356 x 457 x 876 mm)</td>
<td>44.8 lb. (20.3 kg) Dual: 77 lb. (34.9 kg)</td>
</tr>
</tbody>
</table>
Invision™ MPa Plus Systems

Invision™ MPa Plus Systems are a powerful combination of optimized weld programs for both steel and aluminum. These systems feature advanced technology designed to enhance productivity and efficiency.

**Auto-Line**: Invision 352 MPa Plus offers an auto-link for any input voltage setup (208–575 V, single- or three-phase) without the need for manual linking. The 450 MPa Plus model is designed for 230/460 V manual link or 575 V, three-phase only.

**Profile Pulse**: Invision™ MPa Plus systems provide a TIG appearance with MIG simplicity and productivity. The Profile Pulse frequency can be adjusted to increase or decrease the spacing between the ripple pattern, allowing for optimal weld shape and appearance.

**Synergic MIG**: Invision™ MPa Plus systems offer synergic pulsed MIG when using a 70 Series MPa Plus feeder. As wire speed increases or decreases, the pulse parameters automatically adjust to match the right amount of power needed, eliminating the need for additional adjustments.

**Built-in MIG and pulsed MIG programs**: Invision™ MPa Plus systems come with built-in MIG and pulsed MIG programs that automatically set the optimal parameters for a wide variety of wires, making setup and use easy.

**Recommended Accessories**:
- **70 Series MPa Plus Feeders**: These feeders are compatible with Invision™ MPa Plus systems and are designed for maximum performance.
- **XR-Plus™ Push-Pull Guns**: These guns are ideal for compatibility with Invision™ MPa Plus systems, providing precision and control.
- **70 Series Swingarc™ Control Box**: This control box enhances the functionality of Invision™ MPa Plus systems, providing greater flexibility and control.
- **Bernard® MIG Guns**: These high-quality guns are designed for durability and performance, compatible with Invision™ MPa Plus systems.
- **MIGRunner™ Cart**: This cart is designed for easy transport and storage of Invision™ MPa Plus systems and accessories.
- **Running Gear Cylinder Rack**: This rack is essential for storing and transporting Invision™ MPa Plus systems and accessories.
- **Industrial MIG 4/0 Kits**: These kits provide the necessary power for large-scale projects.
- **Extension Cables**: These cables are designed for extended reach and compatibility with Invision™ MPa Plus systems.

**Process Overview**:
- **MIG (GMAW)**: Flash-cored (FCAW) and Pulsed MIG (GMAW-P) are supported.
- **Air carbon arc gouging (CAC-A)**: This process is available with Invision™ MPa Plus systems.

**Accessories**:
- **70 Series MPa Plus Feeders**: These feeders are compatible with Invision™ MPa Plus systems and are designed for maximum performance.
- **XR-Plus™ Push-Pull Guns**: These guns enhance the functionality of Invision™ MPa Plus systems, providing precision and control.
- **70 Series Swingarc™ Control Box**: This control box is essential for enhanced performance and control.
- **Bernard® MIG Guns**: These high-quality guns are compatible with Invision™ MPa Plus systems, offering superior performance.
- **MIGRunner™ Cart**: This cart is designed for easy transport and storage of Invision™ MPa Plus systems and accessories.
- **Running Gear Cylinder Rack**: This rack is crucial for storing and transporting Invision™ MPa Plus systems and accessories.
- **Industrial MIG 4/0 Kits**: These kits are designed for large-scale projects and are compatible with Invision™ MPa Plus systems.
- **Extension Cables**: These cables are compatible with Invision™ MPa Plus systems, providing extended reach.

**Additional Packages**:
- **Recommended Aluminum Solution**:
  - **Dedicated XR Plus guns work with MPa Plus feeders**: These guns are designed for compatibility with Invision™ MPa Plus systems and are specifically optimized for aluminum welding.

**Specifications**:
- **Model**
- **Input Power**
- **Amps/Volt Ranges**
- **Rated Output**
- **Amps Input at Rated Load Output, 60 Hz**
- **KVA**
- **Max. Open-Circuit Voltage**
- **Dimensions**
- **Net Weight**

**Questions?** Hobart is here to help. Visit HobartBrothers.com or your local distributor to learn more.
Continuum™ Systems

Next generation of advanced industrial welding solutions improves productivity through weld quality, ease of use and system flexibility.

Power source design
Smart and powerful digital design has the fast response needed to deliver the most stable welding performance for better welding results.
Flexible to meet current and future needs with integrated expansion capabilities.
Welding Intelligence*: Increase productivity, improve quality and manage costs with Insight Core™ (standard) and Insight Centerpoint™ (optional) welding information management systems (see pages 68 and 69).

Feeder design
Tru-Feed™ technology provides precise feeding operation for stable arc performance.
- Low-inertia motor provides faster response for the best arc starts with the least amount of spatter.
- Balanced-pressure drive-roll design and tensioners feed wire in its truest and straightest form for consistent feedability, resulting in better welding performance.
User-friendly interface makes the system easy to set up and adjust with minimal training.

Wire feeding options
- Continuum Feeders* (see chart below)
- Continuum Swincarc™
- Continental® MIG Guns (pg 25–26)
- Bernard® MIG Guns (pg 25–26)
- Bernard® BTB Gun 400 A

More power — better reliability
Up to 26 percent more welding output (than competitive models) for demanding industrial applications.
- Allows for any input voltage hookup (230–575 V, three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Continuum Processes

<table>
<thead>
<tr>
<th>Best For</th>
<th>Standard Spray</th>
<th>High-Deposition MIG</th>
<th>Accu-Pulse</th>
<th>Versa-Pulse</th>
<th>Short Circuit</th>
<th>RMD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deposition</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>B</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Gap Filling</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>B</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>Low Heat Input</td>
<td>D</td>
<td>C</td>
<td>B</td>
<td>A</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>Out-of-Position Welds</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>B</td>
<td>C</td>
<td>B</td>
</tr>
<tr>
<td>Low Splatter</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Thick Metals</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>Thin Metals</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>Increased Travel Speed</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
</tbody>
</table>

*While idling.

Ratings A, B, C, and D are relative values. An “A” rating indicates a best fit between your performance needs and process.
A “blank” rating indicates that the process is not recommended for that application.

Accu-Pulse is the most popular process for majority of industrial welding applications.
Versa-Pulse is a fast, low-heat, low-spatter process designed for thin-material applications.
RMD is a low-heat, modified short-circuit process designed to fill gaps with thin-material applications.
High-deposition MIG provides increased deposition rates over standard spray on thicker materials.

Continuum™ Systems

See literature DC/36.0

More power — better reliability
Up to 26 percent more welding output (than competitive models) for demanding industrial applications.

- Allows for any input voltage hookup (230–575 V, three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Power Sources/Packages

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuum Feeder (951633) Single-wire model (951673) Dual-wire model</td>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>.035-.5/64 in. (0.9-2.0 mm)</td>
<td>60 lb. (27 kg)</td>
<td>H: 13.812 in. (351 mm)</td>
<td>Single: 43 lb. (19.5 kg)</td>
<td>Dual: 61.5 lb. (27.9 kg)</td>
</tr>
</tbody>
</table>
Auto-Continuum™ Systems

Next generation automation welding solution delivers advanced arc performance to improve throughput and weld quality.

More power — better reliability. Up to 26 percent more welding output (than competitive models) for demanding industrial applications.

Allows for any input voltage hookup (230–575 V, three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Improve work environment and reduce spatter. Versa-Pulse and Accu-Pulse processes reduce fume generation, and by precisely controlling the welding arc they also reduce spatter size and quantity. Fume generation can be reduced up to 50 percent over traditional CV MIG.

• **Versa-Pulse** is a fast, low-heat, low-spatter process for high-speed automation on thin materials and is great for gap filling.

• **Accu-Pulse** is better for out-of-position welds, provides higher deposition rates and is designed for thicker materials than Versa-Pulse.

Easy communication from robot to power source.

Designed for easy integration with fixed and flexible automation.

Fleet standardization. Auto-Continuum can be used for both automation and hand-held applications.

Welding Intelligence: Increase productivity, improve quality and manage costs.

• **Insight Core** (standard) is a simplified, internet-based welding information solution that reports cell productivity and weld parameter verification (see page 68).

• **Insight Centerpoint** (optional) is an advanced, real-time feedback solution to ensure consistent weld quality (see page 69).

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amps/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz, 3-Phase</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions (Includes Lift Eye)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Continuum 350</td>
<td>20–600 A 10–44 V</td>
<td>350 A at 31.5 VDC, 100% duty cycle</td>
<td>0–1* 0–1* 0–1* 0–1* 0–1* 0–1* 0.8* 13.8</td>
<td>72 VDC</td>
<td>H: 32 inches (813 mm)  W: 30 inches (762 mm)  L: 37 inches (940 mm)</td>
<td>490 lb. (223 kg)</td>
</tr>
<tr>
<td>Auto-Continuum 500</td>
<td>20–600 A 10–44 V</td>
<td>500 A at 39 VDC, 100% duty cycle</td>
<td>0–1* 0–1* 0–1* 0–1* 0–1* 0–1* 0.8* 17 *</td>
<td>72 VDC</td>
<td>H: 34 inches (864 mm)  W: 34 inches (864 mm)  L: 44 inches (1118 mm)</td>
<td>640 lb. (291 kg)</td>
</tr>
</tbody>
</table>

**Processes**

- Accu-Pulse® MIG (GMAW-P)
- Versa-Pulse™ RMD® MIG (GMAW)
- High-deposition MIG (GMAW)
- Flux-cored (FCAW)

**Most popular accessories**

- Insight Centerpoint™ Software (pg 69)
- Auto-Continuum Robotic MIG Kit 301455
  Consists of 25 ft. (7.6 m) motor control cable, 15 ft. (4.6 m) 90-degree motor control extension cable, 15 ft. (4.6 m) weld cable, flowmeter regulator, 30 ft. (9.1 m) gas hose, 16.4 ft. (5 m) Ethernet cable, 0.05/.045-inch V-groove drive roll kit with guides, 30 ft. (9.1 m) weld wire conduit assembly, and 10 ft. (3 m) conduit and clamps (for mounting motor control cable, weld cable and gas hose).
- Wire Drive Motor Mounting Brackets 301276 ABB® 1600
  301277 ABB® 2600
- 300483 FANUC® 100 and 120 IC
- 300013 FANUC®/KUKA®/Motoman®
- 300375 Motoman® EA1400
- 300376 Motoman® EA1900
- Motor Control Cables 263368025 25 ft. (7.6 m) 263368050 50 ft. (15 m) 263368080 80 ft. (24.4 m) 263368100 100 ft. (30.5 m)
- 90-degree Motor Control Extension Cables 281554015 15 ft. (4.6 m) 281554025 25 ft. (7.6 m)
- EtherNet/IP™ Communication Cables 300734 9.8 ft. (3 m) 300736 32.8 ft. (10 m) 300021 20 ft. (6.1 m)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

*While idling.
## Wire Feeders

Also see MIG, MIG Guns and Multiprocess sections for wire feeding options.

---

### Product Guide

<table>
<thead>
<tr>
<th>Product Key</th>
<th>Class: Light industrial</th>
<th>Industrial</th>
<th>Heavy industrial</th>
<th>Capability: Designed for this process</th>
<th>Capable of this process</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcReach® SuitCase® (8 and 12)</td>
<td>Light industrial</td>
<td></td>
<td></td>
<td>Designed for this process</td>
<td></td>
</tr>
<tr>
<td>ArcReach® Smart Feeder</td>
<td>Light industrial</td>
<td></td>
<td></td>
<td>Designed for this process</td>
<td></td>
</tr>
<tr>
<td>SuitCase® 12RC</td>
<td>Light industrial</td>
<td></td>
<td></td>
<td>Designed for this process</td>
<td></td>
</tr>
</tbody>
</table>

### Wire Types

- **Wire Diameter Capacity**
  - .023–5/64 in. (0.6–2.0 mm)
  - .035–.045 in. (0.9–1.1 mm)
  - .023–5/64 in. (0.6–2.0 mm)

### Special Features

- **8 in. (SuitCase 8) or 12 in. (SuitCase 12)**
  - Diameter spool capacity, remote voltage control without a control cord, powered by arc voltage
- **12 in. diameter spool capacity, remote voltage control without a control cord, requires an XMT® 350 FieldPro™ connected to three-phase power or an ArcReach-equipped engine drive**
- **12 in. diameter spool capacity, standard remote voltage control, powered by 14-pin control cord**
- **Four quick-change drive rolls, digital meters, remote voltage control, powered by 14-pin control cord**
- **XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires**
- **Control box, cables and wire drive motor assemblies for generic booms or fixed automation**

### Typical Applications

- Construction, site fabrication, field maintenance
- Process piping, refinery, petrochemical, power plants, HVAC, water pipe
- Field maintenance, site fabrication
- Manufacturing, fabrication
- Heavy and light manufacturing, fabrication
- Manufacturing requiring multiple wire types
- Heavy and light manufacturing, fabrication
- Heavy and light manufacturing, fabrication
- Heavy and light manufacturing, fabrication

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1. Smart feeder requires an XMT® 350 FieldPro™ connected to three-phase power or an ArcReach-equipped engine drive. All other feeders require an MPa inverter power source.
2. Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.
3. 74S and 74D models are capable of aluminum welding. 74 MPa Plus models are designed for aluminum welding.

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For more detailed information, visit MillerWelds.com/wirefeeders
SuitCase® Series Portable Feeders

Portable SuitCase feeders that set the standard for performance and provide extreme reliability to stand up to the demands of construction and fabrication.

SuitCase Series Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>ArcReach 8</th>
<th>ArcReach 12</th>
<th>ArcReach Smart</th>
<th>ArcReach 12RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available with Bernard gun: BTB Gun 300 A</td>
<td>●●●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-Gun</td>
<td>●●●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dura-Flux gun</td>
<td>●●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PipeWorx gun</td>
<td>●●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote voltage control</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote voltage control (without a cord)</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital meters</td>
<td>●</td>
<td>●</td>
<td>●●●●</td>
<td></td>
</tr>
<tr>
<td>Impact-resistant case</td>
<td>●●</td>
<td>●</td>
<td>●●●●</td>
<td></td>
</tr>
<tr>
<td>Gas purge</td>
<td>●</td>
<td>●</td>
<td>●●●●</td>
<td></td>
</tr>
<tr>
<td>Wire jog</td>
<td>●</td>
<td>●</td>
<td>●●●●</td>
<td></td>
</tr>
</tbody>
</table>

Note: ArcReach SuitCase feeders are compatible with standard power sources and engine-driven welders, but function as standard equipment without remote control capabilities. Full functionality of ArcReach is only available with ArcReach power sources.

Feeder include a male Tweco® connector installed on weld cable and are available with a Bernard® gun and drive rolls (see chart on page 19). BTB Gun 300 A and S-Gun™ come with reversible dual size (.045 and 1/16 in. V-knurled) drive rolls. Dura-Flux™ flux-cored gun comes with reversible dual size (.068/.072 and 5/64 in. V-knurled) drive rolls. PipeWorx 300-15 gun comes with reversible dual size (.035 V-grooved and .045 in. V-knurled) drive rolls.

Setting the standard for performance

Heavy-duty drive motor with tachometer control provides wire feed speed that is accurate and consistent from the start of the weld to the finish and from one weld to the next. Consistent wire feed speed is very important with large-diameter cored wire, because small changes in wire feed speed make large changes in deposition rates.

Wide voltage range for small and large wires with no contactor chatter or arc outages.

Ultra-low drag inlet guide pins make loading the wire easy and do not deform the wire on the way into the drive rolls, improving wire feeding performance.

Scaled wire pressure knob provides easy adjustment and consistent pressure on the drive rolls and wire.

Digital meters with SunVision™ technology can display voltage, wire feed speed, and also amperage if desired. Meters can be seen clearly even in direct sunlight.

Unique and durable case

Impact-resistant, flame-retardant case provides strength and durability, while protecting components and welding wire from moisture, dust and other contaminants.

Built-in slide rails allow you to drag the feeder into position for welding.

Innovative feeder door design allows you to change wire while feeder is standing upright or laying down.

ArcReach SuitCase models are available in two sizes. SuitCase 8 model is sized for an 8-inch spool of wire, can be carried to remote welding sites, and fits through a 14-inch manhole/manway. SuitCase 12 model is sized for an 8- or 12-inch spool of wire. 12-inch spools are the most common in structural steel and fabrication.

Extreme reliability

Potted-and-trayed main printed circuit board for the harshest environments adds exceptional reliability. Board has full-trigger isolation so a shorted gun trigger will not affect feeder operation.

Gun locking tab works with guns having corresponding locking grooves to prevent gun from being pulled out if the feeder is dragged by the gun.

Gas inlet recessed into back of case is protected from incidental contact by the weld cable, ensuring consistent and contaminant-free shielding gas delivery to the gun. Double-filtered gas valve helps keep dirt from clogging and affecting gas flow.
Remote control of the power source without a cord. With an ArcReach SuitCase feeder and ArcReach power source you can change output voltage at the feeder, and save a trip to the power supply. No extra control cord to purchase, maintain, string or unstring—saving time and money. See pages 41, 44–45 and 76–81 for ArcReach power sources and engine drives.

Easy process changeover. Simply connect the ArcReach feeder to your leads and you are ready to go. All controls automatically shift to the ArcReach feeder.

Voltage-sensing feeders designed to run off of arc voltage. The ArcReach SuitCase 8 and 12 operate on the arc voltage of almost any power source. The ArcReach Smart Feeder requires an XMT® 350 FieldPro™ (page 44) connected to three-phase power or an ArcReach-equipped engine drive (pages 76–81).

**Additional features of ArcReach Smart Feeder**

Delivers excellent synergic RMD® and pulsed MIG welding up to 200 feet away from the power source with no control cords—twice the distance previously possible. RMD and pulsed MIG welding permits procedures with one wire and one gas to eliminate process switch-over time. RMD and pulsed MIG processes also help reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

**SuitCase® 12RC** See literature M/6.5

Standard remote voltage control with a control cord. For applications where the feeder is within 100 feet of the power source and control cords are acceptable.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number*</th>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcReach SuitCase 8</td>
<td>(951726)</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>425 A at 60% duty cycle</td>
<td>50–700 ipm (1.3–17.8 m/min.)</td>
<td>Solid wire .035–.045 in. (0.9–1.1 mm)</td>
<td>12 lb. (5.5 kg)</td>
<td>15.5 in. (394 mm) H: 12.75 in. (324 mm) W: 11.25 in. (285 mm) D: 11.5 in. (292 mm)</td>
<td>26 lb. (11.8 kg)</td>
</tr>
<tr>
<td>ArcReach SuitCase 12</td>
<td>(951729)</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>425 A at 60% duty cycle</td>
<td>50–700 ipm (1.3–17.8 m/min.)</td>
<td>Solid wire .030–5/64 in. (0.8–2.0 mm)</td>
<td>12 lb. (5.5 kg)</td>
<td>15.5 in. (394 mm) H: 12.75 in. (324 mm) W: 11.25 in. (285 mm) D: 11.5 in. (292 mm)</td>
<td>31 lb. (14.1 kg)</td>
</tr>
<tr>
<td>ArcReach Smart Feeder</td>
<td>(951733)</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>425 A at 60% duty cycle</td>
<td>50–700 ipm (1.3–17.8 m/min.)</td>
<td>Solid wire .035–.052 in. (0.9–1.3 mm)</td>
<td>12 lb. (5.5 kg)</td>
<td>15.5 in. (394 mm) H: 12.75 in. (324 mm) W: 11.25 in. (285 mm) D: 11.5 in. (292 mm)</td>
<td>31 lb. (14.1 kg)</td>
</tr>
</tbody>
</table>

*Additional packages are available—visit MillerWelds.com or your distributor.
20 Series Industrial Bench Feeders

70 Series Heavy-Industrial Bench Feeders

Designed for manufacturing, our popular bench feeders are available in two series with multiple models to fit your needs.

20 and 70 Series Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>20 Series</th>
<th>70 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available w/Bernard gun:</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>BTB Gun 300 A</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>BTB Gun 400 A</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Trigger hold</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Digital meter(s)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Remote voltage control</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Adjustable run-in control</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Automatic run-in control</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Dual-wire models</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Rotatable drive assembly</td>
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<td>●</td>
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<tr>
<td>Accu-Mate™</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Preflow/postflow</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Spot control</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Dual schedule control</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Trigger program select</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Trigger dual schedule</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Sequence control</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Locks and limits</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Weld programs</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Trigger schedule select</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Push-pull capability</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Synergic pulsed MIG</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Profile Pulse™</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard</th>
<th>Field option</th>
</tr>
</thead>
</table>

20 Series (Basic and Digital) See literature M/11.0

Simple and cost-effective feeders for industrial manufacturing and fabricating.

Ideal for most high-duty-cycle applications requiring day-in/day-out trouble-free operation.

On-board burnback and motor ramp control for excellent starting and stopping performance.

Digital meter (standard on digital model, field option on basic model) ensures accuracy when presetting and reading actual voltage, amperage and wire feed speed.

Remote voltage control (standard on digital model, field option on basic model) at feeder for easier adjustments in the weld cell.

Adjustable run-in control (standard on digital model, field option on basic model) for better arc starting performance on a variety of wires.

Feeders include a 10 ft. interconnecting cord and are available with a Bernard® gun and drive rolls (see chart on page 21). Feeders with BTB Gun 300 A (20 Series) or BTB Gun 400 A (70 Series, two with dual-wire models) come with Centerfire™ contact tips and .035/.045 in. drive rolls.

Trigger hold allows the operator to make long welds without having to hold the trigger continuously. Reduces operator fatigue.

Miller® standard, quick-change drive rolls save time.

Quick-release drive-roll pressure arm allows drive roll change without losing spring preload setting.

Easy loading and threading of welding wire without having to release the drive roll pressure arm.

Four gear-driven drive rolls provide more consistent feeding on larger wire diameters.

Feeder additional features for 70 Series feeders

Available in dual-wire models which allow two different wire types to be available on one feeder, avoiding downtime from changing spools and drive rolls.

Toolless rotatable drive assembly allows operator to rotate the drive housing, allowing a straight path for wire flow.

Accu-Mate™ properly seats the MIG gun power pin for best feeding performance.

High-torque permanent-magnet motor, sealed ball bearing gear drive and solid-state speed and brake control are maintenance free for long life.

20 Series (Basic and Digital) See literature M/11.0

Simple and cost-effective feeders for industrial manufacturing and fabricating.

Ideal for most high-duty-cycle applications requiring day-in/day-out trouble-free operation.

On-board burnback and motor ramp control for excellent starting and stopping performance.

Digital meter (standard on digital model, field option on basic model) ensures accuracy when presetting and reading actual voltage, amperage and wire feed speed.

Remote voltage control (standard on digital model, field option on basic model) at feeder for easier adjustments in the weld cell.

Adjustable run-in control (standard on digital model, field option on basic model) for better arc starting performance on a variety of wires.
70 Series (74S and 74D) See literature M/3.0

Standard, simple feeders for most heavy-industrial applications, with the 74D providing increased accuracy and control of the most common weld parameters.

Digital meters (74D models only) ensure accuracy when presetting and reading actual voltage, amperage and wire feed speed.

Remote voltage control (standard on 74D, field option on 74S) allows you to set both voltage and wire feed speed at the feeder, saving time and increasing weld quality because optimal weld parameters are easy to set.

70 Series (74 MPa Plus) See literature M/3.0

Adds features for weld control and programs, plus push-pull aluminum capabilities. Optimized with Invision™ MPa or XMT® MPa power sources.

Adjustable run-in control for improved arc starts. Dual schedule control allows the operator to switch between two preconfigured welding parameters without readjusting the machine, saving time and enhancing quality.

Trigger schedule select saves time when switching between two weld settings by simply tapping gun trigger.

Trigger program select provides the ability to access any of the four active programs.

Sequence control gives the operator the ability to adjust all of the welding parameters: preflow, run-in, weld time, crater, burnback and postflow.

Locks and limits for restricting or limiting operator adjustments, such as voltage and wire feed speed parameters.

Four weld program memories allow operators to recall up to four previously used processes and their weld settings.

Push-pull capability provides consistent, versatile and dependable aluminum wire feeding over greater distances.

Recommended aluminum solution. Dedicated XR Plus guns (gooseneck and pistol grip) work with MPa Plus feeders to coordinate wire feed speed of the gun and the feeder. This provides optimized aluminum feeding and welding performance. See chart below for gun models and stock numbers.

Additional features when used with Invision MPa or XMT MPa power sources.

Synergic pulsed MIG. As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed, eliminating the need to make additional adjustments.

Profile Pulse™ provides TIG appearance with MIG simplicity and productivity. Achieve “stacked dimes” without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.

---

**See chart below for gun models and stock numbers.

*Additional packages are available — visit MillerWelds.com or your distributor. **Requires wire kit (230708) to run 1/16 in. (1.6 mm) wire.
70 Series Swingarc™ See literature M/13.11

Swingarc boom-mounted wire feeders bring an extra dimension of flexibility and efficiency to weld stations dealing with large weldments, or wherever operator mobility is required.

Single- and dual-wire models with 12- or 16-foot booms are sized to accommodate a variety of weld cell layouts (24- or 32-foot diameter work area).

Counterbalance design makes it easy to position boom and 360-degree rotation and 60-degree lift angle maximize work area.

In-boom cable routing organizes hoses and cables for a cleaner work environment.

MPa Plus Swimarc. Optimized for the Invision™ MPa and XMT™ MPa power sources and available in single- or dual-wire models in two boom lengths.

<table>
<thead>
<tr>
<th>Model</th>
<th>Single-Wire Model Stock Numbers</th>
<th>Dual-Wire Model Stock Numbers</th>
<th>Input Power</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Net Weight with Feeder</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 ft. (3.7 m) Boom</td>
<td>S5-74012 (951526) w/S-74D S5-74 MPa Plus-12 (951438) w/S-74 MPa Plus</td>
<td>D5-74012 (951535) w/D-74D D5-74 MPa Plus-12 (951441) w/D-74 MPa Plus</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>30-780 ipm (1.3-19.8 m/min.)</td>
<td>0.023-5/64 in. (0.6-2.0 mm)</td>
<td>60 lb. (27 kg) coil with optional wire reel assembly (100008)</td>
<td>Single-wire model: 160 lb. (73 kg) Dual-wire model: 207 lb. (94 kg)</td>
</tr>
<tr>
<td>16 ft. (4.9 m) Boom</td>
<td>S5-74016 (951527) w/S-74D S5-74 MPa Plus-16 (951439) w/S-74 MPa Plus</td>
<td>D5-74016 (951536) w/D-74D D5-74 MPa Plus-16 (951442) w/D-74 MPa Plus</td>
<td></td>
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</tr>
</tbody>
</table>

70 Series Remote Configurations See literature M/3.0

Remote wire feeder control box and wire drive assembly for non-Miller boom applications.

Note: MPa Plus wire drive motor assemblies and control cables are only for use with MPa Plus control boxes.

<table>
<thead>
<tr>
<th>Single-wire control box</th>
<th>Motor control cable</th>
<th>Wire drive motor assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>300881 S-74S 300882 S-74D 300738 S-74 MPa Plus</td>
<td>Standard: 11 conductor MPa Plus: 14 conductor</td>
<td>300904 Standard left-hand drive 300740 MPa Plus left-hand drive</td>
</tr>
</tbody>
</table>

MPa Plus drive can be used with push-only guns, OR XR-Aluma-Pro™ Plus and XR™-Pistol Plus push-pull guns.

<table>
<thead>
<tr>
<th>Push-only wire drive motor assembly</th>
<th>Dual-wire control box</th>
<th>Wire drive motor assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>300741001 Standard right-hand drive MPa Plus right-hand drive 300741</td>
<td>300886 D-74S 300887 D-74D 300739 D-74 MPa Plus</td>
<td>300904 Standard left-hand drive 300740 MPa Plus left-hand drive</td>
</tr>
</tbody>
</table>

MPa Plus drive can be used with push-only guns, OR XR-Aluma-Pro™ Plus and XR™-Pistol Plus push-pull guns.
**MIGmatic™ M-Series MIG Guns**  
*See literature AY/15.0*

An ideal match for Miller® all-in-one MIG machines or other Miller wire feeders.

**Three-piece nozzle construction** extends nozzle life by reducing wear and helps prevent rocking of the nozzle on the contact tip adapter.  
**Interchangeable contact tips and monocoil liners** help reduce parts inventory.  
**Brass contact tip adapter** helps prevent galling, sticking, and stripping of threads.  
**Steel spring strain relief** protects power cable from wear and helps prevent liner from kinking, allowing better wire feedability.

<table>
<thead>
<tr>
<th>Product Guide</th>
<th>Page</th>
<th>Class</th>
<th>MI G</th>
<th>Pullout MI G*</th>
<th>Flux-cored**</th>
<th>Wire Types</th>
<th>Wire Diameter Capacity</th>
<th>Available Cable Lengths</th>
<th>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIGmatic™ M-100 MIG Guns</td>
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<td><a href="#">Light industrial</a></td>
<td><a href="#">Industrial</a></td>
<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>MIGmatic™ M-150 MIG Guns</td>
<td>23</td>
<td><a href="#">Light industrial</a></td>
<td><a href="#">Industrial</a></td>
<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>MDX™-100 MIG Gun</td>
<td>24</td>
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<td><a href="#">Industrial</a></td>
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<tr>
<td>MDX™-250 MIG Guns</td>
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<td><a href="#">Industrial</a></td>
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<tr>
<td>MDX™-250 EZ-Select™ MIG Guns</td>
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<tr>
<td>Bernard® DTB MIG Guns</td>
<td>25</td>
<td><a href="#">Light industrial</a></td>
<td><a href="#">Industrial</a></td>
<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>Bernard® Clean Air™ Fume Extraction Guns with Straight Handle</td>
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<td><a href="#">Light industrial</a></td>
<td><a href="#">Industrial</a></td>
<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>Bernard® Clean Air™ Fume Extraction Guns with Curred Handle</td>
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<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>Bernard® Dura-Flux™ Guns with Replaceable Liner</td>
<td>26</td>
<td><a href="#">Light industrial</a></td>
<td><a href="#">Industrial</a></td>
<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>Bernard® Dura-Flux™ Guns with Fixed Liner</td>
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<td><a href="#">Heavy industrial</a></td>
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<tr>
<td>Spoolmate™ Spool Guns</td>
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<td><a href="#">Industrial</a></td>
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<tr>
<td>Spoolmate™ Spool Guns</td>
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<td><a href="#">Light industrial</a></td>
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<tr>
<td>XR-Aluma-Pro™ Lite Push-Pull Gun</td>
<td>29</td>
<td><a href="#">Light industrial</a></td>
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<tr>
<td>XR-Aluma-Pro™ Push-Pull Guns</td>
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<tr>
<td>XR™-Pistol Push-Pull Guns</td>
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</tbody>
</table>

**Processes**  
- **MIG (GMAW)**  
- **Flux-cored (FCAW)**

**Suggested power sources**  
- **Millermatic® 141/211** (M-100/M-150) (pg 7)  
- **Multimatic 200 (M-150)** (pg 37)  
- **Multimatic 215 (M-100/M-150)** (pg 37)

**Most popular accessories**  
- **MIGmatic M-Series Consumable Kits** (pg 117)  
  - 234607 .023 in. (0.6 mm)  
  - 234608 .030 in. (0.8 mm)  
  - 234609 .035 in. (0.9 mm)  
- **MIGmatic M-Series Guns AccuLock™ Conversion Kit 1880269**  
  - Allows M-100 and M-150 MIG guns to upgrade to AccuLock™ MDX™ nozzles and tips (see pg 24)  
  - Visit MillerWelds.com or your distributor for other Miller® options and accessories.

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Cable Length</th>
<th>Rated Output</th>
<th>Rated Duty Cycle</th>
<th>Wire Diameter Capacity</th>
<th>Gun Only Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-100</td>
<td>248282</td>
<td>10 ft. (3 m)</td>
<td>100 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>.023-.045 in. (0.6-1.2 mm)</td>
<td>3.2 lb. (1.5 kg)</td>
</tr>
<tr>
<td>M-150</td>
<td>249029</td>
<td>10 ft. (3 m)</td>
<td>150 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>.023-.045 in. (0.6-1.2 mm)</td>
<td>4.2 lb. (1.9 kg)</td>
</tr>
<tr>
<td></td>
<td>249040</td>
<td>12 ft. (3.7 m)</td>
<td></td>
<td></td>
<td></td>
<td>4.7 lb. (2.1 kg)</td>
</tr>
<tr>
<td></td>
<td>249041</td>
<td>15 ft. (4.6 m)</td>
<td></td>
<td></td>
<td></td>
<td>6.0 lb. (2.7 kg)</td>
</tr>
</tbody>
</table>
MDX™ Series MIG Guns

An ideal match for Miller® all-in-one MIG machines or other Miller wire feeders.

Durable, ergonomic handle features rubber overmolding for improved grip and rear swivel to reduce welder fatigue.

AccuLock™ consumables provide long life and superior wire feeding. See below for more information.

Pulse welding capable due to increased copper in the gun cable which ensures reliable performance with CV and pulse waveforms (MDX-250/MDX-250 EZ-Select only).

EZ-Select™ function allows you to conveniently select from up to four weld programs by tapping the MIG gun trigger rather than walking back to the machine. Lights on handle indicate weld program selected (MDX-250 EZ-Select only).

### AccuLock™ MDX™ Consumables

See literature AY/15.5

**Flawless wire feeding path.** Front-loading liner is locked (without set screws) and concentrically aligned with both the contact tip and power pin.

**Error-proof liner trimming** ensures accurate replacement every time — no measuring required!

**Maximize electrical conductivity and tip life.** Tapered mating surface between the contact tip and power pin.

**Upgrade to Bernard® AccuLock S consumables** for increased durability and longer life when guns are used in pulsed welding or more industrial applications. See page 25 for more information.

---

**Processes**

- MIG (GMAW) • Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MDX-250/250 EZ-Select

**Suggested power sources**

For MDX-100

- Millermatic® 141/211 (pg 7)
- Multimatic® 215 (pg 37)
- Multimatic® 220 AC/DC (pg 38)

For MDX-250

- Millermatic® 212 Auto-Set™ (pg 8)
- Millermatic® 252 (pg 8)
- Millermatic® 255 (pg 9)
- Multimatic® 200 (pg 37)
- Multimatic® 255 (pg 39)

For MDX-250 EZ-Select

- Millermatic® 255 (pg 9)
- Multimatic® 255 (pg 39)

### Most popular consumables

#### AccuLock Consumables

**Liners (inches)**

- LM1A-10 .023–.025, 10 ft. length
- LM2A-10 .030–.035, 10 ft. length
- LM3A-10 .035–.045, 10 ft. length
- LM1A-12 .023–.025, 12 ft. length
- LM2A-12 .030–.035, 12 ft. length
- LM3A-12 .035–.045, 12 ft. length
- LM1A-15 .023–.025, 15 ft. length
- LM2A-15 .030–.035, 15 ft. length
- LM3A-15 .035–.045, 15 ft. length

**Diffusers**

- D-M100 MDX-100
- D-M250 MDX-250
- D-MA250M MDX-250 AccuLock S conversion

**MDX-100 Nozzles (inches)**

- NS-M1200B 1/2 ID, flush, brass
- NS-M1200C 1/2 ID, flush, copper
- NS-MFLX Gasless nozzle

**MDX-250 Nozzles (inches)**

- AccuLock MDX
- N-M1200C 1/2 ID, flush, copper
- N-M1218C 1/2 ID, 1/8 rec., copper
- N-MS800C 5/8 ID, flush, copper
- N-MS818C 5/8 ID, 1/8 rec., copper
- N-MS8XTC 5/8 ID, 1/8 ext., copper
- AccuLock S
- N-AS800CM 5/8 ID, flush, copper
- N-AS818CM 5/8 ID, 1/8 rec., copper
- N-AS814CM 5/8 ID, 1/4 rec., copper

**Contact Tips (inches)**

- AccuLock MDX
- T-M023 .023
- T-M030 .030
- T-M035 .035
- T-M045 .045
- T-M047 3/64
- AccuLock S
- T-A023CHM .023
- T-A030CHM .030
- T-A035CHM .035
- T-A039CHM .039
- T-A045CHM .045

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Bernard® Semi-Automatic Guns

Miller offers rugged and reliable Bernard welding guns that have been customized to match the performance of many of its industrial wire feeders and power sources.

BTB Air-Cooled MIG Guns

Our rugged Bernard BTB MIG guns bring together all the best features and options from our former Q-Gun®, S-Gun® and T-Gun® MIG guns into a single, flexible gun series.

Fully configurable BTB MIG guns help keep your skilled welders comfortable while also increasing their productivity. Choose from a variety of necks, handles and trigger styles to optimize weld ergonomics and work access, then standardize with a single line of consumables to simplify maintenance and contain costs. See chart below for a pre-configured BTB MIG gun or visit MillerWelds.com to view a complete list. Configure your BTB MIG gun by visiting BernardWelds.com/ConfigureMyGun

All guns in chart come with a Miller® power pin and a Universal Conventional liner except: Bernard former Q-Gun®, Bernard

Bernard® AccuLock® S Consumables

See Bernard literature SP-ALS

Load and lock for flawless wire feeding
- Shorten your troubleshooting list by reducing liner misalignment and gaps
- Error-proof your liner installation — no measuring required!

Reduce parts, increase accuracy
- Use AccuLock S consumables on both your Bernard BTB and Miller® MDX-250 MIG guns (see page 24) to simplify inventory and reduce replacement errors

Heavy industrial

Processes
- MIG (GMAW) • Flux-cored (FCAW)
- Pulsed MIG (GMAW-P)

Duty cycle ratings
- 100% with CO₂
- 60% with mixed gases

Suggested feeders
- Intellx™ Feeders (pg 13)
- Continuum™ Feeder (pg 15)
- SuitCase® Series (pg 18)
- 20 and 70 Series Feeders (pg 20–22)

Suggested power source
- Millermatic® 350P (pg 10)

Most popular consumables

Centerfire Consumables

Diffusers (amps)
- DS-1 200, 300, small
- D-1 400, 500, 600, large

Brass Nozzles (inches)
- NS-1211B 1/2 ID, 1/8 rec., small

Copper Nozzles (inches)
- NS-5818C 5/8 ID, 1/4 rec., small
- N-5818C 5/8 ID, 1/8 rec., large

Contact Tips (inches)
- T-035 .035
- T-035 .045
- T-052 .052
- T-062 .1/16

Quick Tip Consumables

Diffusers (amps)
- D118Q 200, 300, 400
- D114Q 500, 600

Plated Copper Nozzles (inches)
- N1C85Q 5/8 ID
- N1C34HQ 3/4 ID, HD

Contact Tips (inches)
- T1050 .035
- T1045 .045

TOUGH LOCK Consumables

Diffusers (amps)
- 404-18-25 200, 300, 400 SD
- 404-26-25 300, 400, 500, 600 HD

Copper Nozzles (inches)
- 401-4-62 5/8 ID, 1/8 rec., SD
- 401-6-62 5/8 ID, 1/4 rec., HD
- 401-5-75 5/8 ID, 1/4 rec., HD

Contact Tips (inches)
- 403-14-35-25 .035 SD
- 403-20-35-25 .035 HD
- 403-14-45-25 .045 SD
- 403-20-45-25 .045 HD
- 403-20-52-25 .052 HD
- 403-20-116-25 1/16 HD

Visit BernardWelds.com or your distributor for additional Bernard consumable options.
**Bernard® Semi-Automatic Guns**

Industrial-duty fume extraction and flux-cored welding solutions built for the way you weld.

**Clean Air™ Fume Extraction MIG Guns**

See Bernard literature SP-CLA

Maintaining a clean working environment is important and Bernard understands the need for a reliable fume extraction solution. Extract fumes at the weld bead using either of our two models and a FILTAIR™ fume extractor.

**Clean Air straight handle gun**
- Available in 300-, 400-, 500- and 600-amp models
- Compatible with Centerfire, Quik Tip and TOUGH LOCK consumables
- Ergonomic, lightweight handle with rear swivel improves operator comfort

**Clean Air curved handle gun**
- Available in 300- and 400-amp models
- Compatible with Centerfire, Quik Tip and TOUGH LOCK consumables
- Small lightweight handle maximizes maneuverability and comfort

**Dura-Flux™ Self-Shielded Flux-Cored Guns**

See Bernard literature SP-DF

For structural steel applications, bridge construction and heavy equipment repair, Bernard offers two types of 350-amp self-shielded flux-cored guns.

