WE BUILD with you

CELEBRATING 90 YEARS

2019 FULL-LINE CATALOG

MILLERWELDS.COM
What we build can last for years. But what we do can last forever.

We can reach out to a young person who needs purpose. Welding generates hope in the future — mentoring benefits us all.

We can work together as equals. Welding bridges differences — the quality of the weld is more important than who makes it.

We can create a new path in life. Welding fuels businesses and careers — helping grow personal and professional success.

Miller® products and you. Together, we help new generations of welders. Together, we ensure welding’s future. Together, WE BUILD™.

About the Front Cover

Aaron Valencia
founded the Lost Angels Children’s Project to provide hope and opportunity to Los Angeles-area youth. Aaron’s program teaches welding, auto restoration and work/life skills in an after-school program that changes lives by building cars.

BarbieTheWelder
is a professional artist who builds one-of-a-kind metal sculptures for clients all over the world. Based in Erin, New York, BarbieTheWelder’s work ranges from comical to colossal — but every piece she creates is “a work of heart.”

Chris Cramer
gained a passion for metal fabrication during eight years in the United States Marine Corps. After serving his country, Chris founded Metal Connection LLC — which he built into a thriving fabrication company in Oshkosh, Wisconsin.

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

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

11 Millermatic® 255
17 Deltaweld® 350 Systems with Intelix™ feeders
24 20 Series feeders

29 MDX™ Series MIG guns
44 Multimatic® 220 AC/DC
45 Multimatic® 255

50 XMT® 350 FieldPro™ with Polarity Reversing
113 FILTAIR® SWX with ZoneFlow™ technology
116 SAR with T94i-R™ helmet

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

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

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 350 System (pg 17).

**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 11)
  - AlumaPower 350 (pg 15)
  - Invision 352 (pg 18)
  - Continuum (pg 19)
  - Auto-Continuum (pg 20)
- **Multiprocess**
  - Multimatic 255 (pg 45)
  - Dynasty (pg 46)
  - XMT 350 (pg 48–51)
- **Stick**
  - Maxstar (pg 57)
- **TIG**
  - Maxstar (pg 60/62–64)
  - Syncrowave 210 (pg 61)
  - Dynasty (pg 62–64)
- **Plasma cutters**
  - Spectrum (pg 99–101)

**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 9–11)
- **Multiprocess**
  - Multimatic (pg 43–45)
- **Stick**
  - Thunderbolt 160 (pg 56)
- **TIG**
  - Maxstar (pg 60/62–64)
  - Syncrowave 210 (pg 61)
  - Dynasty (pg 62–64)
- **Plasma cutters**
  - Spectrum (pg 99–101)

**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 118–119).

**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 9)
  - Multimatic 200/215/220 AC/DC (pg 43–44)
- **Stick**
  - Thunderbolt 160 (pg 56)
- **TIG**
  - Diversion (pg 60)
  - Syncrowave 210 (pg 61)
- **Engine drives**
  - Fusion (pg 81)
- **Plasma cutters**
  - Spectrum 375/625 (pg 99–101)

**POWER SHIFT™**
Provides single-phase stick weld capability with the engine shut off by plugging into 120- or 240-volt wall power. Ideal for indoor or noise-sensitive environments. Found on the Fusion engine drive (pg 81).

**Pro-Set™**
Provides speed, convenience and confidence of preset controls and eliminates guesswork when setting TIG weld parameters. Found on the following products:
- **Multiprocess**
  - Multimatic 220 AC/DC (pg 44)
  - Dynasty (pg 46)
- **TIG**
  - Syncrowave 210 (pg 61)
  - Dynasty (pg 62–64)
  - Maxstar (except 161) (pg 62–64)

**QuickTech™**
Provides easy setup and process changing on the Multimatic 220 AC/DC multiprocess welder (pg 44).
- **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.

**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 118–119).
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:

<table>
<thead>
<tr>
<th>Multiprocess</th>
<th>Engine drives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension 650 ArcReach (pg 47)</td>
<td>Trailblazer 325 with ArcReach (pg 86)</td>
</tr>
<tr>
<td>XMT 350 FieldPro models (pg 50)</td>
<td>Big Blue ArcReach models (pg 88–91)</td>
</tr>
<tr>
<td>XMT 450 CC/CV ArcReach</td>
<td></td>
</tr>
</tbody>
</table>

**Auto-Speed™**

Automatically adjusts engine speed to a corresponding rpm level so the engine never works harder than necessary. Reduces fuel consumption, exhaust emissions and noise levels on the Trailblazer 325 engine drive (pg 86).

**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 86).

**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 118–119).

**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.

**Dynamic Digi™**

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 86) and Big Blue engine drives (pg 88–91).

**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.

**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.

**Insight ArcAgent™** is a set of premium data acquisition tools that enable both Insight Core and Insight Centerpoint solutions to integrate with any brand of welding power source.

For more information on Insight Welding Intelligence, see pages 76–79. Insight Welding Intelligence is found on the following products:

<table>
<thead>
<tr>
<th>MIG (Core and Centerpoint)</th>
<th>Engine drives (RMD only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltaweld 350 with Intellx Pro feeder (Accu-Pulse only) (pg 17)</td>
<td>Trailblazer 325 with ArcReach (pg 86)*</td>
</tr>
<tr>
<td>Continuum System (pg 19)</td>
<td>Big Blue ArcReach models (pg 88–91)*</td>
</tr>
<tr>
<td>Auto-Continuum System (pg 20)</td>
<td></td>
</tr>
<tr>
<td>Multiprocess (RMD only)</td>
<td></td>
</tr>
<tr>
<td>XMT 350 FieldPro models (pg 50)*</td>
<td></td>
</tr>
<tr>
<td>PipeWorx 400 Welding System (pg 54)</td>
<td></td>
</tr>
</tbody>
</table>

**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 124).

**NOTE:** Insight Core is compatible with many other 14-pin compliant Miller® power sources. See list at MillerWelds.com/insight.
Help Me Choose

Finding the welding or cutting equipment that’s right for you doesn’t have to be complicated. Follow the steps below.

1. Pick the right process

**MIG (GMAW)** ★ Steel, Stainless steel, Nickel alloys, Aluminum, Cast iron, Copper/brass, Titanium, Magnesium alloys, All electrically conductive
- Easiest process to learn
- High welding speeds possible
- Provides better control on thinner metals
- Cleaner welds possible with no slag
- Same equipment can be used for flux-cored welding

**Pulsed MIG (GMAW-P)** ★★ Steel, Stainless steel, Nickel alloys, Aluminum, Cast iron, Copper/brass, Titanium, Magnesium alloys, All electrically conductive
- Flexibility and productivity — nearly all metals can be welded in all positions
- Larger diameter electrode wires for higher deposition rates
- Virtually no spatter
- Welds thin to thick metals

**Flux-cored (FCAW)** ★★ Steel, Stainless steel
- Can work as well as stick on dirty or rusty material
- Out-of-position welding
- Deep penetration for welding thick sections
- Increased metal deposition rate

**Stick (SMAW)** ★★★ Steel, Stainless steel, Nickel alloys, Copper/brass
- Well suited for windy, outdoor conditions
- More forgiving when welding on dirty or rusty metal

**TIG (GTAW)** ★★★ AC, AL, Mg, DC, S, SS, Ni, CB, Ti
- Provides highest quality and most precise welds
- Highly aesthetic weld beads
- Allows adjustment of heat input while welding by use of a remote control

**Pulsed TIG (GTAW-P)** ★★★ AC, AL, Mg, DC, S, SS, Ni, CB, Ti
- More control on thin metals
- Less heat distortion on thin metals

**Submerged Arc (SAW)** ★★ Steel, Stainless steel
- High deposition rates can enhance weld speed and production
- Excellent mechanical properties for high-quality code and X-ray requirements
- Improves welding operator comfort and appeal

**Plasma Arc (PAC) Cutting and Gouging** ★ Steel, Stainless steel, Nickel alloys, Aluminum, Cast iron, Copper/brass, Titanium, Magnesium alloys, All electrically conductive
- Use with any electrically conductive metals
- Small and precise cut
- Small heat-affected zone which helps prevent warping or paint damage

**Oxy-fuel Cutting** ★ Steel
- Cuts ferrous (containing iron) steels
- Requires no electricity
- Highly portable

*Note: Oxy-fuel equipment can also be used for welding, heating, brazing and soldering.*

**Air Carbon Arc (CAC-A) Cutting and Gouging** ★★★ AC, CB, DC, S, SS, Al, Cl
- Wide variety of metals
- Removes discontinuities or inferior welds
2 Evaluate your needs

Input power
Does your machine need to be self-powered, or will AC power be available at the location where it’s primarily used?
- For locations where an electrical hookup is not practical, consider an engine-driven welder/generator to supply power.
- For locations where AC power is available, does it match your machine’s power and voltage requirements.
- Single-phase power (120- or 240-volt) is found in most homes and garages.
- Three-phase power is common in industrial settings.

Output power
- Light industrial products are suitable for the home hobbyist or occasional user. They are designed to be easy to operate, are affordably priced and typically have a 20 percent duty cycle and rated output of 230 amps or lower.
- Industrial products are suitable for applications that do not require high-volume production. They typically have a 40 to 60 percent duty cycle and/or rated output of 300 amps or lower. Industrial products are an appropriate choice for professional welders.
- Heavy industrial products are suited to high-volume production and/or welding of thicker materials. They typically have a duty cycle of 60 to 100 percent and a rated output of at least 300 amps. Heavy industrial products are designed with the arc characteristics and product features professional welders demand for code-quality work.

3 Check the Product Guides

Product Guides (at the start of each major section) briefly describe and compare power sources within that section.

4 Go to product page descriptions

Product page descriptions provide more in-depth information:
- Color-coded sections identified with a primary process icon and title. Colored bullets indicate output power classification. Power icons indicate power supplied or required (see descriptions above).
- Listings for main features, recommended processes and most popular accessories.
- For additional information, give the product name and literature number to your distributor, visit us on the web at MillerWelds.com or call 1-800-4-A-MILLER.

Note: Specifications are subject to change without notice.

Power icons

<table>
<thead>
<tr>
<th>Input power</th>
<th>Output power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase power</td>
<td>Unit requires single-phase input power</td>
</tr>
<tr>
<td>Three-phase power</td>
<td>Unit requires three-phase input power</td>
</tr>
<tr>
<td>DC</td>
<td>Unit supplies constant-current weld output</td>
</tr>
<tr>
<td>AC</td>
<td>Unit supplies constant-voltage weld output</td>
</tr>
<tr>
<td>CV</td>
<td>Unit supplies constant-voltage and constant-current weld output</td>
</tr>
</tbody>
</table>

Generator power

In the field you may need an engine-driven welder/generator to supply 120- or 240-volt AC power to run tools and lights, or supply 12-volt DC power to charge automotive batteries and jump-start vehicles. Our welder/generators are packed with power, some providing up to 20 kW of continuous generator power. If you require an air compressor, our Air Pak models can power virtually any air tool.

Portability

Can work come to the machine, or does machine need to go to the work? Check the Product Guides for portability options:
- Shoulder strap, handles, running gear, carts, etc.
- Many engine-driven welder/generators fit in the back of a pickup truck. Others require a heavy-duty trailer.

Color-coded section with primary process icon and title

Output power classification, power icons and recommended processes
- Product name and literature number
- Main features, and most popular accessories list

Note: Specifications are subject to change without notice.
### Product Guide

**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 CO₂/CV machine, use CV weld output.  

See aluminum MIG solutions chart (Page 13) and industrial MIG solutions chart (Page 16) for additional information.

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Class</th>
<th>MIG</th>
<th>Pulsed MIG</th>
<th>Portability</th>
<th>Weldable Metals</th>
<th>Welding Output Range</th>
<th>Special Features</th>
<th>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic® 141</td>
<td>9</td>
<td>Light industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional running gear</td>
<td>Steel, stainless</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>
</tr>
<tr>
<td>Millermatic® 211</td>
<td>9</td>
<td>Light industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Installed running gear</td>
<td>Steel, stainless</td>
<td>30–230 A</td>
<td>All-in-one, 120 or 240 V input, Auto-Set,® Smooth-Start®</td>
<td>Up to 3/8 in. maintenance/repair, auto body, hobby</td>
</tr>
<tr>
<td>Millermatic® 212 Auto-Set®</td>
<td>10</td>
<td>Industrial</td>
<td>MIG</td>
<td>Pulsed MIG</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,® Guns-On-Demand®</td>
<td>Up to 3/8 in. fabrication, farm, garage/body shops</td>
</tr>
<tr>
<td>Millermatic® 252</td>
<td>10</td>
<td>Industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional 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>
</tr>
<tr>
<td>Millermatic® 255</td>
<td>11</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional 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>
</tr>
<tr>
<td>Millermatic® 350P</td>
<td>12</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<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 – auto body aluminum repair system available</td>
<td>Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum</td>
</tr>
<tr>
<td>Millermatic® 350P Aluminum System</td>
<td>14</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional running gear</td>
<td>Steel, stainless, 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/fabrication, pulsed MIG ideal for thin gauge aluminum</td>
</tr>
<tr>
<td>AlumaFeed® 350 Aluminum System</td>
<td>15</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional cart, MIGRunner®</td>
<td>Aluminum</td>
<td>5–425 A</td>
<td>10–38 V</td>
<td>Profile Pulse®, lightweight feeder can be up to 100 feet from power source</td>
</tr>
<tr>
<td>Invision® 352 MPa Plus System</td>
<td>18</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>5–425 A</td>
<td>10–38 V</td>
<td>Push-pull gun capability, optimized with 74 MPa Plus wire feeder</td>
</tr>
<tr>
<td>AlumaFeed® 450 Aluminum System</td>
<td>15</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Handles, optional cart, MIGRunner®</td>
<td>Aluminum</td>
<td>15–600 A</td>
<td>10–38 V</td>
<td>Profile Pulse®, lightweight feeder can be up to 100 feet from power source</td>
</tr>
<tr>
<td>Invision® 450 MPa Plus System</td>
<td>18</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>15–600 A</td>
<td>10–38 V</td>
<td>Push-pull gun capability, optimized with 74 MPa Plus wire feeder</td>
</tr>
<tr>
<td>Deltaweld® 350 Systems</td>
<td>17</td>
<td>Industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>20–400 A</td>
<td>10–38 V</td>
<td>Pulse welding capability, special arc control feature when paired with Intellx feeders</td>
</tr>
<tr>
<td>CP-302</td>
<td>18</td>
<td>Industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>14–44 V</td>
<td>10–38 V</td>
<td>Hi/lo stabilizer, power efficient</td>
</tr>
<tr>
<td>Deltaweld® 452</td>
<td>18</td>
<td>Industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>10–44 V</td>
<td>10–38 V</td>
<td>Power efficient, material-specific output terminals</td>
</tr>
<tr>
<td>Deltaweld® 652</td>
<td>18</td>
<td>Industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>10–44 V</td>
<td>10–38 V</td>
<td>Power efficient, material-specific output terminals</td>
</tr>
<tr>
<td>Continuum® 350</td>
<td>19</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>20–400 A</td>
<td>10–44 V</td>
<td>Advanced arc performance, Welding Intelligence™</td>
</tr>
<tr>
<td>Continuum® 500</td>
<td>19</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye, optional running gear, MIGRunner®</td>
<td>Most metals</td>
<td>20–400 A</td>
<td>10–44 V</td>
<td>Advanced arc performance, Welding Intelligence™</td>
</tr>
<tr>
<td>Auto-Continuum® 350</td>
<td>20</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye</td>
<td>Steel, stainless</td>
<td>20–400 A</td>
<td>10–44 V</td>
<td>Available for EtherNet/IP™ DeviceNet and analog protocol</td>
</tr>
<tr>
<td>Auto-Continuum® 500</td>
<td>20</td>
<td>Heavy industrial</td>
<td>MIG</td>
<td>Pulsed MIG</td>
<td>Lift eye</td>
<td>Steel, stainless</td>
<td>20–400 A</td>
<td>10–44 V</td>
<td>Available for EtherNet/IP™ DeviceNet and analog protocol</td>
</tr>
</tbody>
</table>
Millermatic® 141 and 211 See literature DC/12.42 (141) and DC/12.58 (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.

**Flux-cored wire** for other Miller processes and accessories.

- **Mild steel welding capability**
- **Aluminum welding capability**
- **Recommended aluminum solution**
- **Processes**
- **Light industrial**
- **Most popular accessories**

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**Mild Steel Welding Capability**

<table>
<thead>
<tr>
<th>Max. Model</th>
<th>Min.</th>
<th>3/16 in. (4.8 mm)</th>
<th>3/8 in. (9.5 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>141</td>
<td>24 ga. (0.6 mm)</td>
<td>24 ga. (0.6 mm)</td>
<td>24 ga. (0.6 mm)</td>
</tr>
<tr>
<td>211</td>
<td>18 ga. (1.2 mm)</td>
<td>18 ga. (1.2 mm)</td>
<td>18 ga. (1.2 mm)</td>
</tr>
</tbody>
</table>

**Aluminum Welding Capability**

<table>
<thead>
<tr>
<th>Max. Model</th>
<th>Min.</th>
<th>3/8 in. (9.5 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>141</td>
<td>14 ga. (1.9 mm)</td>
<td>14 ga. (1.9 mm)</td>
</tr>
<tr>
<td>211</td>
<td>18 ga. (1.2 mm)</td>
<td>18 ga. (1.2 mm)</td>
</tr>
</tbody>
</table>

**Recommended aluminum solution**

Spoolmate 100 (300371) with both Millermatic models OR 150 (301272) with Millermatic 211.

---

**Power Input at Rated Output, 50/60 Hz**

<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 Type and Diameter Capacity</th>
<th>Wire Feed Speed</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 141</td>
<td>D: 20.5 in.</td>
<td>W: 11.25 in.</td>
<td>H: 12.5 in.</td>
<td>120 V</td>
<td>.024-.030 in. (0.6-0.8 mm)</td>
<td>15-360 ipm (0.4-9.1 m/min.)</td>
<td>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>
</tr>
<tr>
<td>(907612) with running gear/cylinder rack</td>
<td>30-140</td>
<td>90 A at 18.5 VDC, 20% duty cycle</td>
<td>20</td>
<td>3.0</td>
<td>2.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Millermatic 211</td>
<td>D: 20.5 in.</td>
<td>W: 11.25 in.</td>
<td>H: 12.5 in.</td>
<td>120 V</td>
<td>.023-.030 in. (0.6-0.8 mm)</td>
<td>24.3</td>
<td>2.9</td>
<td>2.9</td>
</tr>
<tr>
<td>(907614) with running gear/cylinder rack</td>
<td>30-130</td>
<td>115 A at 19.8 VDC, 20% duty cycle</td>
<td>24</td>
<td>16.6</td>
<td>4.0</td>
<td>4.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
**Millermatic® 212 Auto-Set™** See literature DC/12.46

**Welding Capability**

<table>
<thead>
<tr>
<th>Range</th>
<th>Rated Output</th>
<th>Amperage Input at Rated Output, 60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>30–210</td>
<td>160 A at 24.5 VDC, 60 duty cycle</td>
<td>31 / 28 / 6.2 / 5.2</td>
<td>Solid steel .023–.035 in. (0.6–0.9 mm)</td>
<td>H: 30 in. (762 mm)</td>
<td>183 lb. (83 kg)</td>
<td></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 9 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 Spoolmate® spool guns.

---

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

**Welding Capability**

<table>
<thead>
<tr>
<th>Range</th>
<th>Rated Output</th>
<th>Amperage Input at Rated Output, 60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>30–300</td>
<td>200 A at 28 VDC, 60 duty cycle</td>
<td>48 / 42 / 9.5 / 7.5 (at 60% duty cycle)</td>
<td>Solid steel .023–.045 in. (0.6–1.2 mm)</td>
<td>H: 30 in. (762 mm)</td>
<td>205 lb. (94 kg)</td>
<td></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.
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 29)
- Spoolmatic® Spool Guns (pg 33)
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns (pg 34)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 126)
- EZ-Latch™ Dual Cylinder Rack Running Gear 951769 (pg 126)
- Protective Cover 301521 (pg 129)

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

Millermatic® 255
See literature DC/12.8

NEW!

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

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Wire Feed Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>50–800 ipm</td>
</tr>
<tr>
<td>Aluminum</td>
<td>(1.3–20 m/min.)</td>
</tr>
<tr>
<td>Max. 1/2 in.</td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td>.035–.045 in.</td>
</tr>
<tr>
<td>Max. 1/2 in.</td>
<td>(0.8–1.2 mm)</td>
</tr>
</tbody>
</table>

Recommended aluminum solution
XR-Aluma-Pro™ push-pull gun (see page 34).

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.

**AUTO-LINE**

Allows for any input voltage hookup (208–240 V, single-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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.

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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.
Millermatic® 350P

All-in-one package with steel and aluminum programs and MIG and pulsed MIG processes.

Welding Capability

<table>
<thead>
<tr>
<th>Steel (Mild)</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 24 ga. (0.6 mm)</td>
<td>Max. 1/2 in. (13 mm)</td>
</tr>
<tr>
<td>Min. 18 ga. (1.2 mm)</td>
<td>Max. 1/2 in. (13 mm)</td>
</tr>
</tbody>
</table>

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.

Complies with 2015 Ford F-150 body shop welding machine certification for aluminum body vehicles.

Optimized low-end aluminum pulse program. Reduces heat input to prevent warping and burn-through on thin 18-gauge aluminum auto body panels.

Customized Bernard® aluminum MIG gun. 12-foot (3.7 m) Bernard BTB Gun 200 A with Teflon liner and 30-degree head tube for superior aluminum wire delivery.

Hobart® 5554 aluminum wire specified by Ford. Includes one eight-inch, five-pound spool of .047-inch aluminum wire.

Recommended aluminum solution
XR-Aluma-Pro™ push-pull gun (see page 34).

Millermatic 350P Auto Body Aluminum Repair System

The ideal auto body welding package for aluminum and steel repair.

Welding Capability

<table>
<thead>
<tr>
<th>Steel (Mild)</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 24 ga. (0.6 mm)</td>
<td>Max. 1/2 in. (13 mm)</td>
</tr>
<tr>
<td>Min. 22 ga. (0.8 mm)</td>
<td>Max. 1/2 in. (13 mm)</td>
</tr>
</tbody>
</table>

Complies with 2015 Ford F-150 body shop welding machine certification for aluminum body vehicles.

Recommended aluminum solution
XR-Aluma-Pro™ push-pull gun (see page 34).

Processes

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

Millermatic 350P comes complete with
- 15 ft. (4.5 m) Bernard® BTB Gun 300 A with Centerfire™ 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

Extra contact tips

Millermatic 350P Auto Body Aluminum Repair System comes complete with
- 12 ft. (3.7 m) Bernard® BTB Gun 200 A aluminum MIG gun
- 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
- .047 in. (1.2 mm) U-groove drive rolls
- .047 in. (1.2 mm) aluminum Centerfire™ contact tips (T-047AL)
- 8 in. (203 mm), 5 lb. spool of Hobart .047 in (1.2 mm) 5554 aluminum wire

Most popular accessories

- Spoolmatic® Spool Guns (pg 33)
- XR® Air-Cooled Push-Pull Guns (pg 34)
- Dual Cylinder Rack 195299 (pg 126)
- Protective Cover 195142 (pg 129)
- 230-Volt Extension Cord 770644

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Choose the Right Industrial Aluminum MIG Solution

For additional aluminum MIG solutions, see spool guns, push-pull guns and controls on pages 32–35.

<table>
<thead>
<tr>
<th>Millermatic® 350P Aluminum Push-Pull Gun System (page 14)</th>
<th>AlumaFeed® Synergic Aluminum Welding System (page 15)</th>
<th>Invision™ MPa Plus System (page 18)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 350P Aluminum with XR-Aluma-Pro gun shown.</td>
<td>AlumaPower 450 MPa and XR-AlumaFeed with XR-Aluma-Pro gun shown.</td>
<td>Invision 352 MPa and D-74 MPa Plus feeder with XR-Aluma-Pro and Bernard® BTB Gun 400 A guns shown.</td>
</tr>
<tr>
<td>Cost-effective industrial all-in-one MIG/pulsed MIG solution with easy-to-use interface for aluminum welding on material up to 1/2-inch thick. Features built-in running gear for mobility.</td>
<td>Dedicated heavy-industrial-fabrication solution for aluminum welding, with advanced features that can handle larger weldments. Its lightweight push-pull feeder can easily be carried up to 100 feet from the power source.</td>
<td>Versatile heavy-industrial advanced system for large, high-duty-cycle aluminum and steel weldments. Features push and/or push-pull bench feeder for easy switchover between solid, aluminum and tubular wires.</td>
</tr>
</tbody>
</table>

### Configuration

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Feeder</th>
<th>Input Voltage</th>
<th>Rated Output</th>
<th>Primary Connection</th>
<th>Aluminum Wire Diameters</th>
<th>Gun Capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 350P Aluminum (all-in-one)</td>
<td>Single-wire XR-AlumaFeed — portable feeder can be carried up to 100 feet from power source</td>
<td>Single- or three-phase (450 MPa is three-phase only)</td>
<td>350 MPa: 350 A at 60% duty cycle 450 MPa: 450 A at 100% duty cycle</td>
<td>Auto-Line™ — Allows for any primary input voltage (208–575 V, single- or three-phase, 50 or 60 Hz) with no manual linking. Also adjusts for voltage spikes within the entire range. 450 MPa: 230/460 V manual linking or 575 V</td>
<td>.035–.047 in. (0.9–1.2 mm)</td>
<td>XR-Aluma-Pro®, XR-Aluma-Pro® Lite, or XR®-Pistol</td>
</tr>
<tr>
<td>AlumaPower 450 MPa or 450 MPa</td>
<td>Single- or dual-wire 74 MPa Plus — stationary feeders can be mounted up to 100 feet from power source</td>
<td>Single- or three-phase (450 MPa is three-phase only)</td>
<td>352 MPa: 350 A at 60% duty cycle 450 MPa: 450 A at 100% duty cycle</td>
<td>Auto-Line™ — Allows for any primary input voltage (208–575 V, single- or three-phase, 50 or 60 Hz) with no manual linking. Also adjusts for voltage spikes within the entire range. 450 MPa: 230/460 V manual linking or 575 V</td>
<td>.035–1/16 in. (0.9–1.6 mm)</td>
<td>XR-Aluma-Pro® Plus, XR®-Pistol Plus or standard MIG gun</td>
</tr>
<tr>
<td>Invision 352 MPa and D-74 MPa Plus feeder with XR-Aluma-Pro and Bernard® BTB Gun 400 A guns shown.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Millermatic 350P Aluminum</th>
<th>AlumaFeed® Synergic Aluminum</th>
<th>Invision™ MPa Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile Pulse™</td>
<td>—</td>
<td>Yes — achieve a “stacked dime” appearance quickly and easily without gun manipulation</td>
<td>Yes — achieve a “stacked dime” appearance quickly and easily without gun manipulation</td>
</tr>
<tr>
<td>Synergic Pulsed MIG</td>
<td>Yes — “one-knob” control, only need to change wire feed speed to weld different material thicknesses</td>
<td>Yes — “one-knob” control, only need to change wire feed speed to weld different material thicknesses</td>
<td>Yes — “one-knob” control, only need to change wire feed speed to weld different material thicknesses</td>
</tr>
<tr>
<td>MIG</td>
<td>Spray transfer MIG — for aluminum wires</td>
<td>Spray transfer MIG — for aluminum wires</td>
<td>Conventional MIG — modes for aluminum, steel and other wires</td>
</tr>
<tr>
<td>Built-In Pulsed Programs</td>
<td>Aluminum</td>
<td>Aluminum</td>
<td>Aluminum, steel, stainless and others</td>
</tr>
<tr>
<td>Portability</td>
<td>Built-in running gear with cylinder rack — easily maneuverable from area to area</td>
<td>Lightweight, portable feeder with handle — can be carried up to 100 feet from power source</td>
<td>Stationary feeder — can be mounted up to 100 feet from power source</td>
</tr>
<tr>
<td>Trigger Hold</td>
<td>Yes — reduces operator fatigue from holding trigger</td>
<td>Yes — reduces operator fatigue from holding trigger</td>
<td>Yes — reduces operator fatigue from holding trigger</td>
</tr>
<tr>
<td>Trigger Schedule Select</td>
<td>Yes — allows operator to switch between two preset weld conditions by tapping the trigger</td>
<td>Yes — allows operator to switch between two preset weld conditions by tapping the trigger</td>
<td>Yes — allows operator to switch between two preset weld conditions by tapping the trigger</td>
</tr>
<tr>
<td>Program Locks</td>
<td>—</td>
<td>Yes — prevents unintended changes to the welding program weld parameters</td>
<td>Yes — prevents unintended changes to the welding program weld parameters</td>
</tr>
<tr>
<td>Flow Meter</td>
<td>Yes — allows flow to be set at feeder even when gas supply is a long distance away</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
Millermatic® 350P Aluminum

Welding Capability
- True torque feed motor push-pull design provides continuous push-pull force to the wire while the gun motor controls the speed at the gun. The motors work together to provide accurate and positive weld 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.
- Standard jog and purge.

Note: See aluminum solutions comparison chart on page 13.

Model/Stock Number
- Millermatic 350P Aluminum Push-Pull Gun System
  - (951451) w/15 ft. XR-Aluma-Pro™ air-cooled gun
  - (951452) w/25 ft. XR-Aluma-Pro™ air-cooled gun
  - (951453) w/25 ft. XR™-Pistol Pro air-cooled gun
  - (951454) w/25 ft. XR-Aluma-Pro™ Lite air-cooled gun
- Millermatic 350P Aluminum (gun NOT included)
  - (907474) 200/230/460 V standard unit

Input Power
- Three-phase: 25–400
- Single-phase: 25–400

Amps Input at Rated Output, 60 Hz
- 200 V: 34
- 230 V: 30
- 460 V: 15
- 11.6
- 11.5

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

Wire Type and Diameter Capacity
- Aluminum: .035–.047 in. (0.9–1.2 mm)

Dimensions
- H: 34 in. (863 mm)
- W: 19 in. (483 mm)
- D: 41 in. (1,041 mm)

Net Weight
- 181 lb. (82 kg)

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

Hobart® aluminum filler metals — wire and cut lengths — have been designed to provide the best performance for the best welds. These products are backed by the deep industry knowledge of Hobart welding specialists who can help customers find the right aluminum filler metal solution. Every time. No matter how challenging the application.

Visit HobartBrothers.com or your local distributor to learn more.

Questions? Hobart is here to help.
AlumaFeed® Synergic Aluminum Welding System

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

AlumaPower 350 MPa and XR-AlumaFeed with XR-Aluma-Pro gun air-cooled package (951147) shown.

AlumaPower 350 MPa 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</th>
<th>Package Stock Number*</th>
<th>XR-AlumaFeed 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 (907420001) 208–575 V with auxiliary power</td>
<td>(951147) w/350 model (907420)</td>
<td>(300509) 25 ft. air-cooled</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951149) w/350 model (907420)</td>
<td>(300509) –</td>
<td>30 ft. air-cooled</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951151) w/350 model (907420)</td>
<td>(300509) 25 ft. air-cooled</td>
<td>–</td>
<td>With Dinse connectors</td>
<td>–</td>
<td>MIGRunner cart</td>
<td></td>
</tr>
<tr>
<td>AlumaPower 450 MPa (907483) 230/460 V (907483001) 575 V with auxiliary power</td>
<td>(951460) w/450 model (907483)</td>
<td>(300509) 25 ft. air-cooled</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951459) w/450 model (907483)</td>
<td>(300509) 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>(951558) w/450 model (907483)</td>
<td>(300509) –</td>
<td>30 ft. water-cooled</td>
<td>–</td>
<td>Coolmate 3</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(951559) w/450 model (907483)</td>
<td>(300509) 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. See aluminum solutions comparison chart on page 13.

**AlumaFeed®**

See literature DC/34.0

For gun and feeder remote options, see literature DC/34.0 or visit MillerWelds.com.
## Choose the Right Industrial MIG Solution

<table>
<thead>
<tr>
<th></th>
<th>Deltaweld® 350 with Intellx™ Feeder (page 17)</th>
<th>Millermatic® 350P All-In-One (page 12)</th>
<th>Invision® with 74 MPa Plus Feeder (page 18)</th>
<th>Continuum® System (page 19)</th>
</tr>
</thead>
</table>
| **Basic**           | • Manufacturing solution for welders of all skill levels  
|                     | • Simple and easy to set up  
|                     | • Pulse capable with Intellx™ Pro feeder (Accu-Pulse®)  
|                     | • Integrated package ships complete and sets up in minutes | • Cost-effective, all-in-one package  
|                     | • Integrated running gear  
|                     | • Expand capabilities with MIG and synergic pulsed MIG  
|                     | • Push-pull gun for aluminum (optional) | • More advanced system with optimized weld programs for steel and aluminum  
|                     |                                           | • Push-pull gun for aluminum (optional) | • Next generation advanced welding solution  
|                     |                                           |                                           | • Improves productivity through weld quality, ease of use and system flexibility |
| **Advanced MIG**    |                                           |                                           |                                           |                             |
| **Weldable Metals** | Steels                                      | Steels and aluminum                      | Steels and aluminum                      | Steels and aluminum         |
| **MIG Processes**   | • Short arc  
|                     | • Spray  
|                     | • Accu-Pulse® — most popular for full range of material thicknesses (with Intellx™ Pro feeder only) | • Short arc  
|                     |                                           | • Spray  
|                     |                                           | • Pulsed MIG | • Short arc  
|                     |                                           |                                           | • Accu-Pulse® — most popular for full range of material thicknesses  
|                     |                                           |                                           | • Versa-Pulse® — fast, low-heat, low-spatter for thin material; ideal for automation  
|                     |                                           |                                           | • RMD® — designed to fill gaps, and for thin material  
|                     |                                           |                                           | • High-deposition MIG — increased deposition rates on thicker materials  
| **Special Models**  | Fully integrated packages that ship complete are available (see page 17) | Dedicated aluminum model available (see Millermatic 350P Aluminum, page 14) | Dedicated aluminum models available (see AlumaFeed® System, page 15) | Semi-auto and automation packages available (see pages 19 and 20) |
| **Welding Intelligence™ (see page 76)** | —                                           | —                                       | Optional Insight Core™                   | Standard Insight Core™ and optional Insight Centerpoint™ |
|                     | .023–5/64 in.                               | .023–.045 in.                           | 352: .023–1/16 in.  
|                     |                                             |                                           | 452: .023–5/64 in. |
|                     |                                             |                                           | .035–5/64 in. |
| **Bernard® Gun Included with Feeder** | Yes                                         | Yes                                     | Yes                                       | Yes |

---

**Note:** For more detailed specifications, please refer to the respective pages mentioned.
Deltaweld 350 Systems

Deltaweld 350 systems are the manufacturing solution for welders of all skill levels, now offering pulse capabilities in an integrated package.

Ready to weld. The Deltaweld 350 System is shipped with everything you need to get welding sooner.

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.

Dedicated wire feeder options.

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

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

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.

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, resulting in better welding performance.

Model/Stock Number | Amp./Volt Ranges | Rated Output | Amps Input at Rated Load Output, 60 Hz | Power Source Dimensions (Includes lift eye) | Power Source Net Weight |
---------------------|-----------------|--------------|----------------------------------|-----------------------------------|------------------------|
Deltaweld 350 System (951782) | 20–400 A 10–38 V | 300 A at 29 VDC, 100% duty cycle | 26.5 14.6 11.6 10.0 | H: 22.36 in. (568 mm) W: 15.35 in. (390 mm) D: 14.25 in. (361 mm) | 105 lb. (48 kg) |
Deltaweld 350 System (951777) | 230/460 A with ArcConnect™ (907747) | 350 A at 31.5 VDC, 60% duty cycle | 33.4 18.1 14.5 12.5 | 280471009 9 ft. (2.7 m) 280471015 15 ft. (4.6 m) 280471025 25 ft. (7.6 m) 280471050 50 ft. (15.2 m) 280471075 75 ft. (22.9 m) 280471100 100 ft. (30.5 m) 280471150 150 ft. (45.7 m) | 170 lb. (77 kg) |

Most popular accessories

- Bernard® MIG Guns (pg 30–31)
- Deltaweld 350 Running Gear/Cylinder Rack 301523 (pg 127)
- Industrial MIG 4/0 Kit (with lug connectors) 300390 (pg 129) for stationary packages
- ArcConnect Control/Motor Cables (see above for contents)
- Feeder Swivel Kit 301533
- Handle Kit 301529
- Hanging Bail 058435

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Deltaweld 452 and Deltaweld® Series

100-percent-duty-cycle power sources deliver time-tested and reliable performance for semi-automatic applications in a variety of industries.

Available in three formats: machine only, stationary package and MIGRunner™ package.

**Deltaweld 452 features:**
- Large analog meters display preset and actual voltage and amperage.
- **14-pin receptacle** provides quick, direct connection to Miller® wire feeders.
- **115-volt power** for tools and coolant systems.

**Deltaweld Series features:**
- Digital meters display preset and actual voltage and amperage.
- **Line voltage compensation** ensures consistent weld performance even when primary power varies.
- **Fan-On-Demand** cooling system only runs when needed.
- **14-pin receptacle** provides quick, direct connection to Miller® wire feeders. Capable of remote voltage control.
- **Thermal overload protection with light** indicates power shutdown.
- **115-volt power** for tools and coolant systems.

---

**Invision™ MPa Plus Systems**

MIG and synergic pulsed MIG system with optimized weld programs for both steel and aluminum.

- **Built-in MIG and pulsed MIG programs** automatically set the optimal parameters for a wide variety of wire making it easy to set up and use.
- **Synergic pulsed MIG when using a 70 Series MPa Plus feeder.** 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 spacing between the ripple pattern.
- **Auto-Line.** Invision 352 allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking. 450 model is 230/460 V manual link or 575 V, three-phase only.

---

**Invision 450 MPa**

*Recommended Aluminum Solution*

Dedicated XR Plus guns work with MPA Plus feeders. See page 25 for information and stock numbers.

---

**Invision 352 MPa**

See literature DC/23.6

---

**Model**
<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CP-302</strong></td>
<td>14–44</td>
<td>300 A at 32 VDC, 100% duty cycle</td>
</tr>
<tr>
<td><strong>Deltaweld 452</strong></td>
<td>10–38</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
</tr>
<tr>
<td><strong>Deltaweld 652</strong></td>
<td>10–44</td>
<td>650 A at 44 VDC, 100% duty cycle</td>
</tr>
</tbody>
</table>

**Power Source Only Stock Number**
- CP-302 (903786) 200/230/460 V
- Deltaweld 452 (903377) 200/208/230/460 V
- Deltaweld 652 (903393) 230/460/575 V

**Stationary Package Stock Number**
- Includes feeder with .035/.045 in. drive rolls, MIG gun and industrial MIG 4/0 kit with lug connectors.

**MIGRunner Package Stock Number**
- Includes stationary package PLUS factory-installed running gear and standard cylinder rack.

**Dimensions**
- (Includes lift eye and strain relief)
- H: 30 in. (762 mm)
- W: 23 in. (585 mm)
- D: 27.125 in. (689 mm)

**Net Weight**
- 332 lb. (151 kg)
- 384 lb. (174 kg)
- 472 lb. (214 kg)

---

**Processes**
- MIG (GMAW) • Flux-cored (FCAW)
- Air carbon arc gouging (CAC-A)

**Most popular accessories**
- 20 and 70 Series Feeders (pg 24)
- Bernard® MIG Guns (pg 30–31)
- Standard Running Gear (pg 127)
- Standard Cylinder Rack (pg 127)
- Industrial MIG 4/0 Kit (with lug connectors) 300390 (pg 129)
- Extension Cables (pg 134)

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

---

**Invision 450 MPa**

See literature DC/23.6

**Model**
<table>
<thead>
<tr>
<th>Power Source Only Stock Number</th>
<th>Package Stock Number</th>
<th>70 Series MPa Plus Feeder with .035/.045 in. Drive Rolls and Bernard BTB 400 A Gun</th>
<th>XR-Aluma-Pro Plus Push-Pull MIG Gun</th>
<th>Industrial MIG 4/0 Kit</th>
<th>Cart</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Invision 352 MPa</strong></td>
<td>(907413) 208–575 V</td>
<td>D-74 dual-wire feeder with two push-only MIG guns</td>
<td>25 ft. air-cooled</td>
<td>Running gear cylinder rack</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(90743001) 208–575 V w/aux power</td>
<td>S-74 single-wire feeder with one push-only MIG gun</td>
<td>–</td>
<td>MIGRunner cart</td>
<td></td>
</tr>
<tr>
<td><strong>Invision 450 MPa</strong></td>
<td>(907485) 230/460 V w/aux power</td>
<td>S-74 single-wire feeder with one push-only MIG gun</td>
<td>–</td>
<td>MIGRunner cart</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(9074686) 575 V w/aux power</td>
<td>D-74 dual-wire feeder with two push-only MIG guns</td>
<td>–</td>
<td>Running gear cylinder rack</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Accessories**
- Extension Cables (pg 134)
- Bernard® MIG Guns (pg 30–31)
- MIGRunner cart (pg 127)
- Running Gear Cylinder Rack (pg 127)
- Industrial MIG 4/0 Kits (pg 129)
- MIGRunner cart (pg 127)
- Extension Cables (pg 134)

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

---

**Invision 352 MPa**

See literature DC/23.6

**Model**
<table>
<thead>
<tr>
<th>Input Power</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CP-302</strong></td>
<td>3-phase</td>
<td>5–425 A, 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Single-phase</td>
<td>5–425 A, 10–38 V</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
</tr>
<tr>
<td><strong>Deltaweld 452</strong></td>
<td>3-phase</td>
<td>15–600 A, 10–38 V</td>
<td>450 A at 36.5 VDC, 100% duty cycle</td>
</tr>
</tbody>
</table>

**Power Source Only Stock Number**
- Invision 352 MPa (907413)
- Invision 450 MPa (907485)

**Amps Input at Rated Load Output, 60 Hz**
- 208 V: 40.4, 18.6, 12.5
- 230 V: 36.1, 17.8, 11.7
- 460 V: 20.7, 14.1, 9.7
- 575 V: 18.3, 13.6, 9.2

**Max. Open-Circuit Voltage**
- 75 VDC: 21.75 in. (553 mm)
- 90 VDC: 27.125 in. (689 mm)

**Net Weight**
- 80 lb. (36.3 kg)
- 122 lb. (55.3 kg)
Continuum™ Systems

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

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 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 77 and 78).