**Dura-Flux gun with replaceable power cable liner**
- Replaceable power cable liner allows quick and easy power cable maintenance
- Quik Tip consumables provide excellent heat transfer and electrical conductivity

**Dura-Flux gun with fixed power cable liner**
- Ultra-heavy-duty steel monocoil power cable is highly resistant to kinking
- Centerfire consumables are easy to use and high performing, providing better arc starts, less spatter and more consistent welds

**Bernard® Welding Consumables** (cutaways shown)

**Centerfire™ consumables**
See Bernard literature SP-CFC
- Drop-in contact tip (no tools required to replace tip or nozzle) means quick changeover and reduced downtime
- Spatter shield within nozzle holds tip in place, protects diffuser and directs gas evenly with reduced turbulence
- Diffuser mates securely with contact tip for better conductivity

**Quik Tip™ consumables**
See Bernard literature SP-QTC
- A quick twist is all it takes to install contact tips
- Threaded taper lock increases tip life and allows excellent heat transfer and electrical conductivity
- Fixed contact tip position for repeatability and consistent quality welds

**TOUGH LOCK® consumables**
See Bernard literature SP-TLC
- Dual taper technology keeps consumables locked from tip to neck for improved weld consistency, positive electrical conductivity and maximized heat dissipation
- Consumables run cooler, improving performance and extending life

**Heavy industrial**

- **Processes**
  - MIG (GMAW) • Flux-cored (FCAW)
  - Pulsed MIG (GMAW-P)
- **Duty cycle ratings**
  - 100% with CO2
  - 60% with mixed gases
- **Suggested feeders**
  - Intellx™ Feeders (pg 13)
  - Continuum™ Feeder (pg 15)
  - SuitCase® Series (pg 18)
  - 20 and 70 Series Feeders (pg 20–22)
- **Suggested power source**
  - Millermatic® 350P (pg 10)
- **Suggested fume extractor**
  - FILTAIR® 130 (pg 99)

**Most popular consumables**

**Centerfire Consumables**

**Diffusers (amps)**
- **DS-1** 300, small
- **D-1** 400, 500, 600, large

**Copper Nozzles (inches)**
- **NS-5818C** 5/8 ID, 1/8 rec., small
- **N-5818C** 5/8 ID, 1/8 rec., large
- **N-5814C** 5/8 ID, 1/4 rec., large
- **N-3414C** 3/4 ID, 1/4 rec., large

**Contact Tips (inches)**
- T-035 .035
- T-045 .045
- T-052 .052
- T-062 1/16

**Contact Tip Insulator (Dura-Flux only)**
- 7010024

**Quik Tip Consumables**

**Diffusers (amps)**
- **D118Q** 300, 400
- **D114Q** 500, 600

**Plated Copper Nozzles (inches)**
- **N1C58Q** 5/8 ID
- **N1C34Q** 3/4 ID

**Contact Tips (inches)**
- **403-20-35-25** .035 HD
- **403-20-45-25** .045 HD
- **403-20-52-25** .052 HD
- **403-20-116-25** 1/16 HD

**TOUGH LOCK Consumables**

**Diffusers (amps)**
- **404-44-25** 300, 400, 500, 600 HD

**Copper Nozzles (inches)**
- **401-6-62** 5/8 ID, 1/8 rec., HD
- **401-5-75** 3/4 ID, 1/4 rec., HD

**Contact Tips (inches)**
- **403-20-35-25** .035 HD
- **403-20-45-25** .045 HD
- **403-20-52-25** .052 HD
- **403-20-116-25** 1/16 HD

Visit BernardWelds.com or your distributor for additional Bernard consumable options.
Spoolmate™ Spool Guns

Reliable and economical spool guns designed for home hobbyists and light fabricators.

**Spoolmate 100**  
See literature M/1.45  
Light industrial gun for 4043 series aluminum wire rated at 135 amps at 30 percent duty cycle.  
12-foot direct-connect cable with heavy-duty strain relief provides extended reach and accessibility to your work.  
Dual V-knurled drive rolls with adjustable tension control for consistent feeding of different types of wire.  
Clear spool canister protects the wire and allows easy view of spool. Includes carrying case, extra contact tips and nozzle.

**Spoolmate 150**  
See literature M/1.46  
Light industrial gun for 4000 or 5000 series aluminum wire rated at 150 amps at 60 percent duty cycle.  
20-foot direct-connect cable with heavy-duty strain relief provides extended reach and accessibility to your work.  
Heavy-duty head tube.  
Dual V-knurled drive rolls with adjustable tension control for consistent feeding of different types of wire.  
Clear spool canister protects the wire and allows easy view of spool.

**Spoolmate 200**  
See literature M/1.47  
Light industrial gun for 4000 or 5000 series aluminum wire rated at 160 amps at 60 percent duty cycle.  
20-foot weld/control cables with strain relief and sheath provide extended reach and accessibility to your work.  
Wire feed speed adjustment on the gun — not machine — for easy setup.  
Easy access to drive assembly and drive rolls.  
Two-stage trigger with built-in gas valve allows for gas preflow/postflow.  
Toolless head tube removal allows easy replacement. Comes standard with heavy-duty head tube. Three optional head tubes available.

**Spoolmate 3035**  
See literature M/1.5  
Light industrial gun for 4000 or 5000 series aluminum wire rated at 150 amps at 60 percent duty cycle.  
20-foot weld/control cables with strain relief and sheath provide extended reach and accessibility to your work.  
Light weight and well balanced for operator comfort.  
Clear spool canister protects the wire and allows easy view of spool. Easy-to-remove head tube assembly.

---

### Model/Stock Number | Welding Current Rating | Wire Feed Speed | Wire Type and Diameter Capacity | Maximum Spool Size Capacity | Dimensions | Net Weight with Cable Assembly
--- | --- | --- | --- | --- | --- | ---
**Spoolmate 100** (300371) | 135 A at 30% duty cycle | 5–625 ipm (2.7–15.9 m/min.) Wire speed dependent on power source used | Aluminum: .030–.035 in. (0.8–0.9 mm)  
Solid steel: .023–.035 in. (0.6–0.9 mm)  
Stainless: .023–.035 in. (0.6–0.9 mm) | 4 in. (102 mm) | H: 11.5 in. (291 mm)  
W: 3 in. (76 mm)  
L: 13 in. (330 mm) | 6 lb. (2.7 kg)  
9 lb. (4.1 kg) with case
**Spoolmate 150** (301272) | 150 A at 60% duty cycle | 115–715 ipm (2.9–18.1 m/min.) Wire speed dependent on power source used | Aluminum: .030–.035 in. (0.8–0.9 mm)  
Solid steel: .030–.035 in. (0.8–0.9 mm)  
Stainless: .030–.035 in. (0.8–0.9 mm) | 4 in. (102 mm) | H: 11.5 in. (291 mm)  
W: 3 in. (76 mm)  
L: 12.5 in. (318 mm) | 7.3 lb. (3.2 kg)
**Spoolmate 200** (300457) | 160 A at 60% duty cycle, 70–875 ipm (1.8–22.2 m/min.) | Aluminum: .030–.035 in. (0.8–0.9 mm)  
Solid steel: .030–.035 in. (0.8–0.9 mm)  
Stainless: .023–.035 in. (0.6–0.9 mm) | 4 in. (102 mm) | H: 9 in. (229 mm)  
W: 2.5 in. (64 mm)  
L: 14.5 in. (368 mm) | 11 lb. (5 kg)
**Spoolmate 3035** (195016) | 150 A at 60% duty cycle, 200 A at 60% duty cycle with optional heavy-duty head tube | 115–715 ipm (2.9–18.1 m/min.) | Aluminum: .030–.035 in. (0.8–0.9 mm)  
Solid steel: .023–.035 in. (0.6–0.9 mm)  
Stainless: .023–.035 in. (0.6–0.9 mm) | 4 in. (102 mm) | H: 11.5 in. (291 mm)  
W: 2.25 in. (57 mm)  
L: 8 in. (203 mm) | 9.1 lb. (4.1 kg)
Spoolmatic® Spool Guns

Portable, aluminum wire feeder for industrial applications.

**Spoolmatic**

See literature M/1.73

Integrated spool canister rotates 180 degrees for operator flexibility and comfort.

*Available in 15- or 30-foot cable lengths,* providing flexibility to be used in the shop and in the field.

Two-stage trigger with built-in gas valve allows for gas preflow and eliminates the need to purge long gas lines.

Wire feed speed adjustment on the gun handle and reversible drive rolls save time and money.

Quick-change, single-turn contact tip provides excellent performance and is easy to replace.

**Spoolmatic Pro** *(additional features)*

See literature M/1.76

Wire tension settings. 4000- or 5000-specific tension settings ensure the very best wire feeding performance and arc consistency.

More durable motor and drive design improves feedability and arc consistency while helping reduce downtime and maintenance costs.

Easy access to drive assembly and removable toolless head tube reduce service time by allowing a means of changing drive rolls and head tube, or performing routine maintenance, without disassembly of gun.

Easy-to-retrieve, self-seating head tube allows for better access into tight spots, preventing leaks and providing excellent current transfer.

Head tube options in several different lengths and bend configurations are available for when a standard head tube doesn’t fit the application.

*Spoolmatic Pro requires wire kit (230708) to run 1/16 in. (1.6 mm) wire.*

---

**Welding Current Rating**

- **200 A at 100% duty cycle**

**Wire Feed Speed**

- 70–875 ipm (1.8–22.2 m/min.)
- Wire speed dependent on control or Millermatic used

**Wire Type and Diameter Capacity**

- Aluminum* .030–1/16 in. (0.8–1.6 mm)
  - Hard wire .030–.045 in. (0.8–1.1 mm)

**Maximum Spool Size Capacity**

- 4 in. (102 mm)

**Dimensions**

- H: 10.25 in. (260 mm)
- W: 2.5 in. (64 mm)
- L: 15.125 in. (384 mm)

**Gun Only Net Weight**

- 2.9 lb. (1.3 kg)

**Model/Stock Number**

- Spoolmatic (195156) 15 ft. (4.5 m) cable
- (130831) 30 ft. (9 m) cable

- Spoolmatic Pro (301147) 15 ft. (4.5 m) cable
- (301148) 30 ft. (9 m) cable

---

**Miller recommends**

Filler metals are a critical component in any weld project. They become part of your end product and choosing the right filler metal can affect the look and quality of your weld.

To make your filler metal choice easier, **Hobart offers a FREE app for download** on both Android™ and Apple® devices. Features of the app include:

- Recommendations for aluminum, carbon steel and stainless steel welding
- Calculates the amount of filler metal needed for your job
- Heat input calculator
- Hardfacing cross-reference function

**Download the Filler Metal Selector and Calculator app today.**
**XR™ Push-Pull Guns**

XR-Aluma-Pro and XR-Pistol guns work in conjunction with an XR-AlumaFeed or select Millermatic machines to provide the best solution for push-pull applications.

Threaded quick-change 360-degree rotatable head tubes are available in different bends and lengths for even those hard-to-reach welds. Over 30 different styles to fit your application and welder’s preference.

**Wire tension settings (except XR-Pistol).** 4000- or 5000-specific tension settings ensure the very best wire feeding performance and arc consistency.

Heavy-duty construction. All internal components are designed to provide long lasting performance and feeding precision.

---

**XR-Aluma-Pro™ Lite** See literature M/1.75

Lightest weight gooseneck-style gun features rear trigger that allows access to hard-to-reach welds.

**XR-Aluma-Pro™** See literature M/1.71

Robust professional-grade gun has the highest duty cycle rating in its class.

Easy access to drive assembly and removable toolless head tube reduce service time by allowing a means of changing drive rolls and head tube, or performing routine maintenance, without disassembly of gun.

---

**XR™-Pistol** See literature M/1.73

Reliable, cost-effective gun for light- to medium-industrial applications.

**XR™-Pistol-Pro** See literature M/1.74

Exceptional aluminum welding results for heavy-industrial applications.

Most durable motor and drive design improves feedability and arc consistency while helping reduce downtime and maintenance costs.

Easy access to drive assembly and removable toolless head tube reduce service time by allowing a means of changing drive rolls and head tube, or performing routine maintenance, without disassembly of gun.

---

*Dependent on control box or Millermatic used.  **Requires wire kit (230708) to run 1/16 in. (1.6 mm) wire.
A family of pre-engineered automation cells to increase productivity and improve weld quality.

**Fast installation.** Pre-wired and pre-assembled make setup fast and easy. Most systems are up and running in under two hours from delivery (connect power/wire/gas and mounting tooling).

**Integrated controls.** Control station and full-color teach pendant keep the operator informed, maximizing production uptime.

**Flexibility.** Fully welded frame allows easy relocation and reconnection as production plans or layouts change.

**Increased productivity.** Operator can load and inspect parts while robot is welding.

---

**A/B 180° Indexing Table**
Single-station load/unload system

- PA250M 250 lb./side, 60 in. manually indexed table
- PA350S 350 lb./side, 66 in. servo indexing table
- PA750S/PA750SW 750 lb./side, 92 or 108 in. servo indexing table

**A/B 180° Indexing H-Frame**
Single-station load/unload system

- PA550H 550 lb./side, 48 in. long x 34 in. turning diameter on 92 in. servo indexer
- PA550HW 550 lb./side, 60 in. long x 40 in. turning diameter on 108 in. servo indexer
- PA1100HW 1,100 lb./side, 60 in. long x 40 in. turning diameter on 108 in. servo indexer

**A/B 180° Indexing Ferris Wheel**
Single-station load/unload system

- PA1100FW 1,100 lb./side, 118 in. long x 43 in. turning diameter

**Side-by-Side**
Two-station load/unload system

- PA1100SS 1,100 lb./side, 120 in. long x 44 in. turning diameter
- PA2200SS 2,200 lb./side, 120 in. long x 66 in. turning diameter

---

**Laser Welding/Cladding System**

- PL1100HW 1,100 lb./side, 60 in. long x 34 in. turning diameter on 108 in. servo indexer

**Integrated laser solution with fiber cable management.**
- Autogenous, hotwire, coldwire or hybrid processes
- Class 1 laser-safe enclosure
- Available with fiber or diode laser configurations
Active Wire Process (AWP)

Active wire is an advanced short arc welding process combining the robot motion path, welder waveform and servo wire feed control simultaneously reversing the wire at the short circuit to control the weld deposition precisely.

**Spatter control.** Spatter is virtually eliminated in all phases of the weld using mixed argon 90/10 or 100 percent CO₂ gas.

**Fast and clean arc striking.** At the moment the wire touches the base the wire is reversed, reducing arc strike spatter by up to 90 percent.

**Flexibility.** Large variations in torch angle are possible, allowing push-pull in and out of corners without increasing spatter.

**Appearance.** The precise nature of the process allows many customers an alternative to TIG welding.

**Wide range of materials.** Mild steels, stainless steels and aluminum from thin to medium gauge benefit from AWP.

Thick Plate Welding

Fast and easy programming even on the most complex multi-pass weldments. All required commands and sensor setup in a single menu screen. Welding procedures can be developed quickly and transported easily from part to part.

**Graphical, menu-driven interface.** Pop-up graphical windows allow for fast programming of any welding joint in a single location.

**Multi-layer path control.** Easy-to-use interface to sequence the location of starts/stops and create multi-layer weld paths with appropriate offsets.

**Advanced sensors.** High-voltage touch sensing with menu-driven touch macros, a specialized high-amperage arc sensor system, and adaptive fill capability allow the weld process to adapt to incoming/varying production parts.

DeskTop Programming and Simulation (DTPS)

Software allows the development of programs offline, minimizing robot downtime and maximizing throughput and productivity.

**Specialized software** generates programs and simulates the actual taught paths from your desktop.

**Native language programming.** Same language and functions that the technician will see on the teaching pendant, making program generation off-line easier than competitive code-based systems.

**Simplified file transfer.** Transfer robot programs between robot types, sizes and controller generations.

Automation Components

To order automation solutions: Contact local Miller district manager or email MWASales@MillerWelds.com

For automation service/parts: Call 1-630-653-6819 or email MWAService@MillerWelds.com
Jetline Fixed Automation

Jetline offers a partnership to ensure you find the right solution to improve your weld quality and productivity — from design to installation, our engineers will help you get the results you need to stay competitive. Learn more at MillerWelds.com/jetline

Longitudinal Seam Welding Systems

Jetline longitudinal seam welders deliver speed and precision. Features include linear welding, high-volume cylinder production, joining thin-gauge or coiled sheets and more.

- High-precision travel and positioning result in weld accuracy
- Complete solution, single source
- Bolt-on control modules provide adaptability
- Aluminum hold-down fingers with copper tips absorb and dissipate heat
- Toe-touch tapeswitch control activates finger clamping
- Range includes:
  - External: flat sheets, cylinders and more
  - Internal: flat sheets and internal welds on cylinders
  - Combination: internal and external welds
  - Elevating: seam welder raises and lowers to accommodate diameters up to 96-inch OD
  - Bench: small seam welder for welding shorter, smaller parts

Circumferential Welding Systems

Jetline precision lathes and light-, medium- and heavy-duty circumferential welders handle a wide variety of part sizes and dimensions — from less than one pound up to 10,000 pounds, and from one inch up to 60 inches in diameter. Whatever the challenge, Jetline can work with you to find the perfect solution.

- Powered variable speed headstock
- Adjustable tailstock can be moved along the bed to accommodate differing part lengths
- Air-operated tailstocks apply a constant clamping pressure to the part throughout the welding cycle
- Range includes:
  - Precision: 500-pound maximum part
  - Light duty: 500-pound maximum part
  - Medium duty: 2,000-pound maximum part
  - Heavy duty: 10,000-pound maximum part

Weld Head Locators

Jetline precision weld head locators provide a universal solution to position weld heads for circumferential and linear welding applications. With a variety of control systems, bolt-on accessories and base options, we can design the solution to meet your GTAW, GMAW and PAW needs.

- Jetline manipulators allow for simplified torch positioning
- Linear rails provide high-precision movement of the boom for linear welding
- 360 degrees of column rotation allows the weld head to be positioned over multiple fixtures
- Remote pushbutton pendant for weld head locator operation
- Range includes:
  - 6 x 6 foot
  - 9 x 9 foot
  - 12 x 12 foot
Jetline arc length control maintains a constant arc length by controlling arc voltage in gas tungsten arc welding (GTAW) or plasma arc welding (PAW) applications.

- Regulation of welding voltage for precise, repeatable welds
- Provides consistent performance and results
- Touch retract allows starting gap to be automatically preset in TIG (GTAW) applications
- Simplified setup and operation requires minimal operator intervention
- Standard package includes 9790 arc length control and 6-inch arc length control actuator

Jetline cold wire feeder is used for automated gas tungsten arc welding (GTAW) or plasma arc welding (PAW) applications to add “fill” to a weld joint.

- Cold wire feeder system includes 9700W microprocessor control, four-roll feed assembly and wire guide positioner
- 9700W microprocessor controller offers a simple menu for setup and operation
- Four-roll feed assembly optimizes feeding of both hard and soft wires
- Wire guide positioner provides fine adjustment to position where the wire enters the weld puddle
- Optional clear spool cover protects the wire from the dust and dirt from the manufacturing environment
Tregaskiss® Robotic Guns

Available with all PerformArc® robotic welding systems, fully configurable Tregaskiss TOUGH GUN® TA3 and CA3 robotic MIG guns are engineered for accurate, reliable and repeatable performance that maximizes production uptime and throughput. Parts can be replaced with minimal downtime and little to no impact on Tool Center Point (TCP).

Air-Cooled MIG Guns

See Tregaskiss literature SP-TA3 and SP-CA3

TA3 robotic MIG gun
- Runs internal to the robot arm
- Available in 350-amp models at 100 percent duty cycle with mixed gases
- Available as a complete package from the power pin to the contact tip
- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy

CA3 robotic MIG gun
- Runs external to the robot arm
- Available in 385-amp models at 100 percent duty cycle with mixed gases
- Replaceable unicable reduces downtime through faster repair and extended service life
- Cable guide minimizes stress on cable connection as the robot articulates
- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy

Tregaskiss® Fixed Automatic Guns

Tregaskiss fixed automatic MIG guns are engineered for hard tooling automation applications requiring a simple, durable and repeatable MIG gun. These automatic torches can be configured with the same consumables as your Bernard® semi-automatic or Tregaskiss robotic MIG guns to simplify your inventory.

Air-Cooled MIG Guns

See Tregaskiss literature M033

MA1 automatic MIG gun
- Available in 500- and 600-amp models
- Spring-guard strain relief prevents kinking and abrasion
- Air-cooled neck is made from aircraft-grade aluminum

Water-Cooled MIG Guns

See Tregaskiss literature M033 and SP-WCA

MW1 automatic MIG gun
- Available in 450- and 600-amp models
- Spring-guard strain relief prevents kinking and abrasion
- Water-cooled neck is made from stainless steel and is silver brazed and leak tested
- 600-amp water-cooled model has a thread-on heavy-duty nozzle

AW2 automatic MIG gun
- Available in both cable and cableless 600-amp models
- Power cable equipped guns are available in lengths of 3–25 feet in 1/2-foot increments
- Internal threaded connections stay tight inside the anti-vibration compression fit body for good electrical connectivity and longer life

For more information or to configure your Tregaskiss robotic gun online, visit Tregaskiss.com/ConfigureMyGun
Tough on spatter and designed to operate reliably in even the harshest welding environments.

Two models available. TT3A and TT3E (Ethernet model) enhanced with digital Ethernet communication for better integration.

TT3E Ethernet model is designed for durability, serviceability and repeatability. Provides greater control optimization, remote monitoring capability and faster troubleshooting to facilitate increased productivity.

One-year warranty on both TOUGH GUN TT3 reamer models. Extend your warranty from one year to two years with the addition of a factory-installed Lubricator, OR from one year to three years with the addition of a factory-installed Lubricator, plus exclusive use of Tregaskiss TOUGH GARD anti-spatter liquid.

For more information or to configure your TOUGH GUN reamer online, visit Tregaskiss.com/ConfigureMyGun

TOUGH GARD™ Anti-Spatter Liquid

TOUGH GARD Multi-Feed System

Visit Tregaskiss.com or your distributor for other Tregaskiss options and accessories.

Industrial

Most popular accessories
- Reamer Lubricator
- Nozzle Detect
- TOUGH GUN Reamer Stand — custom height, quick installation, easy on the budget

TOUGH GARD® Anti-Spatter Liquid

TOUGH GARD Multi-Feed System

Visit Tregaskiss.com or your distributor for other Tregaskiss options and accessories.

Most popular consumables

AccuLock Consumables
- AccuLock R Diffusers
  - D-ATSH HD for slip-on nozzles
  - D-ATH HD for thread-on nozzles
- Tregaskiss Nozzles
  - Slip-on
    - 401-6-62 5/8 ID, 1/8 recessed
    - 401-87-62 5/8 ID, 1/8 stickout
  - Thread-on
    - 401-14-62 5/8 ID, 1/8 recessed
    - 401-20-62 5/8 ID, 1/8 stickout
- AccuLock Contact Tips
  - T-A039CH .039 copper
  - T-A045CH .045 copper
  - T-A039WH .039 HDP
  - T-A045WH .045 HDP

QUICK LOAD® Liners
- Requires less than half the time and effort to replace compared to conventional liners
- Two-piece system with retainer installed inside the power pin on first use
- No need to cut and waste wire!
- Avoid climbing over robotic tooling or transfer systems to remove the torch from the wire feeder
- Change the liner from a safe zone in the robotic work cell

Visit Tregaskiss.com or your distributor for additional Tregaskiss consumable options.
### Power Source Welding Performance

<table>
<thead>
<tr>
<th>Material</th>
<th>Light Industrial</th>
<th>Industrial</th>
<th>Heavy Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Aluminum</td>
<td>●</td>
<td>●</td>
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</table>

#### Material Thickness

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>Light Industrial</th>
<th>Industrial</th>
<th>Heavy Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>.023 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>.030 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>.035 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>.045 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>.052 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1/16 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>5/64 in.</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>3/32 in.</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

#### Process

<table>
<thead>
<tr>
<th></th>
<th>Light Industrial</th>
<th>Industrial</th>
<th>Heavy Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>Pulsed Spray</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>Stick</td>
<td>★★</td>
<td>★★</td>
<td>★★</td>
</tr>
<tr>
<td>AC TIG</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>DC TIG</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>CMC-A</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>1/4 in.</td>
</tr>
</tbody>
</table>

#### Icon Key
- Designed for
- Capable of
- Good Quality
- Better Quality
- Best Quality
- Optimized Quality

New! products appear in blue type.

1. CC/CV and FieldPro® models are capable of aluminum welding. MPa models are designed for aluminum welding. XR®AlumaFeed SuitCase system is recommended for best results.
2. MPa models only.
Multimatic® 200 and 215

See literature DC/12.57 (200) and DC/12.59 (215)

Welding Capability

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Mode/Process</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Wire Feed Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimatic 200</td>
<td>CV: MIG/flux-cored</td>
<td>120 V</td>
<td>30–140</td>
<td>90 A at 18.5 V, 60% duty cycle</td>
<td>18.0 – 2.2 2.0</td>
<td>70-425 ipm (1.8-10.8 m/min.)</td>
</tr>
<tr>
<td>(907518)</td>
<td></td>
<td></td>
<td></td>
<td>110 A at 19.5 V, 20% duty cycle</td>
<td>22.4 – 2.7 2.6</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>CC: TIG</td>
<td>120 V</td>
<td>5–150</td>
<td>150 A at 16 V, 30% duty cycle</td>
<td>27.0 – 3.3 3.2</td>
<td>–</td>
</tr>
<tr>
<td>(951649)</td>
<td></td>
<td></td>
<td></td>
<td>150 A at 16 V, 30% duty cycle</td>
<td>27.0 – 3.3 3.2</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>CC: Stick</td>
<td>120 V</td>
<td>10–100</td>
<td>100 A at 24 V, 35% duty cycle</td>
<td>24.0 – 2.9 2.8</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>150 A at 26 V, 30% duty cycle</td>
<td>24.0 – 2.9 2.8</td>
<td>–</td>
</tr>
<tr>
<td>Multimatic 215</td>
<td>CV: MIG/flux-cored</td>
<td>120 V</td>
<td>30–125</td>
<td>110 A at 19.5 V, 60% duty cycle</td>
<td>23.0 – 2.8 2.8</td>
<td>60-600 ipm (1.5-15.2 m/min.)</td>
</tr>
<tr>
<td>(907693)</td>
<td></td>
<td></td>
<td></td>
<td>200 A at 24 V, 20% duty cycle</td>
<td>25.8 – 6.2 6.2</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>CC: TIG</td>
<td>120 V</td>
<td>20–150</td>
<td>140 A at 15.6 V, 40% duty cycle</td>
<td>24.6 – 3.0 3.0</td>
<td>–</td>
</tr>
<tr>
<td>(951674)</td>
<td></td>
<td></td>
<td></td>
<td>190 A at 17.6 V, 20% duty cycle</td>
<td>24.6 – 3.0 3.0</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>CC: Stick</td>
<td>120 V</td>
<td>10–100</td>
<td>90 A at 23.6 V, 40% duty cycle</td>
<td>22.7 – 2.7 2.7</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>190 A at 27.6 V, 20% duty cycle</td>
<td>27.0 – 6.5 6.5</td>
<td>–</td>
</tr>
</tbody>
</table>

Aluminum welding uses optional Spoolmate 100 and 4000 series aluminum wire OR Spoolmate 150 (effective with Multimatic 200 serial number MF364047N) and either 4000 or 5000 series aluminum wire. TIG welding uses optional Spoolmate 100 OR MIG wire. TIG Mild Steel uses optional TIG contractor kit.

Weighing only 29 pounds (200) or 38 pounds (215), these lightweight MIG, stick and TIG welders provide portability on the job.

Impact-resistant, flame-retardant case (200 only) provides strength and durability, while protecting components and welding wire from moisture, dust and other contaminants.

Auto-Set Elite can be used on multiple materials and multiple processes with the ability to fine-tune your settings. Easy to set up and use!

Excellent arc characteristics! Positive arc starts and an extremely stable arc with minimal spatter.

Auto Spool Gun Detect automatically detects when a MIG gun or spool gun is connected, eliminating the need for a switch.

Multimatic 215 model additional features

Intuitive color LCD interface makes it quick and easy to adjust parameters.

Angled cast-aluminum drive system provides smooth feeding and the ability to use 10-, 12- or 15-foot guns.

Power cord with MVP plugs for 120 V and 240 V

Quick Select drive roll for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire and .030/.035 in. (0.8/0.9 mm) flux-cored wire

• Flow gauge regulator and gas hose for argon or AR/CO2 mix, extra MDX contact tips, information/settings chart and material thickness gauge (229895) — Hobart® spool of .030 in. solid wire and hook-and-loop cord wraps as seen in photo above are included with Multimatic 215 model only

Most popular accessories

Spoolmate® Spool Guns (pg 27) 300371 Spoolmate 100 301272 Spoolmate 150

Running Gear/Cylinder Rack 301239 (pg 114)

Protective Cover 301262 (pg 117) (for Multimatic 215 only)

TIG Contractor Kits (pg 120) 301287 For Multimatic 200 301337 For Multimatic 215

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Multimatic® 220 AC/DC

See literature DC/12.65

Welding Capability

<table>
<thead>
<tr>
<th></th>
<th>Max. 3/8 in. (9.5 mm)</th>
<th>Max. 3/8 in. (9.5 mm)</th>
<th>MIG Mild Steel</th>
<th>MIG Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 24 ga.</td>
<td>0.6 mm</td>
<td>0.6 mm</td>
<td>18 ga.</td>
<td>24 ga.</td>
</tr>
<tr>
<td>Max. 1/4 in.</td>
<td>6.4 mm</td>
<td>6.4 mm</td>
<td>24 ga.</td>
<td>24 ga.</td>
</tr>
<tr>
<td>TIG Mild Steel</td>
<td>24 ga.</td>
<td>24 ga.</td>
<td>24 ga.</td>
<td>24 ga.</td>
</tr>
</tbody>
</table>

All in one. Comes equipped with all accessories to MIG, stick, AC and DC TIG weld with one machine — unlike other machines where you need to purchase additional accessories.

Innovative QuickTech™ technology makes setup and changing processes even easier.
- **Automatically** determines the polarity. Work is always connected to the bottom right receptacle. MIG gun and TIG torch can stay connected at the same time.
- **Automatically** switches to the right process. Just hit the trigger or the foot control and the machine automatically changes, eliminating the need to manually change processes.
- **Automatically** recalls the settings from the last process used.

Auto-Set® Elite can be used on multiple materials and multiple processes with the ability to fine-tune your settings. Easy to set up and use!

Pro-Set® (TIG/stick) eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls.

Intuitive color LCD interface makes it quick and easy to adjust parameters.

Weighing only 56 pounds, this lightweight MIG, stick and AC/DC TIG welder provides portability on the job.

Two shielding gas connections (one for MIG gas and one for TIG gas) so both gases can be left connected to the machine — no switching needed.

Manual mode offers additional TIG adjustments for increased control including AC balance, AC frequency and DC pulsing.

TIG high-frequency (HF) arc starting for non-contact arc initiation, reducing tungsten and material contamination.

### Processes

- MIG (GMAW) • Flux-cored (FCAW)
- DC stick (SMAW) • AC/DC TIG (GTAW)
- Pulsed TIG (GTAW-P)

Comes complete with
- 10 ft. (3 m) 100-amp MDX™-100 MIG gun
- 13 ft. (4 m) cable with electrode holder and 25 mm Dinse-style connector
- 12.5 ft. (3.8 m) Weldcraft® A-150 (WP-17) TIG torch with 25 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector
- 6.5 ft. (2 m) power cord with MVP plugs for 120 V and 240 V
- RFCS-14 HD foot control with 20 ft. (6 m) cord
- Quick Select™ drive roll for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire
- Two flow gauge regulators and gas hoses for argon or AR/CO2 mix, extra contact tips, Hobart® spool of .030 in. solid wire, AK2G TIG torch accessory kit, hook-and-loop cord wraps and material thickness gauge (229895)

Most popular accessories

- Spoolmate™ Spool Guns (pg 27)
- 300371 Spoolmate 100
- 301272 Spoolmate 150

- Dual Cylinder Rack Cart 951770 (pg 114)
- Protective Cover 301524 (pg 117)
- Wireless Remote Foot Control 300429 (pg 121)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

### Specifications

- **Rated Output**
  - 200 A at 28.4 V, 15% duty cycle
  - 170 A at 21.5 V, 40% duty cycle
  - 130 A at 15.2 V, 40% duty cycle
  - 105 A at 19.2 V, 60% duty cycle
  - 240 V
  - 220 V

- **Wire Feed Speed**
  - 60–600 ipm (1.5–15.2 m/min.)

- **Max. Open-Circuit Voltage**
  - 45 VDC

- **Dimensions**
  - H: 17.5 in. (445 mm)
  - W: 11.25 in. (286 mm)
  - D: 21.5 in. (546 mm)

- **Net Weight**
  - 56 lb. (25.3 kg)
Multimatic® 255

See literature DC/12.9

Welding Capability

<table>
<thead>
<tr>
<th>Process</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>22 ga. (0.8 mm)</td>
<td>24 ga. (0.6 mm)</td>
</tr>
<tr>
<td>TIG Mild Steel</td>
<td>3/8 in. (9.5 mm)</td>
<td>5/16 in. (7.8 mm)</td>
</tr>
<tr>
<td>Stick Mild Steel</td>
<td>18 ga. (1.2 mm)</td>
<td>16 ga. (1.5 mm)</td>
</tr>
</tbody>
</table>

Aluminum welding uses optional XR-Aluma-Pro push-pull gun. TIG welding uses optional Multimatic 255 TIG kit.

Auto-Set™ Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.

- Available for MIG, pulsed MIG, stick and DC TIG processes with the ability to fine-tune your settings
- Set weld parameters by:
  - MIG — selecting wire and gas type, wire diameter and material thickness
  - Stick — selecting electrode type, electrode diameter and material thickness
  - DC Lift-Arc® TIG — selecting remote on/off, tungsten diameter and material thickness

Built-in pulsed MIG programs. All programmed information is restored after each power up — aluminum/steel/stainless steel.

Program mode allows easy save and recall of favorite weld settings. Save up to four programs for each process. Delivers more productivity and consistent quality while minimizing supervisor intervention.

EXCLUSIVE! Auto-Gun Detect™ automatically adjusts voltage, wire speed and timers for faster switching between MIG, push-pull and spool guns.

Heavy-duty aluminum two-drive-roll system.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

Easy-to-understand interface with 7-inch color LCD display ensures proper machine setup and parameter selection, reducing setup time and increasing weld time.

- Quick-access process and weld mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick, easy and intuitive
- Large text for easier readability
- Intuitive connection setup images
- Full troubleshooting descriptions versus help errors and look up codes

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Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.
Maxstar 280 Multiprocess

Dynasty® 280 DX Multiprocess

See literature DC/35.5 (Maxstar) and AD/4.95 (Dynasty)

Multiprocess performance in a portable package. Designed for industrial applications that require a versatile solution with superior arc performance.

- **NEW!** Maxstar 280 Multiprocess
- **Dynasty® 280 DX Multiprocess**

See page 121

HDR Text

Archer SuitCase feeder paired with the CV output of the Maxstar or Dynasty power source gives this unit MIG process capabilities.

**Note:** Maxstar and Dynasty are not capable of ArcReach control.

Dynasty 280 DX Multiprocess complete package shown.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>DC Multiprocess</th>
<th>AC/DC Multiprocess</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maxstar 280 Multiprocess</strong>&lt;br&gt;(907552001)&lt;br&gt;Power source only</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dynasty 280 DX Multiprocess</strong>&lt;br&gt;(907514007)&lt;br&gt;Power source only</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>(951796)</strong> Contractor w/fingertip and SuitCase 8</td>
<td><strong>(951796)</strong> Contractor w/fingertip and SuitCase 12</td>
<td><strong>(951797)</strong> Contractor w/foot and SuitCase 8</td>
</tr>
<tr>
<td><strong>(951799)</strong> Contractor w/foot and SuitCase 12</td>
<td><strong>(951795)</strong> Complete w/wireless foot and SuitCase 12</td>
<td><strong>(951797)</strong> Contractor w/foot and SuitCase 12</td>
</tr>
</tbody>
</table>

**W**et Line® technology

Allows for any input voltage hook-up (208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Blue Lightning™ high-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.

**Pulsed TIG** can be used to increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

Cooler-On-Demand™ feature operates the auxiliary cooling system only when needed. Reduces noise, energy use, and airborne contaminants pulled through the cooler.

**Sense voltage for low OCV stick and Lift-Arc® TIG.**

**Refer to owner’s manual for complete ratings.**

**DC**

Dynasty 280 DX Multiprocess<br>(907514007) Power source only

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maxstar 280 Multiprocess</strong>&lt;br&gt;(907552001) Power source only</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-280</td>
<td>250 A at 20 V</td>
<td>21 19 11 9 7</td>
<td>7.6 7.3</td>
<td>60 VDC (11 VDC***)</td>
<td>H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.5 in. (569 mm)</td>
</tr>
<tr>
<td></td>
<td>1-phase</td>
<td>1-280</td>
<td>250 A at 20 V</td>
<td>35 32 18 16 13</td>
<td>7.3 7.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>3-phase</td>
<td>5-280</td>
<td>250 A at 30 V</td>
<td>* * 14 10 9</td>
<td>9.9 9.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-phase</td>
<td>5-280</td>
<td>180 A at 27.2 V</td>
<td>32 29</td>
<td>*</td>
<td>6.7 6.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MIG’ Flux-cored</td>
<td>3-phase</td>
<td>5-280</td>
<td>250 A at 26.5 V</td>
<td>* * 13 11 9</td>
<td>9.2 8.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-phase</td>
<td>5-280</td>
<td>200 A at 24 V</td>
<td>31 29</td>
<td>*</td>
<td>6.5 6.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dynasty 280 DX Multiprocess</strong>&lt;br&gt;(907514007) Power source only</td>
<td>TIG</td>
<td>3-phase</td>
<td>2-280 (AC)</td>
<td>1-280 (DC)</td>
<td>250 A at 20 V</td>
<td>21 19 11 9 7</td>
<td>7.6 7.3</td>
<td>60 VDC (11 VDC***)</td>
</tr>
<tr>
<td></td>
<td>1-phase</td>
<td>2-280 (AC)</td>
<td>1-280 (DC)</td>
<td>250 A at 20 V</td>
<td>35 32 18 16 13</td>
<td>7.3 7.1</td>
<td></td>
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<td></td>
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<td>3-phase</td>
<td>5-280</td>
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<td>31 29</td>
<td>*</td>
<td>6.5 6.3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AC/DC Mastery**

**H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.5 in. (569 mm)**

**1**Dynasty model only.

**2**With ArcReach SuitCase wire feeder.

**Comes with**

- **8 ft. (2.4 m) power cord (no plug)**
- **Two 50 mm Dinse-style connectors**
- **Two Dinse/Tweco® adapters**
- **8 ft. (2.4 m) weld cable with Tweco® style connectors to power feeder**
- **Quick reference guide**

**Contractor packages include above, plus**

- **Contractor kit with A-200 TIG torch and RCCS-14 fingertip control (301350) OR RFCS-14 HD foot control (301549)**
- **ArcReach® SuitCase® 8 OR ArcReach® SuitCase® 12 with two .035/.045 in. “V” groove drive rolls**
- **Bernard® BTB Gun 300 A with three .035 in. and two .045 in. Centerfire® contact tips**

**Complete package includes ArcReach SuitCase 12 and Bernard BTB gun from package above, plus**

- Coolmate® 1.3
- Coolant (4 one-gallon bottles)
- Small Runner® cart
- Wireless foot control
- Weldcraft® W-280 water-cooled torch kit

**Most popular accessories**

- **ArcReach® SuitCase® Feeders (pg 18)**
- **Small Runner® Cart 301318 (pg 115)**
- **Coolmate® 1.3 300972 (pg 115)**
- **Contractor Kits (pg 120) 301311 w/RCCS-14 finger control 301309 w/RFCS-14 HD foot control**
- **Weldcraft® Water-Cooled Torch Kits (pg 120) 300185 W-250 (WP-20) 300990 W-280 (WP-280) 301268 W-375**
- **Remote Controls (pg 120–121)**
- **Visit MillerWelds.com or your distributor for other Miller® options and accessories.**
Developed for harsh environmental conditions and output requirements that range from power-intensive to precise.

**All aluminum construction** helps the machine resist corrosion for long life.

**Exclusive protection input inductor** protects machine’s performance and reliability from “dirty” input power.

**Wind Tunnel Technology™** Internal air flow that protects components, greatly improving reliability.

**Fan-On-Demand™** cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

**High-quality performance** in all welding processes, from thick to thin metals.

**ArcReach**

Every year, outdated welding equipment wastes hundreds of productive work hours — and thousands of dollars in profit — by forcing operators to make numerous walks from the weld joint to the welder. Welding systems with ArcReach technology let operators adjust welding parameters right at the weld joint without a control cord using the wire feeder or remote — maximizing arc-on time, improving safety and impacting the bottom line. See pages 18/46 for ArcReach SuitCase feeders and page 46 for the Stick/TIG Remote. **Don’t walk. Weld!**

Learn more at [MillerWelds.com/arcreach](http://MillerWelds.com/arcreach)

*Note: Dimension 650 ArcReach does not support the new Cable Length Compensation (CLC™) and Adjust While Welding (AWW™) features or the ArcReach Smart Feeder.*

**Arc control** available in the stick and wire modes for easier fine tuning of tough-to-weld materials and out-of-position applications.

**Reduced size and weight** results in an easier-to-handle package that exceeds the welding performance of larger, heavier machines. Dimension 650 is 3.5 times lighter than the Dimension 652 and also uses 40 percent less floor space.

**High electrical efficiency and excellent power factor** mean that you can get more welding done using less power. Dimension 650 uses up to 32 percent less amperage than the Dimension 652.

---

**Dimension 650 and 650 ArcReach**

See literature DC/19.3

**Processes**
- MIG (GMAW) • Flux-cored (FCAW)
- Stick (SMAW) • TIG (GTAW)
- Submerged arc (SAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 3/8 in. carbons)

**Dimension 650 Stationary package includes**
- Power source
- S-74 MPa Plus feeder with Bernard® BTB Gun 400 A and .035/.045 in. drive rolls
- Industrial MIG 4/0 kit consisting of flowmeter regulator with 10 ft. (3 m) gas hose, 10 ft. (3 m) 4/0 feeder weld cable with lugs, and 15 ft. (4.6 m) work cable with 600-amp C-clamp

**Dimension 650 MigRunner™ package includes above plus**
- Running gear cylinder rack

**Most popular accessories**
- **Dimension 650 ArcReach™ Rack** 907701
  - Comes assembled with four Dimension 650 ArcReach power sources fused for 460 volts
- **ArcReach™ SuitCase™ Feeders** (pg 18/46)
- **70 Series Feeders** (pg 20)
- **Bernard® MIG Guns** (pg 25–26)
- **ArcReach® Stick/TIG Remote** 301325 (pg 46) *(for ArcReach model only)*
- **Running Gear Cylinder Rack** 300408 (pg 115)
- **Industrial MIG 4/0 Kit** *(with lug connectors)* 300390 (pg 117)
- **Extension Cables** *(pg 122)*
  - 242208025 25 ft. (7.6 m)
  - 242208050 50 ft. (15 m)
  - 242208080 80 ft. (24.4 m)

Visit [MillerWelds.com](http://MillerWelds.com) or your distributor for other Miller® options and accessories.
**XMT® Series**

Portability and excellent multiprocess arc performance make the XMT family the most popular in the industry. With many models to choose from the XMT family has the right solution for your business.

**Input power choices**

XMT 350 models allow for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable input power.

**Standard hookup** on XMT 450 models. 230/460 V manual link or 575 V, three-phase only.

**Advanced features for the professional welder**

- **Adaptive Hot Start™** makes starting stick electrodes easy without creating an inclusion.
- **Infinite arc control** available in the stick and wire modes for easier fine tuning of tough-to-weld materials and out-of-position applications.
- **Lift-Arc™** provides arc starting that minimizes contamination of the electrode and without the use of high frequency.

**Insight Core™** Welding Intelligence® system. XMT 14-pin models are Insight Core capable to monitor weld voltage, amperage, and arc-time and percentage.

**Reliability**

**Wind Tunnel Technology.** Internal air flow that protects components, greatly improving reliability.

**Fan-On-Demand™** cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

**Welder-friendly control panel**

**Process selector switch** reduces the number of control setup combinations without reducing any features.

**Ultra-tough, polycarbonate-blended cover** protects front controls from damage.

**Large, dual digital meters** are easy to view and presettable to ease setting weld output.

**Output connector choices**

- **Dinse- or Tweco®-style weld disconnects** (350 models) provide high-quality weld cable connections.

  *Note: Two Dinse connectors are supplied with Dinse machines. Tweco connectors must be ordered separately.*

- **Weld studs** (450 models).

**14-pin receptacle** provides a quick, direct connection to Miller® wire feeders. Capable of remote voltage control.

---

### Choose the Right XMT

<table>
<thead>
<tr>
<th></th>
<th>350 Amp</th>
<th>450 Amp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td>XMT 350 CC/CV</td>
<td>XMT 350 MPa</td>
</tr>
<tr>
<td></td>
<td>XMT 450 CC/CV</td>
<td>XMT 450 MPa</td>
</tr>
<tr>
<td><strong>Primary Operating Range</strong></td>
<td>3- or 1-phase power</td>
<td>3-phase</td>
</tr>
<tr>
<td><strong>Weld Output</strong></td>
<td>Auto-Line (208–575 V)</td>
<td>Manual link (230/460 V) or 575 V</td>
</tr>
<tr>
<td></td>
<td>350 A at 34 VDC (3-phase input power at 60% duty cycle)</td>
<td>450 A at 38 VDC (3-phase input power at 100% duty cycle)</td>
</tr>
<tr>
<td><strong>Carbon Arc Gouging</strong></td>
<td>Rated: 1/4 in. (6.4 mm)</td>
<td>Rated: 5/16 in. (7.9 mm)</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>80 lb. (36.3 kg)</td>
<td>122 lb. (55.3 kg)</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>Dinse-style</td>
<td>Dinse- or Tweco-style</td>
</tr>
<tr>
<td></td>
<td>Yes</td>
<td>–</td>
</tr>
<tr>
<td><strong>Pulsed MIG</strong></td>
<td>–</td>
<td>UPGRADE</td>
</tr>
<tr>
<td><strong>14-pin Compliant</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Insight Core Capable</strong> (requires Insight Core 14-pin module)</td>
<td>Yes (page 68)</td>
<td>Yes (page 68)</td>
</tr>
<tr>
<td><strong>ArcReach</strong></td>
<td>Factory option (page 44)</td>
<td>–</td>
</tr>
</tbody>
</table>
**XMT® 350 CC/CV and 450 CC/CV**

See literature DC/18.93 (350) and DC/18.94 (450)

Flexibility and simplicity make this the most popular model. It has the core multiprocess capabilities along with the flexibility of a 14-pin for spool guns, feeders, and remote controls.

![Image of XMT® 350 CC/CV and 450 CC/CV](image)

**XMT® 350 MPa and 450 MPa**

See literature DC/18.93 (350) and DC/18.94 (450)

Built-in pulse programs for manufacturing and fabrication applications that have benefits for standard steels, high-strength steels and aluminum.

**Pulse programs** provide a reduced heat-affected zone and good gap filling ability, and are great for thick to thin metal. They allow welding in all positions, as well as faster travel speeds and deposition.

**SharpArc® controls the arc in pulsed MIG mode and gives total control over the arc cone shape, puddle fluidity and bead profile.**

**Profile Pulse™** provides TIG appearance with MIG simplicity and productivity. Achieve “stacked dimes” without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.

**Additional features when using a 70 Series MPa Plus feeder or XR-AlumaFeed® feeder.**

**Synergic pulsed MIG.**

As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed, eliminating the need to make additional adjustments.

**Profile Pulse™** provides TIG appearance with MIG simplicity and productivity. Achieve “stacked dimes” without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.

**Added capabilities with Insight Core:** When using an MPa Plus feeder, wire deposition is added to the Insight Core capabilities.

---

### Multiprocess

*Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc.*

*Feeders include gun and drive rolls. MIGRunner adds 2/0 weld cable and 2/0 work cable with clamp, flowmeter regulator with gas hose and MIGRunner cart.*

*Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).*

### Heavy industrial

*XMT 450 is 3-phase only.*

**Processes**

- MIG (GMAW) • Pulsed MIG (GMAW-P)*
- Stick (SMAW) • TIG (GTAW)
- Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A) (carbons – 350: 1/4 in., 450: 5/16 in.)

*XMT MPa models only.

**Most popular accessories**

- XR-AlumaFeed® SuitCase® 301567 (pg 11)
- SuitCase® Feeders (pg 18)
- 20 and 70 Series Feeders (pg 20)
- Spoolmatic®, WC-24 (pg 28/122)
- MIGRunner® Cart 195445 (pg 115)
- Running Gear Cylinder Rack 300408 (pg 115)
- Coolmate® Coolant System (pg 115)
- Industrial MIG 4/0 Kits (pg 117)
- 300405 For XMT 350
- 300390 For XMT 450
- Gas Valve Kit

See literature DC/18.93 (350) and DC/18.94 (450)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

---

### Model/Stock Number

<table>
<thead>
<tr>
<th>Most Popular Models</th>
<th>Stock Number</th>
<th>Input Power</th>
<th>Amperage/ Voltage Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>350 A</strong></td>
<td>XMT 350 CC/CV (Dinse)</td>
<td>3-phase</td>
<td>3-425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4 36.1 20.6 17.8 14.1 14.2 13.6</td>
<td>75 VDC</td>
<td>H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)</td>
<td>80 lb. (36.3 kg)</td>
</tr>
<tr>
<td></td>
<td>(907161) 208–575 V power source only</td>
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</tr>
<tr>
<td></td>
<td>(907161011) 208–575 V w/auxiliary power</td>
<td>1-phase</td>
<td>3-425 A 10–38 V</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>60.8 54.6 29.7 24.5 19.9 11.7 11.2</td>
<td></td>
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<tr>
<td></td>
<td>(907366) 208–575 V power source only</td>
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<tr>
<td></td>
<td>(907366011) 208–575 V w/auxiliary power</td>
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<tr>
<td></td>
<td>(907366014) 208–575 V w/Tweco®</td>
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<tr>
<td><strong>450 A</strong></td>
<td>XMT 450 CC/CV (1/2 in. stud)</td>
<td>3-phase</td>
<td>15–600 A 10–38 V</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>– 51 – 27.6 24.4 22 18.9 19.5</td>
<td>90 VDC</td>
<td>H: 17.25 in. (436 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)</td>
<td>122 lb. (55.3 kg)</td>
</tr>
<tr>
<td></td>
<td>(907482) 575 V w/ ArcReach</td>
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<tr>
<td></td>
<td>(907478) 230/460 V power source only</td>
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<tr>
<td></td>
<td>(907470001) 230/460 V w/auxiliary power</td>
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<tr>
<td></td>
<td>(907460) 575 V power source only</td>
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</tr>
</tbody>
</table>
### More jobsite productivity and efficiency

**Cable Length Compensation (CLC)** ensures that the voltage a weld operator sets is the voltage they get by automatically adjusting voltage based on weld cable length, even hundreds of feet away from the power source.

**Polarity reversing models of power source and remote** are ideal for pipe and module assembly where changing polarity happens frequently.

For portability and reliability, **Auto-Line** allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

**Auto-Blind** automatically establishes exclusive communication between the power source and the wire feeder, using the existing weld cables upon system power up.

### Exceptional arc performance

Common weld failures can be minimized with stick stops that are specifically programmed to eliminate arc strikes outside of the heat-affected zone.

**Regulated Metal Deposition (RMD)** and pulsed MIG are fully supported, enabling operators to use these advanced processes in the field for faster, more-efficient welds.

### Increased uptime

**Delivers the performance you need.** XMT 350 FieldPro welders and ArcReach feeders and remotes have been extensively proven in the field.

**Wind Tunnel Technology:** Internal air flow that protects electrical components and PC boards from dirt, dust, debris... greatly improving reliability.

**Eliminate expenses related to maintaining or replacing easily damaged control cords** because the weld cables are used to communicate weld parameters between the wire feeder and power source.

### Improved jobsite safety

**Decrease the chances of slip, trip or fall injuries** because ArcReach technology allows weld operators to make parameter changes at the wire feeder or remote instead of having to travel through multistory and cluttered jobsites back to the power source.

### Maximum fleet compatibility

**Maximize fleet compatibility** and get the benefits of ArcReach when you pair XMT 350 FieldPro welders and ArcReach feeders with other ArcReach compatible products.

### More operator control

**Weld operators can Adjust While Welding (AWW)** to change weld parameters while the arc is on.

**Inadvertent parameter changes by other jobsite workers can be easily avoided** because connecting an ArcReach accessory from the power source automatically locks out the power source’s panel controls.

**Return to a previous weld process faster** because the power source is restored to its previous settings once the ArcReach accessory is removed.

**Decrease the chance of an incorrect weld process being used** because Auto-Process Select automatically sets the power source to the correct weld process based on the polarity applied to the weld accessory.
XMT® 450 CC/CV ArcReach® See literature DC/18.94

Auto-Process Select™: System automatically changes to MIG/FCAW (with gas) if electrode positive polarity is detected or FCAW (no gas) if electrode negative polarity is detected, when ArcReach communication is established between the feeder and the XMT — reducing the need to access the power supply.

Automatic return to panel settings. System automatically returns to XMT setting when ArcReach communication is terminated. For example, if the XMT is set to gouging at 550 amps and an ArcReach feeder is connected, the XMT will go to a MIG/FCAW process. If the feeder is disconnected, the XMT will go back to its previous setting (gouging at 550 amps).

Auto-Bind™ automatically establishes exclusive communication between the power source and the wire feeder, using the existing weld cables upon system power up.

Operator can precisely set arc voltage at the feeder and monitor the actual arc voltage and current delivered to the weld using the digital meters on the feeder. This removes guesswork when it comes to adhering to weld procedures.

Remote override of XMT. When an ArcReach feeder is connected to an XMT 450 ArcReach the feeder has full control and the XMT controls are disabled, preventing accidental changes by personnel other than the welding operator.

XMT Racks

All the benefits of an individual XMT in an easy-to-transport package for multiple arcs in the field.

Flexible solution. The flexibility of the XMT 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.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 FieldPro System (Tweco®) (951736) Stick/TIG (951734) MIG/flux-cored (951738) RMD/pulse</td>
<td>3-phase</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4 36.1 20.6 17.8 14.1 13.6 13.3</td>
<td>75 VDC</td>
<td>H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)</td>
</tr>
<tr>
<td>XMT 350 FieldPro Power Source only (907730) 208–575 V with Tweco® (907730002) 208–575 V with Dinse</td>
<td>1-phase</td>
<td>5–425 A 10–38 V</td>
<td>300 A at 32 VDC, 60% duty cycle**</td>
<td>60.8 54.6 29.7 24.5 19.9 11.7 11.2</td>
<td>75 VDC</td>
<td>H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)</td>
</tr>
<tr>
<td>XMT 350 FieldPro with Polarity Reversing System (Tweco®) (951737) Stick/TIG (951735) MIG/flux-cored (951739) RMD/pulse</td>
<td>3-phase</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4 36.1 20.6 17.8 14.1 13.6 13.3</td>
<td>75 VDC</td>
<td>H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)</td>
</tr>
<tr>
<td>XMT 350 FieldPro with Polarity Reversing Power Source only (907731) 208–575 V with Tweco® (907731001) 208–575 V with Dinse</td>
<td>1-phase</td>
<td>5–425 A 10–38 V</td>
<td>300 A at 32 VDC, 60% duty cycle**</td>
<td>60.8 54.6 29.7 24.5 19.9 11.7 11.2</td>
<td>75 VDC</td>
<td>H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)</td>
</tr>
<tr>
<td>XMT 450 CC/CV ArcReach (1/2 in. stud) (907481003) 230/460 V (907481004) 230/460 V w/auxiliary power* (907482) 575 V</td>
<td>3-phase</td>
<td>15–600 A 10–38 V</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>51 27.6 24.4 22 18.9</td>
<td>90 VDC</td>
<td>H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)</td>
</tr>
<tr>
<td>XMT 450 CC/CV ArcReach (907481008) 230/460 V (907481009) 230/460 V w/auxiliary power* (907482) 575 V</td>
<td>3-phase</td>
<td>15–600 A 10–38 V</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>51 27.6 24.4 22 18.9</td>
<td>90 VDC</td>
<td>H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)</td>
</tr>
</tbody>
</table>

*Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc.

**Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
The more they walk the more it costs.

“Business as usual” could cost you thousands of dollars a year and waste hundreds of hours of productive time. Welders can get more done — and your business can make more money — when you use Miller® products with ArcReach® technology.

Investing in ArcReach technology today can add up to big savings over time.

**WHAT IT DOES:**
With ArcReach technology, weld parameters can be adjusted remotely without a control cable. Parameter changes are sent to the power source through the weld leads.

**HOW IT HELPS:**
ArcReach technology saves welders multiple walks back and forth to the power source. That saves time, boosts productivity, and improves safety and weld quality.

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**ARCREACH POWER SOURCES**

- **XMT® 350 FieldPro™ system** pg 44
  Exceptional arc performance maximizes weld quality, minimizes defects.

- **XMT® 350 FieldPro™ system with Polarity Reversing** pg 44
  Automatically selects polarity, lead outputs and weld parameters.

- **Dimension™ 650 ArcReach** pg 41
  For harsh environments and a wide range of output requirements.

**ARCREACH ENGINE-DRIVEN POWER SOURCES**

- **Trailblazer® 325 ArcReach® models** pg 76
  Smaller and lighter than competition with unbeatable arc performance.

- **Big Blue® ArcReach® models** pg 78–81
  Tackle tough jobs that require high output for welding, gouging and aux power.

**ARCREACH WIRE FEEDERS**

- **ArcReach® Stick/Tig Remote** 301325
  For all ArcReach power sources except XMT 350 FieldPro with Polarity Reversing. Features remote amperage control, arc control for stick and Auto-Process Select.

- **ArcReach® Stick/Tig Remote with Polarity Reversing** 300934
  For XMT 350 FieldPro with Polarity Reversing power source only. Provides all the same functionality of the XMT 350 FieldPro with Polarity Reversing hundreds of feet from the power source, including process changeover and amperage adjustment — with no special cables.

**ARCREACH STICK/TIG REMOTES**

- **ArcReach® Stick/Tig Remote** 301325
  For all ArcReach power sources except XMT 350 FieldPro with Polarity Reversing. Features remote amperage control, arc control for stick and Auto-Process Select.

- **ArcReach® Stick/Tig Remote with Polarity Reversing** 300934
  For XMT 350 FieldPro with Polarity Reversing power source only. Provides all the same functionality of the XMT 350 FieldPro with Polarity Reversing hundreds of feet from the power source, including process changeover and amperage adjustment — with no special cables.

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MillerWelds.com/arcreach
PipeWorx 400 Welding System

Optimized for pipe fabrication shops.

Simple process setup
- The front panel was designed by welders for welders
- Requires just a few basic steps to set up a new weld process, resulting in less training time and minimizing errors from incorrect setups
- Memory feature stores four programs for each selection: stick, DC TIG, and MIG (left and right side of feeder) — eliminates the need to remember parameters

True multiprocess machine
- Weld processes are optimized to deliver superior arc performance and stability, specifically for root, fill, and cap passes on pipe
- RMD® and pulsed MIG increase quality and productivity

Quick process changeover
- Simply push a process selection button to choose a welding process
- Eliminates setup time and reduces the risk of weld reworks due to incorrect cable connections
- PipeWorx "Quick Select" technology automatically selects the welding process, the correct polarity, cable outputs, gas solenoid, and user-programmed welding parameters

Single-system design
- One machine designed to perform all of your pipe welding needs
- Simplified and optimized specifically for pipe welding

Advanced Technologies of PipeWorx System

Regulated Metal Deposition (RMD®)
- Higher quality root pass
- Calm stable arc
- Less spatter
- More tolerant of hi-lo conditions
- Reduced training requirements
- Less chance of cold lap or lack of fusion; reduces rework
- Can eliminate the need for a hot pass
- Can eliminate backing/purge gas in some stainless applications

RMD® and pulsed MIG increase quality and productivity
- Less chance of cold lap or lack of fusion; reduces rework
- Can eliminate the need to remember parameters
- When used with RMD, it is possible to use one wire and one gas for all passes

Pulsed MIG
- Less heat input than traditional spray pulse transfer
- Shorter arc length
- Narrower arc cone
- Improved fusion and fill at the toes of the weld resulting in:
  - Faster travel speeds
  - Higher deposition rates
- Less training time required because pulsed MIG:
  - Virtually eliminates arc wander
  - Is easier to control the puddle
  - Compensates for tip-to-work variations automatically
- When used with RMD, it is possible to use one wire and one gas for all passes

PipeWorx 400 Welding System

Model/Stock Number
Most Popular System

PipeWorx 400 Welding System
(951381) 230/460 V
(951382) 575 V

PipeWorx 400 Power Source only
(907382) 230/460 V
(907384) 575 V

Welding Mode/Process
Amperage/Voltage Ranges
Rated Output at 100% Duty Cycle
Amps Input at Rated Output, 60 Hz, 3-Phase
KVA 230 V 460 V 575 V
KV 230 V 460 V 575 V
Max. Open-Circuit Voltage
Dimensions
Net Weight

PipeWorx 400 Power Source only

PipeWorx Dual-wire Feeder only
(300366)

Model/Stock Number
Input Power
Input Welding Circuit Rating
Wire Feed Speed
Wire Diameter Capacity
Maximum Spool Size Capacity
Dimensions
Net Weight

PipeWorx 400 power source with cable hangers (907382 or 907384)
Dual-wire feeder with drive rolls (300366)
Two Bernard® PipeWorx 300-15 MIG guns (195400)
Running gear with gas cylinder rack and handles (300368)
Cable kit with 25 ft. (7.6 m) work sense lead (300367)

Most popular accessories
- Bernard® PipeWorx Guns
  195399 15 ft. (4.6 m), 250-15
  195400 15 ft. (4.6 m), 300-15
- PipeWorx Accessories Kit for Dual-wire Feeder 300568
  Includes 25 ft. (7.6 m) work cable with EG500 clamp, two flowmeter regulators and two 5 ft. (1.5 m) gas hoses
- Composite Cable Kit 300454 25 ft. (7.6 m)
  300456 50 ft. (15.2 m)
- PipeWorx Cooler 300370
- Foot Control Bracket 300676
- RFCS-14 HD 194744 (pg 120)
- RPBS-14 300666 (pg 120)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
**Thunderbolt® 160 and 210**

Dependable, portable, powerful stick welder.

Nearly 100 pounds lighter so you can work smarter not harder by bringing the welder to the work.

More powerful — up to 85 more amps — compared to leading competitive machine means you can weld thicker materials.

**Hot Start** technology provides easy, quick and reliable arc starts.

See literature DC/37.0

---

**Maxstar® 161 S**

Industrial class — provides maximum portability and performance in the most compact stick package in the industry.

Digital meter for more precise control when presetting or monitoring welding amperage.

Adaptive Hot Start™ for stick arc starts.

Stick-Stick detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

Superior stick arc performance even on the difficult-to-run electrodes like E6010.

---

### Product Guide

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thunderbolt 160 (907721)</td>
<td>120 V</td>
<td>20–80</td>
<td>85 A at 20% duty cycle</td>
<td>20.7</td>
<td>91 VDC</td>
<td>H: 10.5 in. (267 mm) W: 7.125 in. (181 mm) D: 13.375 in. (340 mm)</td>
<td>15 lb. (6.8 kg)</td>
</tr>
<tr>
<td>Thunderbolt 210 (907722)</td>
<td>240 V</td>
<td>20–160</td>
<td>160 A at 30% duty cycle</td>
<td>27.8</td>
<td>91 VDC</td>
<td></td>
<td>15.5 lb. (7.0 kg)</td>
</tr>
</tbody>
</table>

---

### Light industrial

**Process** Stick (SMAW)

**Comes complete with**

- 10 ft. (3 m) No. 4 electrode cable with heavy-duty electrode holder
- 10 ft. (3 m) work cable with clamp
- 6.5 ft. (2 m) power cord with MVP™ plugs for 120 V and 240 V
- Standard 240 V plug (210 model)
- Cable pouch

Visit MillerWelds.com or your distributor for Miller® options and accessories.

---

### Industrial

**Process** Stick (SMAW)

**Comes complete with**

- 6.5 ft. (2 m) power cords for 120 V and 240 V
- 13 ft. (4 m) electrode cable with holder and 25 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector
- Quick-reference guide

**907709001 includes above plus**

- Protective X-CASE™

Most popular accessories

- Protective X-CASE™ 301429

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

---

### Stock Numbers

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>KVA at Duty Cycle</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 V</td>
<td>20–90</td>
<td>90 A at 23.6 V, 30% duty cycle</td>
<td>23.2</td>
<td>2.8</td>
<td>5.3</td>
<td>48 VDC (12-16 VDC*)</td>
<td>H: 10.3 in. (262 mm) W: 5.6 in. (142 mm) D: 13.5 in. (343 mm)</td>
<td>13 lb. (5.9 kg)</td>
<td></td>
</tr>
<tr>
<td>240 V</td>
<td>20–160</td>
<td>160 A at 26.4 V, 20% duty cycle</td>
<td>22.6</td>
<td>5.4</td>
<td>5.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:** See page 52 in the TIG section for Maxstar 161 SFL and SFH.

*Sense voltage for stick.

---

**Thunderbolt**

Thunderbolt 210 (907722)

Thunderbolt 160 (907721)

Model/Stock Number

- Thunderbolt 160 (907721)
- Thunderbolt 210 (907722)

**Portability**

- Handle, shoulder strap
- Handle/shoulder strap, optional case

**Weldable Metals**

- Steel, stainless

**Welding Amperage Range**

- 20–160 DC
- 20–210 DC
- 20–160 DC
- 20–210 DC
- 5–280 DC
- 5–280 DC

**Special Features**

- Infinite amperage control, dual-voltage MVP™ plugs
- Infinite amperage control
- Auto-Line™ (120–240 V), digital meter
- Auto-Line™ (120–480 V), digital meters
- Portable at 41 lb., optional meter, also available in multioperator rack
- Up to 4 or 8 operators, lightweight

**Typical Applications**

- Garage/job shops, maintenance/repair, farm
- Garage/job shops, maintenance/repair, farm
- MRO, ship installation/repair, farm/rancho
- Construction, fabrication, pipe, steel erection, shipbuilding
- Construction, fabrication, pipe, steel erection, shipbuilding
- Construction, maintenance/repair, shipbuilding

---

**Product Key**

- Class: Light industrial, Industrial, Heavy industrial
- Capability: Designed for this process, Capable of this process

*Two machines paralleled.
Maxstar® 210 STR  See literature DC/32.1

Maximum flexibility with automatic connection to any input power while maintaining the best DC stick/TIG welding performance in its product class.

Allows for any input voltage hookup (120–480 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Lift-Arc® provides TIG arc initiation without the use of high frequency.

Dual schedule allows operators to switch between welding parameters for specific electrodes without readjusting the machine.

Hot Start® adaptive control provides positive arc starts without sticking.

Fan-On-Demand® power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminates pulled through the machine.

Remote amperage control.

Digital meters for more precise control when presetting or monitoring welding amperage.

Portable with adjustable shoulder strap.

<table>
<thead>
<tr>
<th>Stock Number (907682)</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick</td>
<td>208–480 V</td>
<td>S–210</td>
<td>160 A at 26.4 V, 60% duty cycle</td>
<td>Three-phase: 15, 13, 8, 5.5, 5.2</td>
</tr>
<tr>
<td></td>
<td>120 V</td>
<td>S–100</td>
<td>90 A at 23.6 V, 60% duty cycle</td>
<td>Single-phase: 26, 22, 13, 11, 5.3, 5.3</td>
</tr>
<tr>
<td>TIG</td>
<td>208–480 V</td>
<td>1–210</td>
<td>210 A at 18.4 V, 60% duty cycle</td>
<td>Three-phase: 14, 12, 7, 5.2, 4.9</td>
</tr>
<tr>
<td></td>
<td>120 V</td>
<td>1–210</td>
<td>125 A at 15 V, 60% duty cycle</td>
<td>Single-phase: 24, 20, 12, 10, 4.9, 4.9</td>
</tr>
</tbody>
</table>

Note: See page 54 in the TIG section for Maxstar 210 Series.

*Sense voltage for stick and Lift-Arc TIG.

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If you’re an occupational health and safety professional, sign up for the Welding Safety eNewsletter to receive information on regulatory updates, industry news and solutions that can elevate productivity and compliance within the workplace.

Sign up now at MillerWelds.com/newsletters
**CST™ 280**

Durable power source designed for the construction industry. Ideal for stick electrodes up to 3/16-inch and TIG welding of pipe and plate.

Superior stick arc performance even on the difficult-to-run electrodes like E6010.

Simple voltage-changeover switch saves time when changing primary voltage. Input voltage can be changed without removal from inverter rack or removal of machine case.

Optional digital meter for more precise control when presetting or monitoring welding amperage.

Portable in the shop or at the jobsite — at 41 pounds (18.6 kg) the CST 280 is easily moved from location to location.

Lift-Arc™ start provides TIG arc starting without the use of high frequency.

Rack mountable for protection, storage and transportation of multiple power sources while using a single primary power cable.

See page 121

*Output on single-phase reduced to comply with current limitation on input cable.*

---

**CST™ 280 Racks**

Rugged enclosure provides simple means for protecting and transporting multiple welding power sources for construction, maintenance/repair and shipbuilding applications.

Light weight and small footprint for easy transportation. The low weight enables the use of elevators to move the rack.

All controls including power switch are located on front of machine for easy access.

Top cover protects machines from falling debris.

Lift eyes simplify crane or overhead lifting device transport.

Lift truck fork pockets.

One main disconnect box with branched fusing for each machine.

Common output ground connection (for same polarity use only).

Optional rack running gear available for moving the rack.

---

### CST™ 280 Racks Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Rack Capacity</th>
<th>Input Power to Rack</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>KVA</th>
<th>KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Pack Rack</td>
<td>4 units</td>
<td>220–230/460–575 V, three-phase, 50/60 Hz.</td>
<td>137 134 79 72 70 57</td>
<td>58.4</td>
<td>40.8</td>
</tr>
<tr>
<td>8-Pack Rack</td>
<td>8 units</td>
<td>220–230/460–575 V, three-phase, 50/60 Hz.</td>
<td>274 268 158 145 140 114</td>
<td>116.8</td>
<td>81.6</td>
</tr>
<tr>
<td>Empty Rack</td>
<td>4 units</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>8 units</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

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**Industrial Processes**

- Stick (SMAW)
- TIG (GTAW)

**Comes with**

- 6 ft. (1.8 m) power cord
- One set of male connectors (Dinse-style model only)

**Most popular accessories**

- CST 280 Rack (see below)
- Remote Controls (pg 120–121)
- For TIG torches see literature DC/29.55

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

---

**Heavy Industrial Processes**

- Stick (SMAW)
- TIG (GTAW)

**Most popular accessories**

- 4-Pack Rack Running Gear 195114
- 8-Pack Rack Running Gear 195436

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar® 161</td>
<td>S2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/32 in.</td>
<td>1/8 in.</td>
<td>1/8 in.</td>
<td>3/32 in.</td>
<td>–</td>
<td>.020–3/16 in.</td>
<td>5–160 A</td>
<td>0–150 pps (STH model)</td>
<td>13 lb. (5.9 kg)</td>
<td>5.3 kW</td>
</tr>
<tr>
<td>Maxstar® 210</td>
<td>S4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>5/32 in.</td>
<td>5/32 in.</td>
<td>–</td>
<td>.002–1/4 in.</td>
<td>1–210 A</td>
<td>0.1–250 pps (base model)</td>
<td>38 lb. (17.2 kg)</td>
<td>9 kW</td>
</tr>
<tr>
<td>Maxstar® 280</td>
<td>S4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7/32 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>.004–3/8 in.</td>
<td>1–280 A</td>
<td>0.1–250 pps (base model)</td>
<td>47 lb. (21.3 kg)</td>
<td>11 kW</td>
</tr>
<tr>
<td>Maxstar® 400</td>
<td>S6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>1/4 in.</td>
<td>1/4 in.</td>
<td>1/4 in.</td>
<td>.012–5/8 in.</td>
<td>3–400 A</td>
<td>0.1–5,000 pps</td>
<td>134 lb. (61 kg)</td>
<td>20 kW</td>
</tr>
<tr>
<td>Maxstar® 800</td>
<td>S6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>3/8 in.</td>
<td>.020–1 in.</td>
<td>5–800 A</td>
<td>0.1–5,000 pps</td>
<td>198 lb. (90 kg)</td>
<td>45 kW</td>
</tr>
<tr>
<td>Diversion™ 180</td>
<td>S2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>.030–3/16 in.</td>
<td>10–180 A</td>
<td>–</td>
<td>50 lb. (23 kg)</td>
<td>5.5 kW</td>
</tr>
<tr>
<td>Syncrowave® 210</td>
<td>S3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/32 in.</td>
<td>1/8 in.</td>
<td>1/8 in.</td>
<td>3/32 in.</td>
<td>–</td>
<td>.020–1/4 in.</td>
<td>5–210 A</td>
<td>0.1–150 pps</td>
<td>133.5 lb. (61 kg)</td>
<td>6 kW</td>
</tr>
<tr>
<td>Dynasty® 210</td>
<td>S4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>5/32 in.</td>
<td>5/32 in.</td>
<td>5/32 in.</td>
<td>.012–1/4 in.</td>
<td>2–210 A</td>
<td>0.1–250 pps (base, DC only)</td>
<td>47 lb. (21.3 kg)</td>
<td>9 kW</td>
</tr>
<tr>
<td>Dynasty® 280</td>
<td>S4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7/32 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>.012–3/8 in.</td>
<td>2–280 A</td>
<td>0.1–250 pps (base, DC only)</td>
<td>52 lb. (23.6 kg)</td>
<td>12.5 kW</td>
</tr>
<tr>
<td>Dynasty® 400</td>
<td>S6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>1/4 in.</td>
<td>1/4 in.</td>
<td>1/4 in.</td>
<td>.015–5/8 in.</td>
<td>3–400 A</td>
<td>0.1–5,000 pps (DC)</td>
<td>134 lb. (61 kg)</td>
<td>20 kW</td>
</tr>
<tr>
<td>Dynasty® 800</td>
<td>S6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>3/8 in.</td>
<td>.020–1 in.</td>
<td>5–800 A</td>
<td>0.1–5,000 pps (DC)</td>
<td>198 lb. (90 kg)</td>
<td>50 kW</td>
</tr>
<tr>
<td>Syncrowave® 300</td>
<td>S7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5/32 in.</td>
<td>3/32 in.</td>
<td>3/32 in.</td>
<td>5/32 in.</td>
<td>3/32 in.</td>
<td>.015–3/8 in.</td>
<td>5–300 A</td>
<td>0.1–150 pps</td>
<td>101 lb. (45.8 kg)</td>
<td>9 kW</td>
</tr>
</tbody>
</table>

**Product Key**

- **Class:** Light industrial, Industrial, Heavy industrial
- **Capability:** All models, Some models

New! products appear in blue type.
**Diversion™ 180 AC/DC TIG**  See literature AD/1.5

Professional-grade arc in a package designed specifically for personal users. Contains all of the features you need — simplicity combined with superior performance and value.

**TIG Welding Capability**

Multi-voltage plug (MVP*) allows for connection to 120- or 240-volt receptacles without tools. Choose the plug that fits the receptacle and connect it to the power cord.

Fan-On-Demand* power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminates pulled through the machine.

Auto-postflow adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

Advanced squarewave AC provides a fast freezing weld puddle and deeper penetration.

Weldcraft® A-150 torch with Diamond Grip* provides more comfortable grip and reduces operator fatigue.

---

**Easy-to-understand operator interface.** Power up, select material type, set material thickness range and start welding!

**Inverter-based AC/DC power source** provides a more consistent welding arc while using less power.

**HF arc starting** for non-contact arc initiation that provides a more consistent welding arc while using less power.

**Inverter-based AC/DC power source** and start welding!

**Select material type, set material thickness range**

**Easy-to-understand operator interface.**

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---

**Maxstar® 161 STL and STH DC TIG and Stick**  See literature DC/27.5

Maximum portability and performance provided in one compact TIG/stick package.

**TIG Welding Capability**

Two models available. See page 48 in the Stick section for Maxstar 161 S. STL: DC TIG/stick with Lift-Arc starting without high frequency. STH: DC TIG/stick with high frequency and Lift-Arc starting, plus built-in pulsing from 0–150 pulses per second.

Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting.

Portable with adjustable handle/shoulder strap. Easy to transport at only 13 pounds.

Built-in gas solenoid eliminates need for a bulky torch with a gas valve.

Digital meter for more precise control.

Fan-On-Demand* power source cooling system.

Superior stick arc performance even on the difficult-to-run electrodics like E6010.

---

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**Process - TIG (GTAW)**

**Comes with**

- Power cord with MVP plugs for 120 V and 240 V
- 12.5 ft. (3.8 m) Weldcraft® A-150 TIG torch
- 12 ft. (3.7 m) work cable with clamp
- RFCS-RJ45 remote foot control
- Flow gauge regulator with hose

**Most popular accessories**

- TIG Torch Accessory Kit AK2C (pg 66)
- Running Gear/Cylinder Rack 301239 (pg 114)
- Protective Cover 300579 (pg 120)
- RCCS-RJ45 Remote Finger-tip Control 301146 (pg 120)
- RJ45 to 14-Pin Adapter Cord 30068B
- Weldcraft® Flexible Torch Body Kits (requires handle 105255R) A-125F (WP-9F) A-150F (WP-17F)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

**Maxstar® 161 STL and STH DC TIG and Stick**

See literature DC/27.5

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**TIG Welding Capability**

Two models available. See page 48 in the Stick section for Maxstar 161 S. STL: DC TIG/stick with Lift-Arc starting without high frequency. STH: DC TIG/stick with high frequency and Lift-Arc starting, plus built-in pulsing from 0–150 pulses per second.

Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting.

Portable with adjustable handle/shoulder strap. Easy to transport at only 13 pounds.

Built-in gas solenoid eliminates need for a bulky torch with a gas valve.

Digital meter for more precise control.

Fan-On-Demand* power source cooling system.

Superior stick arc performance even on the difficult-to-run electrodics like E6010.
Syncrowave® 210
AC/DC TIG, Stick and MIG (with Spool Gun)
See literature AD/4.6

Continuing the tradition of innovation through advanced inverter technology for light-industrial and personal users.

Easy to use.
1) Turn power on.
2) Select the process.
3) Set amperage or voltage based on material thickness.

Then weld! It's easy as 1,2,3.

TIG Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Max. 1/4 in. (6.4 mm)</th>
<th>Min. 0.020 in. (0.5 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>95 A at 13.8 V, 60% duty cycle</td>
<td>70 A at 22.8 V, 60% duty cycle</td>
</tr>
<tr>
<td>Aluminum</td>
<td>12.4 (.58 while idling)</td>
<td>11.9 (.35 while idling)</td>
</tr>
</tbody>
</table>

AC frequency (TIG) controls the width of the arc cone and can improve directional control of the arc.

AC balance (TIG) control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds.

Pulse (TIG). Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion.

DIG (stick) control allows the arc characteristics to be changed for specific applications and electrodes. Lower the DIG setting for smooth running electrodes like E7018 and increase the DIG setting for stiffer, more penetrating electrodes like E6010.

Auto-Set™ (MIG) automatically sets your welder to the proper parameters. Simply set the wire size, material thickness, and shielding gas and you’re ready to weld with the Spoolmate™ spool gun.

AC/DC TIG (GTAW) • DC stick (SMAW) • Pulsed TIG (GTAW-P) • MIG (GMAW) • Flux-cored (FCAW)

Light industrial

Processes

Comes with

- 10 ft. power cord with MVP plugs for 120 V and 240 V
- 12.5 ft. (3.8 m) Weldcraft™ A-150 TIG torch (WP1712MFDI50)
- 12 ft. (3.7 m) work cable with clamp and Dinse-style connector
- Electrode holder with Dinse-style connector
- RFCS-14 HD heavy-duty remote foot control
- Flow gauge regulator with hose
- Factory-installed running gear with EZ-Change™ low cylinder rack
- Quick-reference guide

TIG/MIG Complete package includes above plus

- Spoolmate™ 150 spool gun (301272)
- 4-14 pin connector
- Flow-thru Dinse-style connector

Most popular accessories

- 25 ft. (7.6 m) Weldcraft™ A-150 TIG Torch WP-17-25-R (pg 60)
- TIG Torch Accessory Kit AK2C (pg 66)
  - Allows A-150 torch customization.
  - Converts into 28 different torch styles while using existing cable.
  - Includes collets, collet bodies, nozzles, torch heads, handle and more
- Protective Cover 195142 (pg 120)
- RCC-14 Remote Control 151086 (pg 120)
- Wireless Remote Foot Control 300429 (pg 121)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

AC/DC

---|---|---|---|---|---|---|---|
115 V | DC TIG | 5–125 | 95 A at 13.8 V, 60% duty cycle | 17.4 (.58 while idling) | 47 VDC | H: 31.5 in. (800 mm) W: 18.5 in. (470 mm) D: 43 in. (1092 mm) | Runner package: 133.5 lb. (61 kg)
 | AC TIG | 5–125 | 90 A at 13.6 V, 60% duty cycle | 12.4 (.58 while idling) | | | Runner TIG/MIG Complete package: 139.5 lb. (63 kg)
 | DC stick | 20–90 | 70 A at 22.8 V, 60% duty cycle | 20.5 (.58 while idling) | | | |
230 V | DC TIG | 5–210 | 125 A at 15 V, 60% duty cycle | 11.9 (.35 while idling) | | | |
 | AC TIG | 5–210 | 114 A at 14.6 V, 60% duty cycle | 8.6 (.35 while idling) | | | |
 | DC stick | 20–150 | 90 A at 23.8 V, 60% duty cycle | 11.9 (.35 while idling) | | | |
Maxstar® and Dynasty® 210/280 Series
DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

See literature DC/32.1 (Maxstar 210), DC/35.0 (Maxstar 280), AD/4.81 (Dynasty 210) and AD/4.9 (Dynasty 280)

DC Maxstar

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 210</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>14 – 12 – 7 – 6 – 5.2 – 4.9</td>
<td>80 VDC (11 VDC**)</td>
<td>H: 13.6 in. (346 mm)</td>
<td>38 lb. (17.2 kg)</td>
</tr>
<tr>
<td>(907683)</td>
<td></td>
<td>1-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>24 – 20 – 12 – 10 – 4.9 – 4.9</td>
<td></td>
<td>W: 8.6 in. (219 mm)</td>
<td></td>
</tr>
<tr>
<td>Maxstar 210 DX</td>
<td></td>
<td>1-phase</td>
<td>1-150</td>
<td>125 A at 15 V</td>
<td>22 – – – – – – – – – – – – – – – – – – – –</td>
<td></td>
<td>D: 19.5 in. (495 mm)</td>
<td></td>
</tr>
<tr>
<td>(907684)</td>
<td></td>
<td>stick</td>
<td>3-phase</td>
<td>5-210</td>
<td>15 – 13 – 8 – 6 – 5.5 – 5.2</td>
<td></td>
<td>60 VDC (11 VDC**)</td>
<td>H: 13.6 in. (346 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-phase</td>
<td>5-210</td>
<td>160 A at 26.4 V</td>
<td>26 – 22 – 13 – 11 – 5.3 – 5.3</td>
<td></td>
<td>W: 8.6 in. (219 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-phase</td>
<td>5-100</td>
<td>90 A at 23.6 V</td>
<td>23 – – – – – – – – – – – – – – – – – – –</td>
<td></td>
<td>D: 22.5 in. (569 mm)</td>
<td></td>
</tr>
</tbody>
</table>

*Refer to owner’s manual for 208-volt output ratings and duty cycle.
**Sense voltage for low OCV stick and Lift-Arc™ TIG.

Auto-postflow adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

Pro-Set® eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

Sleep timer conserves electricity. This programmable feature will power down the machine if it sits idle for a specified time.

Update and expand. Front panel memory card data port provides the ability to easily update software and expand product features.

Optional cooler power supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate® 1.3. Not available on Maxstar 210 Series.

Cooler-On-Demand® feature operates the auxiliary cooling system only when needed. Reduces noise, energy use, and airborne contaminants pulled through the cooler. Only available on CPS models.

Base and DX models available. Base model provides essential TIG and stick functions. DX model adds extended ranges to sequencer, full trigger options, and full preflow and pulser functions.

Note: See page 40 in the Multiprocess section for the Maxstar 280 Multiprocess and Dynasty 280 DX Multiprocess, and see page 49 in the Stick section for the Maxstar 210 STR.

Blue Lightning™ high-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.

Lift-Arc™ provides AC or DC arc initiation without the use of high frequency.

Hot Start™ adaptive control provides positive arc starts without sticking.

Maxstar® and Dynasty® 210/280 Series
210 Series TIG Welding Capability

<table>
<thead>
<tr>
<th>Steel</th>
<th>Max. 1/4 in. (6.4 mm)</th>
<th>Min. 0.002 in. (0.05 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum (Dynasty only)</td>
<td>Max. 1/4 in. (6.4 mm)</td>
<td>Min. 0.012 in. (0.3 mm)</td>
</tr>
</tbody>
</table>

280 Series TIG Welding Capability

<table>
<thead>
<tr>
<th>Steel</th>
<th>Max. 3/8 in. (9.5 mm)</th>
<th>Min. 0.004 in. (0.1 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum (Dynasty only)</td>
<td>Max. 3/8 in. (9.5 mm)</td>
<td>Min. 0.012 in. (0.3 mm)</td>
</tr>
</tbody>
</table>

Maxstar and Dynasty
210 Series (Maxstar 210 shown).
Dynasty welders add AC TIG capabilities and the following AC features (limited on base model)

- **Waveforms** for advanced squarewave, soft squarewave, sine wave and triangular wave.
- **Balance** control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. DX models provide extended ranges.
- **Frequency** controls the width of the arc cone and can improve directional control of the arc.