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.

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>A</td>
<td>B</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Gap Filling</td>
<td>D</td>
<td>D</td>
<td>B</td>
<td>B</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Low Heat Input</td>
<td>D</td>
<td>C</td>
<td>B</td>
<td>A</td>
<td>A</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>B</td>
<td>B</td>
</tr>
<tr>
<td>Low Spatter</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>B</td>
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<tr>
<td>Thick Metals</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Thin Metals</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Increased Travel Speed</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>

Ratings A, B, C, and D are relative values. An “A” rating indicates a best fit between your performance needs and 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.

*While idling.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Model</th>
<th>Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz, 2-Phase</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions</th>
<th>Power Source Not Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuum 350</td>
<td></td>
<td>(951671)</td>
<td>230–575 V</td>
<td>350 A at 31.5 VDC, 100% duty cycle</td>
<td>230 V 380 V 400 V 460 V 575 V</td>
<td>72 VD</td>
<td>127 lb. (57.6 kg)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(907636)</td>
<td>power source only</td>
<td>230–575 V w/running gear</td>
<td>20–400 A, 10–44 V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuum 500</td>
<td></td>
<td>(951672)</td>
<td>230–575 V</td>
<td>500 A at 39 VDC, 100% duty cycle</td>
<td>230 V 380 V 400 V 460 V 575 V</td>
<td>72 VD</td>
<td>148 lb. (67.1 kg)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(907640)</td>
<td>power source only</td>
<td>230–575 V w/running gear</td>
<td>20–600 A, 10–44 V</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Processes
• Accu-Pulse® MIG (GMAW-P)
• Versa-Pulse® RMD™ MIG (GMAW)
• High-deposition MIG (GMAW)
• Flux-cored (FCAW)
• Air carbon arc gouging (CAC-A)

MIGRunner™ packages include
• Continuum power source
• Continuum single feeder with Bernard® BTB Gun 400 A and .035/.045 in. V-groove drive rolls
• Continuum running gear/cylinder rack
• 3 ft. (0.9 m) control/motor cable
• 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.

Wire feeding options
• Continuum Feeders
951631 Single-wire 951673 Dual-wire
Includes Bernard BTB Gun 400 A (two with dual-wire models) and .035/.045 in. V-groove drive rolls.
• Continuum Swingarc™ Boom-Mounted Feeders
951634 8 ft. (2.4 m) single-wire 951635 12 ft. (3.7 m) single-wire 951636 16 ft. (4.9 m) single-wire 951725 12 ft. (3.7 m) dual-wire
Includes Bernard BTB Gun 400 A and .035/.045 in. V-groove drive rolls.
• See literature DC/36.0 for additional booms and options.

Most popular accessories
• Bernard® MIG Guns (pg 30–31)
• Insight Centerpoint™ Software (pg 78)
• Continuum Running Gear/Cylinder Rack 301264 (pg 127)
• Industrial MIG 4/0 kit (with lug connectors) 300390 (pg 129)
• Continuum Integrated Cooler 3D1214 Mounts to bottom of Continuum power source. Does not require external power.
• Continuum Control/Motor Cables
263368003 3 ft. (0.9 m) 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)
Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Model/Stock Number | Input Power | Input Welding Circuit Rating | Wire Feed Speed | Wire Diameter Capacity | Maximum Spool Size Capacity | Dimensions | Net Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuum Feeder</td>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>Standard: 50–100 ipm (1.3–25.4 m/min.)</td>
<td>.035–.064 in. (0.9–2.0 mm)</td>
<td>18 in. (457 mm), 60 lb. (27 kg)</td>
<td>13.812 in. (351 mm), Single W: 16.312 in. (414 mm) Dual W: 17 in. (432 mm)</td>
<td>43.4 lb. (19.5 kg) 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.

- **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.

**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 77).
- **Insight Centerpoint** (optional) is an advanced, real-time feedback solution to ensure consistent weld quality and actively detects a bad weld when it happens, reducing rework costs and improving quality (see page 78).

**Heavy industrial**

**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 78)
- Auto-Continuum Robotic MIG Kit 301455
- Consists of 25 ft. (7.6 m) motor control cable, 15 ft. (4.5 m) motor control extension, two 30 ft. (9 m) weld cables, 12 ft. (3.7 m) weld cable extension, 30 ft. (9 m) gas hose, flowmeter regulator, 16.4 ft. (5 m) Ethernet cable, .035/.045-inch V-groove drive roll kit with guides, and conduit assembly with quick disconnects.

- Wire Drive Motor Mounting Brackets
  - ABB® 1600
  - ABB® 2600
  - FANUC® 100 and 120 IC
  - FANUC®/KUKA®/Motoman®
  - KUKA® KR5 HW
  - KUKA® KR16 HW
  - Motoman® EA1400
  - Motoman® EA1900

- Motor Control Cables
  - 25 ft. (7.6 m)
  - 50 ft. (15 m)
  - 80 ft. (24.4 m)
  - 100 ft. (30.5 m)

- Motor Control Extension Cables
  - 15 ft. (4.5 m)
  - 25 ft. (7.6 m)

- EtherNet/IP™ Communication Cables
  - 9.8 ft. (3 m)
  - 32.8 ft. (10 m)

- DeviceNet Communication Cable
  - 20 ft. (6.1 m)

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

**Auto-Continuum 500 shown with robot arm (not included) and Auto-Continuum wire drive motor assembly.**

**Auto-Continuum wire drive motor assembly (left-hand drive).**

**Close-up of Auto-Continuum wire drive motor assembly (left-hand drive).**

*While idling.*

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>3-Phase KVA</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>(907656)</td>
<td>20–400 A, 10–44 V</td>
<td>350 A at 31.5 VDC, 100% duty cycle</td>
<td>36.7 21.8 0.1 0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
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<tr>
<td></td>
<td>(907658)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>W: 17.5 in. (444 mm)</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>D: 28.22 in. (717 mm)</td>
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<tr>
<td>Auto-Continuum 500</td>
<td>(907675)</td>
<td>20–600 A, 10–44 V</td>
<td>500 A at 39 VDC, 100% duty cycle</td>
<td>57.6 34.7 0.1 0.1</td>
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<td>0.1</td>
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<td>(907659)</td>
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<td></td>
<td>W: 17.5 in. (444 mm)</td>
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<td></td>
<td></td>
<td></td>
<td>D: 28.22 in. (717 mm)</td>
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</tbody>
</table>

**Model/Stock Number**
- Auto-Continuum Wire Drive Motor Assembly (301207) Left-hand drive
- (301208) Right-hand drive

<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>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Continuum Wire Drive Motor Assembly</td>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>Standard: 50–1,000 ipm (1.3–25.4 m/min.)</td>
<td>.035–.064 in. (0.9–2.0 mm)</td>
<td>H: 8.75 in. (222 mm)</td>
<td>16.5 lb. (7.5 kg)</td>
</tr>
<tr>
<td>Product Guide</td>
<td>Page</td>
<td>Class</td>
<td>MIG</td>
<td>MIGM™</td>
<td>ArcReach®</td>
<td>Smart Feeder</td>
</tr>
<tr>
<td>---------------</td>
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<td>-----</td>
<td>-------</td>
<td>-----------</td>
<td>--------------</td>
</tr>
<tr>
<td>ArcReach® SuitCase® Smart Feeder</td>
<td>22</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>ArcReach equipped</td>
</tr>
<tr>
<td>ArcReach® SuitCase® 12RC</td>
<td>22</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

| 20 Series (Basic and Digital) | 24 | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | .023-.045 in. (0.6-2.0 mm) | Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on basic model) | Manufacturing, fabrication |
| 70 Series (74S/74D) Singles and Duals | 24 | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | .023-.1/8 in. (0.6-3.2 mm) Low-speed motor recommended for 3/32 and 1/8 in. wires | Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on 745 models) | Heavy and light manufacturing, fabrication |
| 70 Series (74 MPa Plus) Singles and Duals | 24 | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | .023-.5/64 in. (0.6-2.0 mm) | XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires | Manufacturing requiring multiple wire types |
| 70 Series Swingarc™ Singles and Duals | 28 | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | .023-.5/64 in. (0.6-2.0 mm) | 8, 12 and 16 ft. booms, four drive rolls, adjustable weld control | Heavy and light manufacturing, fabrication |
| 70 Series Remote Configurations Singles and Duals | 26 | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | ✔️ | .023-.5/64 in. (0.6-2.0 mm) | Control box, cables and wire drive motor assemblies for generic booms or fixed automation | Heavy and light manufacturing, fabrication |

**Product Key**

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

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.
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</th>
<th>8</th>
<th>12</th>
<th>Smart</th>
<th>12RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available with Bernard gun:</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>BTB Gun 300 A</td>
<td>●</td>
<td></td>
<td>●</td>
<td></td>
<td>●</td>
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<tr>
<td>S-Gun</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Dura-Flux gun</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
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<tr>
<td>PipeWorx gun</td>
<td>●</td>
<td></td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Remote voltage control (control cord required)</td>
<td>●</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>
<td>●</td>
</tr>
<tr>
<td>Digital meters</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Impact-resistant case</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Gas purge</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Wire jog</td>
<td>●</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 22

22

SuitCase Series Features

PORTABLE

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.
**ArcReach® SuitCase® 8 and 12 and ArcReach Smart Feeder**

See literature M/6.55

**ArcReach** 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 47, 50–51 and 86–91 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 50) connected to three-phase power or an ArcReach-equipped engine drive (pages 86–91).

**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.

---

**Model**

<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) w/Bernard BTB Gun 300 A (951727) w/Bernard S-Gun (951728) w/Bernard Dura-Flux gun (901457) Feeder only</td>
<td>Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV</td>
<td>330 A at 60% duty cycle</td>
<td>Solid wire</td>
<td>.023-.052 in. (0.6-1.4 mm)</td>
<td>8 in. (203 mm), 14 lb. (6.4 kg)</td>
<td>D: 21 in. (533 mm)</td>
<td>W: 9 in. (229 mm)</td>
</tr>
<tr>
<td>ArcReach SuitCase 12</td>
<td>(951729) w/Bernard BTB Gun 300 A (951730) w/Bernard S-Gun (951731) w/Bernard Dura-Flux gun (951732) w/Bernard PipeWorx gun (901456) Feeder only</td>
<td>425 A at 60% duty cycle</td>
<td>Solid wire</td>
<td>.023-.052 in. (0.6-1.4 mm)</td>
<td>12 in. (305 mm), 45 lb. (20 kg)</td>
<td>H: 27.5 in. (698 mm)</td>
<td>D: 15.5 in. (394 mm)</td>
<td>35 lb. (15.9 kg)</td>
</tr>
<tr>
<td>ArcReach Smart Feeder</td>
<td>(951733) w/Bernard PipeWorx gun</td>
<td>XMT 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive</td>
<td>275 A at 60% duty cycle</td>
<td>0.35–.045 in. (0.9–1.1 mm)</td>
<td>12 in. (305 mm), 33 lb. (15 kg)</td>
<td>H: 18 in. (457 mm)</td>
<td>D: 21 in. (533 mm)</td>
<td>50 lb. (23 kg)</td>
</tr>
<tr>
<td>SuitCase 12RC</td>
<td>(951580) w/Bernard BTB Gun 300 A</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>425 A at 60% duty cycle</td>
<td>Solid wire</td>
<td>.023-.052 in. (0.6-1.4 mm)</td>
<td>12 in. (305 mm), 45 lb. (20 kg)</td>
<td>H: 18 in. (457 mm)</td>
<td>W: 13 in. (330 mm)</td>
</tr>
</tbody>
</table>

*Additional packages are available — visit MillerWelds.com or your distributor.*
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 Basic</th>
<th>20 Series Digital</th>
<th>70 Series 74S</th>
<th>70 Series 74D</th>
<th>70 Series 74MPA</th>
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<tbody>
<tr>
<td>Available w/Bernard gun</td>
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<tr>
<td>BTB Gun 300 A</td>
<td>●</td>
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<tr>
<td>BTB Gun 400 A</td>
<td>●</td>
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<tr>
<td>Trigger hold</td>
<td>●</td>
<td></td>
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<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Adjustable run-in control</td>
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<tr>
<td>Automatic run-in control</td>
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<tr>
<td>Digital meter(s)</td>
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<tr>
<td>Remote voltage control</td>
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<tr>
<td>Preflow/postflow</td>
<td>●</td>
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<td>Spot control</td>
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<tr>
<td>Dual-wire models</td>
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<tr>
<td>Rotatable drive assembly</td>
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<td>Accu-Mate™</td>
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<td>Dual schedule control</td>
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<td>Trigger program select</td>
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<td>Trigger dual schedule</td>
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<td>Sequence control</td>
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<td>Push-pull capability</td>
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<td>Synergic pulsed MIG</td>
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<td>Profile Pulse™</td>
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</tbody>
</table>

- **Standard**: Included as standard feature.
- **Optional**: Available as additional feature.
- **Field option**: Available as a field upgrade.

**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.

**Feeders include a 10-ft. interconnecting cord and are available with a Bernard® gun and drive rolls** (see chart on page 25). BTB Gun 300 A (20 Series) and BTB Gun 400 A (70 Series, two with dual-wire models) come with .035/.045 in. drive rolls and Centerfire™ contact tips.

**Additional features for 70 Series feeders**

- **Available in dual-wire models** which allows 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.
- **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 (standard on 74D, field option on 74S) 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 programs and their weld settings.

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

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.

---

*Additional packages are available — visit MillerWelds.com or your distributor. **Requires wire kit (230708) to run .035–1/16 in. (0.9–1.6 mm) wire.

---

Model | Stock Number* | Input Power | Wire Feed Speed | Wire Type and Diameter Capacity | Maximum Spool Size Capacity | Dimensions | Net Weight |
--- | --- | --- | --- | --- | --- | --- | --- |
**20 Series**
Basic (301499) Feeder only
Basic (951779) w/Bernard BTB Gun 300 A
Digital (301499001) Feeder only
Digital (951780) w/Bernard BTB Gun 300 A

24 VAC, 3.5 A, 50/60 Hz
75–750 ipm (1.9–19 m/min.)
.023–5/64 in. (0.6–2.0 mm)
60 lb. (27 kg) coil with optional wire reel assembly (108008)
H: 16 in. (406 mm)
W: 12.375 in. (318 mm)
D: 27.875 in. (708 mm)
46 lb. (21 kg)

**70 Series**
(Single-wire models)
S-74S (951196) w/Bernard BTB Gun 400 A
S-74S (951198) w/Bernard BTB Gun 400 A
S-74 MPa Plus (951291) w/Bernard BTB Gun 400 A

24 VAC, 10 A, 50/60 Hz
50–780 ipm (1.3–19.8 m/min.)
.023–1/8 in. (0.6–3.2 mm) Low-speed motor recommended for 3/32 and 1/8 in. wires (factory option)
60 lb. (27 kg) coil with optional wire reel assembly (108008)
H: 14 in. (356 mm)
W: 12.5 in. (318 mm)
D: 28 in. (711 mm)
58 lb. (26 kg)

(Single-wire models)
D-74S (951203) w/Bernard BTB Gun 400 A
D-74S (951204) w/Bernard BTB Gun 400 A
D-74 MPa Plus (951292) w/Bernard BTB Gun 400 A

24 VAC, 10 A, 50/60 Hz
50–780 ipm (1.3–19.8 m/min.)
.023–5/64 in. (0.6–2.0 mm) Hard wire Aluminum** .035–1/16 in. (0.9–1.6 mm)
60 lb. (27 kg) coil with optional wire reel assembly (108008)
H: 14 in. (356 mm)
W: 21 in. (533 mm)
D: 35 in. (889 mm)
87 lb. (39.5 kg)

---

Optional Push-Pull Gun (For MPa Plus feeders only)

| Model | Stock Number* | Cable Length | Welding Current Rating | Wire Feed Speed | Wire Type and Diameter Capacity | Dimensions | Net Weight |
--- | --- | --- | --- | --- | --- | --- | --- |
XR-Aluma-Pro Plus (Air-cooled) (300000001) | — | 15 ft. (4.6 m) | 300 A at 100% duty cycle | 70–900 ipm (1.8–23 m/min.) | Aluminum** .030–1/16 in. (0.8–1.6 mm) | H: 5 in. (127 mm) | 2.5 lb. (1.1 kg)
W: 2.5 in. (64 mm) | L: 17 in. (432 mm) | 2.9 lb. (1.3 kg)
XR-Aluma-Pro Plus (Water-cooled) (300003001) | — | 15 ft. (4.6 m) | 400 A at 100% duty cycle | 70–900 ipm (1.8–23 m/min.) | Aluminum** .030–1/16 in. (0.8–1.6 mm) | H: 5 in. (127 mm) | 2.5 lb. (1.1 kg)
W: 2.5 in. (64 mm) | L: 17 in. (432 mm) | 2.9 lb. (1.3 kg)
XR-Pistol Plus (Air-cooled) (300753) | — | 35 ft. (10.6 m) | 200 A at 100% duty cycle | 70–900 ipm (1.8–23 m/min.) | Aluminum** .030–1/16 in. (0.8–1.6 mm) | H: 7.375 in. (187 mm) | 2.2 lb. (1 kg)
W: 3.5 in. (88 mm) | L: 35 in. (889 mm) | 2.8 lb. (1.3 kg)
XR-Pistol Plus (Water-cooled) (300757) | — | 35 ft. (10.6 m) | 400 A at 100% duty cycle | 70–900 ipm (1.8–23 m/min.) | Aluminum** .030–1/16 in. (0.8–1.6 mm) | H: 10.625 in. (270 mm) | 2.4 lb. (1.1 kg)

---

Industrial 20 Series
Heavy industrial 70 Series

Use with CV, DC power sources.

Processes
- MIG (GMAW) • Flux-cored (FCAW)
- Pulsed MIG (GMiPAW-P) with MPa Plus feeder and optional MPa power source

Suggested power sources
- CP-302 (20 Series Basic and 7-4S) (pg 18)
- Deltaweld® Series (pg 18)
- Invision™ MPa Series (pg 18)
- Dimension® 452 (pg 46)
- Dimensions® 650/650 ArReach® (pg 47)
- XMT® Series (pg 48–51)

Suggested guns
- Bernard® Guns (pg 30–31)
- XR-Aluma-Pro® Plus and XR®-Pistol Plus (see chart below)

Most popular accessories
- Feeder Car 142382 (pg 126)
- Extension Cables (pg 134)
- Spool Adapter 047141 (pg 134)
- Turntable Assembly 146236 (pg 134)
- Wire Straightener (pg 134)
- Field Kits for 20 Series Basic 300513 Digital meters and remote voltage control 300515 Run-in control
- Field Kits for 70 Series (74S) 194988 Meters and non-digital remote voltage control for single-wire models
- 194991 Meters and non-digital remote voltage control for dual-wire models
- Hanging Bail 058435
- Spool Covers 057607 For 20 and 70 Series single-wire models and left side of dual-wire models 090389 For right side of dual-wire models
- Wire Reel Assembly 108008
- Remote configurations are available. See page 26 and literature M/3.0. Visit MillerWelds.com or your distributor for other Miller® options and accessories.
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 8-, 12- or 16-foot booms are sized to accommodate a variety of weld cell layouts (16-, 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.

Each feeder includes a 15-foot Bernard BTB Gun 400 A (two with dual-wire models), plus a 10-foot 14-pin interconnecting cord to connect power source to boom control.

MPA Plus Swingarc. Optimized for the Invision® MPa and XMT® MPa power sources and available with single- or dual-wire feeders in three boom lengths.