Dynasty Water-Cooled Complete Packages

Additional packages are available—visit MillerWelds.com or your distributor.

<table>
<thead>
<tr>
<th>Model</th>
<th>Packages with Foot Control and CPS</th>
<th>Packages with Wireless Foot Control and CPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 210</td>
<td>951666</td>
<td>951667</td>
</tr>
<tr>
<td>Dynasty 210 DX</td>
<td>951668</td>
<td>951669</td>
</tr>
<tr>
<td>Dynasty 280</td>
<td>951466</td>
<td></td>
</tr>
<tr>
<td>Dynasty 280 DX</td>
<td>951468</td>
<td>951469</td>
</tr>
</tbody>
</table>

*Refer to owner’s manual for complete ratings.
**Sense voltage for low OCV stick and Lift-Arc TIG.

Dynasty 280 DX Complete package with wireless foot control and CPS shown.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Welding Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 210</td>
<td>3-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>80 VDC (11 VDC**)</td>
<td>13.6 in. (346 mm) W: 8.6 in. D: 22.5 in. (569 mm)</td>
<td>47 lb. (21.3 kg)</td>
<td>50 lb. (22.7 kg) with CPS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td></td>
<td>H: 13.6 in. (346 mm) W: 8.6 in. D: 22.5 in. (569 mm)</td>
<td>52 lb. (23.6 kg)</td>
<td>55 lb. (25 kg) with CPS</td>
</tr>
<tr>
<td>Dynasty 210 DX</td>
<td>3-phase</td>
<td>2-280 (AC)</td>
<td>250 A at 20 V</td>
<td></td>
<td>56 VDC (11 VDC**)</td>
<td>12.1 in. (308 mm) W: 4.4 in. D: 21.3 in. (542 mm)</td>
<td>47 lb. (21.3 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-280 (DC)</td>
<td>250 A at 20 V</td>
<td></td>
<td>H: 13.6 in. (346 mm) W: 8.6 in. D: 22.5 in. (569 mm)</td>
<td>52 lb. (23.6 kg)</td>
<td>55 lb. (25 kg) with CPS</td>
</tr>
<tr>
<td>Dynasty 280</td>
<td>3-phase</td>
<td>5-280</td>
<td>250 A at 30 V</td>
<td></td>
<td>56 VDC (11 VDC**)</td>
<td>12.1 in. (308 mm) W: 4.4 in. D: 21.3 in. (542 mm)</td>
<td>47 lb. (21.3 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5-280</td>
<td>180 A at 27.2 V</td>
<td></td>
<td>H: 13.6 in. (346 mm) W: 8.6 in. D: 22.5 in. (569 mm)</td>
<td>52 lb. (23.6 kg)</td>
<td>55 lb. (25 kg) with CPS</td>
</tr>
</tbody>
</table>

AC/DC Dynasty

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Welding Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 280</td>
<td>3-phase</td>
<td>2-280 (AC)</td>
<td>250 A at 20 V</td>
<td></td>
<td>56 VDC (11 VDC**)</td>
<td>12.1 in. (308 mm) W: 4.4 in. D: 21.3 in. (542 mm)</td>
<td>47 lb. (21.3 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-280 (DC)</td>
<td>250 A at 20 V</td>
<td></td>
<td>H: 13.6 in. (346 mm) W: 8.6 in. D: 22.5 in. (569 mm)</td>
<td>52 lb. (23.6 kg)</td>
<td>55 lb. (25 kg) with CPS</td>
</tr>
<tr>
<td>Dynasty 280 DX</td>
<td>3-phase</td>
<td>5-280</td>
<td>250 A at 30 V</td>
<td></td>
<td>56 VDC (11 VDC**)</td>
<td>12.1 in. (308 mm) W: 4.4 in. D: 21.3 in. (542 mm)</td>
<td>47 lb. (21.3 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5-280</td>
<td>180 A at 27.2 V</td>
<td></td>
<td>H: 13.6 in. (346 mm) W: 8.6 in. D: 22.5 in. (569 mm)</td>
<td>52 lb. (23.6 kg)</td>
<td>55 lb. (25 kg) with CPS</td>
</tr>
</tbody>
</table>

**Weldcraft** Water-Cooled Torch Kits

- Most popular accessories
  - 2-Wheel Trolley Cart 300971 (pg 115)
  - Small Runner Cart 301318 (pg 115)
  - Coolmate® 1.3 300972 (pg 115)
  - Coolant 043810 (pg 115)

- **Contractor Kits** (pg 120)
  - 301309 A-150 w/RFC-14 HD
  - 301311 A-150 w/RCC-14
  - 301549 A-200 w/RFC-14 HD
  - 301550 A-200 w/RCC-14

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Dynasty 280 DX Complete package with wireless foot control and CPS shown.

*AC/D**

GTAW | TIG

- **Processes**
  - TIG (GTAW) • Stick (SMAW)
  - Pulsed TIG (GTAW-P)
  - Air carbon arc (CAC-A) w/280 models

- **Comes with**
  - 8 ft. (2.4 m) power cord (no plug)
  - Two 50 mm Dinse-style connectors
  - Quick-reference guide (Duty Cycle only)

- **Complete packages come with**
  - 8 ft. (2.4 m) power cord (no plug)
  - Quick-reference guide
  - Small Runner® cart
  - Coolmate® 1.3
  - Coolant (four 1-gallon bottles)
  - Remote control (foot or wireless foot)
  - Weldcraft® water-cooled torch kit
    Dynasty 210: W-250 (WP-20)
    Dynasty 280: W-280 (WP-280)

- **Most popular accessories**
  - 2-Wheel Trolley Cart 300971 (pg 115)
  - Small Runner® Cart 301318 (pg 115)
  - Coolmate® 1.3 300972 (pg 115)
  - Coolant 043810 (pg 115)

- **Weldcraft® Water-Cooled Torch Kits** (pg 120)
  - 300185 W-250 (WP-20)
  - 300990 W-280 (WP-280)
  - 301268 W-375

- Remote Controls (pg 120-121)
  - 043688 RCCS-14 fingertip control
  - 194744 RFCS-14 HD foot control
  - 300429 Wireless foot control

**TIG (GTAW)**

- Waveforms for advanced squarewave, soft squarewave, sine wave and triangular wave.
- Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. DX models provide extended ranges.
- Frequency controls the width of the arc cone and can improve directional control of the arc.
Maxstar® and Dynasty® 400 and 800
DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

See literature DC/24.5 (Maxstar) and AD/5.5 (Dynasty)

**Sense voltage for low OCV stick and Lift-Arc™ TIG.**

**See literature DC/24.5 (Maxstar) and AD/5.5 (Dynasty) for Complete package dimensions and weight.**

**Auto-Line** TECNOLOGY

Allows for any input voltage hookup (208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

**Blue Lightning®** high-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.

**Lift-Arc™** provides AC or DC arc initiation without the use of high frequency.

**Hot Start** adaptive control provides positive arc starts without sticking.

**Auto-postflow** adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

**Cooler power supply (CPS)** is an integrated 120-volt dedicated-use receptacle for the Coolmate® 3.5.

**Program memory** features nine independent program memories that maintain/save your parameters.

**High-speed DC TIG pulse controls** capable of 5,000 pulses per second.

*Sense voltage for low OCV stick and Lift-Arc™ TIG.*

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*Sense voltage for low OCV stick and Lift-Arc™ TIG.*

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*Sense voltage for low OCV stick and Lift-Arc™ TIG.*

**See literature DC/24.5 and AD/5.5 for Complete package dimensions and weight.**
Syncrowave® 300 AC/DC TIG and Stick

**NEW!**

Syncrowave 300

Syncrowave 300 Complete package

Syncrowave 300 machine only

**Syncrowave® 300 AC/DC TIG and Stick**

See literature AD/4.25

**Industrial Processes**
- TIG (GTAW) • Stick (SMAW)
- DC pulsed TIG (GTAW-P)

**Comes with**
- 10 ft. (3 m) power cord (no plug)
- Two 50 mm Dinse-style connectors

**Complete packages include above plus**
- Running gear
- Coolmate™ 3 cooler
- Coolant (four 1-gallon bottles)
- Remote control (foot or wireless foot)
- Weldcraft™-280 water-cooled torch kit

**Most popular accessories**
- Coolant 043810 (pg 115)
- Weldcraft™ W-280 Water-Cooled Torch Kit 300990 (pg 120)
- Remote Controls (pg 120–121)
  - 043688 RCCS-14 fingertip control
  - 194744 RFCS-14 HD foot control
  - 300429 Wireless foot control

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

**Auto-Link®** circuit automatically links the power source to primary voltage being applied (208/240/480 V, single- or three-phase).

**AC balance control** features adjustable cleaning action while increasing arc stability on various aluminum alloys, and helps eliminate tungsten spitting and arc rectification.

**Blue Lightning™** high-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.

**Lift-Arc™** provides AC or DC arc initiation without the use of high frequency.

**Auto-postflow** adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

**Pro-Set™** eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls.

**Arc timer/cycle counter** records actual welding time and number of arc starts. Great for estimating job costs.

**Line voltage compensation** keeps power source constant regardless of fluctuations in input power (±10 percent).

**Coolmate™ 3 cooler** (shown in Complete package). Three-gallon cooling system features a flow indicator to visually indicate system is working and an external filter to stop objects from entering the water-cooled torch cable.

**Rated Output**
- 210 A at 18.4 V, 60% duty cycle
- 160 A at 26.4 V, 60% duty cycle

**Input Power**
- 3-phase 5-300
- 1-phase 5-300

**Input Amp Range**
- 208 V 240 V 480 V
- 18 14 7 5.9 5.5
- 27 24 12 5.7 5.5

**Max. Open-Circuit Voltage**
- 60 VDC (13 VOC*)
- H: 29.4 in. (746 mm)
- W: 15 in. (381 mm)
- D: 24.6 in. (625 mm)

**Power Source Dimensions**
- 101 lb. (45.8 kg)

**Power Source Net Weight**

**TIG Welding Capability**

<table>
<thead>
<tr>
<th>Steel</th>
<th>Max. 1/2 in. (12.7 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 0.012 in. (0.3 mm)</td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td>Max. 3/8 in. (9.5 mm)</td>
</tr>
<tr>
<td>Min. 0.015 in. (0.4 mm)</td>
<td></td>
</tr>
</tbody>
</table>

**Sense voltage for low OCV stick and Lift-Arc® TIG.**

**See literature AD/4.25 for Complete package dimensions and weight.**

*Sense voltage for low OCV stick and Lift-Arc® TIG.

**See literature AD/4.25 for Complete package dimensions and weight.**
Weldcraft™ Series TIG Torches

Synonymous with versatility and performance, Weldcraft TIG torches can handle the most intricate to the most demanding TIG welding challenges. From the 125-amp hand-held MicroTIG® torch to the 500-amp machine-held water-cooled models, there’s a Weldcraft torch for nearly every TIG application.

Setting the standard for performance

Super Cool™ technology provides additional surface area to increase cooling efficiency and capacity.

Comfort and control are increased with the lightweight, well-balanced body and handle designs, helping to reduce fatigue.

Robust performance through heavy copper construction that delivers maximum welding capacity for rugged fieldwork.

Simplify torch package installation with ColorSmart™ hose and cable sets that differentiate input water, water/power cable, and gas hoses.

Improve gas coverage and cooling capacity through the use of a gas lens.

Extreme reliability

Reduce downtime due to overheating through consistent water-cooled performance.

Extend parts life using the durable copper components, maximizing current capacity.

Reduce leakage of gas and water through secure mechanical fittings.

Works in cold weather with the Tri-Flex™ hose and cable assembly that remains flexible to ease handling and extends cable life.

TIG Torch Configurator

Our TIG Torch Configurator is a simple way to make sure you are using the right torch and consumables for your application.

Answer a few simple questions about your specific application and get a recommendation for the appropriate torch, tungsten, collet, collet body and more. Email or print the recommendation for reference when purchasing your next Weldcraft torch.

Visit now at MillerWelds.com/torchconfig
Weldcraft™ Air-Cooled Torches

Recommended for welding amperages under 250 amps. Air-cooled torches are great for portable applications as they do not require a water-circulator. For power sources without a built-in gas solenoid, the air-cooled two-piece torch is the solution of choice.

Weldcraft™ Water-Cooled Torches

Recommended for welding amperages above 200 amps. Offering a small torch design, water-cooled torches allow for precise control due to the efficient around-the-head cooling. This same cooling allows for extended torch life and higher amperage capacities.

Weldcraft™ Specialty Torches

Specialty torches are designed to fit best in unique applications. The Modular Series torches allow for a quick change to many different torch styles for any joint configuration. For those hard-to-reach areas the W-125 MicroTIG® torch provides access and superior maneuverability.

Weldcraft™ Automation Torches

Ideal for mechanized applications, the Weldcraft Automation Series offers air-cooled and water-cooled torches designed for high- and low-amperage mechanized applications.

Weldcraft™ A-80 Series

Formerly known as WP-24 Series

Innovative air-cooled torches designed for intricate welding applications, especially in limited-access areas and on thin-gauge materials.

Featherweight torch body is well balanced to improve operator comfort and control.

Minimize discontinuities. Insulating gasket on torch body minimizes gas leakage and minimizes weld discontinuities.

Combined flexible neck and gas valve is ideal for optimal positioning and gas flow control (A-80 Flex Valve).

Applications
- Shipbuilding
- Motorsports
- Aerospace
- Restricted areas

Most popular consumables
- Collets
  - 53N16 .040 in. (1.0 mm)
  - 53N14 1/16 in. (1.6 mm)
  - 24C332 3/32 in. (2.4 mm)
- Collet Bodies
  - 53N18 .040 in. (1.0 mm)
  - 53N19 1/16 in. (1.6 mm)
  - 24CB332 3/32 in. (2.4 mm)
- Alumina Nozzles
  - A53N24 #4, 1/4 in.
  - A53N25 #5, 5/16 in.
  - A53N27 #6, 3/8 in.

Most popular accessories
- Collet Body Wrench 53N20

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Weldcraft™ A-125 Series
Formerly known as WP-9 Series

Air-cooled torches designed for optimal control while welding thin-gauge materials, especially in hard-to-reach places.

Lightweight body reduces fatigue and downtime, while increasing operator comfort.

Pencil-style model without a back cap allows for superior access to confined areas (A-125 Pencil).

Combined flexible neck and gas valve for welding limited-access joints using power sources without gas solenoids (A-125 Flex Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 12.5 ft. (3.8 m)</th>
<th>2-Piece Rubber 12.5 ft. (3.8 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-125</td>
<td>WP-9-12-R</td>
<td>WP-9-V-12-R</td>
<td>Air-cooled</td>
<td>DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-125 Valve</td>
<td>WP-9V-12-R</td>
<td>WP-9FV-12-R</td>
<td>Air-cooled</td>
<td>DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-125 Flex</td>
<td>WP-9F-12-R</td>
<td>WP-9FV-12-R</td>
<td>Air-cooled</td>
<td>DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-125 Pencil</td>
<td>WP-9P-12-R</td>
<td>WP-9F-12-R</td>
<td>Air-cooled</td>
<td>DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
</tbody>
</table>

Weldcraft™ A-150 Series
Formerly known as WP-17 Series

Versatile and innovative air-cooled torches designed for maximum comfort in a variety of applications.

Diamond Grip™ head design has ergonomic contact points for thumb and fingers. Provides a more comfortable grip and reduces operator fatigue (A-150 and A-150 Valve).

Improve control and comfort with a flexible neck that allows access into hard-to-reach areas (A-150 Flex).

Maximum versatility. Utilize the Redhead™ Series torches in a variety of welding applications without adding expenses.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 12.5 ft. (3.8 m)</th>
<th>2-Piece Rubber 12.5 ft. (3.8 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-150</td>
<td>WP-17-12-R</td>
<td>WP-17-25-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-150 Valve</td>
<td>WP-17V-12-R</td>
<td>WP-17V-25-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-150 Flex</td>
<td>WP-17F-12-R</td>
<td>WP-17F-25-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-150 Flex Valve</td>
<td>WP-17FV-12-R</td>
<td>WP-17FV-25-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-150 Flex Valve Redhead</td>
<td>WP-R17FV-12-R</td>
<td>WP-R17FV-25-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle</td>
<td>.020–.1/8 in. (0.5–3.2 mm)</td>
</tr>
</tbody>
</table>
Weldcraft™ A-200 Series

Formerly known as WP-26 Series

Dependable, top-performing air-cooled torches designed for heavy-duty welding applications.

Eliminate the expense of a water-cooled system. The air-cooled capability of the A-200 Series pairs reliability with cost-effectiveness for all field applications.

Combined flexible neck and gas valve advances capabilities with greater comfort and control (A-200 Flex Valve).

Maximum versatility. Utilize the Redhead Series torches in a variety of welding applications without adding expenses.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 12.5 ft. (3.8 m)</th>
<th>25 ft. (7.6 m)</th>
<th>2-Piece Rubber 12.5 ft. (3.8 m)</th>
<th>25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-200</td>
<td>WP-26-12-R</td>
<td>WP-26-25-R</td>
<td>WP-26-12-2</td>
<td>WP-26-25-2</td>
<td>Air-cooled</td>
<td>DC: 200 A at 60% duty cycle</td>
<td>0.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>A-200 Valve</td>
<td>WP-26V-12-R</td>
<td>WP-26V-25-R</td>
<td>WP-26V-12-2</td>
<td>WP-26V-25-2</td>
<td>Air-cooled</td>
<td>AC: 150 A at 60% duty cycle</td>
<td></td>
</tr>
<tr>
<td>A-200 Flex</td>
<td>WP-26F-12-R</td>
<td>WP-26FV-25-R</td>
<td>WP-26FV-12-2</td>
<td>WP-26FV-25-2</td>
<td>Air-cooled</td>
<td>DC: 200 A at 60% duty cycle</td>
<td>0.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>A-200 Flex Valve</td>
<td>WP-R26F-12-R</td>
<td>—</td>
<td>WP-R26FV-12-2</td>
<td>—</td>
<td>Air-cooled</td>
<td>DC: 250 A at 60% duty cycle</td>
<td>0.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>A-200 Flex Valve Redhead</td>
<td>—</td>
<td>—</td>
<td>WP-R26FV-12-2</td>
<td>—</td>
<td>Air-cooled</td>
<td>DC: 250 A at 60% duty cycle</td>
<td>0.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
</tbody>
</table>

Weldcraft™ A-250 Series

Dependable, top-performing air-cooled torches designed for heavy-duty welding applications.

Eliminate the expense of a water-cooled system. The air-cooled capability of the A-250 Series pairs reliability with cost-effectiveness for all field applications.

Robust performance. The heavy copper construction delivers optimal welding capacity for rugged fieldwork.

Effortless adjustments. Gas control valve ensures quick and easy adjustment of shielding gas flow (A-250 Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>2-Piece Rubber, 25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-250</td>
<td>301525025</td>
<td>Air-cooled</td>
<td>DC: 250 A at 60% duty cycle</td>
<td>0.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>A-250 Valve</td>
<td>301526025</td>
<td>Air-cooled</td>
<td>AC: 188 A at 60% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

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### Weldcraft™ W-180
**Formerly known as WP-24W**

One of the smallest water-cooled TIG torches on the market and designed for welding in confined areas that require high amperage.

Use high amperage in confined areas for efficient welding.

Superior maneuverability in limited-access locations with the compact torch body.

Excellent weld capacity without increasing torch size, due to the efficient cooling system.

<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber, 25 ft. (7.6 m)</th>
<th>Vinyl, 25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-180</td>
<td>WP-25W-12-R</td>
<td>WP-25-12</td>
<td>Water-cooled</td>
<td>DC: 180 A at 100% duty cycle</td>
<td>0.020–3/32 in. (0.5–2.4 mm)</td>
</tr>
<tr>
<td></td>
<td>25 ft. (7.6 m)</td>
<td></td>
<td></td>
<td>AC: 115 A at 100% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

### Weldcraft™ W-200 Pencil Flex
**Formerly known as WP-25**

Versatile water-cooled torch optimized for use in limited-access welding situations.

Pencil-style, flexible neck designed for both high-amperage applications and confined-area access.

Decreased downtime and longer trouble-free service due to overheating with the innovative cooling design.

Comfort and control are increased with the lightweight, well-balanced body design.

### Weldcraft™ W-250 Series
**Formerly known as WP-20 Series**

Water-cooled torches that provide consistent performance and long-term trouble-free service with around-the-head water cooling.

Extend torch life and minimize downtime due to overheating with the efficient around-the-head cooling design.

Reduce leakage of gas and water through secure mechanical fittings and connections.

Easy hose replacement with the innovative mechanical fittings design (W-250 Valve).

### Applications
- Aerospace • Manufacturing
- Food/beverage industry • Shipbuilding
- Maintenance and repair
- Petro/chemical • Precision fabrication

### Most popular consumables
- Collets
  - 53N16 .040 in. (1.0 mm)
  - 53N14 1/16 in. (1.6 mm)
  - 24C32 3/32 in. (2.4 mm)
- Collet Bodies
  - 53N18 .040 in. (1.0 mm)
  - 53N19 1/16 in. (1.6 mm)
  - 24CB32 3/32 in. (2.4 mm)
- Alumina Nozzles
  - A53N24 #4, 1/4 in.
  - A53N25 #5, 5/16 in.
  - A53N27 #6, 3/8 in.

### Most popular accessories
- Cable Covers
  - WC-3-10 10 ft. (3 m)
  - WC-3-22 22 ft. (6.7 m)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
### Weldcraft™ W-280 Super Cool™

Formerly known as WP-280

Reliable water-cooled torch designed for demanding, high-amperage applications.

**Super Cool technology** provides additional surface area to increase cooling efficiency and capacity.

**Reduce downtime** due to overheating through consistent water-cooled performance.

**Reduce leakage** of gas and water through secure mechanical fittings and connections.

<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber 12.5 ft. (3.8 m)</th>
<th>Braided Rubber with 50 mm Dinse 25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output (DC: 280 A at 100% duty cycle, AC: 195 A at 100% duty cycle)</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-280 Super Cool</td>
<td>301251012</td>
<td>301251001</td>
<td>Water-cooled</td>
<td>DT: .020–.040 in. (0.5–1.0 mm)</td>
<td>.020–.032 in.</td>
</tr>
</tbody>
</table>

### Weldcraft™ W-375 Super Cool™

Formerly known as WP-18 Series

Reliable water-cooled torch designed for demanding, high-amperage applications.

**Super Cool technology** provides additional surface area to increase cooling efficiency and capacity.

**Reduce downtime** due to overheating through consistent water-cooled performance.

**Reduce leakage** of gas and water through secure mechanical fittings and connections.

<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber 12.5 ft. (3.8 m)</th>
<th>Braided Rubber with 50 mm Dinse 25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output (DC: 375 A at 100% duty cycle, AC: 265 A at 100% duty cycle)</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-375 Super Cool</td>
<td>301253012</td>
<td>301253001</td>
<td>Water-cooled</td>
<td>DT: .020–.05 in. (0.5–1.0 mm)</td>
<td>.020–.062 in.</td>
</tr>
</tbody>
</table>

### Weldcraft™ W-350 Series

Formerly known as WP-18 Series

Rugged water-cooled torches engineered for high-amperage and continuous hand-held welding in mechanized applications.

**Reduce downtime and costs** by minimizing overheating with the unique cooling design engineered for operator comfort.

**Reduce discomfort and fatigue** using the comfortable handle design.

**Superior gas flow control** offered through the built-in fingertip gas control (W-350 Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 12.5 ft. (3.8 m)</th>
<th>Vinyl 12.5 ft. (3.8 m)</th>
<th>Type</th>
<th>Rated Output (DC: 350 A at 100% duty cycle, AC: 265 A at 100% duty cycle)</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-350</td>
<td>WP-18-12-R</td>
<td>WP-18-12</td>
<td>Water-cooled</td>
<td>DT: .020–.05 in. (0.5–1.0 mm)</td>
<td>.020–.062 in.</td>
</tr>
</tbody>
</table>
Weldcraft™ W-400 Super Cool™
Formerly known as WP-18SC

Water-cooled torch designed to endure some of the most demanding applications while minimizing overheating.

Extend torch and consumable life with the full-flow water chamber that provides around-the-head cooling.

Improve gas coverage and cooling capacity with gas lens usage with heavy-duty stubby collet body.

Extend parts life using the durable copper components, maximizing current capacity.

Most popular consumables
- 90° Chucks
  - 125C40-90 .040 in. (1.0 mm)
  - 125C116-90 1/16 in. (1.6 mm)
  - 125C332-90 3/32 in. (2.4 mm)
- 90° Glass Nozzle (all sizes) 125N90
  (other nozzles are available)

Most popular accessories
- Accessory Kit (pg 66)

Applications
- Heavy fabrication • Tool and die
- Pipe and tube fabrication
- Pressure vessel fabrication

Weldcraft™ Modular Series
See literature AY/36.0

Air-cooled and water-cooled torches engineered to weld multiple joint configurations for various applications and angles.

Built-in, efficient cooling system reduces overheating to extend parts and consumable life.

Modular design minimizes costs and downtime for torch changeover and parts inventory.

Easy configurable head options provide greater flexibility and joint access, minimizing downtime for torch changeover.

Gas valve provides greater shielding gas flow control (A-150 Modular Valve).

Model | Rubber, 25 ft. (7.6 m) | Vinyl, 25 ft. (7.6 m) | Type | Rated Output | Electrode Range
--- | --- | --- | --- | --- | ---
W-400 Super Cool | WP-185C-25-R | WP-185C-25 | Water-cooled | DC: 400 A at 100% duty cycle, AC: 280 A at 100% duty cycle | .020–3/16 in. (0.5–4.8 mm)

Weldcraft™ W-125 Long Micro
Formerly known as WP-125L

Water-cooled MicroTig® torch designed for limited-access joints.

Small 5-inch torch body designed for limited-access joints.

Low-profile nozzle fits into holes as small as 5/8-inch diameter.

45-degree, 90-degree, and 180-degree options improve access in tight areas.

Lower maintenance costs incurred with the replaceable silicone rubber insulator and head components.

Model | Braided Rubber 12.5 ft. (3.8 m) | 25 ft. (7.6 m) | Vinyl | 25 ft. (7.6 m) | Type | Rated Output | Electrode Range
--- | --- | --- | --- | --- | --- | --- | ---
W-125 Long Micro | WP-125L-12-R | WP-125L-25-R | WP-125L-25 | Water-cooled | DC: 125 A at 100% duty cycle, AC: 80 A at 100% duty cycle | .040–3/32 in. (1.0–2.4 mm)
Weldcraft™ Automation Series

Air-cooled and water-cooled torches designed for high- and low-amperage mechanized applications.

Minimize downtime associated with tungsten changeover by using the front or back tungsten loading areas.

Built-in gas lens improves gas coverage to minimize shielding gas turbulence and improve weld quality (W-500A Automation and W-500B Automation).

Handle the most demanding high-amperage applications (W-500 Automation).

Weldcraft™ Tungsten

Tungsten for the most demanding TIG welding applications!

Available in four types and industry-standard diameters, our line of Weldcraft tungsten electrodes has undergone rigorous testing to ensure the highest quality and durability. Color-coded packages include ten 7-inch (175 mm) tungsten electrodes.

<table>
<thead>
<tr>
<th>Type</th>
<th>Stock Number</th>
<th>Diameter in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2% Ceriated (EWCe-2)</td>
<td>WC040X7</td>
<td>0.040 (1.0)</td>
</tr>
<tr>
<td></td>
<td>WC116X7</td>
<td>1/16 (1.6)</td>
</tr>
<tr>
<td></td>
<td>WC332X7</td>
<td>3/32 (2.4)</td>
</tr>
<tr>
<td></td>
<td>WC018X7</td>
<td>1/8 (3.2)</td>
</tr>
<tr>
<td></td>
<td>WC332X7</td>
<td>5/32 (4.0)</td>
</tr>
<tr>
<td>2% Lanthanated (EWLa-2)</td>
<td>WL2040X7</td>
<td>0.040 (1.0)</td>
</tr>
<tr>
<td></td>
<td>WL2116X7</td>
<td>1/16 (1.6)</td>
</tr>
<tr>
<td></td>
<td>WL2332X7</td>
<td>3/32 (2.4)</td>
</tr>
<tr>
<td></td>
<td>WL2018X7</td>
<td>1/8 (3.2)</td>
</tr>
<tr>
<td></td>
<td>WL2532X7</td>
<td>5/32 (4.0)</td>
</tr>
<tr>
<td>Rare Earth (EWG)</td>
<td>W116X7</td>
<td>1/16 (1.6)</td>
</tr>
<tr>
<td></td>
<td>W332X7</td>
<td>3/32 (2.4)</td>
</tr>
<tr>
<td></td>
<td>W018X7</td>
<td>1/8 (3.2)</td>
</tr>
<tr>
<td></td>
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<td>5/32 (4.0)</td>
</tr>
</tbody>
</table>

Applications
- Aerospace
- Food/beverage industry
- Pressure vessel fabrication
- Petro/chemical

Most popular accessories
- Cable Covers
  - WC-3-10 10 ft. (3 m)
  - WC-3-22 22 ft. (6.7 m)
  - WC-4-10 10 ft. (3 m)
  - WC-4-22 22 ft. (6.7 m)
- Air-Cooled Torch 1-Piece Power Cable Connector (pg 121) 195378 50 mm Dinse-style
- Water-Cooled Torch 1-Piece Power Cable Connectors (pg 121) 195377 50 mm Dinse-style 225028 50 mm thread-lock

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
**Weldcraft™ TIG Torch Accessories**

**GL Kits (Gas Lens Kits)**
Gas lenses improve the gas coverage of the tungsten during the TIG welding process. They can save you time and money by increasing your weld quality while using less gas. GL kits provide three different-sized gas lenses and consumables in each kit to work with a variety of different applications.

**AK Kits (Accessory Kits)**
AK kits provide a set of different consumables for Weldcraft torches to tackle a variety of different applications. Kits include nozzles, collets, collet bodies, tungsten and back caps.

**AK3GL**
- For A-150, A-200 and A-250. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.

**AK4C**
- For W-250 Series, W-280 Super Cool and W-375 Super Cool. Includes one long back cap, one of each size (#5, #6, #7) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

**AK4GL**
- For W-200, W-225, W-250, W-280 Super Cool and W-375 Super Cool. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, collet body, and 7-inch 2% ceriated tungsten electrode.

**AK18C**
- For W-400 Super Cool. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, one of each size (3/32, 1/8 HD, 5/32 HD) collet, one of each size (.020–1/8 inch, 1/8–3/16 inch) collet body, and one of each size (3/32, 1/8, 5/32 inch) 7-inch 2% ceriated tungsten electrode.

**AK125C**
- For W-125 Long Micro. Includes one of each size (180°, 45°, 90°, 90° short) glass lens insulator, and one of each size (.040, 1/16 inch) of the following: 180-degree chuck, 45-degree chuck, 90-degree chuck, and 7-inch 2% ceriated tungsten electrode.

**AK150MFC**
- For A-125 Series, A-150 Series and A-150 Modular Series. Allows welding operators to customize their standard A-125 (WP-9) or A-150 (WP-17) TIG torch for their specific application. Kit converts into 28 different torch styles while using the A-125 and A-150 existing cable. Features collets, collet bodies, nozzles, torch heads, handle and more.

**AK225MFC**
- For W-225 Modular. Includes five additional torch heads, collets, collet bodies, nozzles, torch heads, handle and more.

**MAK-2S**
- For W-350 Series. Includes one short and one long back cap, four back cap o-rings, two cup gaskets, one gas lens insulator, and one of each size (.040, 1/16, 3/32, 1/8 inch) gas lens. Also includes the following ten collets: (1) .040, (3) 1/16, (3) 3/32, (2) 1/8, (1) 5/32; and eight collet bodies: (1) .040, (2) 1/16, (2) 3/32, (2) 1/8, (1) 5/32.

**Remote Controls**
See pages 120–121 in Accessories section for stock numbers and more information.

**Cable Covers**
WC-3-10 10 ft. (3 m)
WC-3-22 22 ft. (6.7 m)
WC-3-48 48 ft. (14.6 m)
Cable covers protect the welding cables from the day-to-day wear and tear of common welding environments. Available in 10-foot, 22-foot, and 48-foot lengths, these covers can help prevent the frequent replacement of expensive welding cables.

**Quick Connects**
- QRG Allows for quick connection and removal of torch shielding gas hoses.
- QRW Allows for quick connection and removal of torch coolant hoses.

**Remote on/off control.**
Transform data into actionable information that drives continuous improvement.

Insight Centerpoint version 10 available. See page 69 for more information.

Choose the Right Welding Intelligence System

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Insight Core™</th>
<th>Insight Centerpoint™</th>
<th>Insight ArcAgent™</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Use With</td>
<td>Factory-Installed</td>
<td>Field-Installed/Activated</td>
<td>ANY welding source (old or new)</td>
</tr>
<tr>
<td>Requirements</td>
<td>• Continuum™/Auto-Continuum™ (standard)</td>
<td>• 14-pin compliant power source (see MillerWelds.com/insight)</td>
<td>• ANY welding power source (old or new)</td>
</tr>
<tr>
<td>What Capability Do You Need?</td>
<td>• Internet connection (wired/wireless)</td>
<td>• PC and Ethernet connection</td>
<td>• ANY brand</td>
</tr>
<tr>
<td></td>
<td>• Productivity monitoring</td>
<td>• Prevent/detect missed welds</td>
<td>• ANY welding process</td>
</tr>
<tr>
<td></td>
<td>• Weld parameter verification</td>
<td>• Minimize overwelding/underwelding</td>
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</tr>
</tbody>
</table>
Insight Core™

Simple, cloud-based welding information management solution that reports operator productivity and deposition, as well as weld parameter verification.

Helps you answer
- Who is your most productive operator?
- What is your most productive welder, station, cell?
- Are your quality risks increasing or decreasing?
- What are your true welding costs?

Software features

Productivity dashboard. Instant visibility of arc-on time and wire deposition — by location, work cell, power source or operator.

Quality dashboard. Real-time analysis and reporting of all welds, revealing when quality fails to meet established thresholds for amps, volts and WFS. Includes weld trace.

Reports. In-depth information is available in reports that can be easily modified and displayed in a wide variety of customizable formats.

Analytics tools. Business analytic tools allowing for weld data analysis based on individual/cell performance as well as overall financial terms.

Notifications. Email/text notifications based on your desired frequency and subject.

Multiple languages available. English, German, Spanish, French, Italian, Dutch, Portuguese and Chinese.

How it works

Simple, cloud-based welding information management solution that reports operator productivity and deposition, as well as weld parameter verification.

How it works

- Internet Connection
- No mandatory subscription fees
- Uses standard web browsers; no software or applications to install or maintain
- Onboard memory for those times when internet connections go down
- Innovative USB setup support for quick installation, easy data transfer and fast firmware updates

Universal brand capability

With an ArcAgent™ module, you can have the power of Insight Core on any machine from any manufacturer, giving you complete coverage of your facility.

Universal brand capability

With an ArcAgent™ module, you can have the power of Insight Core on any machine from any manufacturer, giving you complete coverage of your facility.

Type | Continuum Power Sources | Miller 14-Pin Compliant Power Sources | Universal Adaptable (works with ALL brands/models of power sources)
--- | --- | --- | ---
Factory-Installed Insight Core<br> Continuum 350 (907636) <br> Continuum 500 (907640) <br> Auto-Continuum 350 (907656) <br> Auto-Continuum 500 (907657) | — | —
Field-Installed Insight Core | — | Requires Insight Core 14-pin module (301072) See MillerWelds.com/insight for a list of 14-pin compatible power sources | Requires ArcAgent for Insight Core (951773) with Stud output (951772) with Dinse output²

² Additional stock numbers are available — visit MillerWelds.com/insight.

² SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit (301295).

² TIG applications require TIG Filter (301359) to monitor voltage.

² TIG applications require TIG Filter (301359) to monitor voltage.
Insight Centerpoint™

Advanced, real-time operator feedback solution to prevent missed welds, enforce proper weld sequences and ensure consistent weld quality.

Version 10
• Designed for ease of use
• Faster start up time
• Drastically shortened learning curve

Software features
Part Tracking™ provides real time operator feedback to ensure accurate weld sequence, prevent missed welds and ensure proper weld parameters.
Workflow™ enables you to present electronic work instructions for pre-weld, intra-weld, and post-weld activities (using video, pdf, and more) to ensure consistent standardized production for every operator.
Job tracking. A browser-based user interface eliminates the need for a PC in the workstation, allowing an operator to easily record everything that goes into creating a part.

Benefits for everyone in your operation

- Create a full record of every weld on every part
- Present welders with step-by-step instructions
- Have confidence that parts are properly welded

- Save time inspecting welds
- Identify the impact of non-welding activities
- Keep your welders welding

- Identify the true cost of a welded component
- Collect data to drive decisions
- Stop losing money due to missing or poor welds

For more information:
Call 1-844-463-4328 or email insight@MillerWelds.com

Universal brand capability
With an ArcAgent™ module, you can have the power of Insight Centerpoint on any machine from any manufacturer, giving you a complete picture of your facility.

1 Additional stock numbers are available — visit MillerWelds.com/insight.

<table>
<thead>
<tr>
<th>Type</th>
<th>Continuum Power Sources</th>
<th>Universal Adaptable (works with all brands/models of power sources)</th>
<th>Insight Centerpoint Software</th>
<th>Accessories</th>
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<tr>
<td>Optional</td>
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<td>(951809)</td>
<td>Insight LTD Gun (Q4015JS3EML) For Continuum</td>
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<tr>
<td>Factory-Installed</td>
<td>Continent 350 (907636)</td>
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<td>Insight LTD Remote (301383)</td>
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<td></td>
<td>Continent 500 (907640)</td>
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<td>M12/RJ45 Ethernet Cables (300734)</td>
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<td>Auto-Continuum 350</td>
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<td>9.8 ft. (3 m)</td>
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<td>(907656)</td>
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<td>(300736) 32.8 ft. (10 m)</td>
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<td>Field Application Support (195680)</td>
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<td>(907657)</td>
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<td>Miller field support</td>
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<td>(contact distributor for details)</td>
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<td>Field-Installed</td>
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<td>Requires ArcAgent Manual or Auto</td>
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<td>Insight Centerpoint</td>
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<td>(301343) Manual with front panel Part Tracking controls</td>
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<td></td>
<td>(301345) Manual with Insight torch capability</td>
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<td></td>
<td></td>
<td>(301346) Auto</td>
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## Gasoline

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<thead>
<tr>
<th>Product Guide</th>
<th>Page</th>
<th>Class</th>
<th>Sticks</th>
<th>MIG</th>
<th>Flux-core</th>
<th>AC-Tig</th>
<th>DC-Tig</th>
<th>PAC**</th>
<th>CAC-A</th>
<th>Portability</th>
<th>Weldable Metals</th>
<th>Continuous Generator Pwr. (watts)</th>
<th>Welding Amperage Range</th>
<th>Engine Brand</th>
<th>Special Features</th>
<th>Typical Applications</th>
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<td>Blue Star® 185</td>
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<td>Air compressor, battery charger/crank assist, Auto-Speed™, inverter CC/CV</td>
<td>Service trucks, repair, maintenance, farm/ranch</td>
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<td>Bobcat® 200 Air Pak™</td>
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<td>✓</td>
<td>✓</td>
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<td>Backup power for pivot irrigation</td>
<td>Farm/ranch</td>
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<td>AC/DC, CC/CV, air compressor, battery charger/crank assist</td>
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<td>✓</td>
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<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless aluminum</td>
<td>9,500 – 40-250 DC</td>
<td>Kohler</td>
<td>Most popular engine drive, AC/DC; optional EFI</td>
<td>Fab, maintenance, farm/ranch, construction</td>
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<td>Trailblazer® 325</td>
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<td>10,500 (Gas) – 10-325 DC (Gas)</td>
<td>Kohler</td>
<td>ArcReach® (most models), Auto-Speed™, optional EFI, Excel™ power, battery charger/crank assist</td>
<td>Fab, maintenance, structural, repair, pipe</td>
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<td>Gas or LP</td>
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<td>Lift eye, optional running gear or trailer</td>
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<td>6,500 – 30-210 DC</td>
<td>Kubota</td>
<td>Air compressor, battery charger/crank assist, Auto-Speed™, inverter CC/CV</td>
<td>Service trucks, repair, maintenance, farm/ranch</td>
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<td>Bobcat® 250 Diesel</td>
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<td>✓</td>
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<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless aluminum</td>
<td>9,500 – 40-250 DC</td>
<td>Kubota</td>
<td>Contractor’s choice, AC/DC stick, strong FCAM</td>
<td>Fab, maintenance, farm/ranch, construction</td>
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<tr>
<td>Trailblazer® 325 Diesel</td>
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<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless aluminum</td>
<td>10,500 – 10-325 DC</td>
<td>Kubota</td>
<td>ArcReach®, Auto-Speed™; optional Excel™ power</td>
<td>Fab, maintenance, structural, repair, pipe</td>
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<td>Big Blue® 400 Pro</td>
<td>78</td>
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<td>Lift eye, optional trailer</td>
<td>Steel, stainless aluminum</td>
<td>10,000 – 20-400 DC</td>
<td>CAT, Kubota, Mitsubishi</td>
<td>Quiet, compact, fuel efficient; optional ArcReach®</td>
<td>Construction, repair</td>
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<td>Big Blue® 400 PipePro®</td>
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<td>10,000 – 20-400 DC</td>
<td>CAT, Mitsubishi</td>
<td>ArcReach®, Line-X® top cover, lift-off service door; optional stainless steel</td>
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<td>Big Blue® 450 Duo CST™</td>
<td>79</td>
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<td>Mitsubishi</td>
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<td>Construction, fabrication, pipe</td>
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<td>Big Blue® 500 Pro</td>
<td>80</td>
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<td>Lift eye, generally mounted on optional trailer</td>
<td>Steel, stainless</td>
<td>20,000 – 20-500 DC</td>
<td>Kubota</td>
<td>Quiet, fuel efficient; optional ArcReach®</td>
<td>Construction, repair</td>
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<td>✓</td>
<td>✓</td>
<td>Lift eye, generally mounted on optional trailer</td>
<td>Steel, stainless</td>
<td>20,000 – 20-600 DC</td>
<td>Kubota (Pro), Deutz (Air Pak)</td>
<td>Quiet, powerful, fuel efficient; optional ArcReach® – Air Pak™ model has ArcReach® standard and adds air compressor</td>
<td>Construction, repair, maintenance, mining, rail</td>
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<tr>
<td>Big Blue® 800 Series</td>
<td>81</td>
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<td>Lift eye, generally mounted on optional trailer</td>
<td>Steel, stainless</td>
<td>20,000 – 20-800 DC</td>
<td>Deutz</td>
<td>ArcReach® heavy duty, dual operator – Air Pak™ model adds air compressor</td>
<td>Construction, repair, maintenance, mining, rail</td>
<td></td>
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</table>

### Product Key

- **Class:** Light industrial, Industrial, Heavy industrial
- **Capability:** Designed for this process, Capable of this process
- **New! or Improved! products appear in blue type.**
- *If using self-shielded wire, use CV weld output.** With appropriate Spectrum plasma cutter.

---

For more detailed information, visit MillerWelds.com/enginedriven
Fusion 160  See literature ED/2.8

Delivers a smooth, stable arc from either engine power or 120/240-volt utility power, providing a unique combination of versatility and productivity in a lightweight package.

**Power Shift**

Work anywhere convenience. PowerShift technology provides weld capabilities using either the Fusion 160 gasoline engine or 120/240-volt utility power. You’ll have the confidence of knowing that you can weld virtually anywhere — outdoors and indoors — with just one machine. The multi-voltage plug (MVP*) makes it easy to connect the welder to either 120- or 240-volt power.

**Easier to transport.** At only 242 pounds, the Fusion 160 is up to 45 pounds less than similar machines, so moving it is easier and faster. Less time is spent waiting, and more work can get done.

**Less rework.** Inverter technology delivers a smooth, stable stick arc that’s forgiving of variations in arc length and travel speed, so it’s easier to produce clean welds that meet specifications — and avoid the time and expense of rework.

<table>
<thead>
<tr>
<th>Stock Number (907773) Kohler with electric start</th>
<th>Input Power</th>
<th>Welding Mode</th>
<th>Welding Process</th>
<th>Amperage Range</th>
<th>Rated Output at 104°F (40°C)</th>
<th>Amps Input at Rated Output, 50/60 Hz, 1-Phase</th>
<th>Single-Phase Generator Power at 104°F (40°C)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gasoline</strong></td>
<td>Engine power</td>
<td>CC/DC</td>
<td>DC stick</td>
<td>30–160</td>
<td>160 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle</td>
<td>--</td>
<td>Peak: 6,500 watts Continuous: 6,200 watts</td>
<td></td>
<td>H: 24.75 in. (629 mm) W: 20.125 in. (510 mm) D: 31.25 in. (784 mm)</td>
</tr>
<tr>
<td></td>
<td>PowerShift 120 V</td>
<td>CC/DC</td>
<td>DC stick</td>
<td>30–100</td>
<td>90 A at 23.6 V, 40% duty cycle</td>
<td>22.7</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PowerShift 240 V</td>
<td>CC/DC</td>
<td>DC stick</td>
<td>30–160</td>
<td>160 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle</td>
<td>25.0</td>
<td>--</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Blue Star® 185  See literature ED/2.5

Reliable outdoor portable power! Great for farm, ranch, maintenance, construction and hobbyist.

Compact and portable, its small footprint uses little truck space. Optional running gear also makes the Blue Star one-man portable.

All engine controls are on front panel.

**Stick and TIG capable.**

**Accu-Rated™ peak generator power** is usable for maximum generator loads such as plasma cutting, Millermatic® MIG welders and motor starting.

Includes electric start, 120-volt GFCI and 240-volt receptacles, 6.25-gallon fuel capacity, auto-idle and engine hour meter.

<table>
<thead>
<tr>
<th>Stock Number (907864) Kohler</th>
<th>Welding Mode</th>
<th>Welding Process</th>
<th>Amperage Range</th>
<th>Rated Output at 104°F (40°C)</th>
<th>Single-Phase Generator Power at 104°F (40°C)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gasoline</strong></td>
<td>CC/DC</td>
<td>DC stick/TIG</td>
<td>60–195</td>
<td>185 A at 25 V, 20% duty cycle 150 A at 25 V, 100% duty cycle</td>
<td>Peak: 6,500 watts Continuous: 6,200 watts</td>
<td>H: 24.75 in. (629 mm) W: 20.625 in. (524 mm) D: 31.25 in. (794 mm)</td>
<td>296 lb. (134 kg)</td>
</tr>
</tbody>
</table>
**Bobcat™/Trailblazer®**

Gas Model Comparison — Which is Right for You?

*Based on typical usage — 150 amps welding 40% of the time; 20 amps generator power 30% of the time; and idling without load 30% of the time.

<table>
<thead>
<tr>
<th>Sound Levels (at 23 feet)</th>
<th>Bobcat 225 (page 74)</th>
<th>Bobcat 250 (page 74)</th>
<th>Trailblazer 325 (page 76)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>At Maximum Load / At 150 Amps</strong></td>
<td>73.5 dB / 72 dB</td>
<td>72.5 dB / 72 dB</td>
<td>74 dB / 65 dB</td>
</tr>
<tr>
<td><strong>Sound Quality</strong></td>
<td>Good</td>
<td>Very good</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Fuel System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Typical Runtime per 12-Gallon Tank</strong></td>
<td>13 hours</td>
<td>13 / 15.5 hours with EFI</td>
<td>Up to 21 hours with options</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td>Good</td>
<td>Good / Very good with EFI</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Gasoline</td>
<td>Gasoline or LP</td>
<td>Gasoline or LP</td>
</tr>
<tr>
<td><strong>Delivery</strong></td>
<td>Carburetor</td>
<td>Carburetor or EFI available</td>
<td>Carburetor or EFI available</td>
</tr>
</tbody>
</table>

| Generator | | | |
|**Key Features** | | | |
| **Peak Watts** | 11,000 watts | 11,000 / 12,000 watts with EFI | 12,000 watts |
| **Clean Power Quality** | Very good / Excellent | Very good / Excellent | Excellent |
| **Power While Welding** | Fair / Good — With voltage control set near maximum | Good — Easier to fine-tune with arc voltage control near maximum | Independent weld and generator power with no interaction between tools and welding arc |
| **Excel® Power Generator (120 V, 60 Hz at all engine speeds)** | Fair / Good — With voltage control set near maximum | Good — Easier to fine-tune with arc voltage control near maximum | Independent weld and generator power with no interaction between tools and welding arc |
| **Weld Performance** | | | |
| **Stick** | Good / Very good | Good | Excel power available |
| **MIG — Wire (solid / FCAW), Steel** | Fair (.035 in.) | Good (.035 – 1/16 in.) | Excellent (023 – 1/16 in.) |
| **MIG — Wire, Aluminum w/ Spool Gun** | Fair / Good (add WC-115A with contactor) | Good (add WC-115A with contactor) | Excellent (add WC-24) |
| **DC TIG (steel)** | Good | Very good | Excellent |
| **AC Weld** | 60 – 160 amps | 40 – 250 amps | Add Dynasty® (page 54) |
| **Carbon Arc Gouging** | Good | — | Very good |
| **Costs to Carbons: Rated 3/16 in.** | — | — | Carbons: Rated 3/16 in., Capable 1/4 in. |

**Bobcat: The most popular welder/generator**

- Dependable power and weld output
- Cost-effective multiprocess welder/generator
- Easy to maintain
- Quietest in its class

**Trailblazer: The best performer in the industry**

- Unbeatable arc performance
- Independent welder and generator power system
- Exclusive technologies — Auto-Speed™ and Excel™ power
- Most fuel efficient and quietest in its class

**Bobcat™/Trailblazer®/Big Blue®**

Air Pak® Comparison — Which is Right for You?

**Cost-effective welder/generator / air compressor / battery charger**

- Bobcat 200 Air Pak (page 73)
  - Compressed Air
    - 30 cfm, 175 psi
  - Battery Charge / Crank Assist
    - 12 and 24 volt
  - Generator Power
    - Single-phase: Peak: 8,000 watts
      Continuous: 6,500 watts
    - Three-phase: —
  - Weld Output Range
    - 30 – 210 amps
      (CV/DC, CC/DC)
  - Fuel Type
    - Gas / Diesel
  - Size
    - 29.78 x 20 x 44.61 in. (gas)
    - 29.75 x 20 x 47.25 in. (diesel)
  - Weight
    - 514 lb. (gas), 618 lb. (diesel)

**AC/DC multiprocess welder/generator / air compressor / battery charger**

- Bobcat 302 Air Pak (page 78)
  - Compressed Air
    - 31 cfm, 180 psi
  - Battery Charge / Crank Assist
    - 12 and 24 volt
  - Generator Power
    - Single-phase: Peak: 13,000 watts
      Continuous: 11,000 watts
    - Three-phase: —
  - Weld Output Range
    - 10 – 300 amps
      (CV/DC, CC/DC, CC/AC)
  - Fuel Type
    - Gas / Diesel
  - Size
    - 28 x 20 x 59.625 in.
  - Weight
    - 771 lb.

**Quiet and powerful multiprocess welder/generator / air compressor**

- Big Blue 600 Air Pak (page 80)
  - Compressed Air
    - 60 cfm, 100 psi
  - Battery Charge / Crank Assist
    - —
  - Generator Power
    - Single-phase: Peak: 15,000 watts
      Continuous: 12,000 watts
    - Three-phase: —
  - Weld Output Range
    - 20 – 600 amps
      (CV/DC, CC/DC)
  - Fuel Type
    - Gas / Diesel
  - Size
    - 46 x 28.5 x 69.5 in.
  - Weight
    - 2,040 lb.

**Heavy-duty, dual-operator welder/generator / air compressor**

- Big Blue 800 Duo Air Pak (page 81)
  - Compressed Air
    - 60 cfm, 100 psi
  - Battery Charge / Crank Assist
    - —
  - Generator Power
    - Single weld mode: 40 – 800 amps
      (CV/DC, CC/DC)
    - Dual weld mode: 20 – 400 amps
      (CV/DC, CC/DC)
  - Fuel Type
    - Diesel
  - Size
    - 46 x 28.5 x 69.5 in.
  - Weight
    - 2,095 lb.
Bobcat™ 200 Air Pak™

Quiet, fuel-efficient all-in-one that maintains power capabilities in a compact, lightweight footprint and is backed by industry-leading reliability and performance.

Maximize available payload. Reduce weight by up to 600 pounds and increase available payload by up to 24 cubic feet by reducing the equipment on the truck.

Reduce fuel consumption. Minimize fuel costs by reducing truck engine idle time by as much as 75 percent, or if you have a separate engine-driven compressor by only operating one engine.

Minimize operating costs. Potentially save more than $50,000 over ten years from increased fuel efficiency, decreased maintenance costs and increased asset life.

Advanced Auto-Speed™ technology automatically adjusts engine speed to match weld and battery charge demands — reducing fuel consumption, maintenance costs and noise for more efficient jobsites.

Industrial rotary-screw air compressor. Easily outperforms and outlasts reciprocating compressors. Many air tools can be powered by the compressor including most 3/4-inch impact wrenches. Immediately supplies 30 cfm at 175 psi, 100 percent duty cycle, continuous air output.

210-amp welder. Maximize downtime and delays by making metal repairs in the field to stay on schedule.

6,500-watt generator power to support jobsite tools, lights, and high-demand applications like plasma cutters and TIG welders.

Battery charge/crank assist. Provides up to 100 amps at idle to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 300 amps of crank assist.

**Features**

- Industrial rotary-screw air compressor
- 210-amp welder
- 6,500-watt generator
- Advanced Auto-Speed™ technology
- Battery charge/crank assist

**Technical Specifications**

- **Gasoline**
  - Model: Bobcat 200 Air Pak (907771) Kohler
  - Model: Bobcat 200 Air Pak Diesel (907780) Kubota

- **Diesel**
  - Model: Bobcat 200 Air Pak (907771) Kohler
  - Model: Bobcat 200 Air Pak Diesel (907780) Kubota

- **Amp/Volt**
  - Ranges: 30–210 A
  - Ranges: 15–26 V

- **Rated Weld Output**
  - CC/DC: 120 A at 25 V, 100% duty cycle
  - CC/DC: 140 A at 26 V, 60% duty cycle
  - CC/DC: 210 A at 28 V, 20% duty cycle

- **Single-Phase Generator Power**
  - 8,000 watts at 104°F (40°C)
  - 6,500 watts at 104°F (40°C)

- **Dimensions**
  - H: 24.25 in. (616 mm)
  - W: 20 in. (508 mm)
  - D: 44.61 in. (1,133 mm)

- **Net Weight**
  - 514 lb. (233 kg)
  - 618 lb. (280 kg)

**Additional Features**

- Rotorcomp Air Compressor
- Features: Rotary screw with electric clutch for on/off, oil change intervals 500 hours
- Free Air Delivery: 30 cfm (0.85 m³/min.) at 3,600 rpm
- Working Pressure: 80–175 psig
- Duty Cycle: 100%
- Oil Capacity: 2 qt. (1.89 l)

**Light industrial**

**Process**
- Stick (SMAW) • MIG (GMAW)¹
- Flux-cored (FCAW) • DC TIG (GTAW)²

¹With voltage-sensing feeder.
²Two-piece TIG torch recommended.

**Engines**
- EFI gas: Kohler ECH730
  - 23.5 hp at 3,600 rpm
- Twin-cylinder, four-cycle, overhead valve, industrial, air-cooled
- EPA Tier 4 Final Diesel: Kubota D722
  - 19 hp at 3,600 rpm
- Three-cylinder, industrial, liquid-cooled

**Most popular accessories**
- ArcReach® SuitCase® Feeders (pg 18)
- Spoolmate™ 200 300497 (pg 27)
- Multi-Terrain Running Gear 301460 (pg 116)
- Spool Gun Extension Hose and Cable Kit 132228

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Bobcat™ Series Gas, LP and Diesel

The legendary Bobcat welder/generator is reliable, powerful and durable. One of the smallest and lightest in its class.

**Versatile AC and DC welding**

*Provides AC and DC welding output* for greater versatility and quality welds on all types of metals. DC is smooth and easy to run while AC stick is used when arc blow occurs.

**Stronger generator power**

11,000 watts (12,000 on Bobcat 250 with EFI) of truly usable generator power that is Accu-Rated®, not inflated – tested to deliver uninterrupted peak output for a minimum of 30 seconds for big loads, so you can get more jobs done.

*Advanced generator technology* virtually eliminates power spikes and other electrical imperfections so welds are cleaner and jobsite tools can run without interruption, maximizing quality, productivity and profit.

**Easier maintenance**

*Easy-to-read front panel maintenance displays* show engine hours and hours left before an oil change is due. This intuitive design makes maintenance fast and easy.
- Oil checks from the top by the front panel
- Toolless panels that allow for quick access
- Single-side fuel fill and oil drain/filter

**Quieter and better sound**

*Up to 33 percent sound reduction.* Significant improvements in sound level and quality offer better jobsite communication, which provides a more efficient working environment for you and your crew. Bobcat welder/generators have rotated the engine toward the front to create more efficient airflow, resulting in significantly quieter operation. Now you can start your job earlier in the day and end it later, as well as work around hospitals, businesses, and residential areas.

**More portable, uses less truck space**

*Smaller and lighter.* Up to 17 percent less cubic space and weighing up to 100 pounds less than other welder/generators in their class — means moving Bobcat welder/generators is faster and easier, for maximum productivity. Bobcat welder/generators take up less space on trucks and trailers — leaving more room on your truck for other equipment and tools. Plus, they’re easier to move safely around jobsites — even with weld cables and running gear attached.
Bobcat™ 225 (Gas) See literature ED/4.4

Cost-effective, multiprocess welder/generator primarily used for stick welding. Great for farm, ranch, maintenance/repair and as a stand-alone generator.

Features three DC stick/TIG controls, one AC stick/TIG control and one wire range for output control. Stick ranges designed for 3/32, 1/8 and 5/32 inch. Very easy to set.

Bobcat™ 3 Phase (Gas) See literature ED/4.33

Designed for farm and ranch owners in need of single- and three-phase power to run 480-volt three-phase pivot irrigation systems or to provide backup power for home, farm and/or ranch.

Bobcat™ 250 (Gas, LP or Diesel) See literature ED/4.4 (Gas/LP) and ED/4.34 (Diesel)

Multiprocess engine-driven welder/generator capable of carbon arc gouging features a larger stabilizer for less spatter and smoother arc. Ideal welder/generator for maintenance/repair, construction, farm/ranch or as a stand-alone generator.

Convenient front panel fuel gauge.

More precise amperage settings with wider range for optimal stick/flux-cored welding.

Features four AC/DC stick/TIG controls and two wire ranges for output control. Stick ranges designed for 3/32, 1/8, 5/32 and 3/16 inch. Very easy to set.

Add optional electronic fuel injection (EFI) — improved fuel efficiency for maximum productivity and profitability

Adding EFI to your Bobcat 250 welder/generator provides multiple benefits. With EFI you’ll get faster, more reliable starts in any weather — no choke adjustments needed. EFI-equipped Bobcat 250 machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you’ll spend more of your time welding, improving productivity.

*Electric fuel pump recommended for operation at altitudes above 5,000 feet.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Welding Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 104°F (40°C)</th>
<th>Generator Power at 104°F (40°C)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobcat 225 (Gas)</td>
<td>(907498001) Kohler</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>60-160 A</td>
<td>150 A at 25 V, 100% duty cycle</td>
<td>Single-phase: Peak: 11,000 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>485 lb. (220 kg)</td>
</tr>
<tr>
<td>Gasoline</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobcat 3 Phase (Gas)</td>
<td>(907565) Kohler with GFCI</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40-225 A</td>
<td>200 A at 25 V, 100% duty cycle</td>
<td>Single-phase/three-phase: Peak: 11,000 watts</td>
<td>D: 40.5 in. (1,029 mm)</td>
<td>495 lb. (225 kg)</td>
</tr>
<tr>
<td>Gas or LP</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Bobcat 250 (Gas)</td>
<td>(907500001) Kohler</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 60% duty cycle</td>
<td>Single-phase: Peak: 11,000 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>501 lb. (227 kg)</td>
</tr>
<tr>
<td>Diesel</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobcat 250 Diesel</td>
<td>(907565) Kubota with GFCI</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 60% duty cycle</td>
<td>Single-phase: Peak: 11,000 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>638 lb. (290 kg)</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>
Trailblazer® Series Gas, LP and Diesel
See lit. ED/4.75 (Gas/LP) and ED/4.8 (Diesel)

Trailblazer welder/generators deliver unbeatable arc performance providing the smoothest, most stable arc in the industry. Miller-exclusive Auto-Speed™ technology (now with 1,800 rpm level on diesel model) delivers superior runtimes, increased fuel efficiency, and improved welder/generator performance.

ArcReach® remote control technology
Standard on most models (see page 77 chart) — remote control of the power source without a control cord.

An ArcReach system allows you to change weld settings from your ArcReach feeder or remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs. Learn more at MillerWelds.com/arcreach

Unbeatable arc performance
Dynamic DIG™ technology automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

Increased performance at high altitude
Electric fuel pumps are now standard on all EFI models leading to better performance when operating at altitudes of 5,000 feet or greater.

More productive jobsites
Quieter jobsites are more productive because work crews can communicate easier, and work can start earlier and end later — even in noise-sensitive areas.

Auto-Speed™ technology
Get the welding power you need — plus reduced fuel consumption and lower noise levels for a more profitable jobsite. Trailblazer-exclusive Auto-Speed technology responds to weld requirements by automatically adjusting engine speed to a corresponding rpm level so the engine never works harder than necessary. Refueling time and operating costs are reduced, which means more productivity and profitability. Auto-Speed technology — available only from Miller.
Options to Maximize Your Trailblazer 325 Performance

Electronic fuel injection EFI (gas models)
Adding EFI to your Trailblazer welder/generator adds multiple benefits. With EFI, you'll get faster, more-reliable starts in any weather — no choke adjustments needed. EFI-equipped Trailblazer machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you'll spend more of your time welding, improving productivity.

Add Excel power to your Trailblazer with EFI for maximum fuel-efficiency.

Excel power
Excel power delivers a full 2,400 watts (20 A) of 120-volt inverter-based, pure sine wave power at all speeds, including idle. Unlike competitive machines that provide auxiliary power only at 3,600 rpm (max), with Excel power you can operate jobsite tools like grinders at quiet, fuel-saving speeds.

Refueling time and operating costs are reduced with Excel power, which means more productivity and profitability. Plus everyone on the jobsite gets a better working environment because noise levels and exhaust emissions are lowered. Excel power — available only from Miller.

Battery charge/crank assist (option on gas models)
Reduce downtime with battery charge/crank assist capability. Designed and recommended for mechanics or anyone responsible for a fleet of trucks or equipment. By using your Trailblazer to charge dead batteries or jump a stubborn engine, you'll keep your crew working and the fleet up and running. Provides up to 75 amps of DC current to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 150 amps welding 40% of the time; 20 amps generator power 30% of the time; and idling without load 30% of the time.

Based on typical usage — 150 amps welding 40% of the time; 20amps generator power 30% of the time; and idling without load 30% of the time.

Note: Battery charge/jump cables (300422) must be ordered separately.

*Electric fuel pump recommended for operation at altitudes above 5,000 feet.
**For LP models order Hose and LP Tank Mounting Assembly (300917) separately.
**Trailblazer® 302 Air Pak**

Powerful all-in-one tool designed for repair and construction with multiprocess weld quality, generator power, air compressor and battery charge/crank assist.

**Superior arc performance.** Preset DIG settings optimized for the majority of stick welding applications, best-in-class wire arc performance, and two Lift-Arc™ TIG modes for most DC TIG applications.

**Strongest combined generator/compressor power.** Delivers an industry-leading 13,000 watts of peak generator power independent of weld settings — can power a Spectrum® 875 plasma cutter, and provide air for plasma cutting at the same time (rated 1/2-inch mild steel).

**Rotary screw air compressor.** Delivers up to 31 cfm and 160 psi with no storage tank and runs many tools at idle speed. Provides 100 percent deliverable air, rated at an industry-high 104 degrees Fahrenheit. Front panel adjustment and automatic overpressure shutdown with indication. 30,000-hour life expectancy and warranted for three years by Miller.

**Battery charge/crank assist.** Provides selectable 12- or 24-volt battery charging with up to 450 amps of battery crank assist capability. Convenent front panel access.

*Note: Battery charge/jump cables (300422) must be ordered separately.*

---

**Big Blue® 400 Pro**

The professional welder’s choice — designed with the professional in mind, the Big Blue 400 Pro is the best for ease of use, reliability and fuel economy.

**ArcReach**

Available on select models. Remote control of the power source without a control cord. See page 76 for more information.

**Dynamic DIG™ technology** automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**10,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc!

**Quiet operation.** Only 71.6 decibels (96 Lwa) under full load. Improves jobsite communication and safety.

**Standard features** include digital meters with SunVision™, automatic idle, adjustable Hot Start™, output contactor control and 120-volt block heater.

---

**Stock Number**

Integrated Gasoline Engine

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Engine Type</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907549001)</td>
<td>CAT 496</td>
<td>771 lb</td>
<td>771 lb</td>
</tr>
<tr>
<td>(907549002)</td>
<td>Kubota V1505</td>
<td>105 lb</td>
<td>771 lb</td>
</tr>
<tr>
<td>(907549003)</td>
<td>Mitsubishi</td>
<td>116 lb</td>
<td>771 lb</td>
</tr>
</tbody>
</table>

**Heavy industrial**

**Processes**

- AC/DC stick (SMAW)
- MIG (GMAW)
- Flux-cored (FCAW)
- Dynamic DIG™ TIG (GTAW)
- Air carbon arc cutting and gouging (C-A) (rated 3/16 in. carbons, capable 1/4 in. carbons)
- With wire feeder.
- With DynaTig® Series.
- Two-piece TIG torch recommended.

**Gasoline engine**

CAT: 24.7 hp at 1,800 rpm

**Most popular accessories**

- SuitCase® Feeders (pg 18)
- Spoolmatic™ 30A/WC-24 Control 130831/137549 (pg 28/122)
- 25 ft. Battery Charge/Jump Cables with Plug 300422

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

---

**Stock Number**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Engine Type</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907774001)</td>
<td>CAT 77</td>
<td>1,038 lb</td>
<td>771 lb</td>
</tr>
<tr>
<td>(9077732001)</td>
<td>Kubota V1505</td>
<td>24.7 hp</td>
<td>771 lb</td>
</tr>
<tr>
<td>(9077733001)</td>
<td>Mitsubishi</td>
<td>24.7 hp</td>
<td>771 lb</td>
</tr>
</tbody>
</table>

**Heavy industrial**

**Processes**

- Stick (SMAW)
- MIG (GMAW)
- Flux-cored (FCAW)
- DC TIG (GTAW)
- RMD™ Pulsed MIG (GMAW-P)
- Air carbon arc cutting and gouging (C-A) (rated 3/16 in. carbons)
- With wire feeder.
- ArcReach models only with ArcReach Smart Feeder.

**Diesel engines**

**Heavy industrial**

**Processes**

- Stick (SMAW)
- MIG (GMAW)
- Flux-cored (FCAW)
- DC TIG (GTAW)
- RMD™ Pulsed MIG (GMAW-P)
- Air carbon arc cutting and gouging (C-A) (rated 3/16 in. carbons)
- With wire feeder.
- ArcReach models only with ArcReach Smart Feeder.

**Most popular accessories**

- SuitCase® Feeders (pg 18/46)
- ArcReach® Smart Feeder (pg 18/46)
- ArcReach® Stick/TIG Remote (pg 46)
- Protective Cover 195301 (pg 116)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
**Big Blue® 400 PipePro®**

Designed for the transmission pipeline welder — the Big Blue 400 PipePro offers superior downhill stick arc characteristics, as well as MIG/flux-cored capabilities, to meet high-strength steel requirements for the most demanding pipeline jobs.

*ArcReach™* Standard on all models. Remote control of the power source without a control cord. See page 76 for more information.

**Dynamic DIG® technology** automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**10,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc!

**Compact size and weight** optimizes truck space.

**LINE-X® cover** provides superior impact, corrosion and abrasion protection.

**Quiet operation.** Only 72.1 decibels (97 Lwa) under full load. Improves jobsite communication and safety.

**Standard features** include ArcReach technology, digital meters with SunVision®, automatic idle, adjustable Hot Start®, output contactor control, 120-volt block heater, engine coolant temperature gauge and lift-off service door. Also available with optional stainless steel enclosure.

---

**Big Blue® 450 Duo CST™**

Durable dual-operator welder/generator delivers proven CST 280 stick/TIG performance for maximum productivity and efficiency. Two separate outputs powered by one low-speed diesel engine delivers up to 280 amps of output per operator.

**Two superior arcs** in one compact package. See CST 280 (page 50) for additional details.

**Quiet operation.** At 72.1 decibels (97 Lwa) under full load, it’s quieter than most single-operator models. Improves jobsite communication and safety.

**Vandalism lockout kit (not shown).** Lockable hinged steel panel protects front control and ignition switch.

**Simple-to-operate process selector knob automatically sets proper DIG setting** on E6010 and E7018 electrodes, providing superior stick performance.

**Lift-Arc™** start for TIG starts without the use of high frequency.

**Remote amperage control** permits the use of standard and wireless amperage control devices.

**Increased efficiency.** More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.
Big Blue® 500 Pro and 600 Series

See literature ED/11.0 (500) and ED/11.5 (600)

Clean, quiet, multiprocess machines designed to give welders the output they need for heavy-duty applications on construction and fabrication sites.

Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts, and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing.

Dynamic DIG™ technology automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

Industrial USB port. Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

20,000 watts of pure generator power. Plug in extra Miller® inverter-based power sources for additional welding arcs!

Standard features include digital meters with SunVision™, adjustable Hot Start™, output contactor control, automatic idle, thermal overload protection and 120-volt block heater.

Deluxe and Air Pak models add ArcReach, a polarity reversing switch and a vandalism lockout kit (protects control panel and receptacles).

Ingersoll Rand ultra-reliable industrial rotary screw compressor (Air Pak model only). 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air — allows greater fuel savings and longer compressor service intervals.

Processes

- Stick (SMAW) • MIG (GMAW)
- Flux-cored (FCAW®) • DC TIG (GTAW)
- RMD® • Pulsed MIG (GMAW-P)
- Air carbon arc cutting and gouging (CAC-A) (500: rated 5/16 in. carbons; 600: rated 3/8 in. carbons)

 Diesel engines

EPA Tier 4 Final choices

500 and 600 Pro: Kubota V2403
48.9 hp at 1,800 rpm
Turbo-charged, four-cylinder, industrial, liquid-cooled

600 Air Pak: Deutz TBD2.9 L4
65.7 hp at 1,800 rpm
Turbo-charged, four-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase® Feeders (pg 18/46)
- ArcReach® Smart Feeder (pg 18/46)
- ArcReach® Stick/TIG Remote (pg 46)
- Dynasty 210ª Series (pg 54)
- Full KVA Adapter Cord (pg 116)
- Full KVA Plug Kit (pg 116)
- Protective Cover (pg 116)
- HW-225 Trailer 301338 (pg 117)
- Wireless Remote Hand Control/ Wireless Antenna Kit 300430/300749 (pg 121)
- Desiccant Air Dry System 301459 Kubota 301113 Deutz
- Cold Weather Kit 301482
- Spark Arrestor Kit 195012

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Mode/Process</th>
<th>Amp./Volt Ranges</th>
<th>Rated Output at 104°F (40°C)</th>
<th>Generator Power at 104°F (40°C)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Blue 500 Pro</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–500 A</td>
<td>400 A at 36 V, 100% duty cycle</td>
<td>Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts</td>
<td>H: 46 in. (1,168 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)</td>
<td>1,750 lb. (794 kg)</td>
</tr>
<tr>
<td>(907736) Kubota</td>
<td></td>
<td></td>
<td>450 A at 38 V, 100% duty cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(907736001) Deluxe</td>
<td></td>
<td></td>
<td>500 A at 40 V, 100% duty cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>model</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Blue 600 Pro</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–600 A</td>
<td>600 Pro: 500 A at 40 V, 100% duty cycle 550 A at 42 V, 60% duty cycle 600 A at 42 V, 40% duty cycle</td>
<td>Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts</td>
<td>H: 46 in. (1,168 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)</td>
<td>1,750 lb. (794 kg)</td>
</tr>
<tr>
<td>(907737) Kubota</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(907737001) Deluxe</td>
<td></td>
<td></td>
<td>600 Pro: 500 A at 40 V, 100% duty cycle 550 A at 42 V, 60% duty cycle 600 A at 42 V, 40% duty cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>model</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Blue 600 Air Pak</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–600 A</td>
<td>600 Air Pak: 500 A at 40 V, 100% duty cycle 575 A at 43 V, 100% duty cycle 600 A at 44 V, 60% duty cycle</td>
<td>Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts</td>
<td>H: 46 in. (1,168 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)</td>
<td>2,040 lb. (925 kg)</td>
</tr>
<tr>
<td>(907750) Deutz</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ingersoll Rand CE55 G1 Air Compressor (Air Pak model only)

<table>
<thead>
<tr>
<th>Features</th>
<th>Free Air Delivery</th>
<th>Working Pressure Constant</th>
<th>Duty Cycle</th>
<th>Oil Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours</td>
<td>Idle: 40 cfm (1.13 m³/min.)</td>
<td>100 psig (7 bar)</td>
<td>100%</td>
<td>4 qt. (3.79 L)</td>
</tr>
</tbody>
</table>
Big Blue® 800 Series

The most powerful lineup of diesel welder/generators in the industry. All offer robust output for welding and power generation, and are ideal for dual-operator applications on labor intensive jobsites or jobsites with limited space.

Multi-arc welding. One dependable engine — two independent arcs with up to 400 amps each. Or plug in additional inverters for a true multioperator work platform! Example: Two additional XMT machines equals four operators, up to 200 amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multioperator welding has never been easier or more versatile.

Increased efficiency. More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.

Simple paralleling switch makes switching from a single operator to dual operators a breeze. Weld up to 400 amps per side when set up in dual-operator mode, or up to 800 amps in single-operator mode.

Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing. Air Pak model adds air pressure and compressor hours displays.

Dynamic DIG® technology automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

Industrial USB port. Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

20,000 watts of pure generator power. Plug in extra Miller® inverter-based power sources for additional welding arcs!

Standard features include ArcReach technology, digital meters with SunVision®, automatic idle, 120-volt block heater and vandalism lockout kit (protects control panel and receptacles).

Ingersoll Rand ultra-reliable industrial rotary screw compressor (Air Pak® model only), 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air—allows greater fuel savings and longer compressor service intervals.

<table>
<thead>
<tr>
<th>Model/Stock Number*</th>
<th>Welding Mode/Process</th>
<th>Output Mode</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 100% Duty Cycle at 104°F (40°C)</th>
<th>Generator Power at 104°F (40°C)</th>
<th>Generator Power at 104°F (40°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel</td>
<td>CC/DC (Stick/TIG)</td>
<td>Separate (dual outputs)</td>
<td>20–400 A</td>
<td>400 A at 36 V (each side)</td>
<td>Three-phase</td>
<td>Peak: 27,000 watts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paralleled (combined)</td>
<td>40–800 A</td>
<td>700 A at 44 V, 800 A at 38 V</td>
<td>Continuous: 20,000 watts</td>
<td>Single-phase</td>
</tr>
<tr>
<td></td>
<td>CV/DC (MIG/FCAW)</td>
<td>Separate (dual outputs)</td>
<td>14–50 V</td>
<td>400 A at 34 V (each side)</td>
<td>Continuous: 15,000 watts</td>
<td>Single-phase</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paralleled (combined)</td>
<td>14–50 V</td>
<td>750 A at 40 V, 800 A at 38 V</td>
<td>Continuous: 12,000 watts</td>
<td></td>
</tr>
</tbody>
</table>

Ingersoll Rand CE55 G1 Air Compressor (Air Pak® model only)

- Features: Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours
- Approximate Free Air Delivery: Idle: 40 cfm (1.13 m³/min.)
- Working Pressure Constant: 100 psig (7 bar)
- Duty Cycle: 100%
- Oil Capacity: 4 qt. (3.79 L)

*Big Blue 800 Duo Air Pak has welder truck specific models available – visit MillerWelds.com or your distributor.
Submerged Arc

Miller offers an array of versatile submerged arc components, including power sources, controls, wire drives, torches, tractors and a variety of other accessories.

SubArc Digital Series  See literature AD/7.3

The SubArc Digital Series of power sources, interface controls and accessories include digital control and communication electronics designed to improve weld performance and simplify the integration of the equipment in more advanced applications.

Two DC power source models and one AC/DC power source model. Power sources have sufficient power capacity to cover applications from traditional DC single-arc to multi-wire tandem welding. In the case of electroslag welding or other high-current demand, two or more power sources can easily be paralleled (both DC and AC/DC machines).

Low-voltage accessory operation and improved environmental protection. The Digital Series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated providing a high level of protection for harsh environments.

Easy to integrate. Our SubArc power sources are easy to integrate by using a standard Modbus® connection. All power sources feature thermal overload protection, line voltage compensation and Fan-On-Demand.*

*While idling.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage Range (CC Mode)</th>
<th>Voltage Range (Sub Arc Mode)</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 60 Hz</th>
<th>Max Open-Circuit Voltage</th>
<th>Dimensions (Includes lift eye, but not strain relief)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc DC 650 Digital (907622)</td>
<td>50–815 A</td>
<td>20–44 V</td>
<td>650 A at 44 V, 100% duty cycle</td>
<td>126 63 50.4 50 43.8 3.8* 1.9* 1.4* 1.52* 0.76*</td>
<td>75 Vpk</td>
<td>H: 30 in. (762 mm) W: 23 in. (584 mm) D: 38 in. (965 mm)</td>
<td>593 lb. (269 kg)</td>
</tr>
<tr>
<td>SubArc DC 1000 Digital (907624)</td>
<td>100–1,250 A</td>
<td>20–44 V</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>180 90 72 73 53 5.8* 2.9* 2.4* 3.2* 0.5*</td>
<td>68 Vpk</td>
<td>H: 30 in. (762 mm) W: 23 in. (584 mm) D: 38 in. (965 mm)</td>
<td>682 lb. (309 kg)</td>
</tr>
<tr>
<td>SubArc AC/DC Digital (907620)</td>
<td>300–1,250 A</td>
<td>20–44 V</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>– 122 – 98 53 – 3.0* – 2.37* 0.95*</td>
<td>93 Vpk</td>
<td>H: 43 in. (1,092 mm) W: 28 in. (711 mm) D: 46 in. (1,219 mm)</td>
<td>1,187 lb. (538 kg)</td>
</tr>
</tbody>
</table>

MillerWelds.com or your distributor for other Miller® options and accessories.
SubArc Interface Control

See literature no. AD/7.3

Easier setup and operation. The SubArc Interface Digital control recognizes the power source and wire drive connected, and automatically configures the system for proper operation.

Internal terminal strip is able to integrate with positioners, sidebeams, turning rolls and other peripheral equipment.

Most popular accessories
- SubArc Control Cables (pg 119)
  - 260622030 30 ft. (9.1 m)
  - 260622050 50 ft. (15 m)
  - 260622060 60 ft. (18.3 m)
  - 260622080 80 ft. (24.4 m)
  - 260622100 100 ft. (30.5 m)
  - 260622120 120 ft. (36.6 m)
  - 260622200 200 ft. (61.0 m)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power from Welding Power Source</th>
<th>Welding Power Source Type</th>
<th>Weld Voltage and Amperage Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc Interface Digital (300936)</td>
<td>24 VAC, 1-phase, 25 A, 50/60 Hz</td>
<td>Constant voltage (CV), AC or DC, with remote contactor and output control capabilities</td>
<td>0–100 V 0–1,500 A</td>
<td>H: 11.5 in. (292 mm) W: 12 in. (305 mm) D: 7 in. (178 mm)</td>
<td>15.8 lb. (7.2 kg)</td>
</tr>
</tbody>
</table>

SubArc Remote Operator Interface

See literature AD/7.3

Point-of-use installation. Remote Pendant can be handheld or secured at point of use to improve operation.

Remote installation. Motor Control can be remotely installed, resulting in reduced cables at the operator workstation.

Side handles on Remote Pendant provides option for handheld operation with full functionality of a traditional SubArc Interface.

Most popular accessories
- SubArc Control Cables (see pg 119 for complete list)
  - 260622030 30 ft. (9.1 m)
  - 260622050 50 ft. (15 m)
  - 260622080 80 ft. (24.4 m)
- Continuum™ Control/Motor Cables (see pg 119 for complete list)
  - 263368015 15 ft. (4.6 m)
  - 263368025 25 ft. (7.6 m)
  - 263368050 50 ft. (15 m)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power from Welding Power Source</th>
<th>Welding Power Source Type</th>
<th>Weld Voltage and Amperage Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc Motor Control Digital (301425)</td>
<td>24 VAC, 1-phase, 25 A, 50/60 Hz</td>
<td>Constant voltage (CV), AC or DC, with remote contactor and output control capabilities</td>
<td>0–100 V 0–1,500 A</td>
<td>H: 11.5 in. (292 mm) W: 12 in. (305 mm) D: 7 in. (178 mm)</td>
<td>15.8 lb. (7.2 kg)</td>
</tr>
<tr>
<td>SubArc Remote Pendant Digital (301424)</td>
<td>42 VDC, 1 A</td>
<td></td>
<td></td>
<td>H: 11 in. (279 mm) W: 10.63 in. (270 mm) D: 3.125 in. (80 mm)</td>
<td>3 lb. (1.4 kg)</td>
</tr>
</tbody>
</table>

Miller recommends

Customers count on Hobart® to provide an exceptional level of expertise and commitment in developing unique filler metal and flux solutions with them to meet current and future challenges.

Rely on Hobart for submerged arc applications and all your welding needs.

Visit HobartBrothers.com or your local distributor to learn more.

Questions? Hobart is here to help.
SubArc Wire Drive 400 Digital Low Voltage

SubArc Wire Drive 400 Digital Low Voltage is a standard-speed, right-angle wire drive assembly.

- Stock Number (300938)
- Input Power: 38 VDC
- Input Power Cord: 4 ft. (1.2 m)
- Rating: 1/5 hp, 85 rpm
- Wire Feed Speed: 30–400 ipm (0.8–10.2 m/min.)
- Wire Diameter Capacity: 3/32–3/16 in. (2.4–4.8 mm)
- Input Power Cord: 4 ft. (1.2 m)
- Net Weight: 26 lb. (11.8 kg)

SubArc Torches

- OBT 600 torch has concentric flux flow nozzle. 600 amps at 100 percent duty cycle. For use with 1/16–5/32 inch (1.6–4.0 mm) wire.
- OBT 1200 torch has concentric flux flow nozzle. 1,200 amps at 100 percent duty cycle. For use with 1/16–5/32 inch (1.6–4.0 mm) wire. OBT 1200 features a replaceable breakaway adapter end to prevent costly damage should torch run into an obstruction.
- 1200-Amp Twin-Wire Torch (long). 1,200 amps at 100 percent duty cycle. For use with 3/64–3/32 inch (1.2–2.4 mm) wire.

SubArc Flux Hopper

- Improved flux delivery system. Our SubArc Flux Hopper Digital Low Voltage utilizes a flux valve mechanism that assures continuous delivery of flux to the arc.
- Sight glass allows the weld operator to visually monitor the remaining flux in the hopper.
- Versatile opening is sized to allow hookup of any flux-hopper-mounted recovery system.
- Includes slag screen to capture fused slag particles from entering the flux hopper.
SubArc 3-Wheel Tractor

See literature AD/7.7

Easy-to-use foot- or hand-operated clutch allows for easy engagement of tractor drive and disengagement to move tractor into position.