### 70 Series Remote Configurations

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number with Single-Wire Feeders</th>
<th>Stock Number with Dual-Wire Feeders</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>8 ft.</td>
<td>SS-74S58 (951522) w/S-74S</td>
<td>DS-74S58 (951531) w/D-74S</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>50–780 ipm (1.3–19.8 m/min)</td>
<td>0.023–0.64 in. (0.6–2.0 mm)</td>
<td>60 lb. (27 kg) coil with optional wire reel assembly (108008)</td>
<td>Single-wire feeder: 110 lb. (50 kg) Dual-wire feeder: 143 lb. (65 kg)</td>
</tr>
<tr>
<td>12 ft.</td>
<td>SS-74S512 (951523) w/S-74S</td>
<td>DS-74S512 (951532) w/D-74S</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>50–780 ipm (1.3–19.8 m/min)</td>
<td>0.023–0.64 in. (0.6–2.0 mm)</td>
<td>60 lb. (27 kg) coil with optional wire reel assembly (108008)</td>
<td>Single-wire feeder: 160 lb. (73 kg) Dual-wire feeder: 207 lb. (94 kg)</td>
</tr>
<tr>
<td>16 ft.</td>
<td>SS-74S516 (951524) w/S-74S</td>
<td>DS-74S516 (951533) w/D-74S</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>50–780 ipm (1.3–19.8 m/min)</td>
<td>0.023–0.64 in. (0.6–2.0 mm)</td>
<td>60 lb. (27 kg) coil with optional wire reel assembly (108008)</td>
<td>Single-wire feeder: 210 lb. (95 kg) Dual-wire feeder: 280 lb. (127 kg)</td>
</tr>
</tbody>
</table>

- **Single-wire control box**: 300881 S-74S, 300882 S-74D, 300738 S-74 MPa Plus
- **Motor control cable**: Standard: 11 conductor, MPA Plus: 14 conductor
- **Wire drive motor assembly**: 300904 Standard left-hand drive, 300740 MPA Plus left-hand drive

**Push-only wire drive motor assembly**: 300741001 Standard right-hand drive, 300741 MPA Plus right-hand drive

**Dual-wire control box**: 300886 D-74S, 300887 D-74D, 300739 D-74 MPa Plus

**Wire drive motor assembly**: 300904 Standard left-hand drive, 300740 MPA Plus left-hand drive

MPA Plus drive can be used with push-only guns, **OR** XR-Aluma-Pro® Plus and XR®-Pistol Plus push-pull guns.

### Heavy industrial • CV DC

- **Processes**: MIG (GMAW) • Flux-cored (FCAW) • Pulsed MIG (GMAW-P) with MPa Plus feeder and optional MPa power source

### Suggested power sources/guns

- **Same as 70 Series**

### Most popular accessories

- **Swingpak™ Base** 183997
- **Pipe Post with 18 in. Base** 149838 4 ft. 149839 6 ft.
- **Single/Dual Spool Carrier** 300353 For 4 ft. post 300352 For 6 ft. post

Pipe post not included. Designed to put spool hub assembly at 36 inches from base for easier wire spool installation.

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
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 30–31, or contact your local welding distributor or Bernard directly.

Engineered for Simplicity. Built for Durability.

BernardWelds.com

1-855-MIGWELD (644-9353)

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 40–41 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.
## MIGmatic™ M-Series MIG Guns

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

![MIG Guns](image-url)

### Three-piece nozzle construction
- Extends nozzle life by reducing wear and helps prevent rocking of nozzle on 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.

### Product Guide

<table>
<thead>
<tr>
<th>Product Class</th>
<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>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>M-100</td>
<td>(248282)</td>
<td>12 ft. (3.7 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>Light industrial fabrication</td>
</tr>
<tr>
<td></td>
<td>M-150</td>
<td>(248040)</td>
<td>15 ft. (4.6 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>Light industrial fabrication</td>
</tr>
</tbody>
</table>

### Steel Alum/Aluma-Pro

- Supports light industrial applications.
- Ideal for fabrication and repair services.

### Bernard® Spoolmatic Information

- Offers a range of options and accessories.
- Designed for MIG (GMAW) and Flux-cored (FCAW) processes.

### Light industrial

- Processes:
  - MIG (GMAW) • Flux-cored (FCAW)

### Suggested power sources

- Milermatic® 141/211 (M-100/M-150) (pg 9)
- Multimatic 200 (M-150) (pg 43)
- Multimatic 215 (M-100/M-150) (pg 43)

### Most popular accessories

- MIGmatic M-Series Consumable Kits (pg 129)
- 234607 .023 in. (0.6 mm) 234608 .030 in. (0.8 mm) 234609 .035 in. (0.9 mm)

Visit MillerWelds.com or your distributor for more detailed information, visit MillerWelds.com/guns-torches for other Miller® options and accessories.

### New! or Improved! products appear in blue type.

*Requires MPA inverter power source. **Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.

---

**MIGmatic M-100 MIG Gun**

- Stock Number: (248282)
- Cable Length: 12 ft. (3.7 m)
- Rated Output: 100 A
- Rated Duty Cycle: 100% with CO₂ gas, 60% with mixed gas
- Wire Diameter Capacity: .023–.045 in. (0.6–1.2 mm)
- Gun Only Net Weight: 3.2 lb. (1.5 kg)

**MIGmatic M-150 MIG Gun**

- Stock Number: (248040)
- Cable Length: 15 ft. (4.6 m)
- Rated Output: 150 A
- Rated Duty Cycle: 100% with CO₂ gas, 60% with mixed gas
- Wire Diameter Capacity: .023–.045 in. (0.6–1.2 mm)
- Gun Only Net Weight: 4.4 lb. (2.0 kg)
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 Consumables

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Cable Length</th>
<th>Rated Output</th>
<th>Rated Duty Cycle</th>
<th>Standard Wire Size</th>
<th>Standard Consumables</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDX-100</td>
<td>(1770028)</td>
<td>10 ft. (3 m)</td>
<td>100 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.030–0.035 in. (0.8–0.9 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770035)</td>
<td>10 ft. (3 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.030–0.035 in. (0.8–0.9 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770036)</td>
<td>12 ft. (3.7 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.030–0.035 in. (0.8–0.9 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770037)</td>
<td>15 ft. (4.6 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.030–0.035 in. (0.8–0.9 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770038)</td>
<td>15 ft. (4.6 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.035–0.045 in. (0.9–1.2 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770041)</td>
<td>10 ft. (3 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.035–0.045 in. (0.9–1.2 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770042)</td>
<td>12 ft. (3.7 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.035–0.045 in. (0.9–1.2 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250</td>
<td>(1770043)</td>
<td>15 ft. (4.6 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.035–0.045 in. (0.9–1.2 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250 EZ-Select</td>
<td>(1770046)</td>
<td>15 ft. (4.6 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.035–0.045 in. (0.9–1.2 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
<tr>
<td>MDX-250 EZ-Select</td>
<td>(1770047)</td>
<td>15 ft. (4.6 m)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.030–0.035 in. (0.8–0.9 mm)</td>
<td>AccuLock MDX Series</td>
</tr>
</tbody>
</table>

### AccuLock™ MDX™ Consumables

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 gas diffuser locks tips in place for optimal performance.

Upgrade to Bernard AccuLock S consumables for increased durability and longer life when guns are used in more industrial applications. See page 30 for more information.
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  See Bernard literature SP-BTB

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 healthy while also increasing their productivity. Choose from a variety of necks, handles and trigger styles to optimize welder ergonomics and weld access, then fully configurable BTB MIG guns help keep your skilled welders healthy while also increasing their productivity. Choose from a variety of necks, handles and trigger styles to optimize welder ergonomics and weld 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:

*Comes with a Miller power pin and a QUICK LOAD® liner AutoLength

Stock Number  | Amperage  | Cable Length  | Handle  | Trigger  | Neck  | Consumables  | Wire Size  | Wire Size |
--- | --- | --- | --- | --- | --- | --- | --- | --- |
Q301SAEBXMIC | 300 | 15 ft. (4.5 m) industrial | B Series small curved | Standard | Rotatable med. 45° | Centerfire™ (flush) | .045 in. (1.2 mm) | .045 in. (1.2 mm) |
Q301SAEBEMC | 300 | 15 ft. (4.5 m) industrial | B Series small curved | Standard | Rotatable med. 45° | Centerfire™ | .045 in. (1.2 mm) | .045 in. (1.2 mm) |
Q301STESEMC | 300 | 15 ft. (4.5 m) industrial | D Series small curved | Standard | Rotatable med. 45° | Quick Tip™ | .052 in. (1.3 mm) | .052 in. (1.3 mm) |
Q301SAEBHMC | 300 | 15 ft. (4.5 m) industrial | B Series large curved | Standard | Rotatable med. 45° | Centerfire™ | .045 in. (1.2 mm) | .045 in. (1.2 mm) |
Q401STESEMC | 400 | 15 ft. (4.5 m) industrial | D Series small curved | Standard | Rotatable med. 45° | Quick Tip™ | .045 in. (1.2 mm) | .045 in. (1.2 mm) |
Q401SV3EML* | 400 | 15 ft. (4.5 m) industrial | C Series straight | Standard | Fixed med. 60° | TOUGH LOCK® | .045 in. (1.2 mm) | .045 in. (1.2 mm) |
Q401SM3EMC | 400 | 15 ft. (4.5 m) industrial | T Series large straight | Standard | Fixed med. 60° | TOUGH LOCK® | .045 in. (1.2 mm) | .045 in. (1.2 mm) |
Q401SAEBHMC | 400 | 15 ft. (4.5 m) industrial | B Series large curved | Standard | Rotatable med. 45° | Centerfire™ | .052 in. (1.3 mm) | .052 in. (1.3 mm) |
Q4020FMF6HMC | 400 | 20 ft. (6 m) industrial | T Series large straight | Standard | Rotatable med. 60° | Centerfire™ | .052 in. (1.3 mm) | .052 in. (1.3 mm) |
Q401SAEMC | 400 | 15 ft. (4.5 m) industrial | B Series large curved | Standard | Rotatable med. 45° | Centerfire™ | 1/16 in. (1.6 mm) | 1/16 in. (1.6 mm) |
S402SF6IMC | 400 | 25 ft. (7.6 m) steel monocoil | T Series large straight | Standard | Rotatable med. 60° | Centerfire™ | 1/16 in. (1.6 mm) | 1/16 in. (1.6 mm) |
Q401SM3IMC | 400 | 15 ft. (4.5 m) industrial | T Series large straight | Standard | Fixed med. 60° | TOUGH LOCK® | 1/16 in. (1.6 mm) | 1/16 in. (1.6 mm) |
Q401SN3IMC | 400 | 15 ft. (4.5 m) industrial | T Series large straight | Locking | Fixed med. 60° | TOUGH LOCK® | 1/16 in. (1.6 mm) | 1/16 in. (1.6 mm) |

Load and lock for flawless wire feeding
- Shorten your troubleshooting list by eliminating 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 29) to simplify inventory and reduce replacement errors

NEW! Bernard® AccuLock™ S Consumables  See Bernard literature SP-ALS

For more detailed information, 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.

Fume Extraction MIG Guns
See Bernard literature SP-CLA (straight handle) and SP-FFE (curved handle)

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 and Quik Tip 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 mono-coil 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

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 (1.7–15.9 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) | 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.) | 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 (300497) | 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 .023–.035 in. (0.6–0.9 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-rotate, 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.

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-S Control, 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Cable Length</th>
<th>Welding Current Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Gun Only Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 ft. (4.6 m)</td>
<td>25 ft. (7.6 m)</td>
<td>30 ft. (9 m)</td>
<td>35 ft. (10.6 m)</td>
<td>70–900 ipm (1.8–23 m/min.)</td>
<td>Aluminum .030–.047 in. (0.8–1.2 mm)</td>
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<tr>
<td>XR-Aluma-Pro Lite</td>
<td>–</td>
<td>(300948)</td>
<td>–</td>
<td>–</td>
<td>(300264)</td>
<td>300 A at 100% duty cycle</td>
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<tr>
<td>(Air-cooled)</td>
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<td></td>
<td></td>
<td>(300265)</td>
<td>400 A at 100% duty cycle</td>
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<tr>
<td>XR-Aluma-Pro</td>
<td>(198127)</td>
<td>(198128)</td>
<td>–</td>
<td>–</td>
<td>(300783)</td>
<td>200 A at 100% duty cycle</td>
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<tr>
<td>(Air-cooled)</td>
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<td></td>
<td></td>
<td>(300784)</td>
<td>400 A at 100% duty cycle</td>
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<tr>
<td>XR-Aluma-Pro</td>
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<td>(Water-cooled)</td>
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<td></td>
<td>(300788)</td>
<td>400 A at 100% duty cycle</td>
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<tr>
<td>XR-Pistol</td>
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<td>200 A at 100% duty cycle</td>
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<td>(300786)</td>
<td>400 A at 100% duty cycle</td>
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<td></td>
<td></td>
<td>(300788)</td>
<td>200 A at 100% duty cycle</td>
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</table>
Feeding Aluminum – Choose the Right Gun Solution

**Push-only Guns**

Known as standard MIG guns, these guns are only used for occasional aluminum work.
- Typically used with hard wire or flux-cored wires in general manufacturing
- For aluminum, guns should be limited to 12-foot lengths and configured with correct aluminum liner and consumables

**Spool Guns**

Integrated wire spools and better aluminum wire feedability make spool guns great for repair and small jobs.
- Low initial cost versus push-pull guns
- Work with many power sources
- Light and simple to use
- Limited deposition because of wire spool size

**Push-pull Guns**

Preferred guns for industrial production work with the best overall aluminum wire feedability.
- Built for longevity
- Great arc starts and performance
- Higher amp ratings
- Air- and water-cooled models
- Work in conjunction with designated wire feeders

Learn more at MillerWelds.com/aluminum
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

---

**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

---

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

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

---

**Laser Welding/Cladding System**

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

[Images of various automation components and systems]
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 lb. maximum part
  - Light duty: 500 lb. maximum part
  - Medium duty: 2,000 lb. maximum part
  - Heavy duty: 10,000 lb. 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 ft.
  - 9 x 9 ft.
  - 12 x 12 ft.
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 robotic MIG guns are engineered for accurate, reliable and repeatable performance that maximizes production uptime and throughput.

Air-Cooled MIG Guns
See Tregaskiss literature SP-TA3 and SP-CA3

Fully configurable Tregaskiss TOUGH GUN® TA3 and CA3 robotic MIG guns are engineered to perform in high-volume production environments. Parts can be replaced with minimal downtime and little to no impact on Tool Center Point (TCP).

TA3 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 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

Water-Cooled MIG Guns
See Tregaskiss literature SP-TWD and SP-CWD

Tregaskiss® by DINSE® robotic MIG guns deliver superior cooling power for longer gun and consumable life with zero gas loss and an unparalleled total cost of ownership.

TWD MIG gun
• Runs internal to the robot arm
• Available in 350-, 400-, 500- and 600-amp models at 100 percent duty cycle with mixed gases
• Available as a complete package from the power pin to the contact tip
• Zero gas loss due to dedicated line running from the back of the gun directly to the gas diffuser
• Unique dual-circuit cooling system achieves lower operating temperatures
• Air blast is standard — options include clutch or solid mount and wire brake

CWD MIG gun
• Runs external to the robot arm
• Available in 350-, 400-, 500- and 600-amp models at 100 percent duty cycle with mixed gases
• Zero gas loss due to dedicated line running from the back of the gun directly to the gas diffuser
• Unique dual-circuit cooling system achieves lower operating temperatures
• Air blast is standard — options include clutch or solid mount and wire brake
Tregaskiss® TOUGH GUN® TT3 Reamers

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.

Toughaskiss Welding Consumables (cutaways shown)

AccuLock™ R Consumables
Load and lock for reduced downtime and rework
• Shorten your troubleshooting list by 15+ failure modes
• Capture spatter at the front of the nozzle for improved reaming
Common consumable platform
• Use AccuLock contact tips on both Bernard® and Tregaskiss® MIG guns to reduce costs and simplify inventory

TOUGH LOCK® Consumables
See Tregaskiss 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

FOR MORE INFORMATION OR TO CONFIGURE YOUR TOUGH GUN REAMER ONLINE, VISIT TREGASKISS.COM/CONFIGUREMYGUN

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.

See literature SP-ALR for complete offering.

TOUGH LOCK® Consumables
See Tregaskiss literature SP-TLC
• Dual taper technology keeps consumables locked from tip to neck for improved weld consistency, positive electrical conductivity and maximized heat dissipation
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TOUGH GARD® Anti-Spatter Liquid
TOUGH GARD Multi-Feed System
Visit Tregaskiss.com or your distributor for other Tregaskiss options and accessories.

See literature SP-TLC for complete offering.

Visit Tregaskiss.com or your distributor for additional Tregaskiss consumable options.

Load and lock for reduced downtime and rework
• Shorten your troubleshooting list by 15+ failure modes
• Capture spatter at the front of the nozzle for improved reaming
Common consumable platform
• Use AccuLock contact tips on both Bernard® and Tregaskiss® MIG guns to reduce costs and simplify inventory
### Power Source

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

| Gauge (.020–.125 in.) | ● | ● | ● |
| Sheet (.125–.375 in.) | ● | ● | ● |
| Plate (.375–1 in.)   | ● | ● | ● |

<table>
<thead>
<tr>
<th>Wire Size</th>
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<tr>
<td>.023 in.</td>
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<tr>
<td>.030 in.</td>
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<tr>
<td>.035 in.</td>
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<td>.045 in.</td>
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<tr>
<td>.052 in.</td>
</tr>
<tr>
<td>1/16 in.</td>
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<tr>
<td>5/64 in.</td>
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<tr>
<td>3/32 in.</td>
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<table>
<thead>
<tr>
<th>Process</th>
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<tbody>
<tr>
<td>Short Circuit</td>
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<tr>
<td>Pulsed Spray</td>
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<tr>
<td>Stick</td>
</tr>
<tr>
<td>AC TIG</td>
</tr>
<tr>
<td>DC TIG</td>
</tr>
<tr>
<td>CAC-A</td>
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</tbody>
</table>

### Icon Key

- **Circle** Designed for
- **Square** Capable of

#### Process Quality

- **Star** Good
- **Double Star** Better
- **Triple Star** Best
- **Quad Star** Optimized

New! or Improved! products appear in blue type.

1 CC/CV and FieldPro™ models are capable of aluminum welding. MPa models are designed for aluminum welding. XR™ push-pull system is recommended for best results.

2 MPa models only.
Multimatic® 200 and 215

- **See page 29 for more information.**
- **NEW!** MDX Series MIG gun.
- **IMPROVED!**
- **NEW!** Multi-voltage plug (MVP™) allows connection to 240-volt power receptacles without the use of any tools — simply choose the plug that fits the receptacle and connect to the power cord.

**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 (SO/60 Hz)</th>
<th>Wire Feed Speed</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multimatic 200</strong> (907518) (951649) with TIG contractor kit (see page 132 for kit contents)</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</td>
<td>70-425 ipm (1.8-10.8 m/min.)</td>
<td>H: 14.5 in. (368 mm)</td>
<td>29 lb. (13.2 kg)</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>110 A at 19.5 V, 20% duty cycle</td>
<td>22.4</td>
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<td>W: 9.75 in. (248 mm)</td>
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<td>D: 17 in. (432 mm)</td>
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<tr>
<td></td>
<td></td>
<td>230 V</td>
<td>30-200</td>
<td>150 A at 21.5 V, 20% duty cycle</td>
<td>17.5</td>
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</tbody>
</table>
**Multimatic® 220 AC/DC**

New! See literature DC/12.65

**Welding Capability**

<table>
<thead>
<tr>
<th>Process</th>
<th>MIG Mild Steel</th>
<th>MIG Aluminum</th>
<th>TIG Mild Steel</th>
<th>TIG Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Max. 3/8 in. (9.5 mm)</td>
<td>Max. 3/8 in. (9.5 mm)</td>
<td>Min. 24 ga. (6.4 mm)</td>
<td>Min. 24 ga. (6.6 mm)</td>
</tr>
<tr>
<td>Amperage Range</td>
<td>120 V</td>
<td>240 V</td>
<td>120 V</td>
<td>240 V</td>
</tr>
<tr>
<td>Rated Output</td>
<td>105 A at 19.2 V, 60% duty cycle</td>
<td>200 A at 24 V, 20% duty cycle</td>
<td>130 A at 15.2 V, 40% duty cycle</td>
<td>210 A at 18.4 V, 20% duty cycle</td>
</tr>
<tr>
<td>Wire Feed Speed</td>
<td>23.3 – 2.8 – 2.8</td>
<td>– 27.2 – 4.8 – 4.8</td>
<td>– 21.5 – 3.8 – 3.8</td>
<td>– 22.4 – 5.4 – 5.4</td>
</tr>
</tbody>
</table>

**Processes**

- MIG (GMAW)
- 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
- RFS-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, AK2C TIG torch accessory kit, hook-and-loop cord wraps and material thickness gauge (229895)

**Weight**

Net: 56 lb. (25.3 kg)

**Dimensions**

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

**Stock Number (907757)**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Mode/Process</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Wire Feed Speed</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>300371</td>
<td>Spoolmate 100</td>
<td>120 V</td>
<td>30-125 A</td>
<td>105 A at 19.2 V, 60% duty cycle</td>
<td>23.3 – 2.8 – 2.8</td>
<td>60–600 ipm (1.5-15.2 m/min.)</td>
<td>45 VDC</td>
<td>56 lb. (25.3 kg)</td>
</tr>
<tr>
<td>300429 (pg 133)</td>
<td>Spoolmate 150</td>
<td>120 V</td>
<td>20-140 A</td>
<td>130 A at 15.2 V, 40% duty cycle</td>
<td>24.0 – 2.9 – 2.9</td>
<td>–</td>
<td>46 VDC</td>
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<tr>
<td>301272</td>
<td>Spoolmate 100</td>
<td>240 V</td>
<td>20-210 A</td>
<td>210 A at 18.4 V, 20% duty cycle</td>
<td>– 22.4 – 5.4 – 5.4</td>
<td>–</td>
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<tr>
<td>301524 (pg 129)</td>
<td>Dual Cylinder Rack Cart</td>
<td>–</td>
<td>Dual Cylinder Rack Cart</td>
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</table>

**NEW!** MDX Series MIG gun. See page 29 for more information.

All in one. Comes equipped with all accessories to MIG, stick, AC and DC TIG welder 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.

See page 133

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Multimatic® 255

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Min. Wire Size (mm)</th>
<th>Max. Wire Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>1.2 mm</td>
<td>1.6 mm</td>
</tr>
<tr>
<td>Aluminum</td>
<td>1.2 mm</td>
<td>1.6 mm</td>
</tr>
<tr>
<td>TIG Mild Steel</td>
<td>1.2 mm</td>
<td>1.6 mm</td>
</tr>
<tr>
<td>Stick Mild Steel</td>
<td>1.2 mm</td>
<td>1.6 mm</td>
</tr>
</tbody>
</table>

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.

**Processes**
- MIG (GMAW) • Flux-cored (FCAW)
- Pulsed MIG (GMAW-P)
- DC stick (SMAW)
- DC Lift-Arc™ TIG (GTAW)
- Pulsed TIG (GTAW-P)

Multimatic 255 comes complete with
- 15 ft. (4.5 m) 250-amp MDX™-250 MIG gun with Bernard® AccuLock™ S consumables
- 10 ft. (3 m) cable with electrode holder
- 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 29)
- Spoolmatic® Spool Guns (pg 33)
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns (pg 34)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 126)
- EZ-Latch™ Dual Cylinder Running Gear 951769 (pg 126)
- Protective Cover 301521 (pg 129)
- Multimatic 255 TIG Kit 301518 (pg 132)
- 10-Pin to 14-Pin Adapter Cord 273873 (pg 132)

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

<table>
<thead>
<tr>
<th>Welding Mode/Process</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV: MIG/flux-cored</td>
<td>20–350</td>
<td>230 A at 25.5 V, 60% duty cycle</td>
<td>34.7 29.7 17.1 14.3 8.2 8.2</td>
<td>H: 19.24 in. (489 mm) W: 13.75 in. (349 mm) D: 26.25 in. (667 mm)</td>
<td>84 lb. (38 kg)</td>
</tr>
<tr>
<td>CC: Stick</td>
<td>30–275</td>
<td>200 A at 28 V, 60% duty cycle</td>
<td>33.5 29 16.4 13.6 7.8 7.8</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CC: DC TIG</td>
<td>5–275</td>
<td>275 A at 21 V, 60% duty cycle</td>
<td>34.1 29.9 17 14.1 8.1 8.1</td>
<td>–</td>
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</tbody>
</table>
**Dynasty® 280 DX Multiprocess**

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

Dynasty 280 DX Multiprocess shown with ArcReach® SuitCase® 8 (sold separately).

**ArcReach® SuitCase® feeder** paired with the CV output of the power source gives this unit MIG process capabilities.

**Dimension™ 452**

Multiprocess performance in a reliable package. Designed for heavy-industrial applications, with 100 percent duty cycle for extended arc-on time.

**Built-in arc control** for stick welding allows operators more flexibility when welding in tight areas where sticking electrodes is a problem.

**Line voltage compensation** ensures consistent weld performance even when primary power varies.

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

**Digital meters** are easy to read and display preset and actual voltage and amperage.

**115-volt power** for tools and coolant systems.

---

### Stock Number

<table>
<thead>
<tr>
<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>TIG 3-phase</td>
<td>1–280 (DC)</td>
<td>235 A at 19.4 V</td>
<td>19 17 10 9 7 7.0 6.7</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>
<td>55 lb. (25 kg)</td>
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</tr>
<tr>
<td>Stick 3-phase</td>
<td>5–280</td>
<td>200 A at 28 V</td>
<td>22 20 11 10 8 8.2 7.9</td>
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<tr>
<td>1-phase</td>
<td>180 A at 27.2 V</td>
<td>34 31 17 15 12 7.1 7.0</td>
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</tbody>
</table>

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### Heavy Industrial

**Processes**

- MIG (GMAW) • Flux-cored (FCAW)
- Stick (SWAW) • TIG (GTAW)
- Air carbon arc cutting and gouging (CAG-A) (5/16 in. carbons)

**Stationary package includes**

- Power source
- S-74D 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.

**Most popular accessories**

- ArcReach® SuitCase® Feeders (pg 22)
- 70 Series Feeders (pg 24)
- Standard Running Gear 042866 (pg 127)
- Standard Cylinder Rack 042877 (pg 127)
- Industrial MIG 4/0 Kit (with lug connectors) 302390 (pg 129)
- Extension Cables (pg 134)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Dimension™ 650 and 650 ArcReach®

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.

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 32 percent fewer amps than the Dimension 652.

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

- ArcReach® SuitCase® Feeders (pg 22/53)
- 70 Series Feeders (pg 24)
- Bernard® MIG Guns (pg 30–31)
- ArcReach® Stick/TIG Remote 301325 (pg 53) (for ArcReach model only)
- Running Gear Cylinder Rack 300408 (pg 127)
- Industrial MIG 4/0 Kit (with lug connectors) 300390 (pg 129)
- Extension Cables (pg 134)

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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions (Includes lift eye)</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension 650</td>
<td>10-815 A CV, 10-44 V SAW mode: 10-65 V</td>
<td>650 A at 44 VDC, 100% duty cycle</td>
<td>53.2 42.8 34 30.7 87 VDC</td>
<td>H: 28.187 in. (716 mm) W: 16.687 in. (424 mm) D: 31.625 in. (803 mm)</td>
<td></td>
<td>158 lb. (71.7 kg)</td>
</tr>
<tr>
<td>(907617) 380/460 V power source only</td>
<td></td>
<td></td>
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<tr>
<td>(951638) 380/460 V stationary package</td>
<td></td>
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<tr>
<td>(951637) 380/460 V MIGRunner package</td>
<td></td>
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<tr>
<td>Dimension 650 ArcReach</td>
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<tr>
<td>(907617001) 380/460 V power source only</td>
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</tbody>
</table>

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 page 22 for ArcReach SuitCase feeders and page 53 for the Stick/TIG Remote. Don’t walk. Weld! Learn more at 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.
**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.

**InsightCore™** 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>Feature</th>
<th>350 Amp XMT 350 CC/CV</th>
<th>350 A 34 VDC</th>
<th>350 Amp XMT 350 MPa</th>
<th>450 Amp XMT 450 CC/CV</th>
<th>450 A 38 VDC</th>
<th>450 Amp XMT 450 MPa</th>
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</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>3- or 1-phase power</td>
<td></td>
<td></td>
<td>3-phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary Operating Range</td>
<td>Auto-Line (208–575 V)</td>
<td></td>
<td></td>
<td>Manual link (230/460 V or 575 V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld Output</td>
<td>350 A at 34 VDC (3-phase input power at 60% duty cycle)</td>
<td>UPGRADE</td>
<td></td>
<td>450 A at 38 VDC (3-phase input power at 100% duty cycle)</td>
<td>UPGRADE</td>
<td></td>
</tr>
<tr>
<td>Carbon Arc Gouging</td>
<td>Rated: 1/4 in. (6.4 mm)</td>
<td>UPGRADE</td>
<td></td>
<td>Rated: 5/16 in. (7.9 mm)</td>
<td>UPGRADE</td>
<td></td>
</tr>
<tr>
<td>Net Weight</td>
<td>80 lb. (36.3 kg)</td>
<td></td>
<td></td>
<td>122 lb. (55.3 kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Connector</td>
<td>Dinse or Tweco</td>
<td></td>
<td></td>
<td>1/2 in. stud</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulsed MIG</td>
<td>Yes</td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14-pin Compliant</td>
<td>Yes</td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insight Core Capable (requires Insight Core 14-pin module)</td>
<td>Yes (page 77)</td>
<td>UPGRADE</td>
<td></td>
<td>Yes (page 77)</td>
<td>UPGRADE</td>
<td></td>
</tr>
<tr>
<td>ArcReach</td>
<td>Factory option (page 50)</td>
<td>UPGRADE</td>
<td></td>
<td>Factory option (page 51)</td>
<td>UPGRADE</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.

**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 reduced heat-affected zone, weld in all positions, great for thick to thin metal, good gap filling ability and 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.

### 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.

---

1. Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc.
2. Feeders include gun and drive rolls. MIGRunners add 2/0 weld cable and 2/0 work cable with clamp, flowmeter regulator with gas hose and MIGRunner cart.
3. Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

---

<table>
<thead>
<tr>
<th>Model/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>350 A</td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>5–425 A</td>
<td>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 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>
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<tr>
<td>(Dinse)</td>
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<tr>
<td>(907161) 208–575 V power source only</td>
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<tr>
<td>(907161011) 208–575 V w/auxiliary power</td>
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<tr>
<td>(951739) 208–575 V w/MIGRunner w/20 Series Basic</td>
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<tr>
<td>(951341) 208–575 V w/MIGRunner w/575 V</td>
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<tr>
<td>XMT 350 MPa (Dinse except where noted)</td>
<td>5–425 A</td>
<td>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>
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<tr>
<td>(907366) 208–575 V power source only</td>
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<tr>
<td>(907366011) 208–575 V w/auxiliary power</td>
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<tr>
<td>(907366014) 208–575 V w/Tweco®</td>
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<tr>
<td>XMT 450 CC/CV</td>
<td>15–600 A</td>
<td>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></td>
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<tr>
<td>(1/2 in. stud)</td>
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<tr>
<td>(907481) 230/460 V power source only</td>
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<tr>
<td>(907482) 575 V power source only</td>
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<tr>
<td>XMT 450 MPa (1/2 in. stud)</td>
<td>15–600 A</td>
<td>10–38 V</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>51 27.6 23.6 21.6 18.3 (KVA is 23.5 on 575 V)</td>
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<tr>
<td>(907478) 230/460 V power source only</td>
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<tr>
<td>(907478001) 230/460 V w/auxiliary power</td>
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<tr>
<td>(907480) 575 V power source only</td>
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<tr>
<td>450 A</td>
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</tbody>
</table>

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

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-Bind™ 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 field-proven.

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 rack. 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.

Auto-Bind™ support the Cable Length Compensation (CLC™) and Adjust While Welding (AWW™) features or the ArcReach Smart Feeder.

Note: XMT 450 CC/CV ArcReach does not support the Cable Length Compensation (CLC™) and Adjust While Welding (AWW™) features or the ArcReach Smart Feeder.

Heavy industrial

Processes
- MIG (GMAW) • Stick (SMAW)
- TIG (GTAW) • Flux-cored (FCAW)
- RMD • Pulsed MIG (GMAW-P)*

*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).

XMT 450 FieldPro Rack shown.

*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).

450 A

Model/Stock Number | Input Power | Amperage/Voltage Ranges | Rated Output | Amps Input at Rated Load Output, 60 Hz | Max. Open-Circuit Voltage | Dimensions | Net Weight |
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 FieldPro (Tweeco®) (951736) Stick/TIG</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 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>93 lb. (42.2 kg)</td>
</tr>
<tr>
<td>XMT 350 FieldPro Power Source only (907730) 208–575 V with Tweeco® (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>
<td>93 lb. (42.2 kg)</td>
</tr>
<tr>
<td>XMT 350 FieldPro with Polarity Reversing System (Tweeco®) (951737) Stick/TIG</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 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>93 lb. (42.2 kg)</td>
</tr>
<tr>
<td>XMT 350 FieldPro with Polarity Reversing Power Source only (907731) 208–575 V with Tweeco® (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>
<td>93 lb. (42.2 kg)</td>
</tr>
<tr>
<td>XMT 450 CC/CV ArcReach (1/2 in. stud) (907481003) 230/480 V (907481004) 230/480 V w/auxiliary power*</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>
<td>122 lb. (55.3 kg)</td>
</tr>
</tbody>
</table>

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, ensures safety and improves weld quality.

--

**ArcReach power sources**

**ARCREACH PLUG-IN POWER SOURCES**
- **Dimension™ 650 ArcReach™**
  - For harsh environments and a wide range of output requirements  . . . . . . . . . . . . . pg 47
- **XMT® 350 FieldPro™ system**
  - Exceptional arc performance maximizes weld quality, minimizes defects . . . . . . . . . . . . . pg 50
- **XMT® 350 FieldPro™ system with Polarity Reversing**
  - Automatically selects polarity, lead outputs and weld parameters . . . . . . . . . . . . . . . . . pg 50
- **XMT® 450 CC/CV ArcReach™**
  - Portability and excellent arc performance with flexibility and simplicity . . . . . . . . . . . . . pg 51

**ARCREACH ENGINE-DRIVEN POWER SOURCES**
- **Trailblazer® 325 with ArcReach™**
  - Smaller and lighter than competition with unbeatable arc performance . . . . . . . . . . . . . pg 86
- **Big Blue® ArcReach™ models**
  - Tackle tough jobs that require high output for welding, gouging and aux power . . . pg 88–91

---

*Does not support the new Cable Length Compensation (CLC) and Adjust While Welding (AWW) features or the ArcReach Smart Feeder.

**Does not support the new Cable Length Compensation (CLC) and Adjust While Welding (AWW) features.
**HIGHER PRODUCTIVITY**
Welders spend up to 250 hours a year walking to and from the power source. Eliminating those walks adds $11,250 in productive time.

**LESS SETUP TIME**
Select ArcReach machines have Cable Length Compensation (CLC™): it adjusts voltage based on weld lead length for less setup time.

**MORE ARC-ON TIME**
ArcReach® technology increases arc-on time, and Adjust While Welding (AWW™) technology lets welders make adjustments at the wire feeder or remote.

**REDUCED RISK**
Fewer walks to the power source means chances of a slip, trip or fall injury are reduced.

**BETTER WELD QUALITY**
Because there’s no temptation to use non-optimal settings to avoid a walk to the power source, ArcReach technology means better weld quality.

**ArcReach accessories**

**ARCREACH WIRE FEEDERS**
ArcReach® SuitCase® Feeders  pg 22
For all ArcReach power sources. For MIG and flux-cored welding. Features remote voltage control and Auto-Process Select™.

ArcReach® Smart Feeder  pg 22
For XMT® 350 FieldPro™ and ArcReach engine drives. For RMD® and pulsed MIG welding up to 200 feet from the power source. Helps reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

**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.
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

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

Table 1: Processes
- Stick (SMAW) • DC TIG (GTAW)
- MIG (GMAW) • Flux-cored (FCAW)
- RMD • Pulsed MIG (GMAW-P)
- Air carbon arc cutting and gouging (CAC-A)

PipeWorx welding system comes complete with
- PipeWorx 400 power source with cable hangers (907382 or 907384)
- Dual 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 Feeder 300568 Includes 25 ft. (7.6 m) work cable, EG500 work 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 132)
- RPBS-14 300666 (pg 132)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Aaron Valencia defines the true meaning of “family” as he uses welding to inspire the kids of the Lost Angels Children’s Project. Together, they restore classic cars, build the future of welding — and open doors to new beginnings. 

Together, WE BUILD™ futures.

Learn more at MillerWelds.com/WeBuild

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.
Thunderbolt® 160 and 210

Best-in-class dependable, portable, powerful stick welder.

Nearly 100 pounds lighter so you can work smarter not harder by bringing the welder to the work. It’s portable so it’s easier to carry and store. 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.

Thunderbolt 160 includes multi-voltage plug (MVP™) which 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.

### Thunderbolt® 160 (907721)
- **Input Power**: 120 V
- **Welding Amperage Range**: 20–80
- **Rated Output**: 65 A at 20% duty cycle
- **Amps Input at Rated Output**: 20.7
- **Max. Open-Circuit Voltage**: 91 VDC
- **Dimensions**: H: 10.5 in. (267 mm), W: 7.125 in. (181 mm), D: 13.375 in. (340 mm)
- **Net Weight**: 15 lb. (6.8 kg)

### Thunderbolt® 210 (907722)
- **Input Power**: 240 V
- **Welding Amperage Range**: 20–160
- **Rated Output**: 160 A at 30% duty cycle
- **Amps Input at Rated Output**: 27.8
- **Max. Open-Circuit Voltage**: 91 VDC
- **Dimensions**: H: 10.5 in. (267 mm), W: 7.125 in. (181 mm), D: 13.375 in. (340 mm)
- **Net Weight**: 15.5 lb. (7.0 kg)

For more detailed information, visit MillerWelds.com/stick

Also see Multiprocess and TIG sections for machines that can stick weld.
**Maxstar® 161 S**  
See literature DC/27.3  

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

- **AUTO-LINE® Technology** Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.
- **Digital meter** for more precise control when presetting or monitoring welding amperage.
- **Adaptive Hot Start®** for stick arc starts.  
  - Portable with adjustable handle/shoulder strap. Easy to transport at only 13 pounds.
  - **Fan-On-Demand™** power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminates pulled through the machine.
- **Stick-Stuck** 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.

---

### Specifications

<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, 50/60 Hz</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>(907709)</td>
<td>120 V</td>
<td>20–90</td>
<td>90 A at 23.8 V, 30% duty cycle</td>
<td>23.2</td>
<td>2.8</td>
<td>2.8</td>
<td>48 VDC (12–16 VDC®)</td>
<td>H: 10.3 in. (262 mm)</td>
<td>13 lb (5.9 kg)</td>
</tr>
<tr>
<td>(907709001)</td>
<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>
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</tr>
</tbody>
</table>

---

**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.

- **AUTO-LINE® Technology** 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.**

---

### Specifications

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Phase</th>
<th>Amps Input at Rated Output, 50/60 Hz</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>(907682)</td>
<td>Stick</td>
<td>208–480 V</td>
<td>5–210</td>
<td>160 A at 26.4 V, 60% duty cycle</td>
<td>Three-phase</td>
<td>15</td>
<td>13</td>
<td>8</td>
<td>6</td>
<td>5.5</td>
<td>5.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>120 V</td>
<td>5–100</td>
<td>90 A at 23.6 V, 60% duty cycle</td>
<td>Single-phase</td>
<td>26</td>
<td>22</td>
<td>13</td>
<td>11</td>
<td>5.3</td>
<td>5.3</td>
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<tr>
<td></td>
<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</td>
<td>14</td>
<td>12</td>
<td>7</td>
<td>6</td>
<td>5.2</td>
<td>4.9</td>
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<td></td>
<td></td>
<td>120 V</td>
<td>1–210</td>
<td>125 A at 15 V, 60% duty cycle</td>
<td>Single-phase</td>
<td>24</td>
<td>20</td>
<td>12</td>
<td>10</td>
<td>4.9</td>
<td>4.9</td>
</tr>
</tbody>
</table>

---

**Light industrial**

- **Process** Stick (SMAW)  
  - 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  
  - Protective X-CASE™

**Industrial**

- **Processes** Stick (SMAW) • TIG (GTAW)  
  - 8 ft. (2.4 m) power cord (no plug)  
  - Two 50 mm Dinse-style connectors

**Most popular accessories**

- 12.5 ft. (3.8 m) Weldcraft™ A-150 Valve TIG torch WP-17V-25-2 (pg 68)  
- Remote Controls (pg 132)  
- Air-Cooled TIG Torch Connector (pg 133)

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

---

**Weight**

- 36 lb. (16.3 kg)

---

**Dimensions**

- 13.6 in. (346 mm) H: 13.6 in. (346 mm)  
- 8.6 in. (219 mm) W: 8.6 in. (219 mm)  
- 19.5 lb. (883 kg) D: 19.5 lb. (883 kg)  
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector

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

---

**Net Weight**

- 13 lb. (5.9 kg)
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.