Flexible mast configuration allows torch to be positioned in multiple weld zones and adapts to your weld application.

SubArc Tractor Interface Digital provides easy-to-operate single control for power source and tractor operation.

Regulated travel speed ensures your actual and set travel speeds are consistent, improving weld quality.

Locking front wheel can be set in place to desired travel path.

Easily accommodates a 60-pound (27 kg) wire reel for fewer time-consuming wire changeovers.

Low-voltage operation and improved environmental protection. The new digital series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated providing a high level of protection for harsh environments.

SubArc Portable Welding System

See literature AD/7.6

Self-contained system for pressure vessel, pipe and general welding applications. Houses a power source, column and boom on a mobile platform.

Built-in fork pockets and caster wheels allow welding system to be brought to the joint.

Easy positioning of the weld head through use of integrated motorized column, manual telescoping boom, slide and 360-degree column rotation.

Motorized column with pendant control and manual telescoping boom provides 44 inches (1,117 mm) of vertical travel and 31 inches (787 mm) of horizontal travel respectively.

Manual slide provides 7.87 inches (200 mm) of fine vertical and horizontal torch adjustment.

### Packages include
- SubArc 3-Wheel Tractor
- SubArc Tractor Interface Digital
- SubArc Wire Drive 400 Digital
- Low Voltage
- 10 lb. (4.5 kg) capacity flux hopper with manual valve
- 60 lb. (27 kg) wire reel
- OBT 600 torch
- Wire straightener

### Required power source
- SubArc Digital Series (pg 82)

### Most popular accessories
- SubArc Control Cables (pg 119)
- Contact Tips (pg 119)
- Drive Rolls (pg 119)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

### Systems include
- Portable column and boom
- SubArc Digital power source
- SubArc Interface Digital and control cable
- SubArc Wire Drive 400 Digital
- Low Voltage
- 25 lb. (11.3 kg) capacity flux hopper with valve
- 60 lb. (27 kg) wire reel and support assembly
- OBT 600 torch (650 system) or OBT 1200 torch (1000 system)
- Wire straightener
- Manual slide

### Most popular accessories
- 14-pin Insight Core™ Module 301072 (pg 68)
- Requires Insight Core to SubArc Digital Series Adapter Kit (301295)
- Insight ArcAgent™ Auto 301346 (pg 69)
- Contact Tips (pg 119)
- Drive Rolls (pg 119)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
ProHeat™ Induction Heating

Induction heating is a simple and cost-effective heating process that can deliver fast and consistent heat. Applications that would typically require hours to heat can be done in minutes.

- Welding fabrication and construction
- Preheating of welds
- Post-weld heat treatment (PWHT)
- Hydrogen bake out
- Shrink fit applications

**Induction heating solves many key issues in today's environment.**

- Does not produce the exposure to burns associated with open flames and electrical resistance wires (only the work part becomes hot)
- No significant expense of fuel gases
- Produces less particulate from overheated insulation caused by high-temperature electrical wires and ceramic pads

**Induction heating applications:**

- Process piping
- Pressure vessels
- Refinery
- Structural
- Petrochemical
- Shipbuilding
- Power piping
- Pipeline

---

**ProHeat 35 Power Source**

The ProHeat 35 induction power source is equipped with a built-in temperature controller allowing for manual or temperature-based programming using up to four control thermocouples. At more than 90 percent efficiency, the ProHeat 35 power source transfers more energy to the part, reducing operating costs over different heating methods.

**Digital Recorder (optional)**

The digital recorder is commonly used in stress relieving and critical preheat applications. The recorder stores temperature data based on time. It is not required to perform successful heating applications.

**Heavy-Duty Induction Cooler (optional)**

Optimized for induction heating applications, cooler features a 2.5-gallon rustproof polyethylene tank, high-pressure pump, and blower to yield a high cooling capacity.

---

For more information:
Call 1-844-IND-HEAT (1-844-463-4328) or email InductionSales@MillerWelds.com
One ProHeat™ System — Four Basic Induction Heating Configurations

ProHeat 35 induction heat systems solve preheating, post weld heat treatment (PWHT) and stress relieving problems.

**Liquid-Cooled Cables** See literature IN/15.0

Preheat applications up to 1,450 degrees Fahrenheit (788°C).

- A highly versatile tool for preheating, stress relieving, hydrogen bake out, post weld heat treatment and shrink fit in a variety of pipe diameters and flat plate
- Designed with flexibility in mind, the ProHeat liquid-cooled induction heating cables can be wrapped into coils of various shapes and sizes to fit almost any induction heating application

**Liquid-Cooled Rolling** See literature IN/13.0

Preheat of moving parts up to 600 degrees Fahrenheit (315°C).

- Ideal for preheating rolling pipe and moving parts, with easy and time-saving setup and movement for maintaining and adhering to preheat and interpass temperatures
- Enables the benefits of rolled pipe welding while also addressing some of the concerns associated with other popular heating methods, such as open flame and resistance heating
- Optional infrared temperature sensor can read the temperature on the moving part — from 212 to 750 degrees Fahrenheit (100–400°C)
- Optional travel detect system can be used for setting different heating rates/ramps based on workpiece speed travel — when no movement is detected the system turns off the output preventing damage to workpiece and rolling inductor

**Air-Cooled Blankets** See literature IN/14.0

Preheating applications up to 400 degrees Fahrenheit (204°C).

- Air-cooled blankets are available for pipe diameters from 8–60 inches (20–152 cm) or in the case of plate, the lengths are 41–205 inches (1–5.2 m)
- The blankets easily conform to circular and flat parts and install in a matter of seconds
- Manufactured from durable high-temperature materials, flexible induction blankets are designed to withstand the tough conditions in both industrial and construction applications

**Air-Cooled Cables** See literature IN/14.0

Preheating applications up to 392 degrees Fahrenheit (200°C).

- Air-cooled cables are available in lengths of 30 foot (9.1 m), 50 foot (15.2 m) or 80 foot (24.4 m) for flexible configurations
- Designed with flexibility and efficiency in mind, the air-cooled cables can be wrapped into coils of various shapes and sizes to fit almost any induction preheating application, without the need for cooler and coolant
- Air-cooled cables provide the same flexibility as liquid-cooled cables for preheating
Your welders select the Bernard gun handles, triggers and necks that are the most comfortable and effective for accessing their welds.

Management enjoys the resulting increase in productivity, longer gun life, and a reduced parts inventory with consumables designed to work across all of your welding guns.

For more information see pages 25–26, or contact your local welding distributor or Bernard directly.

Engineered for Simplicity. Built for Durability.

Maximizing throughput. Minimizing costs.

Automated welding applications require flexible, repeatable solutions that maximize production uptime and throughput while minimizing costs. This is why industrial manufacturers rely on Tregaskiss and its proven track record of delivering reliable and resilient robotic MIG welding guns and peripherals. See pages 34–35 for more information.

Visit Tregaskiss.com to configure a robotic gun for your welding application today.
Or call 1-855-MIGWELD (644-9353) for more information.
### Product Guide

<table>
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<th>Product</th>
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<th>Gouging/Piercing</th>
<th>Rated Output/Duty Cycle</th>
<th>Rated Cutting Thickness*</th>
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<th>Typical Applications</th>
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<tr>
<td>Spectrum® 375 X-TREME™</td>
<td>98</td>
<td>●</td>
<td>●</td>
<td>30 A at 40%</td>
<td>3/8 in. 3/8 in. 1/4 in.</td>
<td>5/8 in.</td>
<td>Auto-Line™ (120–240 V), MVP® plugs, Auto-Refire™ automatic air regulation, only 19 lb., XT30 torch</td>
<td>HVAC, maintenance, light construction, hobbyist, auto restoration, fabrication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectrum® 625 X-TREME™</td>
<td>98</td>
<td>●</td>
<td>●</td>
<td>40 A at 60%</td>
<td>5/8 in. 1/2 in. 3/8 in.</td>
<td>7/8 in.</td>
<td>Auto-Line™ (120–240 V), MVP® adapters, Auto-Refire™ automatic air regulation, only 21 lb., XT40 torch</td>
<td>Maintenance, light construction, body shops, prototyping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectrum® 875 Auto-Line™</td>
<td>98</td>
<td>●</td>
<td>●</td>
<td>60 A at 50%</td>
<td>7/8 in. 7/8 in. 5/8 in.</td>
<td>1-1/4 in.</td>
<td>Auto-Refire™ automatic air regulation, only 49 lb., XT60 or XT60M torch</td>
<td>Construction, maintenance/repair, fabrication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectrum® 875 Auto-Line™</td>
<td>98</td>
<td>●</td>
<td>●</td>
<td>208: 60 A at 40% 5/8 in. / 380–575 V: 60 A at 60%</td>
<td>7/8 in. 7/8 in. 5/8 in.</td>
<td>1-1/4 in.</td>
<td>Auto-Line™ (208–575 V), Auto-Refire™ automatic air regulation, only 54 lb., XT60 or XT60M torch</td>
<td>Construction, maintenance/repair, fabrication</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Plasma Cutters

<table>
<thead>
<tr>
<th>Engine-Driven Welder/Generator</th>
<th>Continuous Generator Power</th>
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<th>Spectrum 625 X-TREME Steel Cut / Output Amp Setting**</th>
<th>Spectrum 875 / 875 Auto-Line Steel Cut / Output Amp Setting**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusion 160 and Blue Star® 185</td>
<td>6,200 watts</td>
<td>3/8 in. / 30 A</td>
<td>Not recommended</td>
<td>Not recommended</td>
</tr>
<tr>
<td>Bobcat® 200 Air Pak™</td>
<td>5,500 watts</td>
<td>3/8 in. / 30 A</td>
<td>Not recommended</td>
<td>Not recommended</td>
</tr>
<tr>
<td>Bobcat® 225, 250, 3 Phase</td>
<td>9,500 watts</td>
<td>3/8 in. / 30 A</td>
<td>5/8 in. / 40 A</td>
<td>1/2 in. / 45 A</td>
</tr>
<tr>
<td>Trailblazer® Series</td>
<td>10,500 watts</td>
<td>3/8 in. / 30 A</td>
<td>5/8 in. / 40 A</td>
<td>1/2 in. / 45 A</td>
</tr>
<tr>
<td>Big Blue® 400 Pro, 400 PipePro® and 450 Duo CST™</td>
<td>10,000 watts</td>
<td>3/8 in. / 30 A</td>
<td>5/8 in. / 40 A</td>
<td>1/2 in. / 45 A</td>
</tr>
<tr>
<td>Big Blue® 500 Pro, 600 Series and 800 Series</td>
<td>1-phase: 12,000 watts 3-phase: 20,000 watts</td>
<td>3/8 in. / 30 A</td>
<td>5/8 in. / 40 A</td>
<td>7/8 in. / 50 A</td>
</tr>
</tbody>
</table>

**Note on cut capacity ratings:** The Spectrum Series rating system is designed to provide a guide to help our customers choose the right machine for their application. Rated cut capacity is based on traveling approximately 15 inches per minute to achieve a steady, precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Sever cut is the maximum cut achieved in ideal conditions. Some factors that dictate actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.

*See note on cut capacity ratings above. **240 V, full KVA plug. Derate cut capacity with less generator power.

For more detailed information, see individual literature sheets.

**Product Key:**

- Class: ● Light industrial ● Industrial ● Heavy industrial
- Capability: Designed for this process ● Capable of this process

For more detailed information, visit MillerWelds.com/plasmacutters
Spectrum® Series
Plasma Cutters

Our Spectrum line of plasma cutters provides big cutting power in portable packages and with features like flexible cables and Auto-Refire technology they are better than ever. Step up to Spectrum 625 X-TREME® or 875/875 Auto-Line™ models to add Ultra-Quick Connect hand-held torches. Machine torch capabilities are available with Spectrum 875/875 Auto-Line™ models only.

### Spectrum Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Spectrum 375 X-TREME™</th>
<th>Spectrum 625 X-TREME™</th>
<th>Spectrum 875/875 Auto-Line™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Line (120–240 V)</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto-Line (208–575 V)</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MVP™ plugs/adapters</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Ultra-Quick Connect torch with flexible cable</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Quick connect flexible work cable with clamp</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Built-in gas/air filter and regulator</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto-Refire</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto postflow</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto air regulation</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto air separation</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Built-in gas/air filter</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Built-in gas/air filter and regulator</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto-Refire</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto postflow</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto air regulation</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Machine torch capable</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Steel/Stainless/Aluminum Rated Cutting Capacity

<table>
<thead>
<tr>
<th>Spectrum</th>
<th>Steel/Stainless</th>
<th>Aluminum</th>
<th>3/8 in. (9.5 mm)</th>
<th>5/8 in. (15.9 mm)</th>
<th>7/8 in. (22.2 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum 375 X-TREME</td>
<td>3/8 in. (9.5 mm)</td>
<td>5/8 in. (15.9 mm)*</td>
<td>7/8 in. (22.2 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectrum 625 X-TREME</td>
<td>3/8 in. (9.5 mm)</td>
<td>5/8 in. (15.9 mm)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectrum 875/875 Auto-Line</td>
<td>5/8 in. (15.9 mm)*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Ssistant: 1/2 in. (12.7 mm) for Spectrum 625 X-TREME.

Cut capacity ratings are based on traveling speed of approximately 15 inches per minute to achieve a precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Factors that can affect actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.

### Power factor correction (PFC)
Uses less energy by utilizing input power more efficiently and increases productivity by reducing nuisance circuit breaker trips.

### LED indicators for easy troubleshooting.
Non-high-frequency arc starting does not interfere with or damage controls or computers.

### Postflow cooling circuitry
Extends life of the consumable and torch by cooling them with postflow air after trigger is released.

### Auto-Refire
Provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

### Automatic air regulation
Compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

### Built-in gas/air filter and regulator
Provides air filtration of airborne particles five microns and larger. Additional filtration and water separation recommended.

### LVC™ line voltage compensation
Provides peak performance power under variable input voltage conditions for clean, steady cuts.

### Wind Tunnel Technology™
Prevents abrasive dust and particles from damaging internal components.

### Fan-On-Demand™
Circuit automatically compensates for line voltage variation to provide peak recommended cutting performance. Power factor correction (PFC) uses less energy by utilizing input power more efficiently and increases productivity by reducing nuisance circuit breaker trips.

### Spectrum 875/875 Auto-Line machine torches
Long and short body torch packages. XT60 hand-held torches for both Spectrum 875 models come in long or short body configurations in either 25- or 50-foot cable lengths. Only long body torches are available in packages, but both bodies can be ordered separately (see page 118).

### Spectrum 625 X-TREME and 875/875 Auto-Line hand-held torches
Ultra-Quick Connect® hand-held torches with flexible cables. XT40 hand-held torch for Spectrum 625 X-TREME and XT60 hand-held torch for both Spectrum 875 models feature quick torch connection, ergonomic handles to help prevent operator fatigue and flexible cables that make maneuvering easier.

### Models/packages

<table>
<thead>
<tr>
<th>Model</th>
<th>Hand-Held Torch Packages</th>
<th>Long Body Machine Torch Packages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum 375 X-TREME</td>
<td>12 ft. (3.7 m)</td>
<td>20 ft. (6.1 m)</td>
</tr>
<tr>
<td>Spectrum 625 X-TREME</td>
<td>(907529)</td>
<td>—</td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>—</td>
<td>(907579)</td>
</tr>
<tr>
<td>Spectrum 875 Auto-Line</td>
<td>—</td>
<td>(907583)</td>
</tr>
<tr>
<td>Spectrum 375 X-TREME</td>
<td>(907584)</td>
<td>(907584001)</td>
</tr>
</tbody>
</table>
**Spectrum® 375 X-TREME™/625 X-TREME™**

- **AUTO-LINE™ Technology** allows for any input voltage hookup (120–240 V, single-phase, 50/60 Hz for 375 X-TREME and 60 Hz for 625 X-TREME) with no manual linking, providing convenience in any job setting.
- **X-CASE™** provides the ultimate protection during transport and storage. Additional space is ideal for MVP plugs, consumables box, gloves, etc.
- **Multi-voltage plug (MVP™)** on 375 X-TREME or MVP adapter on 625 X-TREME allows connection to 120- or 240-volt receptacles without tools.
- **Automatic gouging consumable detection (625 X-TREME only).** Detects gouging consumable and adjusts gas pressure to optimize performance, eliminating the need for a manual regulator.

375 X-TREME model includes XT30 hand-held torch with ergonomic design and flexible cable.

625 X-TREME model includes Ultra-Quick Connect™ XT40 hand-held torch with ergonomic design and flexible cable.

---

**Spectrum® 875/875 Auto-Line™**

Spectrum 875 Auto-Line model allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Standard Spectrum 875 model operates on 208/230 V, single-phase input voltage only.

**Consumables storage compartment** provides convenient access to consumables and parts.

**Machine torch capable.** Both Spectrum 875 models can be ordered with a long body machine torch or can be converted to use a machine torch with optional automation kits. Machine torches are NOT included in automation kits and must be ordered separately (see page 118).

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Power</th>
<th>Rated Output at 104°F (40°C)</th>
<th>Amps Input at Rated Output</th>
<th>KVA</th>
<th>KW</th>
<th>Compressor Requirement</th>
<th>Dimensions</th>
<th>Net Weight with Torch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum 375 X-TREME</td>
<td>120–240 V, 50/60 Hz</td>
<td>120 V (15 A): 20 A at 88 VDC, 60% duty cycle</td>
<td>18.3</td>
<td>2.1</td>
<td>2.1</td>
<td>5.0 cfm (142 L/min.) at 90 psi (621 kPa)</td>
<td>H: 9 in. (229 mm)</td>
<td>12 ft. torch: 19 lb. (8.6 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 V (20 A): 27 A at 92 VDC, 35% duty cycle</td>
<td>26.1</td>
<td>3.1</td>
<td>3.1</td>
<td>W: 5.5 in. (140 mm)</td>
<td>23.25 in. (337 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>240 V: 30 A at 92 VDC, 40% duty cycle</td>
<td>14.7</td>
<td>2.9</td>
<td>2.9</td>
<td>D: 18.5 in. (470 mm)</td>
<td>30 ft. torch: 25 lb. (11.3 kg)</td>
<td></td>
</tr>
<tr>
<td>Spectrum 625 X-TREME</td>
<td>120–240 V, 50/60 Hz</td>
<td>120 V (15 A): 20 A at 88 VDC, 60% duty cycle</td>
<td>17.7</td>
<td>2.1</td>
<td>2.1</td>
<td>6.0 cfm (170 L/min.) at 90 psi (621 kPa)</td>
<td>H: 9 in. (229 mm)</td>
<td>12 ft. torch: 21 lb. (9.5 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>120 V (20 A): 27 A at 91 VDC, 35% duty cycle</td>
<td>25.0</td>
<td>3.0</td>
<td>3.0</td>
<td>W: 5.5 in. (140 mm)</td>
<td>33.125 in. (337 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>240 V: 40 A at 140 VDC, 60% duty cycle</td>
<td>27.6</td>
<td>6.6</td>
<td>6.6</td>
<td>D: 18.5 in. (470 mm)</td>
<td>23 ft. (10.5 kg)</td>
<td></td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>208/230 V, 50/60 Hz</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>208 V: 47</td>
<td>9.9</td>
<td>9.9</td>
<td>6.75 cfm (191 L/min.) at 90 psi (621 kPa)</td>
<td>H: 13.5 in. (343 mm)</td>
<td>20 ft. torch: 49 lb. (22.2 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>230 V: 42</td>
<td>9.9</td>
<td>9.9</td>
<td>W: 8.75 in. (222 mm)</td>
<td>18.5 in. (470 mm)</td>
<td></td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>208/230 V, 50/60 Hz</td>
<td>Three-phase</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>208 V: 27.5</td>
<td>9.4</td>
<td>9.4</td>
<td>6.75 cfm (191 L/min.) at 90 psi (621 kPa)</td>
<td>H: 13.5 in. (343 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>230 V: 25</td>
<td>9.4</td>
<td>9.4</td>
<td>W: 8.75 in. (222 mm)</td>
<td>18.5 in. (470 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>380 V: 60 A at 140 VDC, 60% duty cycle</td>
<td>380 V: 15</td>
<td>9.4</td>
<td>9.4</td>
<td>D: 18.5 in. (470 mm)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>380–575 V: 50 A at 140 VDC, 100% duty cycle</td>
<td>380–575 V: 12.4</td>
<td>9.4</td>
<td>9.4</td>
<td>575 V: 9.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>575 V: 9.8</td>
<td>575 V: 9.8</td>
<td>575 V: 9.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>600 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>600 V: 42</td>
<td>9.7</td>
<td>9.7</td>
<td>6.75 cfm (191 L/min.) at 90 psi (621 kPa)</td>
<td>H: 13.5 in. (343 mm)</td>
<td>20 ft. torch: 54 lb. (24.5 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>230 V: 42</td>
<td>9.7</td>
<td>9.7</td>
<td>W: 8.75 in. (222 mm)</td>
<td>18.5 in. (470 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>380 V: 60 A at 140 VDC, 60% duty cycle</td>
<td>380 V: 15</td>
<td>9.7</td>
<td>9.7</td>
<td>D: 18.5 in. (470 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>380–575 V: 50 A at 140 VDC, 100% duty cycle</td>
<td>380–575 V: 12.4</td>
<td>9.7</td>
<td>9.7</td>
<td>575 V: 9.8</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>575 V: 9.8</td>
<td>575 V: 9.8</td>
<td>575 V: 9.8</td>
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</tr>
</tbody>
</table>

Plasma Cutting

**Light industrial** • 375/625 models

**Processes**
- Air plasma cutting
- Air plasma gouging (625/875 models)

**375 X-TREME package comes complete with**
- XT30 hand-held torch with 12 ft. (3.7 m) cable
- Heavy-duty work clamp with 12 ft. (3.7 m) flexible cable
- 10 ft. (3 m) power cord with MVP 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A) plugs
- X-CASE for protection and storage
- Shoulder strap
- Consumables box with two electrodes, two tips, deflector and air fitting

**625 X-TREME packages come complete with**
- XT40 hand-held torch with 12 ft. (3.7 m) or 20 ft. (6.1 m) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 12 ft. (3.7 m) power cord with 240 V, L6-30P twist lock plug
- MVP adapters with 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A) plugs
- X-CASE for protection and storage
- Shoulder strap
- Consumables box with two electrodes, two 30 A tips, one 30 A drag shield, deflector and air fitting

**875 and 875 Auto-Line packages come complete with**
- XT60 hand-held torch with 20 ft. (6 m) or 50 ft. (15.2 m) cable OR XT60M long body machine torch with 25 ft. (7.6 m) or 50 ft. (15.2 m) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 10 ft. (3 m) power cord
- Extra consumables
- Machine torch packages include corresponding automation kit

**Most popular accessories**
- Automation Kits for Spectrum 875 models (pg 118)
- Cables and Cable Covers (pg 118)
- Cutting Guides (pg 118)
- Filters (pg 118)
- Plugs and Cords (pg 118)
- X-CASE (pg 118)
- Torches (pg 118)
- Torch Consumables (pg 118)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Miller offers an extensive line of quality regulators, cutting torches, tips and a variety of accessories for your oxy-fuel cutting and welding requirements.

Regulators

Heavy-duty and medium-duty single-stage pressure regulators

Our Series 40™ and Series 30™ industrial-grade pressure regulators provide accurate pressure readings for welding, cutting, heating and other applications. Extremely durable construction and simplified design provide consistent gas flow and longer trouble-free operation. Covered by a three-year warranty. See page 94 for optional Hard Hat® regulator guards designed to help prevent broken gauges.

Two-stage regulators

Series 30 two-stage regulators drop cylinder pressure to working pressure in two stages for consistent and accurate outlet pressure and flow regardless of inlet pressure. Recommended where outlet pressure and flow must be maintained without variation. Covered by a three-year warranty.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Gas</th>
<th>Max. Delivery Pressure</th>
<th>Max. Inlet Pressure</th>
<th>Outlet Connection</th>
<th>Inlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty Series 40</td>
<td>40-175-540</td>
<td>Oxygen</td>
<td>175 psig (12 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16-18 RH</td>
<td>CGA 540</td>
</tr>
<tr>
<td>Single-Stage Pressure Regulators</td>
<td>40-275-540</td>
<td>LP Ak</td>
<td>275 psig (19 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16-18 RH</td>
<td>CGA 540</td>
</tr>
<tr>
<td></td>
<td>40-15-510</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16-18 LH</td>
<td>CGA 510</td>
</tr>
<tr>
<td></td>
<td>40-15-300</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16-18 LH</td>
<td>CGA 510</td>
</tr>
<tr>
<td></td>
<td>40-50-510</td>
<td>LP gas</td>
<td>50 psig (3 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16-18 LH</td>
<td>CGA 510</td>
</tr>
<tr>
<td></td>
<td>40-275-580</td>
<td>Inert gas</td>
<td>275 psig (19 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8-18 RH internal</td>
<td>CGA 580</td>
</tr>
</tbody>
</table>

| Medium-Duty Series 30  | 30-100-540   | Oxygen  | 100 psig (7 bar)       | 3,000 psig (207 bar)| 9/16-18 RH       | CGA 540         |
| Single-Stage Pressure Regulators | 30-20-540    | Oxygen  | 20 psig (1.4 bar)      | 3,000 psig (207 bar)| 9/16-18 RH       | CGA 540         |
|                         | 30-15-510    | Acetylene| 15 psig (1 bar)        | 400 psig (28 bar)   | 9/16-18 LH       | CGA 510         |
|                         | 30-15-300    | Acetylene| 15 psig (1 bar)        | 400 psig (28 bar)   | 9/16-18 LH       | CGA 510         |
|                         | 30-15-520    | Acetylene| 15 psig (1 bar)        | 400 psig (28 bar)   | 9/16-18 LH       | CGA 510         |
|                         | 30-15-200    | Acetylene| 15 psig (1 bar)        | 400 psig (28 bar)   | 9/16-18 LH       | CGA 510         |
|                         | 30-50-510    | LP gas   | 50 psig (3 bar)        | 400 psig (28 bar)   | 9/16-18 LH       | CGA 510         |
|                         | 30-150-580   | Inert gas| 150 psig (10 bar)      | 3,000 psig (207 bar)| 5/8-18 RH internal| CGA 580         |
|                         | 30-150-320   | CO₂      | 150 psig (10 bar)      | 3,000 psig (207 bar)| 5/8-18 RH internal| CGA 580         |
|                         | 30-100-350   | Hydrogen/methane| 100 psig (7 bar)    | 3,000 psig (207 bar)| 9/16-18 LH       | CGA 510         |

| Heavy-Duty Series 46   | 46-175       | Oxygen  | 175 psig (12 bar)      | 200 psig (14 bar)   | 9/16-18 RH       | CGA 024*        |
| Station Regulators     | 46-15        | Acetylene| 15 psig (1 bar)        | 200 psig (14 bar)   | 9/16-18 LH       | CGA 025*        |
|                         | 46-50        | LP gas   | 50 psig (3 bar)        | 200 psig (14 bar)   | 9/16-18 LH       | CGA 025*        |

| Series 30              | 35-125-540   | Oxygen  | 125 psig (9 bar)       | 3,000 psig (207 bar)| 9/16-18 RH       | CGA 540         |
| Two-Stage Regulators   | 35-15-510    | Acetylene| 15 psig (1 bar)        | 400 psig (28 bar)   | 9/16-18 LH       | CGA 510         |
|                         | 35-50-580    | Inert gas| 50 psig (3 bar)        | 3,000 psig (207 bar)| 5/8-18 RH internal| CGA 580         |
Our heavy-duty flowmeter regulators and flowmeters feature an exclusive self-centering ball guide which provides accurate readings even if tipped. This ensures optimum weld quality and gas savings. Others use a non-self-centering flow tube ball that tends to float off center causing actual gas flow to be up to two times greater than indicated. Covered by a three-year warranty.

Heavy-duty flowmeter regulators and flowmeters

Economy flowmeter regulators and flowmeters

Our economy flowmeter regulators and flowmeters combine exceptional value and a compact design with precise shielding gas regulation for MIG and TIG welding applications and more. Covered by a three-year warranty.

Single-stage flow gauge regulators

Series 30™ single-stage flow gauge regulators are compact and feature a forged brass body and a self-resetting pressure relief valve. They include a Sure Seat™ protective inlet filter and a durable neoprene-composite diaphragm. Covered by a three-year warranty.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Gas</th>
<th>Flow Range</th>
<th>Max. Inlet Pressure</th>
<th>Outlet Connection</th>
<th>Inlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty Flowmeter Regulators</td>
<td>22-80-580</td>
<td>Argon/CO₂</td>
<td>10–80 scfh (5–38 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>22-80-320</td>
<td>CO₂</td>
<td>10–80 scfh (5–38 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>22-30-580</td>
<td>Argon/CO₂</td>
<td>10–55 scfh (5–26 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>22-30-580-6</td>
<td>Argon/CO₂</td>
<td>10–160 scfh (5–76 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>35-30-320</td>
<td>CO₂</td>
<td>10–55 scfh (5–26 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td>Heavy-Duty Flowmeters</td>
<td>16530</td>
<td>Argon, CO₂</td>
<td>10–80 scfh (5–38 lpm)</td>
<td>80 psig (6 bar)</td>
<td>5/8”-18 RH internal</td>
<td>1/4” NPT female</td>
</tr>
<tr>
<td></td>
<td>16531</td>
<td>Argon, CO₂, helium</td>
<td>Depends on gas</td>
<td>30 psig (2 bar)</td>
<td>5/8”-18 RH internal</td>
<td>1/4” NPT male</td>
</tr>
<tr>
<td>Economy Flowmeter Regulators</td>
<td>H2051B-580</td>
<td>Argon</td>
<td>0–60 scfh (0–28 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>H2051B-580H</td>
<td>CO₂</td>
<td>0–50 scfh (0–24 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>23-50-580</td>
<td>Helium</td>
<td>0–160 scfh (0–76 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td>Economy Flowmeters</td>
<td>H2330A</td>
<td>Argon, CO₂</td>
<td>Depends on gas</td>
<td>50 psig (3 bar)</td>
<td>5/8”-18 RH internal</td>
<td>1/4” NPT male</td>
</tr>
<tr>
<td></td>
<td>H2331A</td>
<td>Argon, CO₂</td>
<td>Depends on gas</td>
<td>50 psig (3 bar)</td>
<td>5/8”-18 RH internal</td>
<td>1/4” NPT male</td>
</tr>
<tr>
<td>Heavy-Duty Series 30 Flow Gauge Regulators</td>
<td>31-50-580</td>
<td>Argon</td>
<td>0–50 scfh (0–24 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>31-50-580-6</td>
<td>CO₂</td>
<td>0–50 scfh (0–24 lpm)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
<tr>
<td></td>
<td>31-50-320</td>
<td></td>
<td></td>
<td></td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
</tr>
</tbody>
</table>
Regulators

HVAC/refrigeration purge/leak test regulator

Our single-stage nitrogen regulator is specially designed to meet the specifications of HVAC refrigerant purging applications. This regulator is used with nitrogen to test HVAC systems to locate leaks and to purge an area for installation and repair. It is economical, accurate and its compact size is useful where space is limited. Covered by a one-year warranty.

- 2-inch (51 mm) gauges with shatter-resistant lenses and solid brass body for durability
- Large durable nylon knob for easy pressure adjustment

Stock Number     Gas                  Max. Delivery Pressure     Max. Inlet Pressure  Outlet Connection  Inlet Connection
30-450-580       Nitrogen             450 psig (31 bar)          3,000 psig (207 bar)  7/16”-20 external flair fitting  CGA 580

Heavy-duty high-pressure regulator

820 Series regulators are for use on cylinders with a wide variety of non-corrosive inert gases. Typical applications include high-pressure testing, purging/charging, calibration kits, airline charging carts, chemical plants, manufacturing processes, research/development and laboratories. Covered by a two-year warranty.

- Piston-sensor design gives structural reliability in high-pressure use
- Low-torque-control adjusting screw for easy pressure adjustments in closed/dead end systems
- Due to specific configurations, we cannot accept returns of 820 Series regulators


Rear-entry liquid cylinder regulator

250 Series regulators are ideal for non-corrosive high-purity applications and have a rear-entry connection that provides clearance of the liquid cylinder ring for easier gauge reading. Covered by a two-year warranty.

- Easy-to-read single-scale 2.5-inch (64 mm) gauge with shatter-resistant lens
- Nickel-plated brass body for corrosion resistance
- Large 1.875-inch stainless steel diaphragm for precise control of pressure
- Large durable nylon knob for easy pressure adjustment
- Due to specific configurations, we cannot accept returns of 250 Series regulators

Three-stage nitrogen low-pressure regulator

These preset regulators are specially designed to deliver a highly accurate and consistent 0.50 psig supply of nitrogen to the head space of oil-filled power transformers. Available with or without electronic pressure switch. Covered by a one-year warranty.

- Built-in self-relieving valve set at 8 psig protects the system from over-pressurization due to temperature variation
- Rapid-fill bypass pressure valve allows rapid filling of the transformer with 6 psig of pressure

Stock Number     16391 without pressure switch     16347-3 with pressure switch

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Preset Outlet Pressure</th>
<th>1st Stage</th>
<th>2nd Stage</th>
<th>3rd Stage (delivery pressure)</th>
<th>Bypass Rapid Fill/Purge</th>
<th>Max. Inlet Pressure</th>
<th>Outlet Connection</th>
<th>Inlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>16391</td>
<td>150 psi (10 bar)</td>
<td>8 psi</td>
<td>0.6 psi</td>
<td>0.4–0.6 psi (0.03–0.04 bar)</td>
<td>6 psi</td>
<td>3,000 psi</td>
<td>1/2” FNPT</td>
<td>CGA 580</td>
</tr>
<tr>
<td>16347-3</td>
<td>2nd stage</td>
<td>8 psi</td>
<td>0.6 psi</td>
<td>into 2nd stage</td>
<td>6 psi</td>
<td>3,000 psi</td>
<td>1/2” FNPT</td>
<td>CGA 580</td>
</tr>
</tbody>
</table>

Most popular accessories

- Hard Hat® Regulator Guards
  - H8190  For Series 40
  - H195   For Series 30
- Reverse-Flow Check Valve Set (oxy and fuel)
  - H697  Torch mount
  - H698  Regulator mount
- Flashback Arrestor Set (oxy and fuel)
  - H743  Torch mount
  - H753  Regulator mount
- **GASAVERTM**
  - WDW100  Propylene/oxygen
  - WDW101  Acetylene/oxygen
  - WDW103  Propane or natural gas
  (less than 4 psi)
  - WDW104  Propane or natural gas/oxygen
  (4 psi and above)
  - For repetitive brazing and soldering
  - Hang torch to shut off
  - Pilot light for relighting
  - Eliminates flame readjustment
- Fixed-Flow Adapters and Surge Protectors
  - H1400 Series fixed-flow adapters are for welding operations requiring fixed-flow gases. 15001 Series surge protectors are for MIG welding applications to eliminate sudden surges of shielding gas in the wire feeder. Visit MillerWelds.com for more information.
  - Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Torches

Cutting torches (acetylene, natural gas, LP or propylene-based fuels)

Gas Axe® extra-heavy-duty cutting torches are ideal for scrap and salvage.
- Covered by a one-year warranty
- Reversible (top or bottom) mount cutting lever
- Available in four lengths and three different head angles
- Uses our exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 20 inches (508 mm) with LP and up to 12 inches (305 mm) with acetylene or propylene

Heavy-duty cutting torches feature solid construction and ease of operation for industries such as construction, fabrication, shipyards and salvage.
- Covered by a five-year warranty
- Nickel-plated finish for added corrosion resistance and to reflect residual heat
- Reversible (top or bottom) mount cutting lever
- Available in three lengths and three different head angles
- Uses our exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 12 inches (305 mm)

Combination torches (acetylene, natural gas, LP or propylene-based fuels)

Constructed to last a lifetime for safe performance under rugged conditions.
- Covered by a five-year warranty
- Heavy- and medium-duty torches feature a Flo-Trol valve to help prevent the accidental reverse flow of mixed gases and a spring-loaded back-pressure check valve designed to stop the most common cause of cutting valve seat burnout
- Ease-on cutting oxygen valve to reduce slag blowback when piercing
- Thick-wall brass head forgings resist warping and distortion
- Heavy- and medium-duty torches are available with 75- or 90-degree head angles
- Uses our exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Heavy-duty torches cut up to 8 inches (203 mm), medium-duty up to 6 inches (152 mm) and standard-duty up to 3 inches (76 mm)

Machine torches (acetylene, natural gas, LP or propylene-based fuels)

Superior performance with solid construction.
- Covered by a five-year warranty
- Torch barrels are adjustable to four positions at 90-degree increments and barrel diameters are 1-3/8 inches (9.5 mm) to fit most machines
- Rack pitch is 32-8 teeth per inch
- Uses our exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- SC781A high-capacity three-hose torch cuts up to 12 inches (305 mm) with acetylene or propylene and 20 inches (508 mm) with LP or natural gas
- SC770 and SC772A two-hose torches cut up to 12 inches (305 mm) with acetylene, propylene, LP or natural gas

Most popular accessories

- Circle Cutter Guide 16229
- Flashback Arrestor Set (oxy and fuel) H743 Torch mount
  H753 Regulator mount
- Safety Glasses (see page 108 for more styles) 235661 Blue frame/shade 3
  235657 Blue frame/shade 5
- Safety Gloves (pg 110) Visit MillerWelds.com or your distributor for other Miller® options and accessories.
### Heavy-Duty Outfits

**Combination torch and tip kits (acetylene or LP)**

Combination kits are available with cutting, welding and heating tips OR with multiple cutting tips.
- Heavy-duty torches with a five-year warranty
- Torch-mount flashback arrestors for added safety
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 5/8 inch (16 mm) with tip included
- Cuts up to 8 inches (203 mm) with optional tips

**Cutting torch outfits (acetylene)**

Hand cutting torch outfits are built for the toughest jobs.
- Corrosion-resistant regulators feature shatter-resistant polycarbonate gauge lenses
- 21-inch nickel-plated torch with a five-year warranty has reversible (top or bottom) mount cutting lever and an ease-on oxygen feature that reduces slag blowback when piercing
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- HBS outfits include medium-duty Series 30™ regulators with a three-year warranty and Hard Hat™ gauge/regulator guards
- Heavy-duty SC229 hand cutting torch and heavy-duty regulators, 20 ft. (6.1 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors

### Heavy-duty torch tips

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Max. Metal Thickness (inches / mm)</th>
<th>Cutting Jet Drill Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetylene Cutting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC12-00</td>
<td>3/16 (5)</td>
<td>68</td>
</tr>
<tr>
<td>SC12-0</td>
<td>3/8 (10)</td>
<td>62</td>
</tr>
<tr>
<td>SC12-1</td>
<td>5/8 (16)</td>
<td>56</td>
</tr>
<tr>
<td>SC12-2</td>
<td>1-1/4 (32)</td>
<td>54</td>
</tr>
<tr>
<td>SC12-3</td>
<td>2 (61)</td>
<td>51</td>
</tr>
<tr>
<td>SC12-4</td>
<td>4 (102)</td>
<td>45</td>
</tr>
<tr>
<td>SC12-5</td>
<td>8 (203)</td>
<td>41</td>
</tr>
<tr>
<td>SC12-6</td>
<td>12 (305)</td>
<td>32</td>
</tr>
<tr>
<td>Propane/Natural Gas Cutting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC50-0</td>
<td>3/16 (5)</td>
<td>68</td>
</tr>
<tr>
<td>SC50-0</td>
<td>3/8 (10)</td>
<td>62</td>
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<tr>
<td>SC50-1</td>
<td>5/8 (16)</td>
<td>56</td>
</tr>
<tr>
<td>SC50-2</td>
<td>1-1/4 (32)</td>
<td>54</td>
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<tr>
<td>SC50-3</td>
<td>2 (61)</td>
<td>51</td>
</tr>
<tr>
<td>SC50-4</td>
<td>4 (102)</td>
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<tr>
<td>SC50-5</td>
<td>8 (203)</td>
<td>41</td>
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<tr>
<td>SC50-6</td>
<td>12 (305)</td>
<td>32</td>
</tr>
<tr>
<td>SC50-7</td>
<td>14 (354)</td>
<td>28</td>
</tr>
<tr>
<td>SC50-8</td>
<td>18 (457)</td>
<td>17</td>
</tr>
<tr>
<td>SC50-9</td>
<td>20 (508)</td>
<td>3</td>
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<tr>
<td>Propylene Cutting</td>
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<td></td>
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<tr>
<td>SC60-0</td>
<td>3/8 (10)</td>
<td>62</td>
</tr>
<tr>
<td>SC60-1</td>
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<tr>
<td>SC60-2</td>
<td>1-1/4 (32)</td>
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<td>SC60-3</td>
<td>2 (61)</td>
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<tr>
<td>SC60-4</td>
<td>4 (102)</td>
<td>45</td>
</tr>
<tr>
<td>SC60-5</td>
<td>8 (203)</td>
<td>41</td>
</tr>
<tr>
<td>SC60-6</td>
<td>12 (305)</td>
<td>32</td>
</tr>
<tr>
<td>Acetylene Gouging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC13-3</td>
<td>3/8 (10) wide, 1/4 (6) deep</td>
<td></td>
</tr>
<tr>
<td>Propane/Natural Gas Gouging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC23-3</td>
<td>3/8 (10) wide, 1/4 (6) deep</td>
<td></td>
</tr>
<tr>
<td>Propylene Gouging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC23-3M</td>
<td>3/8 (10) wide, 1/4 (6) deep</td>
<td></td>
</tr>
<tr>
<td>Acetylene Welding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW201</td>
<td>1/32 in. (0.7 mm)</td>
<td></td>
</tr>
<tr>
<td>SW203</td>
<td>5/64 in. (1.9 mm)</td>
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</tr>
<tr>
<td>SW205</td>
<td>1/8 in. (3 mm)</td>
<td></td>
</tr>
<tr>
<td>SW207</td>
<td>3/16 in. (5 mm)</td>
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</tr>
<tr>
<td>SW209</td>
<td>3/8 in. (10 mm)</td>
<td></td>
</tr>
<tr>
<td>SW210</td>
<td>1/2 in. (13 mm)</td>
<td></td>
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<tr>
<td>Acetylene Heating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST602</td>
<td>40,000 Btu</td>
<td></td>
</tr>
<tr>
<td>ST603</td>
<td>72,000 Btu</td>
<td></td>
</tr>
<tr>
<td>ST605</td>
<td>125,000 Btu</td>
<td></td>
</tr>
<tr>
<td>ST610</td>
<td>195,000 Btu</td>
<td></td>
</tr>
</tbody>
</table>

Visit MillerWelds.com or your distributor for additional tips, options and accessories.