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Rack Capacity</th>
<th>Input Power to Rack</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Pack Rack</td>
<td>(907247) Tweco®</td>
<td>4 units</td>
<td>220–230/460–575 V, threephase, 50/60 Hz.</td>
<td>137 134 79 72 70 57</td>
<td>H: 50.7 in. (1,289 mm)</td>
<td>355 lb. (161 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>W: 46 in. (1,168 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 26.5 in. (673 mm)</td>
<td></td>
</tr>
<tr>
<td>8-Pack Rack</td>
<td>(907365) Tweco®</td>
<td>8 units</td>
<td>220–230/460–575 V, threephase, 50/60 Hz.</td>
<td>274 268 158 145 140 114</td>
<td>H: 50.7 in. (1,289 mm)</td>
<td>640 lb. (290 kg)</td>
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<tr>
<td></td>
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<td></td>
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<td>W: 46 in. (1,168 mm)</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>D: 26.5 in. (673 mm)</td>
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<tr>
<td>Empty Rack</td>
<td>(195051)</td>
<td>4 units</td>
<td></td>
<td></td>
<td>Same as 4-pack rack</td>
<td>166 lb. (75 kg)</td>
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<tr>
<td></td>
<td>(300580)</td>
<td>8 units</td>
<td></td>
<td></td>
<td>Same as 8-pack rack</td>
<td>280 lb. (127 kg)</td>
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</table>
### Product Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Class</th>
<th>TIG</th>
<th>Stick</th>
<th>CAC-A</th>
<th>MIG/FC</th>
<th>Max. Electrode Diameter</th>
<th>Material Thickness Range (TIG)</th>
<th>Welding Amperage Range</th>
<th>Pulse Capability</th>
<th>Net Weight</th>
<th>Generator Power Requirement</th>
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<tr>
<td>Maxstar ® 161</td>
<td>60</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●</td>
<td></td>
<td>5/32 in. 1/8 in. 1/8 in. 3/32 in. —</td>
<td>.020-3/16 in.</td>
<td>5-180 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>62</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●</td>
<td></td>
<td>3/16 in. 3/16 in. 5/32 in. 5/32 in. —</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>
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<tr>
<td>Maxstar ® 280</td>
<td>62</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●</td>
<td></td>
<td>7/32 in. 3/16 in. 3/16 in. 3/16 in. 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>
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<tr>
<td>Maxstar ® 400</td>
<td>64</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●</td>
<td></td>
<td>5/16 in. 5/16 in. 1/4 in. 1/4 in. 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>29 kW</td>
</tr>
<tr>
<td>Maxstar ® 800</td>
<td>64</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●</td>
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<td>5/16 in. 5/16 in. 5/16 in. 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>
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<tr>
<td>Diversified ® 180</td>
<td>60</td>
<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>5/32 in. 1/8 in. 1/8 in. 3/32 in. —</td>
<td>.030-3/16 in. (alum.) .025-3/16 in. (steel)</td>
<td>10-180 A</td>
<td>—</td>
<td>50 lb. (23 kg)</td>
<td>5.5 kW</td>
</tr>
<tr>
<td>Syncrowave ® 210 Runner TIG/MIG Complete</td>
<td>61</td>
<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>5/32 in. 1/8 in. 1/8 in. 3/32 in. —</td>
<td>.020-1/4 in. (aluminum/steel)</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>62</td>
<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>3/16 in. 3/16 in. 5/32 in. 5/32 in. —</td>
<td>.012-1/4 in. (alum.) .002-1/4 in. (steel)</td>
<td>2-210 A (AC) 1-210 A (DC)</td>
<td>0.1-250 PPS (base, DC only)</td>
<td>47 lb. (21.3 kg)</td>
<td>9 kW</td>
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<tr>
<td>Dynasty ® 280</td>
<td>62</td>
<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>7/32 in. 3/16 in. 3/16 in. 3/16 in. 3/16 in. —</td>
<td>.012-3/8 in. (alum.) .004-3/8 in. (steel)</td>
<td>2-280 A (AC) 1-280 A (DC)</td>
<td>0.1-250 PPS (base, DC only)</td>
<td>52 lb. (23.6 kg)</td>
<td>12.5 kW</td>
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<tr>
<td>Dynasty ® 400</td>
<td>64</td>
<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>5/16 in. 5/16 in. 1/4 in. 1/4 in. 1/4 in. —</td>
<td>.015-5/8 in. (alum.) .012-5/8 in. (steel)</td>
<td>3-400 A</td>
<td>0.1-500 PPS (AC) 0.1-5,000 PPS (DC)</td>
<td>134 lb. (61 kg)</td>
<td>20 kW</td>
</tr>
<tr>
<td>Dynasty ® 800</td>
<td>64</td>
<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>5/16 in. 5/16 in. 5/16 in. 5/16 in. 3/8 in. —</td>
<td>.020-1 in. (aluminum/steel)</td>
<td>5-800 A</td>
<td>0.1-500 PPS (AC) 0.1-5,000 PPS (DC)</td>
<td>198 lb. (90 kg)</td>
<td>50 kW</td>
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<td>Syncrowave ® 250 DX</td>
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<td>●</td>
<td>—</td>
<td></td>
<td>1/4 in. 1/4 in. 7/32 in. 3/16 in. 3/16 in. —</td>
<td>.015-3/8 in. (alum.) .012-1/2 in. (steel)</td>
<td>3-310 A</td>
<td>0.25-10 PPS (optional)</td>
<td>378 lb. (172 kg)</td>
<td>22 kW</td>
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<tr>
<td>Syncrowave ® 350 LX</td>
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<td>●●●●</td>
<td>●</td>
<td>—</td>
<td></td>
<td>5/16 in. 5/16 in. 1/4 in. 1/4 in. 1/4 in. —</td>
<td>.015-1/2 in. (alum.) .012-5/8 in. (steel)</td>
<td>3-400 A</td>
<td>0.25-10 PPS</td>
<td>496 lb. (225 kg)</td>
<td>30 kW</td>
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</tbody>
</table>
Diversion™ 180 AC/DC TIG

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.

Portable. Easy to transport at 50 pounds.

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 reduces tungsten and material contamination.

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 contaminants 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.

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.

Two models available. See page 57 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 hook up (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 electrodes like E6010.

Visiting MillerWelds.com or your distributor for other Miller® options and accessories.
Syncrowave® 210
AC/DC TIG, Stick and MIG (with Spool Gun)

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

Max. 1/4 in. (6.4 mm)
Min. 0.020 in. (0.5 mm)

Steel
Aluminum

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.

<table>
<thead>
<tr>
<th>Process</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/DC TIG (GTAW)</td>
<td>DC stick (SMAW)</td>
</tr>
<tr>
<td>Pulsed TIG (GTAW-P)</td>
<td>MIG (GMAW)</td>
</tr>
<tr>
<td>Flux-cored (FCAW)</td>
<td></td>
</tr>
</tbody>
</table>

Complete package 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
- Spoolmate™ 150 spool gun (301272)
- 4-14 pin connector
- Flow-thru Dinse-style connector
- Factory-installed running gear with EZ-Change™ low cylinder rack
- Quick-reference guide

Most popular accessories:
- 25 ft. (7.6 m) Weldcraft™ A-150 TIG Torch  WP-17-25-R (pg 68)
- TIG Torch Accessory Kit AK2C (pg 75)
- Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 in.) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.
- TIG Torch Accessory Kit AK-150MFC (pg 75)
- 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 132)
- RCC-14 Remote Control 151086 (pg 132)
- Wireless Remote Foot Control 300429 (pg 133)

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

AC/DC Technology

- Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.
- 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.
- Low power draw. Inverter-based power source provides full welding output from 240 volts while drawing less than 30 amps.
- High-frequency (HF) arc starting for non-contact arc initiation, reducing tungsten and material contamination.
- 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.

Auto-Line Technology

- Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Inputs

<table>
<thead>
<tr>
<th>Stock Number (951684)</th>
<th>Runner TIG/MIG Complete (includes Spoolmate 150)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>Welding Process</td>
</tr>
<tr>
<td>115 V</td>
<td>DC TIG</td>
</tr>
<tr>
<td>230 V</td>
<td>DC TIG</td>
</tr>
</tbody>
</table>

Dimensions

H: 31.5 in. (800 mm)
W: 18.5 in. (470 mm)
D: 43 in. (1092 mm)

Net Weight

139.5 lb. (63 kg)
Maxstar®
210/280 Series
DC TIG and Stick
See literature DC/32.1 (210) and DC/35.0 (280)

Dynasty®
210/280 Series
AC/DC TIG and Stick
See literature AD/4.81 (210) and AD/4.9 (280)

210 Series TIG Welding Capability

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 210 (907683)</td>
<td>TIG 3-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>14</td>
<td>12 7 6 5.2 4.9</td>
<td>80 VDC (11 VDC**)</td>
</tr>
<tr>
<td>Maxstar 210 DX (907684)</td>
<td>1-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>24</td>
<td>20 12 10 4.9 4.9</td>
<td>13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 19.5 in. (495 mm) 38 lb. (17.2 kg)</td>
</tr>
<tr>
<td>Maxstar 210 (907683)</td>
<td>1-phase (120 V)</td>
<td>1-150</td>
<td>125 A at 15 V</td>
<td>22</td>
<td>- - - - -</td>
<td>60 VDC (11 VDC**)</td>
</tr>
<tr>
<td>Maxstar 210 DX (907684)</td>
<td>1-phase (120 V)</td>
<td>1-150</td>
<td>125 A at 15 V</td>
<td>22</td>
<td>- - - - -</td>
<td>13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.5 in. (569 mm) 47 lb. (21.3 kg)</td>
</tr>
</tbody>
</table>

280 Series TIG Welding Capability

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 280 (907552)</td>
<td>TIG 3-phase</td>
<td>1-280</td>
<td>235 A at 19.4 V</td>
<td>17</td>
<td>15 9 7 6 6.2 6.0</td>
<td>60 VDC (11 VDC**)</td>
</tr>
<tr>
<td>Maxstar 280 DX (907553) with CPS</td>
<td>1-phase</td>
<td>1-280</td>
<td>235 A at 19.4 V</td>
<td>28</td>
<td>26 15 13 10 6.0 6.0</td>
<td>13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.5 in. (569 mm) 47 lb. (21.3 kg)</td>
</tr>
<tr>
<td>Maxstar 280 (907552)</td>
<td>3-phase</td>
<td>5-280</td>
<td>200 A at 28 V</td>
<td>20</td>
<td>18 10 9 7 7.2 7.0</td>
<td>47 lb. (21.3 kg)</td>
</tr>
<tr>
<td>Maxstar 280 DX (907553) with CPS</td>
<td>1-phase</td>
<td>5-280</td>
<td>180 A at 27.2 V</td>
<td>30</td>
<td>27 15 13 10 6.2 6.2</td>
<td>47 lb. (21.3 kg)</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.

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 46 in the Multiprocess section for the Dynasty 280 DX Multiprocess and see page 57 in the Stick section for the Maxstar 210 STR.

Allows for any input voltage hookup (210 models: 120–480 V, 280 models: 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.

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.
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/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>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 210 (907885) (907885002) with CPS</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>235 A at 19.4 V</td>
<td>H: 22.5 in. (569 mm)</td>
<td>47 lbs. (21.3 kg)</td>
</tr>
<tr>
<td>Dynasty 210 DX (907868) (907868002) with CPS</td>
<td>Stick</td>
<td>3-phase</td>
<td>5-100</td>
<td>90 A at 23.6 V</td>
<td>—</td>
<td>W: 8.6 in. (219 mm)</td>
<td>50 lbs. (22.7 kg)</td>
</tr>
<tr>
<td>Dynasty 280 (907550) (9075571) with CPS</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-280 (DC) 2-280 (AC)</td>
<td>235 A at 19.4 V</td>
<td>235 A at 19.4 V</td>
<td>D: 22.5 in. (569 mm)</td>
<td>55 lbs. (25 kg)</td>
</tr>
<tr>
<td>Dynasty 280 DX (907551) (9075161) with CPS</td>
<td>Stick</td>
<td>3-phase</td>
<td>5-280</td>
<td>200 A at 28 V</td>
<td>180 A at 27.2 V*</td>
<td>—</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.
**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)

---

**High-speed DC TIG pulse controls**

That maintain/save your parameters.

*See literature DC/24.5 and AD/5.5 for Complete package dimensions and weight.*

**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/your parameters.

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

---

**Dynasty welders add AC TIG capabilities and the following AC features**

- **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.
- **Frequency** controls the width of the arc cone and can improve directional control of the arc.
- **AC amplitude/amperage** allows EP and EN amperages to be set independently to precisely control heat input to the work and electrode.

---

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output</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>DC Maxstar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxstar 400 (907716) Power source only (951692) Complete w/wireless foot</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>3–400</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>30/30/17/15/12/12.0/11.6</td>
<td>75 VDC (10-15 VDC*)</td>
<td>Ht: 24.75 in. (629 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)</td>
<td>134 lb. (61 kg)</td>
</tr>
<tr>
<td>Maxstar 800 (907718) Power source only</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>5–800</td>
<td>600 A at 44 V, 60% duty cycle</td>
<td>90/80/45/39/31/32/31</td>
<td>75 VDC (10-15 VDC*)</td>
<td>Ht: 34.5 in. (876 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)</td>
<td>196 lb. (90 kg)</td>
</tr>
<tr>
<td>Dynasty 400 (907717) Power source only (951694) Complete w/foot (951695) Complete w/wireless foot</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>3–400</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>36/33/19/16/13/13.1/12.5</td>
<td>75 VDC (10-15 VDC*)</td>
<td>Ht: 24.75 in. (629 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)</td>
<td>134 lb. (61 kg)</td>
</tr>
<tr>
<td>Dynasty 800 (907719) Power source only (951696) Complete w/foot (951697) Complete w/wireless foot</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>5–800</td>
<td>600 A at 44 V, 60% duty cycle</td>
<td>96/86/48/42/33/35/33</td>
<td>75 VDC (10-15 VDC*)</td>
<td>Ht: 34.5 in. (876 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)</td>
<td>198 lb. (90 kg)</td>
</tr>
</tbody>
</table>

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**Most popular accessories**

- **Runner™ cart**
- **Coolmate™ 3.5**
- **Coolant (four 1-gallon bottles)**
- **Remote control (foot or wireless foot)**
- **Weldcraft® water-cooled torch kit**

---

*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® 250 DX and 350 LX
AC/DC TIG and Stick

The world’s first conventional squarewave TIG power source with decades of proven performance.

Squarewave output with AC balance control features adjustable cleaning action while increasing arc stability on various aluminum alloys, and helps eliminate tungsten spitting and arc rectification.

120-volt auxiliary power receptacle for cooling system or small tools.

Syncro Start™ allows the choice of soft, medium, or hot TIG starts based on the tungsten size and application.

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

Dual digital meters allow for quick and easy viewing of actual and preset values of amperage and voltage.

Adjustable postflow of 0 to 50 seconds protects the electrode and area near the termination of the weld.

Coolmate™ 3CS 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.

Last procedure recall automatically recalls the last procedure setup when switching polarity.

Line voltage compensation keeps power source constant regardless of fluctuations in input power (±10 percent).

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

<table>
<thead>
<tr>
<th>Model/Stock Number (Additional packages are available – visit MillerWelds.com or your distributor)</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated 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>Syncrowave 250 DX (907195) 230/460/575 V power source only (951118) 230/460/575 V Complete (907194) 200/230/460 V power source only (951117) 200/230/460 V Complete</td>
<td>3–310</td>
<td>200 A at 28 V, 60% duty cycle</td>
<td>– 77 38 31 17.6 8.6</td>
<td>80 VDC</td>
<td>H: 36.25 in. (921 mm) W: 22.5 in. (572 mm) D: 25 in. (635 mm)</td>
<td>378 lb. (172 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 A at 30 V, 40% duty cycle</td>
<td>110 96 48 38 22 11.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syncrowave 350 LX (907199) 230/460/575 V power source only (951623) 230/460/575 V Complete (907198) 200/230/460 V power source only (951622) 200/230/460 V Complete</td>
<td>3–400</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>– 110 55 42 25 10.6</td>
<td>80 VDC</td>
<td>H: 36.25 in. (921 mm) W: 22.5 in. (572 mm) D: 25 in. (635 mm)</td>
<td>496 lb. (225 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>350 A at 34 V, 40% duty cycle</td>
<td>146 128 65 50 29.5 13.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See literature AD/4.2 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 125-amp hand-held MicroTIG® torches to 900-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.

TIG Torch Configurator

Our new 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

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.
**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. If high amperage is your need, the W-500 torch is the answer. 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 Micro Series torches provide 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).

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**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)
  - 24C332 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
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.
### Weldcraft™ A-125 Series
Formerly known as WP-9 Series

<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-125</td>
<td>WP-9-12-R</td>
<td>WP-9-25-R</td>
<td>WP-9-12-2</td>
<td>WP-9-25-2</td>
<td>Air-cooled</td>
<td>DC: 125 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-9V-25-R</td>
<td>WP-9V-12-2</td>
<td>WP-9V-25-2</td>
<td></td>
<td>AC: 100 A at 60% duty cycle</td>
<td></td>
</tr>
<tr>
<td>A-125 Flex Valve</td>
<td>WP-9FV-12-R</td>
<td>WP-9FV-25-R</td>
<td>WP-9FV-12-2</td>
<td>WP-9FV-25-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-125 Pencil</td>
<td>WP-9P-12-R</td>
<td>WP-9P-25-R</td>
<td>—</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- A-125 Pencil
- A-125 Flex Valve

**Applications**
- Maintenance and repair
- Home/hobby • Motorsports
- Metal art • Fabrication
- Aerospace • Food/beverage industry
- Shipbuilding

**Most popular consumables**
- Collets
  - 13N22 1/16 in. (1.6 mm)
  - 13N23 3/32 in. (2.4 mm)
  - 13N24 1/8 in. (3.2 mm)
- Collet Bodies
  - 13N27 1/16 in. (1.6 mm)
  - 13N28 3/32 in. (2.4 mm)
  - 13N29 1/8 in. (3.2 mm)
- Alumina Nozzles
  - 13N10 #6, 3/8 in.
  - 13N11 #7, 7/16 in.
  - 13N12 #8, 1/2 in.

**Most popular accessories**
- Accessory Kit AK1C (pg 75)

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

---

### Weldcraft™ A-150 Series
Formerly known as WP-17 Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 12.5 ft. (3.8 m)</th>
<th>25 ft. (7.6 m)</th>
<th>Mono-Flex™ 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-150</td>
<td>WP-17-12-R</td>
<td>WP-17-25-R</td>
<td>WP-17-12-MF</td>
<td>WP-17-25-2</td>
<td>Air-cooled</td>
<td>DC: 150 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>WP-17V-12-MF</td>
<td>WP-17V-25-2</td>
<td></td>
<td>AC: 115 A at 60% duty cycle</td>
<td></td>
</tr>
<tr>
<td>A-150 Flex</td>
<td>WP-17F-12-R</td>
<td>WP-17F-25-R</td>
<td>WP-17F-12-MF</td>
<td>WP-17F-25-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-150 Flex Valve</td>
<td>WP-17FV-12-R</td>
<td>WP-17FV-25-R</td>
<td>WP-17FV-12-MF</td>
<td>WP-17FV-25-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-150 Pencil</td>
<td>WP-17P-12-R</td>
<td>WP-17P-25-R</td>
<td>—</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-150 Valve PSH*</td>
<td>WP-17P-12-PSH</td>
<td>WP-17P-25-PSH</td>
<td>—</td>
<td>—</td>
<td></td>
<td>WP-17P-25-2-PSH</td>
<td></td>
</tr>
<tr>
<td>A-150 Valve PSH*</td>
<td>WP-17P-12-PSH</td>
<td>WP-17P-25-PSH</td>
<td>—</td>
<td>—</td>
<td></td>
<td>WP-17P-25-2-PSH</td>
<td></td>
</tr>
</tbody>
</table>

- A-150 Pencil
- A-150 Flex Valve Redhead
- A-150 Valve PSH*

**Applications**
- Fabrication • Maintenance and repair
- Aerospace • Food/beverage industry
- Metal art • Petro/chemical
- Shipbuilding

**Most popular consumables**
- Collets
  - 10N23 1/16 in. (1.6 mm)
  - 10N24 3/32 in. (2.4 mm)
  - 10N25 1/8 in. (3.2 mm)
- Collet Bodies
  - 10N31 1/16 in. (1.6 mm)
  - 10N32 3/32 in. (2.4 mm)
  - 10N28 1/8 in. (3.2 mm)
- Alumina Nozzles
  - 10N48 #6, 3/8 in.
  - 10N47 #7, 7/16 in.
  - 10N46 #8, 1/2 in.

**Most popular accessories**
- Accessory Kit AK150MFC (pg 75)

Converts A-150 into 28 different torch styles while using existing cable. Includes collets, collet bodies, nozzles, torch heads, handle and more. Visit MillerWelds.com or your distributor for other Miller® options and accessories.
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</th>
<th>2-Piece Rubber</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-26-12-R</td>
<td>Air-cooled DC</td>
<td>200 A at 60% duty cycle</td>
<td>0.050-5/32 in.</td>
</tr>
<tr>
<td>A-200 Valve</td>
<td>WP-26V-12-R</td>
<td>WP-26V-12-R</td>
<td>Air-cooled AC</td>
<td>150 A at 60% duty cycle</td>
<td>0.050-5/32 in.</td>
</tr>
<tr>
<td>A-200 Flex</td>
<td>WP-26F-12-R</td>
<td>WP-26F-12-R</td>
<td>Air-cooled AC</td>
<td>150 A at 60% duty cycle</td>
<td>0.050-5/32 in.</td>
</tr>
<tr>
<td>A-200 Flex Valve</td>
<td>WP-26FV-12-R</td>
<td>WP-26FV-12-R</td>
<td>Air-cooled AC</td>
<td>150 A at 60% duty cycle</td>
<td>0.050-5/32 in.</td>
</tr>
<tr>
<td>A-200 Flex Redhead</td>
<td>WP-R26F-12-R</td>
<td>WP-R26F-12-R</td>
<td>Air-cooled AC</td>
<td>150 A at 60% duty cycle</td>
<td>0.050-5/32 in.</td>
</tr>
<tr>
<td>A-200 Flex Valve Redhead</td>
<td>–</td>
<td>WP-R26FV-25-R</td>
<td>Air-cooled AC</td>
<td>150 A at 60% duty cycle</td>
<td>0.050-5/32 in.</td>
</tr>
</tbody>
</table>

NEW! 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 DC</td>
<td>250 A at 60% duty cycle</td>
<td>0.020-5/32 in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AC: 188 A at 60% duty cycle</td>
<td>0.020-5/32 in.</td>
<td></td>
</tr>
</tbody>
</table>

Share Your Passion

Reviews & Ratings offer valuable insights to help guide your next purchase. They’re written and submitted by people who have purchased and used Miller equipment. If you’d like to share your experience and help your fellow welders select the right welding equipment consider writing a review. Simply visit the product page on the website for the product you want to write about and click on “Write a Review.”

Visit now at MillerWelds.com
### 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)
  - 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
- 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-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).

<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber</th>
<th>Vinyl</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-250</td>
<td>12.5 ft. (3.8 m)</td>
<td>12.5 ft. (3.8 m)</td>
<td>Water-cooled</td>
<td>DC: 250 A at 100% duty cycle</td>
<td>0.020–1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>W-250 Valve</td>
<td>25 ft. (7.6 m)</td>
<td>25 ft. (7.6 m)</td>
<td></td>
<td>AC: 180 A at 100% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

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</th>
<th>Braided Rubber with 50 mm Dinse</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-280 Super Cool</td>
<td>12.5 ft. (3.8 m)</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled</td>
<td>DC: 280 A at 100% duty cycle</td>
<td>0.020–1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>W-280 Super Cool</td>
<td>25 ft. (7.6 m)</td>
<td>25 ft. (7.6 m)</td>
<td></td>
<td>AC: 195 A at 100% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

Weldcraft™ W-375 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</th>
<th>Braided Rubber with 50 mm Dinse</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-375 Super Cool</td>
<td>12.5 ft. (3.8 m)</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled</td>
<td>DC: 375 A at 100% duty cycle</td>
<td>0.020–1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>W-375 Super Cool</td>
<td>25 ft. (7.6 m)</td>
<td>25 ft. (7.6 m)</td>
<td></td>
<td>AC: 265 A at 100% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

Applications

- Aerospace
- Aluminum fabrication
- Automotive
- Manufacturing
- Exotic material fabrication
- Precision metal fabrication
- Pressure vessel fabrication
- Shipbuilding
- Tool and die
- Tube and pipe
- Vocational

Most popular consumables

- Insulator (non-gas lens and gas lens) (required) 598882
- Collets (non-gas lens and gas lens) 13N20 .020 in. (0.5 mm) 13N21 .040 in. (1.0 mm) 13N22 1/16 in. (1.6 mm) 13N23 3/32 in. (2.4 mm) 13N24 1/8 in. (3.2 mm)
- Collet Bodies 13N25 .020 in. (0.5 mm) 13N26 .040 in. (1.0 mm) 13N27 1/16 in. (1.6 mm) 13N28 3/32 in. (2.4 mm) 13N29 1/8 in. (3.2 mm)
- Gas Lens 45V41 .020 in. (0.5 mm) 45V42 .040 in. (1.0 mm) 45V43 1/16 in. (1.6 mm) 45V44 3/32 in. (2.4 mm) 45V45 1/8 in. (3.2 mm)
- Alumina Nozzles 13N08 #4, 1/4 in. 13N09 #5, 5/16 in. 13N10 #6, 3/8 in. 13N11 #7, 7/16 in. 13N12 #8, 1/2 in. 13N13 #10, 5/8 in. 53N58 #4, 1/4 in. (gas lens) 53N59 #5, 5/16 in. (gas lens) 53N60 #6, 3/8 in. (gas lens) 53N61 #7, 7/16 in. (gas lens) 53N61S #8, 1/2 in. (gas lens)
- Back Caps 41V33 Short 41V35 Medium 41V24 Long

Most popular accessories

- Cable Covers
  - For W-250 Series WC-3-10 10 ft. (3 m) WC-3-22 22 ft. (6.7 m) For W-280 and W-375 WC0183 11.75 ft. (3.6 m) WC0182 24.25 ft. (7.4 m)
- Accessory Kit AK4C (pg 75)
  - 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 in.) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.
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</th>
<th>25 ft. (7.6 m)</th>
<th>Vinyl</th>
<th>25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-350</td>
<td>WP-18-12-R</td>
<td>25 ft. (7.6 m)</td>
<td>WP-18-12</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled</td>
<td>DC: 350 A at 100% duty cycle</td>
<td>.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>W-350 Valve</td>
<td>WP-18V-25-R</td>
<td></td>
<td>WP-18V-25</td>
<td></td>
<td></td>
<td>AC: 250 A at 100% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

Applications

- Fabrication • Manufacturing
- Maintenance and repair
- Shipbuilding • Tube and pipe

Most popular consumables

- Collets
  - 10N24 3/32 in. (2.4 mm)
  - 10N25 1/8 in. (3.2 mm)
  - 54N20 5/32 in. (4.0 mm)
- Collet Bodies
  - 10N32 3/32 in. (2.4 mm)
  - 10N28 1/8 in. (3.2 mm)
  - 406488 5/32 in. (4.0 mm)
- Alumina Nozzles
  - 10N48 #6, 3/8 in.
  - 10N47 #7, 7/16 in.
  - 10N46 #8, 1/2 in.
  - 10N45 #10, 5/8 in.
  - 10N44 #12, 3/4 in.

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>25 ft. (7.6 m)</th>
<th>Vinyl</th>
<th>25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-400 Super Cool</td>
<td>WP-18SC-12-R</td>
<td>25 ft. (7.6 m)</td>
<td>WP-18SC-12</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled</td>
<td>DC: 400 A at 100% duty cycle</td>
<td>.020–0.3/16 in. (0.5–4.8 mm)</td>
</tr>
<tr>
<td>W-400 Super Cool</td>
<td>WP-18SC-25-R</td>
<td></td>
<td>WP-18SC-25</td>
<td></td>
<td></td>
<td>AC: 280 A at 100% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

Applications

- Heavy duty Collets
  - 10N25HD 1/8 in. (3.2 mm)
  - 54N20HD 5/32 in. (4.0 mm)
  - 18C36 3/16 in. (4.8 mm)
- Heavy-Duty Nose Collet Body (all sizes) NCB-36
- Alumina Nozzles
  - 54N16 #6, 3/8 in.
  - 54N15 #7, 7/16 in.
  - 54N14 #8, 1/2 in.
- Back Caps
  - 57Y04 Short
  - 300M Medium

Weldcraft™ W-410

Formerly known as CS410

Water-cooled torch that increases amperage output without increasing torch size. Designed for demanding applications.

D-Handle™ design features a self-indexing flat top that allows for torch orientation by feel.

Work in cold weather with the Tri-Flex™ hose and cable assembly that remains flexible to ease handling and extends cable life.

Improve high-frequency shielding and minimize gas leakages with the double-lip back cap seal.

<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber</th>
<th>25 ft. (7.6 m)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-410</td>
<td>CS410-12</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled</td>
<td>DC: 410 A at 100% duty cycle, AC: 310 A at 100% duty cycle</td>
<td>.020–0.5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>W-410</td>
<td>CS410-25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Applications

- Aerospace • Tube and pipe
- Exotic material fabrication
- Pipe and tube fabrication

Most popular consumables

- Collets
  - 10N24 3/32 in. (2.4 mm)
  - 10N25 1/8 in. (3.2 mm)
  - 54N20 5/32 in. (4.0 mm)
- Collet Bodies
  - 10N32 3/32 in. (2.4 mm)
  - 10N28 1/8 in. (3.2 mm)
  - 406488 5/32 in. (4.0 mm)
- Alumina Nozzles
  - 10N46 #8, 1/2 in.
  - 10N45 #10, 5/8 in.
  - 10N44 #12, 3/4 in.
Weldcraft™ W-500  
Formerly known as WP-12

Dependable water-cooled torch designed for demanding, high-capacity applications.

Comfort and reduced downtime due to the sealed water chamber that minimizes torch overheating.

Heavy-duty components provide reliable welding performance, even after continuous and demanding use.

100-percent-copper construction ensures maximum thermal conductivity.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-500</td>
<td>WP-12-12</td>
<td>Water-cooled</td>
<td>DC: 500 A at 100% duty cycle, AC: 350 A at 100% duty cycle</td>
<td>1/16-1/4 in. (1.6–6.4 mm)</td>
</tr>
</tbody>
</table>

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 and A-200 Modular Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>2-Piece Rubber</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-150 Modular</td>
<td>WP-150-12-R</td>
<td>WP-150-25-R</td>
<td>Water-cooled</td>
<td>DC: 150 A at 60% duty cycle, AC: 105 A at 60% duty cycle</td>
<td>.020-1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-150 Modular Valve</td>
<td>WP-150V-12-R</td>
<td>WP-150V-25-R</td>
<td>Water-cooled</td>
<td>DC: 200 A at 60% duty cycle, AC: 150 A at 60% duty cycle</td>
<td>.020-1/8 in. (0.5–3.2 mm)</td>
</tr>
<tr>
<td>A-200 Modular Valve</td>
<td>WP-200V-12-R</td>
<td>WP-200V-25-R</td>
<td>Water-cooled</td>
<td>DC: 225 A at 60% duty cycle, AC: 160 A at 60% duty cycle</td>
<td>.020-1/8 in. (0.5–3.2 mm)</td>
</tr>
</tbody>
</table>

Weldcraft™ W-125 Micro Series  
Formerly known as WP-125 Series

Water-cooled MicroTig® torches 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>Vinyl</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-125 Medium Micro</td>
<td>WP-125M-12-R</td>
<td>WP-125M-25-R</td>
<td>Water-cooled</td>
<td>DC: 125 A at 100% duty cycle, AC: 80 A at 100% duty cycle</td>
<td>.040–3/32 in. (1.0–2.4 mm)</td>
</tr>
<tr>
<td>W-125 Long Micro</td>
<td>WP-125L-12-R</td>
<td>WP-125L-25-R</td>
<td>Water-cooled</td>
<td>DC: 125 A at 100% duty cycle, AC: 80 A at 100% duty cycle</td>
<td>.040–3/32 in. (1.0–2.4 mm)</td>
</tr>
</tbody>
</table>
**Weldcraft™ Automation Series**

See literature AY/37.0

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.

Pencil-style model offers outstanding durability on mechanized applications (W-500 Pencil Automation).

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-900 Automation).

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>2-Piece Rubber</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-150 Automation</td>
<td>12.5 ft. (3.8 m)</td>
<td>12.5 ft. (3.8 m)</td>
<td>Air-cooled DC</td>
<td>150 A at 60% duty cycle</td>
<td>.040–3/32 in. (1.0–2.4 mm)</td>
</tr>
<tr>
<td>W-250 Automation</td>
<td>3 ft. (0.9 m)</td>
<td>12.5 ft. (3.8 m)</td>
<td>Water-cooled DC</td>
<td>250 A at 100% duty cycle</td>
<td>.040–1/8 in. (1.0–3.2 mm)</td>
</tr>
<tr>
<td>W-500 Pencil Automation</td>
<td>6 ft. (1.8 m)</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled DC</td>
<td>500 A at 100% duty cycle</td>
<td>.020–5/32 in. (0.5–4.0 mm)</td>
</tr>
<tr>
<td>W-900 Automation</td>
<td>25 ft. (7.6 m)</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled DC</td>
<td>500 A at 100% duty cycle</td>
<td>.040–1/4 in. (1.0–6.4 mm)</td>
</tr>
<tr>
<td>W-900 Automation</td>
<td>25 ft. (7.6 m)</td>
<td>25 ft. (7.6 m)</td>
<td>Water-cooled DC</td>
<td>500 A at 100% duty cycle</td>
<td>.040–1/4 in. (1.0–6.4 mm)</td>
</tr>
</tbody>
</table>

**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>
<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>
<td>Pure (EWP)</td>
<td>WP116X7</td>
<td>0.040 (1.0)</td>
</tr>
<tr>
<td></td>
<td>WC116X7</td>
<td>1/16 (1.6)</td>
<td></td>
<td>WP332X7</td>
<td>3/32 (2.4)</td>
</tr>
<tr>
<td></td>
<td>WC332X7</td>
<td>3/32 (2.4)</td>
<td></td>
<td>WP018X7</td>
<td>1/8 (3.2)</td>
</tr>
<tr>
<td></td>
<td>WC018X7</td>
<td>1/8 (3.2)</td>
<td></td>
<td></td>
<td>5/32 (4.0)</td>
</tr>
<tr>
<td></td>
<td>WC532X7</td>
<td>5/32 (4.0)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2% Lanthanated (EWA-2)</td>
<td>WL2040X7</td>
<td>0.040 (1.0)</td>
<td>Rare Earth (EWR)</td>
<td>WL2116X7</td>
<td>0.040 (1.0)</td>
</tr>
<tr>
<td></td>
<td>WL2116X7</td>
<td>1/16 (1.6)</td>
<td></td>
<td>WL2018X7</td>
<td>1/8 (3.2)</td>
</tr>
<tr>
<td></td>
<td>WL2332X7</td>
<td>3/32 (2.4)</td>
<td></td>
<td>WL2532X7</td>
<td>5/32 (4.0)</td>
</tr>
<tr>
<td></td>
<td>WL2018X7</td>
<td>1/8 (3.2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WL2532X7</td>
<td>5/32 (4.0)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Refer to manufacturer SDS sheets for proper preparation and safety. Use proper ventilation/capture during preparation. Refer to manufacturer warning regarding ventilation.

**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 133) 195377 50 mm Dinse-style
- Water-Cooled Torch 1-Piece Power Cable Connectors (pg 133) 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

**AK Kits (Accessory Kits)**
AK consumables 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 (#5, #6, #7, #8) 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 and W-375. 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.

**AK Kits (Accessory Kits)**
AK consumables 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.

**AK1C**
For A-125 Series. Includes one long back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (0.040, 1/16 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

**AK2C**
For A-150 Series. Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (0.040, 1/16, 3/32 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

**AK3C**
For A-200 Series, A-250 Series and W-350 Series. Includes one short back cap, one of each size (#5, #6, #8) 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.

**AK4C**
For W-250 Series, W-280 Super Cool, W-375 Super Cool and W-410. 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.

**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 (0.020-1/8 inch, 1/8-3/16 inch) collet body, and one of each size (3/32, 1/8, 5/32) 7-inch 2% ceriated tungsten electrode.

**AK125C**
For W-125 Micro Series. Includes one of each size (180°, 45°, 90°, 90° short) glass nozzle, and one of each size (0.040, 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-150 (WP-17) or A-125 (WP-9) TIG torch for their specific application. Kit converts into 28 different torch styles while using the A-150 and A-125 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, handle and more.

**MAK-25**
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 (0.040, 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.
Transform data into actionable information that drives continuous improvement.

NEW! **Insight Centerpoint**
version 10 now available.
See page 78 for more information.

Choose the Right Welding Intelligence System

<table>
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<tr>
<th>Insight Core™</th>
<th>Insight Centerpoint™</th>
<th>Insight ArcAgent™</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For Use With</strong></td>
<td><strong>Factory-Installed</strong></td>
<td><strong>Continuum™/Auto-Continuum™</strong></td>
</tr>
<tr>
<td><strong>Field-Installed/Activated</strong></td>
<td><strong>14-pin compliant power source</strong> (see MillerWelds.com/insight)</td>
<td></td>
</tr>
<tr>
<td><strong>Requirements</strong></td>
<td><strong>Internet connection (wired/wireless)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>What Capability Do You Need?</strong></td>
<td><strong>Productivity monitoring</strong></td>
<td><strong>Prevent/detect missed welds</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Weld parameter verification</strong></td>
<td><strong>Minimize overwelding/underwelding</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Simplicity/basic monitoring</strong></td>
<td><strong>Electronic work instructions</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Goal setting</strong></td>
<td><strong>Measure overall equipment effectiveness (OEE)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Analytic tools</strong></td>
<td><strong>Universal solution for use with Insight Core or Insight Centerpoint</strong></td>
</tr>
<tr>
<td><strong>Data Storage</strong></td>
<td><strong>Cloud based</strong></td>
<td><strong>See Insight Core/Insight Centerpoint requirements</strong></td>
</tr>
</tbody>
</table>
Insight Core™

Simplified, internet-based welding information solution to report operator productivity and deposition, as well as provide weld parameter verification.

Visit our online Insight Core simulator at Insight-simulator.MillerWelds.com

Insight Core dashboard descriptions

1 Asset tree. A list of power sources within your fleet — organized by building, department or machine — showing real-time activity status icons and active operators.
2 Productivity dashboard. Instant visibility of arc-on time and wire deposition — by location, work cell, power source or operator.
3 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.
4 Goals dashboard. Shows progress toward continuous improvement goals you set for improving arc-on time, deposition rates and arc starts.
5 Reports. In-depth information is available in reports that can be easily modified and displayed in a wide variety of customizable formats.
6 Analytics tools. Business analytic tools allowing for weld data analysis based on individual/cell performance as well as overall financial terms.
7 Notifications. Email/text notifications based on your desired frequency and subject.
8 Multiple languages available. English, German, Spanish, French, Italian, Dutch, Portuguese and Chinese.

How it works

Wi-Fi and wired Ethernet connectivity are built into Insight Core for flexible integration with your company’s information network.

Factory installed on Continuum™ (pg 19) and Auto-Continuum™ (pg 20) power sources.

Compatible with Miller® 14-pin compliant power sources. See MillerWelds.com/insight or scan QR code at right for a list of 14-pin compatible power sources.

NEW! ArcAgent for Insight Core universal solution available. See page 79 for more information.

Standard data storage: 90 days plus current month stored in cloud.

<table>
<thead>
<tr>
<th>Type</th>
<th>Continuum Power Sources</th>
<th>Miller 14-Pin Compliant Power Sources</th>
<th>Universal Adaptability (works with ALL brands/models of power sources)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory-Installed Insight Core</td>
<td>Continuum 350 (907636)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Continuum 500 (907640)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Auto-Continuum 350 (907655)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Field-Installed Insight Core</td>
<td>--</td>
<td>Requires Insight Core 14-pin module (301072)</td>
<td>Requires ArcAgent for Insight Core (951773) with Stud output (951772) with Dinse output</td>
</tr>
</tbody>
</table>

1 Additional stock numbers are available — visit MillerWelds.com/insight.
2 SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit (301295).
3 The applications require TIG Filter (301359) to monitor voltage.
**NEW!**

**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.

**Codes and standards** captures required information relating actual welding parameters to the specific operator, contract, joint and weld pass to ensure productivity and quality requirements are met.

**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.

---

**How it works**

- **PC**
  - **Insight Centerpoint**: Server running SQL database
  - **Insight Reporter**: Single license (1 required per PC)
- **Flex automation**
  - **Insight Centerpoint**: Single license (1 required per PC)
- **Fixed automation**
  - **Insight Centerpoint**: Single license (1 required per PC)

---

**Site License**

1. **Tier 1**: 10–25 devices
   - Software License: (301485) Software (301486) Maintenance

2. **Tier 2**: 26–50 devices
   - Software License: (301485) Software (301486) Maintenance

3. **Tier 3**: 51–100 devices
   - Software License: (301485) Software (301486) Maintenance

---

**Insight Centerpoint Software**

- **Single License**
- **Site License**

**Universal Adaptability (works with ALL brands/models of power sources)**

**Insight Centerpoint Software**

**Optional Insight Reporter**

**Accessories**

- **Insight LTD Gun** (Q4015JS3EML) For Continuum
- **Insight LTD Remote** (301383)
- **M12/RJ45 Ethernet Cables** (300734) 9.8 ft. (3 m)
- **Field Application Support** (195480) Miller field support (contact distributor for details)
Premium data acquisition tools that enable both Insight Core™ and Insight Centerpoint™ solutions to integrate with any brand of welding power source.

**Models**

**ArcTimer:** Monitors very basic weld data (displayed on LCD): total arc time, last weld time, current weld time and total arc count. Battery operated (4 C-sized).

**ArcAgent for Insight Core.** Internet-based system to report operator productivity and deposition, as well as provide weld parameter verification. Monitors voltage, current, two wire feed speeds and gas flow.

**ArcAgent Manual.** Designed for manual welding. Provides process control and monitoring that detects and prevents missed welds.

**ArcAgent Auto.** Designed for automated welding. Real-time monitoring of weld count, length (duration), process set-point parameters (voltage, current, wire feed speed, gas flow), total arc time, total wire used and total clamp time.

**Typical ArcAgent for Insight Core welding installation**

**Typical ArcAgent Manual or ArcAgent Auto welding installation for Insight Centerpoint**

*Note: See Insight Core on page 77 and Insight Centerpoint on page 78 for more information on licenses and options.