*Acetylene regulator has CGA 300 inlet fitting.*
Medium-Duty Outfits

Combination torch outfits (acetylene or LP)
Oxy-fuel outfits include just about everything needed for your cutting, welding, brazing or heating project.
- Medium-duty Series 30™ regulators with a three-year warranty
- Medium-duty torches with a five-year warranty
- Torch-mount flashback arrestors for added safety (acetylene outfits only)
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing provides for resistance to flashbacks
- Cuts up to 5/8 inch (16 mm) with tip included
- Cuts up to 6 inches (153 mm) with optional tips

Combination torch and tip kits (acetylene or LP)
Combination kits are available with cutting, welding and heating tips OR with multiple cutting tips.
- Medium-duty torches with a five-year warranty
- Torch-mount flashback arrestors for added safety
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 5/8 inch (16 mm) with tip included
- Cuts up to 6 inches (153 mm) with optional tips

Toughcut™ combination torch outfits (acetylene or LP)
Economy outfits include many features found on more expensive outfits.
- Medium-duty Series 30™ regulators with a three-year warranty
- Medium-duty torches with a three-year warranty
- Check valves for added safety and torch life
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 5/8 inch (16 mm) with tip included
- Cuts up to 6 inches (153 mm) with optional tips

Tag-A-Long and Versa-Torch™ portable outfits (acetylene)
Complete, portable outfits housed in carriers designed for mobility and ease of storage, plus long-lasting Graf-Tite® soft-seat cutting tips and check valves for added safety and torch life.
- Tag-A-Long includes medium-duty Series 30™ regulators and medium-duty torch with three-year warranties
- Versa-Torch includes Series 30™ regulators with a three-year warranty and standard-duty torch with a five-year warranty

*Acetylene regulator has CGA 300 inlet fitting.

<table>
<thead>
<tr>
<th>Outfit</th>
<th>Stock Number</th>
<th>Fuel</th>
<th>Cut Tip</th>
<th>Weld Tip</th>
<th>Heat Tip</th>
<th>Description</th>
<th>Typical Applications</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combination</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Torch Outfits</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBA-30510</td>
<td>MBA-30300*</td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>MW205</td>
<td>MF603</td>
<td>Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose,</td>
<td>Fabrication, farm and ranch, pipe, truck</td>
<td></td>
</tr>
<tr>
<td>MBA-30510LP</td>
<td></td>
<td>Propane</td>
<td>MC40-1</td>
<td>--</td>
<td>MF605</td>
<td>lighter, safety glasses, tip cleaner and flashback arrestors</td>
<td>and auto, refrigeration, maintenance/repair</td>
<td></td>
</tr>
<tr>
<td>16205</td>
<td></td>
<td>Acetylene</td>
<td>MC12-1</td>
<td>MW203</td>
<td>MF603</td>
<td>Medium-duty combination torch and flashback arrestors</td>
<td>Fabrication, farm and ranch, pipe, truck</td>
<td></td>
</tr>
<tr>
<td>16281</td>
<td></td>
<td>Acetylene</td>
<td>MC12-0, MC12-1</td>
<td>--</td>
<td>--</td>
<td></td>
<td>and auto, refrigeration, maintenance/repair</td>
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<tr>
<td>Toughcut</td>
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<tr>
<td>Economy</td>
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<tr>
<td>Combination</td>
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<tr>
<td>Torch Outfits</td>
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<td></td>
</tr>
<tr>
<td>MB55A-510</td>
<td>MB55A-300*</td>
<td>Acetylene</td>
<td>MC12-1</td>
<td>MW205</td>
<td>MF603</td>
<td>Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose,</td>
<td>Fabrication, farm and ranch, pipe, truck</td>
<td></td>
</tr>
<tr>
<td>MB54A-510</td>
<td>MB54A-300*</td>
<td>Acetylene</td>
<td>MC12-1</td>
<td>MW205</td>
<td>--</td>
<td>lighter, safety glasses and check valves</td>
<td>and auto, refrigeration, maintenance/repair</td>
<td></td>
</tr>
<tr>
<td>MB54A-510LP</td>
<td></td>
<td>Propane</td>
<td>MC40-1</td>
<td>--</td>
<td>--</td>
<td>Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose,</td>
<td>Fabrication, farm and ranch, pipe, truck</td>
<td></td>
</tr>
<tr>
<td>Combination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>lighter, safety glasses and check valves</td>
<td>and auto, refrigeration, maintenance/repair</td>
<td></td>
</tr>
<tr>
<td>Torch Portable</td>
<td></td>
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<td>Outfits</td>
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</tr>
<tr>
<td>TL-500 (no tanks)</td>
<td></td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>MW203</td>
<td>--</td>
<td>Medium-duty (TL500/TL550) or standard-duty (VT-4F) combination torch,</td>
<td>Farm and ranch, hobby, DIY, auto,</td>
<td></td>
</tr>
<tr>
<td>TL-550</td>
<td></td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>MW203</td>
<td>--</td>
<td>medium-duty regulators, 12.5 ft. (3.8 m) hose, carrier, lighter, safety glasses,</td>
<td>refrigeration, maintenance/repair</td>
<td></td>
</tr>
<tr>
<td>VT-4T</td>
<td></td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>LT103, LT104, LT106</td>
<td>13716</td>
<td>Medium-duty (TL500/TL550) or standard-duty (VT-4F) combination torch,</td>
<td>Farm and ranch, hobby, DIY, auto,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>medium-duty regulators, 12.5 ft. (3.8 m) hose, carrier, lighter, safety glasses,</td>
<td>refrigeration, maintenance/repair</td>
<td></td>
</tr>
</tbody>
</table>
Proportional Gas Mixers

Our line of proportional gas mixers can help your operation save money, work more efficiently and produce better-quality welds by providing proper shielding gas mixtures for frequently used welding processes.

Accurate, on-site shield gas mixing. Various welding processes require different gas mixes for the best results. Our proportional gas mixers are accurate and allow custom mixtures for optimal welds.

No stocking or handling of premixed gases saves time and money and also reduces the number of cylinders that need to be stored.

Reduces setup time. No need to change cylinders, regulators, flow control devices or hoses when switching from one range of mixed gas to another.

Ideal for education and training. Operators can quickly see the effect of various gas mixtures on weld appearance, quality and penetration.

Easy operation. Simply set the dials for the desired mix and flow. Mixers are mechanical, no electricity is required.

Serves from one to five welding stations with a single mixer. Delivers accurate mixtures at flows ranging from 10 to 180 scfh.

Covered by a one-year warranty.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Gases</th>
<th>Adjustment % Range</th>
<th>Flow Range</th>
<th>Outlet Pressure</th>
<th>Required Inlet Pressure</th>
<th>Outlet Connection</th>
<th>Inlet Connection</th>
<th>Conversion Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>299-006-1C</td>
<td>Argon</td>
<td>0-100%</td>
<td>10-180 scfh</td>
<td>50 psig (3.5 bar)</td>
<td>105-115 psig (7.3-7.9 bar)</td>
<td>5/8”-18 RH internal</td>
<td>5/8”-18 RH internal</td>
<td>Argon/helium, Argon/oxygen, CO2/oxygen</td>
</tr>
<tr>
<td></td>
<td>CO2</td>
<td>100-0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Argon/CO2, Argon/oxygen, CO2/oxygen</td>
</tr>
<tr>
<td>299-006-3C</td>
<td>Argon</td>
<td>0-100%</td>
<td>10-180 scfh</td>
<td>50 psig (3.5 bar)</td>
<td>105-115 psig (7.3-7.9 bar)</td>
<td>5/8”-18 RH internal</td>
<td>5/8”-18 RH internal</td>
<td>Argon/CO2, Argon/oxygen, CO2/oxygen</td>
</tr>
<tr>
<td></td>
<td>Helium</td>
<td>100-0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Argon/CO2, Argon/oxygen, CO2/oxygen</td>
</tr>
<tr>
<td>299-011-1C</td>
<td>Argon</td>
<td>50-100%</td>
<td>10-180 scfh</td>
<td>50 psig (3.5 bar)</td>
<td>105-115 psig (7.3-7.9 bar)</td>
<td>5/8”-18 RH internal</td>
<td>5/8”-18 RH internal</td>
<td>Argon/helium, Nitrogen/hydrogen, Argon/oxygen, Argon/CO2</td>
</tr>
<tr>
<td></td>
<td>Hydrogen</td>
<td>50-0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Argon/helium, Nitrogen/hydrogen, Argon/oxygen, Argon/CO2</td>
</tr>
<tr>
<td>299-014-1C</td>
<td>Argon</td>
<td>80-100%</td>
<td>10-180 scfh</td>
<td>50 psig (3.5 bar)</td>
<td>105-115 psig (7.3-7.9 bar)</td>
<td>5/8”-18 RH internal</td>
<td>5/8”-18 RH internal</td>
<td>Argon/CO2, Argon/hydrogen, Argon/helium, Nitrogen/hydrogen</td>
</tr>
</tbody>
</table>

Register Your New Welder

Complete registration as soon as possible — it’s quick and easy.

Registering your new Miller® equipment may help with any future insurance claims or in the event we need to contact you regarding changes or upgrades. Whether you’re a DIY welder or have purchased Miller equipment on behalf of the company for which you work... all Miller equipment should be registered so we can provide you with the highest level of service.

Register now at MillerWelds.com/register
Fume Extractors

Our line of FILTAIR® fume extractors are designed specifically for welding — drawing weld fumes away from the user’s breathing zone and keeping your facility clean. We offer many types of fume extraction equipment to best fit your environment. Visit MillerWelds.com/filtair for more information.

<table>
<thead>
<tr>
<th>FILTAIR 130</th>
<th>MWX (page 100)</th>
<th>Capture 5 (page 100)</th>
<th>SWX (page 101)</th>
<th>4000–12000 (page 102)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weld Fume Extractor Type</td>
<td>Portable, high-vacuum</td>
<td>Mobile, low-vacuum</td>
<td>Mobile, low-vacuum with the industry’s largest capture zone</td>
<td>Stationary, low-vacuum suited for wall or column mounting</td>
</tr>
<tr>
<td>Ideal For</td>
<td>Contractors, maintenance and repair operations, light fabrication work and light manufacturing</td>
<td>Fabrication shops, manufacturing, and training centers</td>
<td>Manufacturing and fabrication – the best solution for weldments over 18 inches long</td>
<td>Manufacturing, hand-held and automation, fabrication shops, and training facilities</td>
</tr>
<tr>
<td>Technology</td>
<td>--</td>
<td>--</td>
<td>ZoneFlow (see pg 102)</td>
<td>Available w/ZoneFlow (see pg 102)</td>
</tr>
<tr>
<td>Welding Arcs</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Filter Type</td>
<td>Manual cleaning</td>
<td>MWX-D: Disposable MWX-S: Self-cleaning</td>
<td>Self-cleaning (automatic)</td>
<td>SWX-D: Disposable SWX-S: Self-cleaning</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H: 23 in. (584 mm)</td>
<td>12 in. (305 mm) width</td>
<td>Self-cleaning (automatic/programmable)</td>
<td></td>
</tr>
<tr>
<td>Net Weight</td>
<td>46 lb. (21 kg)</td>
<td>38 lb. (17 kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Portable, high-vacuum weld fume extractor designed for use with accessories like nozzles and fume guns to collect weld fume particles at the source.

Designed to capture weld fume. The MERV 15 rating of FilTek XL filters provides superior filtering of up to 95 percent of weld fume particulate.

Unrivaled filtering performance. Designed to capture weld fume particles with a cleanable filter and safely deposit them in an integrated particle bin.

Less noise. Up to 70 percent quieter than some other extractors. Only 68.5 decibels at five feet.

Portable and compact. At only 46 pounds (21 kg) the vertical-shaped machine is easy to move around.

Stock Number (300595)  
Accu-Rated™ Airflow 132 cfm (62 L/sec.)  
Sound Level 68.5 dBA at 5 ft. (1.5 m)  
Motor 1.27 kW  
Input Power 115 V, 1-phase, 60 Hz at 11.25 A  
Dimensions H: 23 in. (584 mm)  
W: 12 in. (305 mm)  
D: 12 in. (305 mm)  
Net Weight 46 lb. (21 kg)
FILTAIR® MWX Series and Capture 5

See literature AY/3.0 (MWX) and AY/3.5 (Capture 5)

Mobile fume extraction systems easily positioned near the weld area and designed specifically for welding. Disposable or cleanable filter models for multiple applications.

Features common to all models

Source capture. Designed to draw weld fume away from the welder’s breathing zone and keep the facility clean.

Superior filters. The MERV 15 rating of our FilTek XL filters provides superior filtering of up to 95 percent of weld fume particulate. They outlast, out-filter, and outperform all the rest.

Class-leading suction power of 875/900 cfm is Accu-Rated™ at the hood to better capture weld fumes and provide a cleaner environment.

Durable aluminum pre-assembled extraction arm with external adjustments for better airflow and longer life.

Self-cleaning models additional features

Upgrade to self-cleaning models for high arc-on time, extracting from heavy fume processes, or when welding aluminum or galvanized materials.

Unrivaled filtering performance. Weld fume particles are captured with a cleanable filter and safely deposited in an integrated particle bin.

Quick and efficient cleaning cycle operates with a push of a button on the control panel. Note: Compressed air required to operate cleaning mechanism.

Disposal drawer provides easy and convenient access to empty out collected particles. Handle releases drawer allowing it to slide out.

Capture 5 model additional features

EXCLUSIVE! ZoneFlow™ technology. Extends the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. See page 102 for more information.

Minimizes downtime with fewer fume extractor adjustments. With increased capture area, arm interactions are dramatically minimized.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Filter Media</th>
<th>Accu-Rated Airflow</th>
<th>Extraction Arm Diameter</th>
<th>Sound Level</th>
<th>Motor</th>
<th>Input Power</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWX-S (Self-Cleaning) (951510) 7 ft. standard arm</td>
<td>490 sq. ft. (45.52 sq. m)</td>
<td>875 cfm (413 L/sec.)</td>
<td>8 in. (203 mm)</td>
<td>Approximately 70 dBA at 5 ft. (1.5 m)</td>
<td>1 hp, 3,450 rpm</td>
<td>115 V, 1-phase, 60 Hz at approximately 11.9 A</td>
<td>H: 34.75 in. (883 mm) W: 31.75 in. (806 mm) D: 48 in. (1,219 mm)</td>
<td>MWX-S: 300 lb. (136 kg)</td>
</tr>
<tr>
<td>(951511) 10 ft. standard arm</td>
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<tr>
<td>(951512) 12 ft. standard arm</td>
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<tr>
<td>MWX-D (Disposable Filter) (951507) 7 ft. standard arm</td>
<td>452 sq. ft. (42 sq. m)</td>
<td>900 cfm (425 L/sec.)</td>
<td>10 in. (254 mm)</td>
<td>Approximately 70 dBA at 5 ft. (1.5 m)</td>
<td>3 hp, 3,450 rpm</td>
<td>208/230 V, 1-phase, 60 Hz at 13.5 A</td>
<td>H: 43 in. (1,092 mm) W: 36 in. (915 mm) D: 48 in. (1,219 mm)</td>
<td>MWX-D: 238 lb. (108 kg)</td>
</tr>
<tr>
<td>(951508) 10 ft. standard arm</td>
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<tr>
<td>(951509) 12 ft. standard arm</td>
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</tr>
<tr>
<td>Capture 5 (Self-Cleaning) (951639) 208/230 V, 10 ft. ZoneFlow arm</td>
<td>490 sq. ft. (45.52 sq. m)</td>
<td>875 cfm (413 L/sec.)</td>
<td>8 in. (203 mm)</td>
<td>Approximately 70 dBA at 5 ft. (1.5 m)</td>
<td>1 hp, 3,450 rpm</td>
<td>115 V, 1-phase, 60 Hz at approximately 11.9 A</td>
<td>H: 43 in. (1,092 mm) W: 36 in. (915 mm) D: 48 in. (1,219 mm)</td>
<td>Capture 5: 620 lb. (282 kg)</td>
</tr>
<tr>
<td>(951640) 208/230 V, 12 ft. ZoneFlow arm</td>
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<tr>
<td>(951574) 460 V, 10 ft. ZoneFlow arm</td>
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<tr>
<td>(951575) 480 V, 12 ft. ZoneFlow arm</td>
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</tbody>
</table>
Stationary fume extraction systems wall- or column-mounted next to the weld area and designed specifically for welding. Disposable or cleanable filter models for multiple applications.

Features common to all models
Source capture. Designed to draw weld fume away from the welder’s breathing zone and keep the facility clean.

Superior filters. The MERV 15 rating of our FilTek XL filters provides superior filtering of up to 95 percent of weld fume particulate. They outlast, out-filter, and outperform all the rest.

Class-leading suction power of 875 cfm is Accu-Rated™ at the hood to better capture weld fumes and provide a cleaner environment.

Durable aluminum pre-assembled extraction arms. Choose from three different arm styles:
- Telescoping arms fit small booth spaces and telescope from 3 to 4.5 feet
- Standard arms cover larger spaces and are available in 7-, 10-, and 12-foot versions
- ZoneFlow arms (self-cleaning models only) extend the capture zone up to 5 feet and are available in 10- and 12-foot versions

Self-cleaning models additional features
Upgrade to self-cleaning models for high arc-on time, extracting from heavy fume processes, or when welding aluminum or galvanized materials.

Unrivaled filtering performance. Weld fume particles are captured with a cleanable filter and safely deposited in an integrated particle bin.

Quick and efficient cleaning cycle operates with a push of a button on the control panel.
Note: Compressed air required to operate cleaning mechanism.

Disposal drawer provides easy and convenient access to empty out collected particles. Handle releases drawer allowing it to slide out.

ZoneFlow™ arm additional features
EXCLUSIVE! ZoneFlow technology. Extends the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. See page 102 for more information.

Minimizes downtime with fewer fume extractor adjustments. With increased capture area, arm interactions are dramatically minimized.

Processes
- Stick (SMAW) • Flux-cored (FCAW)
- MIG (GMAW) • TIG (GTAW)

Comes with
- FilTek™ XL filter
- Pre-assembled arm

Most popular consumables
- Replacement FilTek XL Filters
  300540 For self-cleaning models
  300539 For disposable filter models

Filters efficiently capture the smallest weld fume particles and offer superior filter life

Most popular accessories
- Hood Light with Arc Sensor
  300763 For SWX Series (telescoping and standard arms only) Illuminates the welding zone and enables the fume extractor to start automatically when welding begins

- SWX Dual-Arm Add-On Packages
  951621 With telescoping arm
  951519 With 7 ft. standard arm
  951520 With 10 ft. standard arm
  951521 With 12 ft. standard arm
  951762 With 10 ft. ZoneFlow arm
  951822 With 12 ft. ZoneFlow arm

Includes 8-inch diameter arm, blower, control box, mounting bracket, duct, and back draft dampers to turn single-arm weld fume extractor into dual-arm extractor

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Filter Media</th>
<th>Accu-Rated* Airflow</th>
<th>Extraction Arm Diameter</th>
<th>Sound Level</th>
<th>Motor</th>
<th>Input Power</th>
<th>Dimensions</th>
<th>Net Weight without Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWX-S (Self-Cleaning Model) (951620) Telescoping arm</td>
<td>SWX-D (Disposable Filter) (951619) Telescoping arm</td>
<td>875 cfm (413 L/sec.)</td>
<td>8 in. (203 mm)</td>
<td>Standard: Approximately 75 dBA at 5 ft. (1.5 m) ZoneFlow: Approximately 80 dBA at 5 ft. (1.5 m)</td>
<td>1 hp</td>
<td>Blower motor: 115 V, 1-phase, 60 Hz at approximately 11.9 A ZoneFlow: 115 V, 1-phase, 60 Hz at approximately 12 A</td>
<td>SWX-S H: 33 in. (838 mm) SWX-D H: 29 in. (737 mm) W: 27.25 in. (692 mm) D: 33 in. (838 mm)</td>
<td>195 lb. (88 kg) 130 lb. (59 kg) Blowout/bracket: 95 lb. (43 kg)</td>
</tr>
</tbody>
</table>
ZoneFlow™ Technology

The capture zone redefined. Innovative, extended-capture fume extraction system designed specifically for welding.

ZoneFlow technology extends the capture zone up to five feet deep and four feet wide (versus up to 18 inches from conventional source capture extractors). The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity. Miller exclusive ZoneFlow technology is standard on the FILTAIR Capture 5, and optional on the FILTAIR SWX Series and FILTAIR 4000–12000 models (see pages 100, 101 and above).
FILTAIR® 4000–12000 Accessories

Miller offers a full line of accessories for complete system solutions and turnkey installation.

Easy-to-operate, pre-assembled extraction arms and mounting equipment
- **Telescoping arms** are designed to fit small booth spaces used in training centers and educational booths. Telescopes from 3 to 4.5 feet with a wide range of motion to cover all positions.
- **Standard arms** are designed to cover larger spaces and are available in 7-, 10- and 12-foot versions. External brackets and adjustments allow air to pass through with less resistance giving you stronger cfm (airflow).
- **ZoneFlow™ arms** are designed to cover larger spaces and are available in 10- and 12-foot versions. ZoneFlow arms extend the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. External brackets and adjustments allow air to pass through with less resistance giving you stronger cfm (airflow).
- **Arm mounting bracket and ducting kit** includes a supporting bracket and collar for connecting an extraction arm to ductwork.

![Telescoping arm Standard arm ZoneFlow arm Arm mounting bracket and ducting kit]

<table>
<thead>
<tr>
<th>Model</th>
<th>6-Inch Diameter</th>
<th>8-Inch Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescoping Arm</td>
<td>(301242) 3–4.5 ft. arm</td>
<td>(301237) 3–4.5 ft. arm</td>
</tr>
<tr>
<td>Standard Arm</td>
<td>(300953) 7 ft. arm</td>
<td>(300980) 7 ft. arm</td>
</tr>
<tr>
<td>(300954) 10 ft. arm</td>
<td>(300951) 10 ft. arm</td>
<td></td>
</tr>
<tr>
<td>(300955) 12 ft. arm</td>
<td>(300982) 12 ft. arm</td>
<td></td>
</tr>
<tr>
<td>ZoneFlow Arm with Motor Control Box</td>
<td>(951810) 10 ft. arm</td>
<td>(951758) 10 ft. arm</td>
</tr>
<tr>
<td>(951811) 12 ft. arm</td>
<td>(951759) 12 ft. arm</td>
<td></td>
</tr>
<tr>
<td>Arm Mounting Bracket and Ducting Kit</td>
<td>(300952) 6-Inch Diameter</td>
<td>(300771) 8-Inch Diameter</td>
</tr>
</tbody>
</table>

Spark Cooler®
- Cools sparks using the fume extractor’s airflow
- Very efficient — maximizes the extractor’s power
- Simple design is easy to install

![Spark Cooler]

Cleaner Air with FilTek® XL Filters

The FilTek XL filter’s higher MERV rating means unrivaled filtering performance.

**MERV Comparison**

<table>
<thead>
<tr>
<th>Applicable Weld Fume MERV Rating Categories</th>
<th>Particle Size Range Efficiency %</th>
<th>0.3 to 1 μm</th>
<th>1 to 3 μm</th>
<th>3 to 10 μm</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Not Rated</td>
<td>50–65%</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>11</td>
<td>Not Rated</td>
<td>65–80%</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>12</td>
<td>Not Rated</td>
<td>80–90%</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>13</td>
<td>&lt;75%</td>
<td>90%</td>
<td>90%</td>
<td>90%</td>
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<tr>
<td>14</td>
<td>75–85%</td>
<td>90%</td>
<td>90%</td>
<td>90%</td>
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<tr>
<td>15 Miller® FilTek XL</td>
<td>85–95%</td>
<td>90%</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>16</td>
<td>≥95%</td>
<td>≥95%</td>
<td>≥95%</td>
<td>≥95%</td>
</tr>
<tr>
<td>HEPA</td>
<td>≥99.97%</td>
<td>≥99.97%</td>
<td>≥99.97%</td>
<td>≥99.97%</td>
</tr>
</tbody>
</table>

Filters are rated on a MERV scale, which measures filter efficiency based on particle count. MERV ratings range from 1 to 16, with 16 being the best at filtering small particles — such as those found in weld fumes.

Filters in common air filtration systems often have MERV ratings from 7 to 11. FilTek XL filters are rated at class-leading MERV 15 to capture up to 95 percent of weld fume particulates.

1. American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 52.2
3. HEPA filters are depth loading and have high restrictions to air flow, reducing system performance versus FilTek XL filters.
4. Jenkins, Pierce, Edgar, Particle Size Distribution of GMAW and FCAW

Call us toll-free at 866-931-9730 or email us at FILTAIR@millerwelds.com for information and requests for quotes on custom-engineered solutions to fit your needs.
Respiratory

Designed for comfort
Well-balanced design reduces torque on neck, increasing all-day wear.
Patent-pending Dualtec® manifold system optimizes helmet balance and sound, while six-point air distribution system maximizes cooling through targeted air placement.
Ergonomic headgear provides secure fit without the need for over-tightening.
Lightweight low-profile blower assembly with integrated shoulder straps (PAPR) reduces lower back strain and fatigue.
Lightweight versatile C50 air regulator (SAR) can be positioned horizontally or vertically to naturally align with body movements.

Superior visibility
ClearLight™ Lens Technology optimizes contrast and clarity in welding and light states, easing eye strain.
Shade 5.0 side windows and oversized clear grind shield maximize downward and peripheral visibility, improving sense of surroundings.
Half-shade lens adjustability provides fine shade adjustment for optimized comfort and vision.

Improved productivity
Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.
Low-profile breathing-tube attachment eases on/off process while flexible tubing material reduces breathing tube snags in work cell.
Two lightweight lithium-ion batteries (PAPR) included with each package eliminate downtime.
C50 air regulator (SAR) supplies down to 50-degree Fahrenheit (28°C) Grade-D air under your hood, heightening productivity and relieving heat stress. Performance under different applications may vary. 360-degree swivel air hose connection alleviates hose coiling, reducing potential trip hazards.

PAPR Powered Air-Purifying Respirator  See literature AY/4.1
Available packages:
With T94-R® helmet (external grind control) 264573 With auto-darkening lens assembly
With T94i-R® helmet (integrated clear grind shield) 264575 With auto-darkening lens assembly
With hard hat and Titanium 9400® helmet (external grind control) 259385 With auto-darkening lens assembly
With hard hat and Titanium 9400i® helmet (integrated clear grind shield) 261659 With auto-darkening lens assembly
T94-R® helmet upgrade kit (for use with existing PAPR system) 279870 Includes T94-R® helmet assembly, breathing tube, breathing tube cover and flowmeter
T94i-R® helmet upgrade kit (for use with existing PAPR system) 279871 Includes T94i-R® helmet assembly, breathing tube, breathing tube cover and flowmeter

SAR Supplied Air Respirator  See literature AY/4.3
Available packages:
With T94i-R® helmet (integrated clear grind shield) 951800 With auto-darkening lens assembly and 25 ft. straight air hose
951801 With auto-darkening lens assembly and 100 ft. straight air hose
951802 With auto-darkening lens assembly and 25 ft. coiled air hose
951803 With auto-darkening lens assembly and 100 ft. coiled air hose
264871 With auto-darkening lens assembly (air hose not included)
T94i-R® helmet upgrade kit (for use with existing SAR system) 279870 Includes T94i-R® helmet assembly, breathing tube, breathing tube cover and flowmeter

A complete PAPR system consists of blower assembly, HEPA filter, prefilters (6), spark guard, breathing tube, breathing tube cover, padded belt, comfortable shoulder straps, lithium-ion batteries (2), battery charger, flowmeter, tool bag and helmet assembly (see available packages at left).
- HEPA filter provides up to 99.97 percent filtration of airborne particles
- NIOSH 42 CFR 84 certified, assigned protection factor of 25

A complete SAR system consists of C50 air regulator, belt assembly, flowmeter, breathing tube, breathing tube cover, tool bag, T94i-R helmet assembly and air hose (see available packages at left).
- NIOSH 42 CFR 84 certified, assigned protection factor of 25
- To provide a NIOSH-approved respiratory system, the SAR with T94i-R must be used with Miller® helmet, hoses, connectors, filters and other components recommended by the manufacturer
Respiratory

**LPR-100™ OV Half Mask Respirator**
See literature AY/4.5
- ML00996 Resistor with P100 organic vapor filters (small/medium)
- ML00997 Resistor with P100 organic vapor filters (medium/large)

**Filters and accessories**
- SA00820 P100/OV filters (one pair)
- 285686 Protective hard carrying case
- 261086 Quantitative fit-test kit adapter
  - Low-profile design fits under T94™ and Digital Elite™ Series welding helmets and provides maximum field of vision
  - P100/OV filters provide up to 99.97 percent filtration of specific organic vapors and airborne particulates
  - NIOSH 42 CFR 84 certified, assigned protection factor of 10

**LPR-100™ Half Mask Respirator**
See literature AY/4.5
- ML00894 Resistor with P100 filters (small/medium)
- ML00895 Resistor with P100 filters (medium/large)
- ML00994 Resistor with P100 nuisance level OV relief filters (small/medium)
- ML00995 Resistor with P100 nuisance level OV relief filters (medium/large)

**Filters and accessories**
- SA00818 P100 filters (one pair)
- SA00819 P100 nuisance level OV relief filters (one pair)
- 283374 Protective hard carrying case
- 261086 Quantitative fit-test kit adapter
  - Low-profile design fits under T94™, Digital Elite™ and Classic Series welding helmets and provides maximum field of vision
  - P100 filters provide up to 99.97 percent filtration of airborne particles
  - Nuisance level OV relief filters are designed for use with organic vapor concentrations not exceeding OSHA’s PELs or other applicable government occupational exposure limits, whichever is lower
  - NIOSH 42 CFR 84 certified, assigned protection factor of 10

**N95 Disposable Mask Respirator**
See literature AY/4.8
- 267334-2 Respirator (2 pack)
- 267334 Respirator (10 pack)
- 267335-2 Respirator with nuisance level OV relief (2 pack)
- 267335 Respirator with nuisance level OV relief (10 pack)
  - Flame-retardant outer layer designed for welding applications
  - N95 filters provide up to 95 percent filtration of airborne particles
  - Nuisance level OV relief filters are designed for use with organic vapor concentrations not exceeding OSHA’s PELs or other applicable government occupational exposure limits, whichever is lower
  - NIOSH 42 CFR 84 certified, assigned protection factor of 10

MillerWeldsStore.com

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**MillerWelds.com**

Buy Miller® Gear Online. Shirts, hats, mugs, banners and more!
Welding Helmets

**T94™ Series**  Maximized comfort, visibility and productivity for the professional welder. See literature AY/41.1

<table>
<thead>
<tr>
<th></th>
<th>T94I™</th>
<th>T94*</th>
<th>Digital Infinity™</th>
<th>Digital Elite™</th>
<th>Digital Performance™</th>
<th>Classic VSI™</th>
<th>Classic VS</th>
<th>Classic FS#10 Flip-Up</th>
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<tbody>
<tr>
<td>Viewing Area</td>
<td>9.2 sq. in.</td>
<td>9.2 sq. in.</td>
<td>13.4 sq. in.</td>
<td>9.2 sq. in.</td>
<td>7.2 sq. in.</td>
<td>5.9 sq. in.</td>
<td>5.2 sq. in.</td>
<td>5.1 sq. in.</td>
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<td>Auto-Darkening</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Clear/Light™ Lens Technology</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>AutoSense™</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>Integrated Grind Shield</td>
<td>Yes</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Yes</td>
<td>–</td>
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<tr>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Sensors</td>
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<td>3</td>
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<td>2</td>
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<tr>
<td>TIG Rating</td>
<td>3 amps</td>
<td>3 amps</td>
<td>5 amp/below</td>
<td>5 amp/below</td>
<td>5 amps</td>
<td>5 amp/below</td>
<td>20 amps</td>
<td>20 amps</td>
</tr>
<tr>
<td>Switching Speed</td>
<td>1/20,000 second</td>
<td>1/20,000 second</td>
<td>1/20,000 second</td>
<td>1/20,000 second</td>
<td>1/20,000 second</td>
<td>1/12,000 second</td>
<td>1/12,000 second</td>
<td>1/3,600 second</td>
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<tr>
<td>Digital Controls</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Premium Headgear</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>–</td>
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<tr>
<td>InfoTrack™</td>
<td>Yes - 2.0</td>
<td>Yes - 2.0</td>
<td>Yes - 1.0</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Weight</td>
<td>26 oz. (737 g)</td>
<td>23 oz. (652 g)</td>
<td>18 oz. (510 g)</td>
<td>17 oz. (482 g)</td>
<td>23 oz. (652 g)</td>
<td>16 oz. (454 g)</td>
<td>14 oz. (396 g)</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>2 years</td>
<td>2 years</td>
<td></td>
</tr>
</tbody>
</table>

**Largest viewing area.** Digital Infinity™ Series helmets feature a 13.4-square-inch viewing area allowing for a wide range of view.

**Clear/Light™ Lens Technology** optimizes contrast and clarity in welding and light states. 1/1/1/2 optical clarity rating allows for a lighter light state while not welding, maximizing safety and productivity.

**AutoSense™** reduces issues related to setting helmet sensitivity by allowing the welder to push and hold the AutoSense button to automatically set the helmet sensitivity for their environment.

**Welding Safety and Health**

Statistics above compare T94i to previous model.

**T94™ Series**

**Matte silver finish** reflects ambient heat, keeping the user cooler.

**Four operating modes** for ultimate versatility: weld, cut, grind and X-Mode™.

**Half shade settings** for precise lens adjustment.

**Simplicty digital lens interface** allows for easy adjustment with or without gloves.

**Shade 5.0 side windows** enhance peripheral vision, amplifying sense of surroundings.

**Chiseled shell design** provides optimal skin coverage while easily accommodating a Miller® Half Mask Respirator.

**Gen IV premium headgear** with four-point flexible design provides a secure fit, while avoiding major pressure points within the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.

**InfoTrack™ 2.0** monitors arc time and arc count.

**Best-in-class comfort for all-day wearability** Lightweight, well-balanced design reduces neck torque, minimizing operator fatigue and strain, leading to an increase in comfort.

- **4% LIGHTER** for reduced fatigue
- **14% BETTER BALANCE** for elevated comfort
- **17% LESS TORQUE** for reduced neck strain

Statistics above compare T94i to previous model.

**Helmet Lighting Accessory**

281361

- Provides additional lighting in low-light environments for T94 Series helmets
- Includes two lights (one for each side) and all required mounting hardware
Digital Infinity™ Series  Largest viewing area maximizes visibility.  See literature AY/42.0

Digital Elite™ Series  Industry-leading helmet provides high-performance versatility.  See literature no. AY/43.0

Digital Performance™ Series  See literature AY/44.0
Lightweight helmet with superior headgear for ultimate comfort.

Classical Series  Helmets for the value-minded welder.  See literature AY/45.0

MP-10™ Helmet
Best-in-class traditional passive shade 10 lens helmet.
Helmet Accessories

Weld-Mask™ See literature AY/40.0

Compact auto-darkening lenses allow users to weld in spaces where access with traditional welding helmets is limited. Close-fitting soft eye covering provides total darkness for precision welding. Face shield and flame-retardant head cover provide coverage for UV/IR rays and applications with limited spatter.

Weld-Mask® See literature AY/46.0

- Anti-fog coating and high-quality optics
- Form-fitting orbital eye coverage
- Shatterproof polycarbonate lenses
- Wrap-around designs meet ANSI side shield requirements
- ANSI Z87.1+ compliant
- I/O (indoor/outdoor) lenses feature light shading with a mirrored finish
- Shade 3 and 5 IR lenses are for cutting, brazing or soldering

Safety and Cutting Glasses Chart

<table>
<thead>
<tr>
<th>Frame Style (Color)</th>
<th>Clear Lenses</th>
<th>I/O Lenses</th>
<th>Shade 3 Lenses</th>
<th>Shade 5 Lenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic (Black)</td>
<td>272187</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Slap™ (Black)</td>
<td>272191</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Spark™ (Black/Blue)</td>
<td>272190</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Slap™ (Black)</td>
<td>272201</td>
<td>272202</td>
<td>–</td>
<td>272205</td>
</tr>
<tr>
<td>Gen I (Black)</td>
<td>–</td>
<td>–</td>
<td>235662</td>
<td>235658</td>
</tr>
</tbody>
</table>

Weld-Mask 26370
- Shades 5, 7, 9, 11 and 13 for use with MIG, TIG, stick, and gas welding and cutting
- Extremely lightweight (8 oz.), virtually eliminates neck strain

Weld-Mask 2 280982
- Ideal for industrial or construction environments — can be worn under a hard hat with a Miller® Half Mask Respirator and select safety glasses
- Shades 5–13 for use with MIG, TIG, stick, and gas welding and cutting
- X-Mode® electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked
- Wide, singular lens provides unmatched auto-darkening range of visibility

Welding Safety and Health
Welding Apparel

**Grain Leather Jacket (See size chart)**
- Top-grain pigskin leather
- Expandable leather strategically placed for optimal mobility
- Flame-resistant inside cuff
- Satin lining
- Tapered, athletic cut
- Sewn entirely with Kevlar® thread, adding structural durability at each seam

**Split Leather Jacket (See size chart)**
- Premium pig split leather
- Extended rear tail for additional protection
- Expandable leather strategically placed for optimal mobility
- Mesh lining
- Sewn entirely with Kevlar® thread, adding structural durability at each seam

**WeldX™ Jacket (See size chart)**
- 7-ounce WeldX front and flame-resistant navy cotton back
- Lightweight exclusive material with extreme flame-resistant properties
- Vented back/extended rear tail
- Zipper closure with hook-and-loop fastened flap
- Chromium free

**Combo Jacket (See size chart)**
- 9-ounce Indura® flame-resistant cotton (flame resistance guaranteed for life of jacket)
- Top grain leather
- Pre-shrunk fabric

**Indura® Cloth Jacket (See size chart)**
- 9-ounce Indura® flame-resistant cotton (flame resistance guaranteed for life of jacket)
- Pre-shrunk fabric

**Classic Cloth Jacket (See size chart)**
- 9-ounce flame-resistant navy cotton
- Pre-shrunk fabric
- Fold-in sleeve snaps
- Finished hems and reinforced stitching

---

**Welding Apparel Size Chart**

<table>
<thead>
<tr>
<th>Apparel</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>2X-Large</th>
<th>3X-Large</th>
<th>4X-Large</th>
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<tbody>
<tr>
<td>Grain Leather Jacket</td>
<td>–</td>
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<td>231090</td>
<td>231091</td>
<td>231092</td>
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<tr>
<td>Split Leather Jacket</td>
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<td>273213</td>
<td>273214</td>
<td>273215</td>
<td>273216</td>
<td>273217</td>
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<td>WeldX Jacket</td>
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<td>Indura Cloth Jacket</td>
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<tr>
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<td>244754</td>
<td>244755</td>
<td>244756</td>
<td>244758</td>
</tr>
</tbody>
</table>

---

**Leather Bib/Apron 231125**
- Attaches to combo jacket with snaps across the chest as a bib or along the bottom as an apron

**Combo Sleeves 231096**
- Indura® flame-resistant cotton/top grain leather
- 21-inch length

**Classic Cloth Sleeves 247148**
- 18-inch length
- Fold-in sleeve snaps
- Upper arm elastic band

**Classic Cloth Apron 247149**
- 36-inch length with accessible front pocket
- Adjustable drawstring ensures a good fit
Welding Gloves

Performance — unprecedented comfort and performance with exceptional dexterity and flexibility.

**Heavy-Duty MIG/ Stick**
- Strategically placed patches on palm and back for extended glove life
- Double-layered insulated palm and back
- Pig grain leather palm provides extreme durability and protection

**MIG (Lined)**
- Dual-padded palm
- Fleece-insulated palm, foam-insulated back
- Cow grain palm, pig split back and goat grain inner fingers provide exceptional dexterity and comfort

**TIG**
- Completely unlined for heightened feel and dexterity
- Triple-padded palm for added comfort
- Goat grain leather offers superior flexibility and dexterity

**TIG/Multitask**
- Dual-padded palm for added comfort
- Wool back provides ultimate insulation
- Goat grain leather offers superior flexibility and dexterity

**Metalworker**
- Durable top grain leather and spandex back for enhanced durability and dexterity
- Neoprene wrist with hook-and-loop closure increases fit and support
- Padded, reinforced palm and thumb saddle for extended wear

**Classic Gloves**

**Heavy-Duty MIG/Stick**
- Reflective insulation on back reduces heat impact
- Moisture-wicking fleece and foam insulation
- Pig grain palm, pig split back and cuff

**MIG (Pigskin)**
- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Pig split leather palm, back and cuff

**MIG (Cowhide)**
- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Cow split palm, pig split back and cuff

**TIG**
- Thin internal padding for added comfort
- Unlined palm for precise dexterity
- Sheep grain palm, cow split back and cuff

**Work**
- Dual-padded palm for added durability
- Fleece back provides ultimate insulation
- Cow grain leather offers superior durability and abrasion resistance

---

**Welding Glove Size Chart**

*All asterisked stock numbers are sold as one pair. All others are sold as six packs (six pairs).*

<table>
<thead>
<tr>
<th>Performance Gloves</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>2X-Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty MIG/ Stick</td>
<td>263346</td>
<td>263347</td>
<td>263348</td>
<td>263349</td>
<td>—</td>
</tr>
<tr>
<td>MIG (Lined)</td>
<td>—</td>
<td>263332</td>
<td>263333</td>
<td>263334</td>
<td>269618*</td>
</tr>
<tr>
<td>TIG</td>
<td>263352</td>
<td>263353</td>
<td>263354</td>
<td>263355</td>
<td>—</td>
</tr>
<tr>
<td>TIG/Multitask</td>
<td>—</td>
<td>251066</td>
<td>251067</td>
<td>251068</td>
<td>—</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classic Gloves</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty MIG/Stick</td>
<td>271877*</td>
<td>271887*</td>
<td></td>
</tr>
<tr>
<td>MIG (Pigskin)</td>
<td>279875*</td>
<td>279876*</td>
<td></td>
</tr>
<tr>
<td>MIG (Cowhide)</td>
<td>271890*</td>
<td>271891*</td>
<td></td>
</tr>
<tr>
<td>TIG</td>
<td>279897*</td>
<td>279898*</td>
<td></td>
</tr>
<tr>
<td>Work</td>
<td>266041*</td>
<td>266042*</td>
<td>266043*</td>
</tr>
</tbody>
</table>

---

**Miller recommends**

Innovation
Focused on optimizing quality, ease-of-use and cost

Collaboration
Partnering to meet customer needs

Trusted source
Deep product and application expertise to deliver success

Visit HobartBrothers.com for more information.

More than just filler metal... SOLUTIONS for your business.
Count on Miller to design the perfect workbench to make welding projects faster and easier. The ArcStation is the first-ever, all-in-one workstation designed for welding and metalworking. It’s versatile, affordable and just the right height to work comfortably. You can organize equipment, tools, and raw materials into one convenient workspace.

**ArcStation™ 60SX Fully Loaded**

The 60SX Fully Loaded is perfect for the welder who needs a tough workbench for the fab shop or the home garage.

- **30 x 60 inch size tabletop** provides double the work surface of the 30FX.
- **3/8-inch X-pattern steel tabletop** allows trouble-free clamping.
- **Durable 1/8-inch steel frame with cross bar and heavy-duty tabletops** provide a sturdy area for welding or metalworking.
- **Adjustable leveling feet** keep workbench rock-steady.
- **Comes customized with a wide range of handy accessories** to make this the ultimate workbench (see at right for replacement accessories).

**ArcStation™ 30FX**

When portability or space-savings is a concern, the ArcStation 30FX is your solution.

- **Wheels, handle, and fold-up design** make unit easy to take to the jobsite or move around the shop.
- **Compact size** makes storing unit a breeze. Unit folds down to 6 x 29 x 48 inches (152 x 737 x 1219 mm).
- **30 x 30 inch size tabletop** provides plenty of work surface.
- **3/16-inch X-pattern steel tabletop** allows trouble-free clamping.
- **1.5-inch diameter steel tube frame** provides strength and durability.
- **Includes removable gun holder.**
- **Add optional 6-inch X-clamp (300613)** to make this the ultimate portable workbench.

---

**ArcStation 60SX accessories**

- **Miller ArcStation accessories** allow you to get the most out of your ArcStation.
  1. 6-inch X-clamp 300613
  2. Side Shelf 300680
  3. Tool Chest with ball-bearing slides 300610
  4. 5-inch Quick-remove Vise 300611 With mount
  5. Weld Curtain 300686
  6. Casters 300849

**Convenience Kit 300614**

Includes the following:

- **7. Gun holder**
- **8. Tool holder**
- **9. Clamp bar**

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

---

**Model/Stock Number**

<table>
<thead>
<tr>
<th>Steel Top</th>
<th>Load Capacity</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>60SX Fully Loaded (951793)</td>
<td>(1) 29 x 29 x 3/8 in. solid, (1) 29 x 29 x 3/8 in. X-pattern</td>
<td>1,000 lb. (454 kg)</td>
<td>35 x 38 x 29 in. (889 x 973 x 737 mm)</td>
</tr>
<tr>
<td>30FX (300837)</td>
<td>(1) 29 x 29 x 3/16 in. X-pattern</td>
<td>500 lb. (227 kg)</td>
<td>35 x 39 x 35 in. (889 x 737 x 889 mm)</td>
</tr>
</tbody>
</table>
OpenBook provides FREE interactive online training resources, educational materials and tracking tools. These materials allow welding instructors to assign and deliver welding content, create quizzes, download welding labs, monitor student participation, and assess and report student progress and performance. Visit OpenBook.MillerWelds.com for details.

AugmentedArc® Augmented Reality Welding System

LiveArc™ Welding Performance Management System

Customize your classroom
- Implement materials that fit your curriculum and learning objectives, including:
  - e-Learning modules
  - Weld lab activities
  - Course builder
  - Quiz builder
  - Lab builder
- Track individual student progress
- All material aligns with AWS standards

Motivate and engage students
- Interactive, stimulating learning includes videos and activities
- Quick, digestible segments
- Mobile friendly
  - Easy to access homework from anywhere
  - Students can check grades and status
- Ideal for high school and post-secondary welding programs

Delivering unbeatable advantages
- Optimize instructor efficiency
- Deliver real-time feedback
- Reduce overall training time
- Assess weld operator skills and performance
- Minimize material cost
- Enhance job candidate recruiting and screening
- Build a larger, more-skilled welding workforce

The AugmentedArc augmented reality welding system allows students and trainees to experience the most realistic multiprocess welding simulation available — and then seamlessly transition to the industry’s most complete live arc experience in the LiveArc welding performance management system.
AugmentedArc® Augmented Reality Weld Training

See literature TS/2.0

The industry’s most realistic welding simulation solution for classroom training.

Optimize instructor efficiency by using the Teacher software to create a virtual classroom with customized curriculum, quizzes and weld exercises.

Real-time feedback is provided on users’ technique to help correct errors. Reinforce proper welding practices and accelerate skill advancement prior to actual live arc welding in a lab.

Reduce overall training time. Compared to traditional methods, AugmentedArc significantly reduces the amount of time needed to teach students.

Minimize material cost by saving wire, gas and workpieces in this simulation environment, while allowing students to define their welding skills before live arc welding.

Build a larger, more-skilled welding workforce when computer-savvy individuals are drawn to welding education programs that increase their success.

AugmentedArc system comes complete with:
- AugmentedArc simulator
- Teachers software
- Black Infinity™ AR helmet with premium headgear
- AugmentedArc router
- MIG gun with AR nozzle
- SMAW stinger
- TIG torch with AR nozzle
- Two electrode/filler rods with AR tips
- Work stand for out-of-position applications
- Five workpieces: t-joint, butt joint, lap joint, pipe-to-plate and butt pipe

Optional components

- TIG Foot Pedal Kit 286033
  Includes TIG foot pedal, connection cable and adapter cable
- AugmentedArc Controller 301395
  For multiple system connectivity
- Heavy-duty Transportation Cases 951775
  Protects complete system during transportation or storage – one case holds the simulator and the other holds accessories

LiveArc™ Welding Performance Management System

See literature TS/1.0

The reality-based recruiting, screening, training, and re-qualification solution for industrial, manufacturing and educational markets.

Better and more cost effective training with faster results. Benefit from both weld simulation and the real-world experience of live arc welding with instant, valuable feedback on welding technique to quickly help build skills.

Motion-tracking technology measures the operator’s adherence to preset technique parameters. Cameras track the movement of LEDs embedded in the MIG SmartGun and SMAW SmartStinger during pre-weld simulations and live welds; the system then delivers visual feedback on the operator’s performance via the LiveArc system’s main display.

LiveArc GMAW/FCAW system comes complete with:
- Computer with Intel core i7, 128 GB SSD, fanless cooling, and HDMI port for connection to most secondary monitors (not included)
- 21.5 HD LCD touch screen monitor
- SmartGun with 15 ft. (4.6 m) cable
- Calibration tool
- Two table clamps
- Removable arm extension with C-clamp assembly for out-of-position right- and left-hand applications
- Extra Bernard® consumables

LiveArc GMAW/FCAW/SMAW system includes above plus
- SmartStinger with 12 ft. (3.7 m) cable
- 15 ft. (4.6 m) Dinse-style cable
- Router box
- Software update for SMAW applications

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power</th>
<th>Processes</th>
<th>Positions</th>
<th>Multi-Pass</th>
<th>Rated Output</th>
<th>Electrode Diameter</th>
<th>Simulator Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907714) GMAW/FCAW (907714001) GMAW/FCAW/SMAW system only</td>
<td>120 V, 60 Hz</td>
<td>GMAW, GMAW-S, GMAW-P, FCAW-G</td>
<td>2F–4F, 1G–4G</td>
<td>Grove and fillet up to 1 in. (25 mm) plate</td>
<td>SmartGun: 400 A at 60% duty cycle (mixed gases)</td>
<td>SmartGun: Up to 5/64 in. (2 mm)</td>
<td>H: 77.5 in. (1,969 mm) W: 46 in. (1,168 mm) D: 31 in. (787 mm)</td>
<td>GMAW/FCAW system: 480 lb. (218 kg) GMAW/FCAW/SMAW system: 527 lb. (239 kg)</td>
</tr>
</tbody>
</table>
**Accessories**

**Automated MIG**
For adapters and drive motors, visit MillerWelds.com.

- **Coolant Flow Switch** 195461
  For water-cooled guns. To ensure coolant is flowing in the system. Module allows wiring into the peripheral connector port. A lack of coolant flow may cause damage to water-cooled guns.

**Cable Connectors and Adapters**
Also see Torch and Weld Cable Connectors in TIG Accessories on page 121.

- **Tweco-Novotect® Cable Connectors**
  For AlumaFeed system, Invision 352 MPa, XMT 350, CST, Maxstar, Dynasty and Syncrowave. These power sources are equipped with Dinse- or Tweco-style connectors for secondary connections. Power sources are shipped with two male plugs for use with #4 to #1/0 AWG cable.

- **Dinse-Style Connector Kits**
  042418 Accepts #4 to #1/0 AWG cable
  042533 Accepts #1/0 to #2/0 AWG cable
  Kits include one male Dinse-style plug which attaches to the work and/or weld cables and plugs into the Dinse-style receptacles on the power source.

- **Extension Kits for Cables**
  134460 Male Dinse-style plug
  136600 Female Dinse-style receptacle
  Used to adapt or extend weld and/or work cables. Kit includes one male Dinse-style plug and one in-line female Dinse-style receptacle.

**Engine Drive Accessories**
116–117
- Big Blue Accessories • Blue Star Accessories
- Bobcat and Trailblazer Accessories
- Generator Accessories • Protective Covers • Trailers

**Carts, Cylinder Racks and Running Gear**
Also see Engine Drive Accessories on page 116.

- **Feeder Cart** 143282
  A low-profile, creeper cart which allows the operator to easily move the feeder around the work area.

- **Universal Cart and Cylinder Rack** 042934
  For Invision 352 MPa, XMT 350, CST, Diversion, Maxstar 210/280 and Dynasty 210/280. Also accommodates a single gas cylinder up to 56 inches (1,422 mm) high measuring 6 to 9 inches (152 to 229 mm) in diameter. Provides storage for auxiliary items such as electrodes, helmets and gloves.

- **Running Gear/Cylinder Rack** 301239
  For Millermatic 141/211, Multimatic 200/215 and Diversion. Heavy-duty construction with 8-inch rubber rear wheels, convenient front handles, cable holders and plastic consumable box. For gas cylinders no greater than 7 inches (178 mm) in diameter or 65 pounds (29.5 kg) in weight.

- **Dual Cylinder Rack with Running Gear** 951769
  Also available separately for use with EZ-Latch Single Cylinder Running Gear above.

**Cable Connectors and Adapters**
Also see Torch and Weld Cable Connectors in TIG Accessories on page 121.

- **Tweco®-Dinse Adapter** 210061
  One-piece adapter with Tweco-style male plug (to power source) on one end and Dinse-style female receptacle (for weld cable connection) on other end.

- **Dinse/Cam-Lok® Connector**
  042465 One-piece adapter with Dinse-style male plug (to power source) on one end and Tweco or Cam-Lok female receptacle (for weld cable connection) on other end.

**Load Banks**

**MIG Accessories**
- Machine and Gun Accessory Kits • Protective Covers

**Plasma Cutter Accessories**
- Automatic Kits • Cables and Cable Covers
- Cutting Guides • Filters • Plugs and Cords
- Protective Case • Torches

**Polarity Switches/Controls**
119

**Remote Controls and Wireless Remote Controls**
119–121

**Stick Accessory Kits**
119

**Submerged Arc Accessories**
- Cables • Torch Accessories
- Wire Drive Assembly Accessories

**TIG Accessories**
120–121
- Kits • Protective Case/Covers • Remote Controls
- Torch and Weld Cable Connectors

**Wire Feeder Accessories**
122
- Extension Cables (14-pin) • Power Supply Adapter
- Spool Adapter • Spool Gun Controls and Kits
- Turntable Assembly • Wire Straightener

**Dual EZ-Change™ Low Cylinder Rack with Elevated Gun and Cable Rack** 300337
For Millermatic 212 Auto-Set/252 and Syncrowave 210. Allows operators to easily roll cylinders on and off the rack with no lifting and keeps cables off the floor and tangle free. Elevated Gun and Cable Rack (300335) is also available separately for use with factory-installed single-cylinder rack.

**EZ-Latch™ Single Cylinder Running Gear** 301449
For Millermatic 255 and Multimatic 255. Running gear with a single-cylinder rack and storage compartment. Machine is secured to cart by latches that rotate to disengage machine for easy portability.

**EZ-Latch™ Dual Cylinder Rack Running Gear** 951481
(301481) is also available separately for use with EZ-Latch Single Cylinder Running Gear above.

**Dual Cylinder Rack**
951770
For Millermatic 141/211, Multimatic 200/215 and Diversion. Similar to Running Gear/Cylinder Rack 301239, but with dual-cylinder rack and a bracket that holds a variety of tools.

**Dual Cylinder Rack Conversion Kit and Tool Holder** (301454)
Is also available separately for use with Running Gear/Cylinder Rack above.

**Dual Cylinder Rack**
195299
For Millermatic 350P/350P Aluminum. Replaces single-cylinder rack.
Coolmate 1.3 300972 120 V
For Maxstar 210/280 and Dynasty 210/280. Light industrial, 1.3-gallon cooler designed for water-cooled torches on power sources rated up to 280 amps*.

Coolmate 3 043007 120 V 043008 240 V
Economical, 3-gallon cooler designed for water-cooled torches rated up to 500 amps*.

Coolmate 3.5 300245 120 V
For Maxstar 400/800 and Dynasty 400/800. Industrial, 3.5-gallon cooler designed for water-cooled torches rated up to 600 amps*.

Coolmate 4 042288 120 V
Best performer in its class – industrial, 4-gallon cooler designed for water-cooled torches rated up to 600 amps*.

Accessories

Coolmate™ Coolant Systems

Coolant Systems

Coolant

Sold in multiples of four in 1-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).

Low-Conductivity Coolant (clear, pre-mixed) 043810
For TIG and MIG applications. NOT for use in push-pull systems or systems where aluminum is in coolant path/circuit.

Aluminum-Protecting Coolant (green, pre-mixed) 043809
Primarily used in push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.

Model | Motor Input Voltage | Maximum Current Draw | Maximum Cooling Capacity | IEC Cooling Capacity | Tank Capacity | Dimensions | Net Weight
--- | --- | --- | --- | --- | --- | --- | ---
Coolmate 1.3 | 115 V, 60 Hz | 4.7 A (60 Hz) | 3,400 W (11,600 Btu/hr.) | 1.820 W (6,480 Btu/hr.) | 1.3 gal. (4.9 L) | H: 11.25 in. (286 mm) W: 10.38 in. (264 mm) D: 24 in. (610 mm) | 43 lb. (20 kg)

Coolmate 3 | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 3,620 W (12,260 Btu/hr.) | 1.420 W (5,110 Btu/hr.) | 3 gal. (11.4 L) | H: 13.25 in. (337 mm) W: 12.25 in. (311 mm) D: 23.25 in. (589 mm) | 40 lb. (18 kg)

Coolmate 3 | 230 V, 50/60 Hz | 2.5 A (50 Hz), 3.0 A (60 Hz) | 2,440 W (8,550 Btu/hr.) | 1.680 W (5,960 Btu/hr.) | 3.5 gal. (13.2 L) | H: 11.75 in. (298 mm) W: 15.75 in. (400 mm) D: 26 in. (660 mm) | 64 lb. (29 kg)

Coolmate 3.5 | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 4,140 W (14,000 Btu/hr.) | 1.680 W (5,960 Btu/hr.) | 4 gal. (15 L) | H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm) | 38 lb. (17 kg)

Coolmate 4 | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 5,500 W (18,900 Btu/hr.) | 1.780 W (6,070 Btu/hr.) | 4 gal. (15 L) | H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm) | 38 lb. (17 kg)

Coolmate 4 | 230 V, 50/60 Hz | 2.5 A (50 Hz), 3.0 A (60 Hz) | 3,300 W (11,200 Btu/hr.) | 1.560 W (5,480 Btu/hr.) | 4 gal. (15 L) | H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm) | 38 lb. (17 kg)
Bobcat and Trailblazer Accessories (Gas/LP)

Blue Star Accessories

Big Blue Accessories

Engine Drive Accessories

Also see Trailers on page 117.

Bobcat and Trailblazer Accessories (Gas/LP)

Multi-Terrain Running Gear 300140 For Bobcat 200 Air Pak. Includes two heavy-duty Never Flat™ 15-inch tires, two 8-inch rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.

Multi-Terrain Running Gear 300913 Inner tubes 300914 Never Flat™ tires For gas/LP Bobcat and Trailblazer (except Air Pak models). Includes two heavy-duty 15-inch tires, two 8-inch rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.

Off-Road Running Gear 300909 Inner tubes 300910 Never Flat™ tires For gas/LP Bobcat and Trailblazer (except Air Pak models). Includes four heavy-duty 15-inch tires and a rugged handle to provide maximum maneuverability.

Off-Road Running Gear with Protective Cage and Never Flat™ Tires 300912 For gas/LP Bobcat and Trailblazer (except Air Pak models). Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.

Protective Cage with Cable Holders 300921 For gas/LP Bobcat and Trailblazer (except Air Pak models).

Protective Cage with Cable Holders 300473 For Trailblazer 302 Air Pak.

Rugged cage with cable holders protects your investment. Works with Running Gear, Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.

Gas Cylinder Mounting Assembly 300918 For gas Bobcat and Trailblazer (except Air Pak models). Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.

Hose and LP Tank Mounting Assembly 300917 For LP Bobcat and Trailblazer. Designed for use with Running Gear, Protective Cage or Running Gear. Without Protective Cage or Running Gear. For Big Blue 600 Air Pak/800 Series with Deutz.

Remote Oil Drain and Filter Kit 300923 Field For gas Bobcat and Trailblazer (except Air Pak models). Front mount for Kohler engines makes servicing easy when engine drive is mounted in tight spots.

Retail Oil Drain and Filter Systems 300898 For gas Bobcat and Trailblazer (except Air Pak models). For use with running gear for easy access to oil drain and filter.

Protective Covers

Protective covers (300919) and (195301) shown.

Protective Covers

Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of the welder.

Protective Covers

301245 For Fusion and Blue Star.

301475 For gas Bobcat 200 Air Pak without Running Gear.

301476 For gas Bobcat 200 Air Pak with Running Gear.

301531 For diesel Bobcat 200 Air Pak without Running Gear.

301532 For diesel Bobcat 200 Air Pak with Running Gear.

300919 For gas Bobcat and Trailblazer (except Air Pak models) without Protective Cage or Running Gear.

300920 For gas Bobcat and Trailblazer (except Air Pak models) with Protective Cage or Running Gear.

301099 For diesel Bobcat 250 and Trailblazer 325 without Protective Cage or Running Gear.

300379 For Trailblazer 302 Air Pak.

195301 For Big Blue 400 Pro/400 PipePro/450 Duo CST.

301495 For Big Blue 500 Pro/600 Pro with Kubota.

301113 For Big Blue 600 Air Pak/800 Series with Deutz.

Generator Accessories


Full KVA Adapter Cord 300517 For Bobcat, Trailblazer and Big Blue models. NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

Full KVA Plug Kit 119172 1-phase, 120/240 V, 50 A plug (NEMA 14-50P). For Bobcat, Trailblazer and Big Blue models.

165963 3-phase, 480 V, 30 A plug (NEMA L16-30P). For Bobcat 3 Phase.

254140 3-phase, 240 V, 50 A plug (NEMA 15-30P). For Big Blue 500 Pro/600 Series/800 Series.

Accessories

Cable Holder 043946 For Big Blue 500 Pro/600 Series/800 Series.

Vandalism Lockout Kit 399802 Field For Big Blue 500 Pro/600 Series. Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.

Lifting Eye 195353 For Fusion and Blue Star.

Running Gear 301246 For Fusion and Blue Star. Compact and balanced, lightweight wheelbarrow-style running gear provides easy onsite mobility.

Bobcat and Trailblazer Accessories (Diesel)

Protective Cage with Cable Holders 195331 For diesel Bobcat 250 and Trailblazer 325. Rugged cage with cable holders protects your investment. Works with Running Gear, or with trailer.
**Trailsers** See literature AY/20.0

**HWY-Mid Frame Trailer 301438**
For Bobcat, Trailblazer and Big Blue 400 Pro/400 PipePro/450 Dup CST. A 1,424-pound (646 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye.

**HWY-225 Trailer 301338**
For Big Blue models. A 2,700-pound (1,225 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye.

**4 West Four-Wheel Steerable Off-Road Trailer 042801**
For Big Blue 500 Pro/600 Series/800 Series. A heavy-duty 2,550-pound (1,157 kg) capacity trailer designed for use in mines, quarries and other rough terrain. Has narrow 22-foot (6.7 m) turning radius. Includes 3-inch (76 mm) lunette eye, universal hitch and safety chains.

**Load Banks**

**MIG Accessories**

**Machine and Gun Accessory Kits**

**Industrial MIG 4/0 Kit (with lugs)** 300390 For single-wire feeders.

**Industrial MIG 4/0 Kit (with Dinse-style connectors)** 300405 For single-wire feeders.

**Industrial MIG 4/0 Kit (with Dinse-style connectors)** 300956 For dual-wire feeders.

**MultiMIG™** **M-Series Gun Consumable Kits**

**234607** .023 in. (0.6 mm) wire

**234608** .030 in. (0.8 mm) wire

**234609** .035 in. (0.9 mm) wire

For M-100/M-150 guns. Kits include ten contact tips, one tip adapter, one standard nozzle and a consumable storage box.

**Protective Covers**

**301262** For Millermatic 141/211 and Multimatic 215.

**301524** For Multimatic 220 AC/DC.

**301521** For Millermatic 255 and Multimatic 255. Features side pocket.

**195142** For Millermatic 212 Auto-Set/252/350P/350P Aluminum and Syncrowave 210. Features side pocket.
### Plasma Cutter Accessories

#### Automation Kits

Automation Kit for Spectrum 875 Auto-Line 301157

Upgrades hand-held torch packages to add machine torch capabilities. Automation kit for Spectrum 875 Auto-Line (301157) includes a remote pendant control for manual on/off. Machine torches are NOT included in kits and must be ordered separately.

#### Cables and Cable Covers

**Cable Covers**

- **Flexible Work Cable**
  - 234838: 20 ft. (6.1 m)
  - 234930: 50 ft. (15.2 m)

Work cable with quick connect and heavy-duty clamp.

- **Cable Covers**
  - 239642: 20 ft. (6.1 m)
  - 231867: 25 ft. (7.6 m)
  - 231868: 50 ft. (15.2 m)

#### Cutting Guides

**Plasma Circle-Cutting Guides** 253055

For XT30/XT40/XT60 torches. Cut straight lines or circles up to 12 inches in diameter.

**Suction/Magnetic Pivot Base** 199579

Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 30 inches in diameter.

**Plasma Standoff Roller Guide** 253054

Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

#### Filters

- **In-Line Air Filter Kit** 228928

- **RTI Filter and Bracket** 300491
  - For Spectrum 875/875 Auto-Line. Dryer will remove water, dirt and oil as small as one micron with 99.9 percent efficiency. Can be mounted on plasma cutter or on wall. Install as close as possible to point of air consumption. Replaceable filter element (212771).

#### Plugs and Cords

**MVP™ Plugs**

- **219258**
  - For 6-50P power cable (230/240 V, 50 A).

- **219261**
  - For 5-15P power cable (115/120 V, 15 A).

- **219259**
  - For 5-20P power cable (115/120 V, 20 A).

**MVP™ Adapters**

- **254328**
  - For connection to 6-50P receptacle (240 V, 50 A).

- **254330**
  - For connection to 5-15P receptacle (120 V, 15 A).

- **254331**
  - For connection to 5-20P receptacle (120 V, 20 A).


#### Torches

See your Miller® distributor for complete information on the following XT plasma torches and their consumables:

**Spectrum Plasma Cutter Hand-Held Torches**

- **For Spectrum 375 X-TREME**
  - 249949: 12 ft. (3.7 m) XT30
  - 249953: 20 ft. (6.1 m) XT40
  - 249954: 50 ft. (15.2 m) XT60

- **For Spectrum 625 X-TREME**
  - 260633: 12 ft. (3.7 m) XT30
  - 260635: 20 ft. (6.1 m) XT40

- **For Spectrum 875 and 875 Auto-Line**
  - 249953: 20 ft. (6.1 m) XT60
  - 249954: 50 ft. (15.2 m) XT60

**Spectrum 875 and 875 Auto-Line Plasma Cutter Machine Torches**

- **For Spectrum 375 X-TREME**
  - 249955: 25 ft. (7.6 m) long body XT60M
  - 249956: 50 ft. (15.2 m) long body XT60M
  - 257464: 25 ft. (7.6 m) short body XT60M
  - 263952: 50 ft. (15.2 m) short body XT60M

**Plasma Torch Consumable Kits**

- **253520**
  - For XT30 torch. Includes five electrodes, five tips, one swivel ring, one retaining cup, one o-ring and silicone grease.

- **253521**
  - For XT40 torch. Includes five electrodes, five 40-amp tips, three 30-amp tips, one 40-amp drag shield, one deflector, one o-ring, one swivel ring, one retaining cup, one 40-amp gauge tip, one gouge shield and silicone grease.

- **256033**
  - For XT60 torch. Includes three standard electrodes, three standard tips, one drag shield, one deflector, one o-ring, one swivel ring, one retaining cup, one gouge tip, one gouge shield and silicone grease.

**X-CASE** 300184

- **For Spectrum 375 X-TREME/625 X-TREME.**

Each consumable kit includes a storage box.

**Full KVA Adapter Cord** 300517

NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

**230-Volt Extension Cord** 770644

20-foot (6.1 m) NEMA 6-50P to NEMA 6-50R heavy-duty extension cord. 8-gauge cord has lighted ends that show power is on and a molded integrated strain relief.
Polarity Switches/Controls

Polarity Control 042871
This dual-function control is designed for use with dual wire feeders or any application where electrical isolation and/or polarity reversing of weld current is required. Both functions can be used at the same time.

Process Selector Control 042872
For CC, CV or CC/CV welding power source. Provides easy way to change welding process. Also includes features of Polarity Control.

Remote Controls
Also see Remote Controls in TIG Accessories on pages 120 and 121.

PRHC-14 Hand Control 195511
For all solid-state power sources after serial number JK674521. Complete current or voltage control brings 120 volts of GFCI power to work area and light aluminum case and includes features of Polarity Control.

Stick Accessory Kits

No. 2 Stick Cable Sets 195196 15 ft. (4.6 m) 300836 50 ft. (15 m)
Consists of either 15- or 50-foot electrode cable with holder and work cable with clamp. 200 A, 100% duty cycle.

2/0 Stick Cable Sets 173851 50 ft. (15 m), 350 A 043952 100/50 ft. (30/15 m), 300 A
Consists of either 50- or 100-foot 2/0 electrode cable with holder and 50-foot work cable with clamp. 100% duty cycle.

Weld Cables 195457 2/0 cable with electrode holder, 400 A 195458 2/0 cable with work clamp, 400 A 301387 1/0 cable with electrode holder, 250 A
Consists of a stud/Tweco® adapter and 10-foot (3 m) weld cable with a Tweco male connector and either an electrode holder or work clamp.

2/0 Weld Cable Extensions 195456 50 ft. (15 m) 195455 100 ft. (30 m)
Extends weld cables (195457, 195458 and 301387).

Submerged Arc Accessories

Cables

SubArc Control Cables 260622030 30 ft. (9.1 m) 260622050 50 ft. (15 m) 260622060 60 ft. (18.3 m) 260622080 80 ft. (24.4 m) 260622100 100 ft. (30.5 m) 260622120 120 ft. (36.6 m) 260622200 200 ft. (61.0 m)
Cable between SubArc Interface or Motor Control and power source.

Flux Hopper Extension Cables 260623010 10 ft. (3 m) 260623025 25 ft. (7.6 m) 260623065 65 ft. (19.8 m)
Cable between SubArc Interface or Motor Control and flux hopper.

Motor Extension Cables 254232005 5 ft. (1.5 m) 254232010 10 ft. (3 m) 254232025 25 ft. (7.6 m) 254232065 65 ft. (19.8 m)
Cable between SubArc Interface or Motor Control and drive motor.

Continuum Motor/Control Cables 263368015 15 ft. (4.6 m) 263368025 25 ft. (7.6 m) 263368050 50 ft. (15 m) 263368080 80 ft. (24.4 m) 263368100 100 ft. (30.5 m)
Cable between SubArc Motor Control and SubArc Remote Pendant.

SubArc Parallel Cable 260775015 15 ft. (4.6 m)

SubArc Tandem Cable 260878015 15 ft. (4.6 m)

Torch Accessories

OBT 600 Torch Body Extensions 043967 1 inch (25.4 mm) 043968 2 inch (50.8 mm) 043973 4 inch (101.6 mm) 043975 6 inch (152.4 mm)

OBT 1200 Torch Body Extension 043981
Overall length with extension is 9 inches (22.9 mm). Actual length of extension is 8.5 inches (215.9 mm).

OBT Torch Contact Tips 043989 044000 OBT 600 OBT 1200 Wire Size 192700 192141 1/16 in. (1.6 mm) 192701 199026 5/64 in. (2.0 mm) 192702 192142 3/32 in. (2.4 mm) 192703 200771 7/64 in. (2.8 mm) 192704 192143 1/8 in. (3.2 mm) 192705 192144 5/32 in. (4.0 mm)

1200-Amp Twin-Wire Torch Contact Tips 264595 3/64 in. (1.2 mm) 264596 1/16 in. (1.6 mm) 264597 5/64 in. (2.0 mm) 264588 3/32 in. (2.4 mm)

Wire Drive Assembly Accessories

Drive Rolls
132955 1/16 in. (1.6 mm) 132960 5/64 in. (2.0 mm) 132961 3/32 in. (2.4 mm) 132962 7/64 in. (2.8 mm) 132963 1/8 in. (3.2 mm) 193700 5/32 in. (4.0 mm)

Single-Wire Straightener 199733
For OBT 600 and OBT 1200 single-wire torches. For 1/16–5/32 inch (1.6–4.0 mm) wire.

Twin-Wire Straightener 301160
For 1200-amp twin-wire torch only. Single adjustment.

Manual Single Slide 301137
Provides smooth and accurate movement of the welding heads. Allows for 7.87 inch (200 mm) travel adjustment with load capacity of 220 pounds (100 kg) at 1.64 feet (500 mm). Not recommended for tandem.

Wire Reel 108008
Supports 60-pound (27 kg) coil of wire. Requires Spool Support Assembly (119438).
**TIG Accessories**

**Kits**

- A-200 torch with RCCS-14 kit shown.

**Contractor Kit**

- 301309 A-150 torch with RFCS-14 HD foot pedal
- 301311 A-150 torch with RCCS-14 fingertip
- 301549 A-200 torch with RFCS-14 HD foot pedal
- 301550 A-200 torch with RCCS-14 fingertip
- 301311 A-200 torch with RFCS-14 HD foot pedal
- 301309 A-150 torch with RCCS-14 fingertip

**TIG Contractor Kit**

- 301287 For Multimatic 200.
- 301337 For Multimatic 215.
- 300185 250 A, W-250 (WP-20)
- 300186 400 A, W-400 (WP-20)
- 300187 400 A, W-400 (WP-18SC)
- 301268 280 A, W-280 (WP-20)
- 300507 For Maxstar 210/280 and Dynasty 210/280.
- 301381 For Maxstar 210.
- 301382 For Maxstar 280 and Dynasty 210/280.

**Remote Controls**

- 14-Pin to 6-Pin Adapter Cord 300507 For Maxstar 161 STL/STH and Multimatic 200.
- 151086 26.5 ft. (8 m) cord with plug
- 13.25 ft. (4 m) cord with plug
- 26.5 ft. (8 m) cord with plug
- 13.25 ft. (4 m) cord with plug
- 26.5 ft. (8 m) cord with plug
- 13.25 ft. (4 m) cord with plug
- 26.5 ft. (8 m) cord with plug

**Protective Case/Covers**

- X-CASE 301429 For Maxstar 161 models.

- Protective covers (300579) and (301382) shown.
- 300579 For Diversion.
- 301381 For Maxstar 210.
- 301382 For Maxstar 280 and Dynasty 210/280.

**Weldcraft® Water-Cooled Torch Kits**

- 300185 250 A, W-250 (WP-20)
- 300990 280 A, W-280 (WP-280)
- 301268 375 A, W-375
- 300186 400 A, W-400 (WP-18SC)

**Accessories**

- For Maxstar (except 161 models), Dynasty, and Syncrowave 300. Kit comes with 25-foot (7.6 m) TIG torch with Dinse-style connector (thread-lock on 400-amp kit), torch cable cover, work clamp with 15-foot (4.6 m) cable [12-foot (3.7 m) cable on 400-amp kit], flowmeter regulator with gas hose, and gas lens accessory kit.

- Great for applications that require a finer amperage control.

- North/south rotary-motion fingertip current/contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for applications that require a finer amperage control.

- Recoil extension cord with plug. Reconfigurable cord can exit front, back or either side of the pedal for flexibility.

- 10-Pin to 14-Pin Adapter Cord 301545 For Multimatic 255. Allows standard 14-pin TIG remote controls to be used with the Multimatic 255.

- 100 ft. (30.5 m) cord with plug
- 20 ft. (6 m) cord with plug

- Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 26.5-foot (8 m) cord with plug.

- Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord with plug.

- Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord with plug.

- Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord with plug.

- Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord with plug.

- Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord with plug.
Wireless Remote Foot and Hand Controls

Includes productivity, saves money, improves safety and easy to use.

Improves productivity and maneuverability by eliminating cord tangles. Reduces clean up time and work area cord clutter.

Improves safety by eliminating control cord and reducing potential trip hazard.

Improves reliability by eliminating control cord failure.

Multiple frequency sharing allows up to 20 systems to operate in a 90-foot (27.4 m) radius with accuracy and precision — and without delay, system interference, or crosstalk.

Easy-to-install receiver plugs directly into the 14-pin receptacle of Miller® machines.

Easily programmable. Control can be quickly and easily paired with any other Miller 14-pin wireless receiver. (Control is preprogrammed when purchased with the receiver.)

*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. 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.

Foot control

Foot control is designed specifically for TIG welding in manufacturing, fabrication and plant applications, allowing operator to adjust amperage at point of use without the limitations of remote cord.

Auto on feature extends the battery life up to 250 hours of welding without turning the pedal on and off.

Easy-Glide Wear Pads™ glide across concrete, making it easy to reposition the pedal for comfort and speed.

Hand control

Hand control is designed for stick, TIG, MIG and flux-cored welding, allowing operator to adjust parameters for different joint configurations, electrodes and wire types/sizes at the point of use instead of walking back to the machine.

Allows parameter adjustments up to 300 feet away from welder without returning to machine.

Improves weld quality. Operators can adjust their machines to optimize the parameters for different joint configurations, electrodes, and wire types and sizes.

Smart Touch™ buttons allow quick and accurate machine parameter adjustments.

Digital meter display allows presetting percentage of machine output before welding, and viewing amperage and voltage while welding.

Torch and Weld Cable Connectors

**Air-Cooled TIG (GTAW) Torch Connectors**

- **273483**
  - For Multimatic 200/215/220 and Maxstar 163. 25 mm (small) Dinse-style gas thru for one-piece air-cooled torches.

- **194723**
  - A-200 (WP26)
  - All others For Syncrowave 210. 50 mm Dinse-style gas thru for one-piece air-cooled torches.

- **195379**
  - A-200 (WP26)
  - All others For Multimatic 255, CST, Maxstar 210/280/400, Dynasty 210/280/400 and Syncrowave 300. 50 mm Dinse-style for one-piece air-cooled torches.

**Water-Cooled TIG (GTAW) Torch Connectors**

- **50 mm Dinse-Style Flow Thru 195380**
  - For Syncrowave 210. Used with all Weldcraft® water-cooled torches.

- **50 mm Dinse-Style with Water Return Line 195377**
  - For Maxstar 210/280/400, Dynasty 210/280/400 and Syncrowave 300. Used with all Weldcraft® water-cooled torches.

**Wireless 14-pin receiver (included with both systems)**

Wireless Hand Control System (300429)

- Foot control (transmitter)
  - Three AA batteries
  - Battery life: 250 hours
  - Rated Range: 90 ft. (27.4 m)
  - Temperature: -13° to +185°F (-25° to +70°C)
  - Power Frequency: 2.4 GHz (ISM band)
  - RF Power: ≤3 mW
  - Antenna: Internal
  - Dimensions: H: 6 in. (152 mm) W: 5.75 in. (146 mm) D: 11.5 in. (292 mm)
  - Weight: 3 lb. (1.4 kg) w/batteries

Wireless Hand Control System (300436)

- Hand control (transmitter)
  - Three AA batteries
  - Battery life: 300 ft. (91 m)

Suggested power sources

Look throughout this catalog for the icon above signifying compatibility with a wireless remote. For a complete power source compatibility list visit, MillerWelds.com/wireless.
**Accessories**

**Wire Feeder Accessories**

**Extension Cables (14-Pin)**

- **8-Conductor Cables**
  - 242208025 25 ft. (7.6 m)
  - 242208050 50 ft. (15 m)
  - 242208080 80 ft. (24.4 m)
  For SuitCase 12RC feeder, 20 Series feeders, and 70 Series (except MPa Plus) feeders. For 14-pin remote controls and 24 VAC wire feeders. 14-pin plug to a 14-pin socket. (Not for 115-volt XR feeders.)

- **242208025**
  - 25 ft. (7.6 m)
  For SuitCase 12RC feeder, 20 Series feeders, and 70 Series (except MPa Plus) feeders. For 14-pin remote controls and 24 VAC wire feeders. 14-pin plug to a 14-pin socket. (Not for 115-volt XR feeders.)

- **11-Conductor Cables**
  - 247831025 25 ft. (7.6 m)
  - 247831050 50 ft. (15 m)
  - 247831080 80 ft. (24.4 m)
  For XR-AlumaFeed and MPa Plus feeders. Eleven conductors to support contactor control and remote voltage control on all Miller® electronic constant-voltage (CV) 14-pin power sources. Additional functions supported when using the Invision MPa or XMT MPa power sources include synergic pulsed MIG, remote process select and side select capabilities.

- **14-Conductor Cables**
  - 242205025 25 ft. (7.6 m)
  - 242205050 50 ft. (15 m)
  For HDC and WC-115 weld controls. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

**Power Supply Adapter**

- **PSA-2 Control 141604**
  - Required when using SuitCase 12RC, 20 Series, and 70 Series feeders with power sources having only 115-volt power available. Control is equipped with a 14-pin receptacle and a 10-foot (3 m) interconnecting cord with Hubbell connections for older-style power sources. Can also be used with competitive power sources requiring a contact closure for contactor control.

- **PSA-2 Extension Cord 047813**
  - 25-foot (7.6 m) cord extends 10-foot (3 m) cord supplied with PSA-2 control (4-pin to 4-pin connection).

**Spool Adapter 047141**

For use with 14-pound (6.4 kg) spool of Hobart or Lincoln self-shielding wire.

**Spool Gun Controls and Kits**

For more information see literature M/1.5, M/1.73 and M/1.76.

- **SGA 100 043856**
  - Required to connect Spoolmate 3035 spool gun to any Millermatic 141/211. Also allows connection to virtually any similar MIG welder – Miller or other brands. Includes 10-foot (3 m) 115-volt power cable with plug, 6-foot (1.8 m) interconnecting cable, and 5-foot (1.5 m) gas hose.

- **SGA 100C 043857**
  - SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like the Miller Bobcat. Includes 10-foot (3 m) 115-volt power cable with plug, 6-foot (1.8 m) interconnecting cable, and 5-foot (1.5 m) gas hose.

**WC-115A Weld Control 137546**

- Without contactor
  - 137546011 137546 115-volt power and designed primarily for constant-current DC power sources. Can also be used with constant-voltage (CV) power sources or DC engine drives supplying 115 volts. Used with a constant-current (CC) source the control circuit functions in a voltage-sensing mode, and with a CV source it functions as a constant-speed circuit. Includes wire run-in and drive motor acceleration controls which ensure optimum arc starting performance.

- With contactor
  - 137546011 137546 115-volt power and designed primarily for constant-current DC power sources. Can also be used with constant-voltage (CV) power sources or DC engine drives supplying 115 volts. Used with a constant-current (CC) source the control circuit functions in a voltage-sensing mode, and with a CV source it functions as a constant-speed circuit. Includes wire run-in and drive motor acceleration controls which ensure optimum arc starting performance.

**WC-24 Weld Control 137549**

For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Easily mounts on power source. Designed for use with Miller® constant-voltage (CV) power sources with 14-pin receptacles and supplying 24 VAC.

**Spool Gun Extension Hose and Cable Kits**

- **132228**
  - 25 ft. (7.6 m)
  For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

- **132229**
  - 50 ft. (15 m)
  For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

**Turntable Assembly 146236**

- Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

**Wire Straightener 141580**

- For .035–.045 inch (0.9–1.1 mm) wire.

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**Design the perfect MIG guns for all your welds!**

Improve welding productivity by choosing the neck length and angle, handle shape and trigger style that allows welders to comfortably and efficiently reach all your welds.

Plus, longer gun life and shared parts and consumables will help to simplify inventory and minimize costs across your shop.

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