**Voltage monitoring**
- TIG Filter Sensor 301359
- Voltage sensing cable used in TIG applications. Requires 25 ft. (7.6 m) TIG filter cable (301384).
- Voltage Sense Cables 301365 With lugs 301516 With Dinse-style connectors

**Current monitoring**
- Standard Current Sensors 301353 150 A 301351 650 A
- For up to 4/0 lugged cables.
- Large Diameter Current Sensors 301357 600 A solid core 301356 1,000 A solid core For Dinse- or Tweco®-style cables.
- Current Sensor Cables 301364 25 ft. (7.6 m) standard 301367 25 ft. (7.6 m) large diameter

**Wire feed speed monitoring**
- Wire Speed Sensor 301350
- Wire Speed Sensor Cable 301368 25 ft. (7.6 m)

**Gas flow monitoring**
- Gas Flow Sensor 301358
- Gas Flow Sensor Cable 301369 25 ft. (7.6 m)

*For a complete accessory list see literature WI/1.0.
### Engine-Driven

**Product Guide**

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<th>Page</th>
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<th>Welds</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>Fusion 160</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless</td>
<td>6,200</td>
<td>30-160 DC</td>
<td>Kohler</td>
<td>Portable, PowerShift technology, inverter stick</td>
<td>Maintenance, construction, repair, service trucks</td>
</tr>
<tr>
<td>Blue Star® 185</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless</td>
<td>6,200</td>
<td>60-195 DC</td>
<td>Kohler</td>
<td>Compact</td>
<td></td>
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<tr>
<td>Bobcat® 200 Air Pak™</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless</td>
<td>5,500</td>
<td>50-210 DC</td>
<td>Kohler</td>
<td>Air compressor, battery charge/crank assist, generator and stick</td>
<td>Service trucks, repair, maintenance, farm/ranch</td>
</tr>
<tr>
<td>Bobcat® 225</td>
<td>84</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless, aluminum</td>
<td>9,500</td>
<td>60-160 AC 40-225 DC</td>
<td>Kohler</td>
<td>Cost-effective AC/DC stick</td>
<td>Maintenance, farm/ranch, construction</td>
</tr>
<tr>
<td>Bobcat® 3 Phase</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless, aluminum</td>
<td>10,000</td>
<td>40-225 AC 40-210 DC</td>
<td>Kohler</td>
<td>Backup power for pivot irrigation</td>
<td>Farm/ranch</td>
</tr>
<tr>
<td>Trailblazer® 302 Air Pak™</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless, aluminum</td>
<td>11,000</td>
<td>10-225 AC 10-350 DC</td>
<td>Kohler</td>
<td>AC/DC, CC/CV, 31 cfm air compressor, battery charge/crank assist</td>
<td>Service/maintenance, construction</td>
</tr>
<tr>
<td>Bobcat® 250</td>
<td>84</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless, aluminum</td>
<td>9,500</td>
<td>40-250 DC</td>
<td>Kohler</td>
<td>Auto-Speed™, optional EFI, Excel™ power, ArcReach®, battery charge/crank assist</td>
<td>Fab, maintenance, farm/ranch, construction</td>
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<td>Trailblazer® 325</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Steel, stainless</td>
<td>10,500 (Gas) 10,000 (LP)</td>
<td>10-325 DC (Gas) 10-305 DC (LP)</td>
<td>Kohler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobcat® 250 Diesel</td>
<td>84</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless</td>
<td>9,500</td>
<td>40-250 DC</td>
<td>Kubota</td>
<td>Contractor’s choice, AC/DC stick, strong FCW</td>
</tr>
<tr>
<td>Trailblazer® 325 Diesel</td>
<td>86</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless</td>
<td>10,500</td>
<td>10-325 DC</td>
<td>Kubota</td>
<td>Auto-Speed™, optional Excel™ power and ArcReach™</td>
</tr>
<tr>
<td>Big Blue® 400 Pro</td>
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<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless</td>
<td>10,000</td>
<td>20-400 DC</td>
<td>CAT, Kubota, Mitsubishi</td>
<td>Quiet, compact, fuel efficient, optional ArcReach™</td>
</tr>
<tr>
<td>Big Blue® 400 PipePro®</td>
<td>89</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless</td>
<td>10,000</td>
<td>20-400 DC</td>
<td>CAT, Kubota, Mitsubishi</td>
<td>Line-X top cover, ArcReach®, lift-off service door, optional stainless steel</td>
</tr>
<tr>
<td>Big Blue® 450 Dual CST™</td>
<td>89</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, optional running gear or trailer</td>
<td>Steel, stainless</td>
<td>10,000</td>
<td>5-450 DC</td>
<td>Mitsubishi</td>
<td>Dual operator in a compact package</td>
</tr>
<tr>
<td>Big Blue® 500 Pro</td>
<td>90</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, generally mounted on optional trailer</td>
<td>Steel, stainless</td>
<td>20,000</td>
<td>20-500 DC</td>
<td>Kubota</td>
<td>Quiet, powerful, fuel efficient, optional ArcReach™</td>
</tr>
<tr>
<td>Big Blue® 600 Series</td>
<td>90</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, generally mounted on optional trailer</td>
<td>Steel, stainless</td>
<td>20,000</td>
<td>20-600 DC</td>
<td>Kubota (Pro), Deutz (Air Pak)</td>
<td>Quiet, powerful, fuel efficient, optional ArcReach™ — Air Pak™ model comes standard with ArcReach™ and air compressor</td>
</tr>
<tr>
<td>Big Blue® 800 Series</td>
<td>91</td>
<td>●●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Lift eye, generally mounted on optional trailer</td>
<td>Steel, stainless</td>
<td>20,000</td>
<td>20-800 DC</td>
<td>Deutz</td>
<td>Heavy duty, dual operator, ArcReach™ — Air Pak™ model adds air compressor</td>
</tr>
</tbody>
</table>

### Gasoline advantages (vs. diesel)
- Lower product cost (by 50 to 70 percent)
- Smaller size and less weight
- Less expensive repairs
- Easier cold weather starting

### Diesel advantages (vs. gas)
- 1.5 to 2.5 times the engine life
- Required on some job sites for safety
- Typically have longer maintenance intervals
- Convenient if other equipment is diesel

### EFI advantages (vs. carburetor models)
- Up to 42 percent more fuel efficient
- Faster, more reliable starts in any weather — no choke adjustment needed
- Less refueling time and fewer emissions

### Gasolene advantages (vs. diesel)
- Improved! products appear in blue type.
- *If using self-shielded wire, use CV weld output.
- **With appropriate Spectrum plasma cutter.
Fusion 160  
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.

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>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>Single-Phase Generator Power at 104°F (40°C)</th>
</tr>
</thead>
<tbody>
<tr>
<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</td>
<td>Peak: 6,500 watts, Continuous: 6,200 watts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>110 A at 24.4 V, 100% duty cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PowerShift 120 V</td>
<td></td>
<td>30–100</td>
<td>90 A at 23.6 V, 40% duty cycle</td>
<td>22.7</td>
<td>—</td>
</tr>
<tr>
<td>PowerShift 240 V</td>
<td></td>
<td>30–160</td>
<td>160 A at 24.4 V, 20% duty cycle</td>
<td>25.0</td>
<td>—</td>
</tr>
</tbody>
</table>

Blue Star® 185  
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, Millematic® MIG welders and motor starting.

Includes electric start, 120-volt GFCl and 240-volt receptacles, 6.25-gallon fuel capacity, auto-idle and engine hour meter.

<table>
<thead>
<tr>
<th>Stock Number (907664)</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>
</tr>
</thead>
<tbody>
<tr>
<td>Kohler</td>
<td>CC/DC</td>
<td>DC stick/TIG</td>
<td>60–195</td>
<td>185 A at 25 V, 20% duty cycle</td>
<td>Peak: 6,500 watts, Continuous: 6,200 watts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 A at 25 V, 100% duty cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Processes

- Stick (SMAW) • TIG (GTAW)

Gasoline engine

Kohler CH440: 13.4 hp at 3,600 rpm

One-cylinder, four-cycle, OHV, air-cooled

Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Lifting Eye 195353 (pg 128)
- Running Gear 301246 (pg 128)
- Protective Cover 301245 (pg 128)

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

<table>
<thead>
<tr>
<th>Process</th>
<th>Gasoline engine</th>
<th>Most popular accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick (SMAW)</td>
<td>Kohler CH440: 13.4 hp at 3,600 rpm</td>
<td>Lifting Eye 195353 (pg 128)</td>
</tr>
<tr>
<td>TIG (GTAW)</td>
<td>One-cylinder, four-cycle, OHV, air-cooled</td>
<td>Running Gear 301246 (pg 128)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Stock Number (907664)</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>
</tr>
</thead>
<tbody>
<tr>
<td>Kohler</td>
<td>CC/DC</td>
<td>DC stick/TIG</td>
<td>60–195</td>
<td>185 A at 25 V, 20% duty cycle</td>
<td>Peak: 6,500 watts, Continuous: 6,200 watts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 A at 25 V, 100% duty cycle</td>
<td></td>
<td></td>
<td></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 84)</th>
<th>Bobcat 250 (page 84)</th>
<th>Trailblazer 325 (page 86)</th>
</tr>
</thead>
<tbody>
<tr>
<td>At Maximum Load / At 150 Amps</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Quality</td>
<td>Good</td>
<td>Very good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Fuel System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Typical Runtime per 12-Gallon Tank*</td>
<td>13 hours</td>
<td>13/15.5 hours with EFI</td>
<td>Up to 21 hours with options</td>
</tr>
<tr>
<td>Efficiency</td>
<td>Good</td>
<td>Good / Very good with EFI</td>
<td>Excellent</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline</td>
<td>Gasoline or LP</td>
<td></td>
</tr>
<tr>
<td>Delivery</td>
<td>Carburetor</td>
<td>Carburetor or EFI available</td>
<td>Carburetor or EFI available</td>
</tr>
<tr>
<td>Generator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peak Watts</td>
<td>11,000 watts</td>
<td>11,000 / 12,000 watts with EFI</td>
<td>12,000 watts</td>
</tr>
<tr>
<td>Clean Power Quality</td>
<td>Very good / Excellent</td>
<td>Very good / Excellent</td>
<td></td>
</tr>
<tr>
<td>Power While Welding</td>
<td>Fair / Good — With voltage control</td>
<td>Good — Easier to fine-tune with arc voltage control near maximum</td>
<td>Independent weld and generator power with no interaction between tools and welding arc</td>
</tr>
<tr>
<td>Excel™ Power Generator (120 V, 60 Hz at all engine speeds)</td>
<td>—</td>
<td>—</td>
<td>Excel power available (EFI models)</td>
</tr>
<tr>
<td>Weld Performance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stick</td>
<td>Good / Very good</td>
<td>Very good</td>
<td>Excellent</td>
</tr>
<tr>
<td>MIG — Wire (solid / FCAW), Steel</td>
<td>Good (.035 in.)</td>
<td>Very good / Excellent (add WC-115A with contactor)</td>
<td>Excellent (add WC-24)</td>
</tr>
<tr>
<td>MIG — Wire, Aluminum w/ Spool Gun</td>
<td>Good (add WC-115A with contactor)</td>
<td>Good — Easier to fine-tune with arc voltage control near maximum</td>
<td>Add Dynasty* (page 62)</td>
</tr>
<tr>
<td>DC TIG (steel)</td>
<td>Good</td>
<td>Very good</td>
<td></td>
</tr>
<tr>
<td>AC Weld</td>
<td>60–160 amps</td>
<td>40–250 amps</td>
<td></td>
</tr>
<tr>
<td>Key Features</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Meters</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Maintenance Displays</td>
<td>Hours / Oil change</td>
<td>Hours / Oil change / Fuel</td>
<td>Hours / Oil change / Fuel / rpm</td>
</tr>
<tr>
<td>Battery Charge / Crank Assist</td>
<td>—</td>
<td>—</td>
<td>12/24-volt available</td>
</tr>
<tr>
<td>14-pin Receptacle</td>
<td>—</td>
<td>—</td>
<td>ArcReach technology available</td>
</tr>
</tbody>
</table>

**Bobcat™/Trailblazer®/Big Blue®**

Air Pak™ Comparison — Which is Right for You?

Cost-effective welder/generator/ air compressor/ battery charger

AC/DC multiprocess welder/generator/ air compressor/ battery charger

Quiet and powerful multiprocess welder/generator/ air compressor

Heavy-duty, dual-operator welder/generator/ air compressor

<table>
<thead>
<tr>
<th>Compressed Air</th>
<th>Bobcat 200 Air Pak (page 83)</th>
<th>Trailblazer 302 Air Pak (page 88)</th>
<th>Big Blue 600 Air Pak (page 90)</th>
<th>Big Blue 800 Duo Air Pak (page 91)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Charge/Crank Assist</td>
<td>12/24-volt</td>
<td>12/24-volt</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Generator Power</td>
<td>Single-phase</td>
<td>Peak: 5,500 watts</td>
<td>Peak: 15,000 watts</td>
<td>Peak: 15,000 watts</td>
</tr>
<tr>
<td></td>
<td>Continuous: 5,500 watts</td>
<td>Continuous: 13,000 watts</td>
<td>Continuous: 12,000 watts</td>
<td>Continuous: 12,000 watts</td>
</tr>
<tr>
<td></td>
<td>Three-phase</td>
<td>—</td>
<td>Peak: 27,000 watts</td>
<td>Peak: 27,000 watts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Continuous: 20,000 watts</td>
<td>Continuous: 20,000 watts</td>
<td></td>
</tr>
<tr>
<td>Weld Output Range</td>
<td>50–210 amps (CC/DC)</td>
<td>10–300 amps (CC/DC, CC/DC, CC/AC)</td>
<td>20–600 amps (CC/DC, CC/CC)</td>
<td>Single weld mode: 40–800 amps (CC/DC, CC/DC)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dual weld mode: 20–400 amps (CC/DC, CC/CC)</td>
</tr>
<tr>
<td>Fuel Type</td>
<td>Gas</td>
<td>Gas</td>
<td>Diesel</td>
<td>Diesel</td>
</tr>
<tr>
<td>Size</td>
<td>23.76 x 20 x 46.64 in.</td>
<td>28 x 20 x 59.625 in.</td>
<td>46 x 28.5 x 69.5 in.</td>
<td>46 x 28.5 x 69.5 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>558 lb.</td>
<td>771 lb.</td>
<td>2,040 lb.</td>
<td>2,095 lb.</td>
</tr>
</tbody>
</table>

ArcReach technology standard

ArcReach technology standard
Maximize available payload. Reduce weight by up to 550 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. Save up to $50,000 over ten years from increased fuel efficiency, decreased maintenance costs and increased asset life.

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 28 cfm at 175 psi, 100 percent duty cycle, continuous air output.

210-amp stick welder. Maximize downtime and delays by making metal repairs in the field to stay on schedule.

5,500-watt generator power. Two 120-volt duplex receptacles and one 240-volt receptacle provide 60 Hz current to support jobsite tools, lights, and high-demand applications like plasma cutters and TIG welders.

Battery charge/crank assist. Provides up to 100 amps to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 300 amps of crank assist.
Bobcat™ Series
Gas, LP and Diesel

Bobcat 250 EFI shown.

The legendary Bobcat welder/generator is reliable, powerful and durable. One of the smallest and lightest in its class.

Cleaner and stronger generator power
11,000 watts (12,000 on Bobcat 250 with EFI) of clean, 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.

Fewer refueling trips
Large 12-gallon fuel capacity means extended runtimes and less refueling.

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.

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 safer, 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. 17 percent less cubic space and weighing up to 100 pounds less than the competition — 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)]

**MOST POPULAR!**

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.

### Table of Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>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><strong>Bobcat 225</strong></td>
<td></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: 11,000 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>485 lb. (220 kg)</td>
</tr>
<tr>
<td></td>
<td>(907498001) Kohler with GFCI</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40-225 A</td>
<td>225 A at 25 V, 100% duty cycle</td>
<td>Continuous: 9,500 watts</td>
<td>W: 20 in. (508 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907498) Kohler with GFCI</td>
<td>CV/DC</td>
<td>MIG/FCW</td>
<td>19-28 V</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td>Single-phase/three-phase: 11,000 watts</td>
<td>D: 40.5 in. (1,029 mm)</td>
<td>495 lb. (225 kg)</td>
</tr>
<tr>
<td><strong>Bobcat 3 Phase</strong></td>
<td>(907505) 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: 11,000 watts</td>
<td>Continuous: 9,500 watts</td>
<td>W: 20 in. (508 mm)</td>
</tr>
<tr>
<td></td>
<td>(907500) Kohler with GFCI</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40-210 A</td>
<td>210 A at 25 V, 100% duty cycle</td>
<td>Continuous: 9,000 watts</td>
<td>D: 20 in. (508 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907500002) Kohler with electric fuel pump*</td>
<td>CV/DC</td>
<td>MIG/FCW</td>
<td>19-28 V</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td>Single-phase/three-phase: 11,000 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>501 lb. (227 kg)</td>
</tr>
<tr>
<td></td>
<td>(907504) EFC Kohler</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 50% duty cycle</td>
<td>Single-phase: 11,000 watts</td>
<td>to top of exhaust: W: 20 in. (508 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907504) LP Kohler with GFCI</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 100% duty cycle</td>
<td>Continuous: 9,000 watts</td>
<td>D: 40.5 in. (1,029 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Order hose and LP tank mounting assembly (300927) separately</td>
<td>CV/DC</td>
<td>MIG/FCW</td>
<td>17-28 V</td>
<td>275 A at 25 V, 60% duty cycle</td>
<td>Continuous: 8,500 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>638 lb. (290 kg)</td>
</tr>
<tr>
<td><strong>Bobcat 250 Diesel</strong></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, 100% duty cycle</td>
<td>Single-phase: 11,000 watts</td>
<td>to top of exhaust: W: 20 in. (508 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907500001) Kohler with electric fuel pump*</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 100% duty cycle</td>
<td>Continuous: 9,000 watts</td>
<td>D: 40.5 in. (1,029 mm)</td>
<td></td>
</tr>
</tbody>
</table>

*Electric fuel pump recommended for operation at altitudes above 5,000 feet.

**Processes**

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

**Engines**

Gas: Kohler CH730
- 23.5 hp at 3,600 rpm

EFI gas: Kohler ECH730
- 23 hp at 3,600 rpm

LP: Kohler CH730
- Liquid withdrawal LP system
- 21.5 hp at 3,600 rpm

V-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

**Note:** Engines are warranted separately by engine manufacturer.

**Most popular accessories**

- ArcReach® SuitCase® Feeders (pp 22)
- Dynasty® 210 Series (pp 62)
- Spectrum® 625 X-TREME® (pp 100)
- Multi-Terrain Running Gear (pp 128)
- Off-Road Running Gear (pp 128)

**Welding**

- Air carbon arc cutting and gouging
- MIG (GMAW)
- AC/DC stick (SMAW)
- Flux-cored (FCAW)
- AC/DC TIG (GTAW)

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>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><strong>Bobcat 250</strong></td>
<td></td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 100% duty cycle</td>
<td>Single-phase: 11,000 watts</td>
<td>H: 28 in. (711 mm)</td>
<td>638 lb. (290 kg)</td>
</tr>
<tr>
<td></td>
<td>(907500001) Kohler with electric fuel pump*</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 100% duty cycle</td>
<td>Continuous: 9,000 watts</td>
<td>to top of exhaust: W: 20 in. (508 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907504) LP Kohler with GFCI</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40-250 A</td>
<td>250 A at 25 V, 100% duty cycle</td>
<td>Single-phase: 11,000 watts</td>
<td>D: 40.5 in. (1,029 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Order hose and LP tank mounting assembly (300927) separately</td>
<td>CV/DC</td>
<td>MIG/FCW</td>
<td>17-28 V</td>
<td>275 A at 25 V, 60% duty cycle</td>
<td>Continuous: 8,500 watts</td>
<td>H: 28 in. (711 mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Bobcat 250 Diesel</strong></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, 100% duty cycle</td>
<td>Single-phase: 11,000 watts</td>
<td>to top of exhaust: W: 20 in. (508 mm)</td>
<td></td>
</tr>
</tbody>
</table>

*Visit MillerWelds.com or your distributor for more options and accessories.*
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.

Cleaner and stronger generator power

Combines a 25 hp engine and 12,000 watts of clean, 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.

Maximum cost savings

Less money spent on fuel means more profit for you. Every Trailblazer welder/generator has fuel-saving Auto-Speed technology — add optional Excel™ power and EFI to save even more on fuel costs and enjoy a combination of advanced, profit-enhancing features that are only available on a Trailblazer welder/generator.

More portable, uses less truck space

Smaller and lighter — 17 percent less cubic space and 10 percent less machine weight than the competition — means moving Trailblazer welder/generators is faster and easier, for maximum productivity.

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.

Auto-Speed™ technology

Get the welding power you need — plus reduced fuel consumption and lower noise levels for a more-profitable, safer jobsite. Unlike competitive machines that operate at 3,600 rpm (max) under any load, 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.

Fewer refueling trips

Spend more time working and less time refueling. Only Trailblazer welder/generators provide Auto-Speed technology, plus Excel power and electronic fuel injection (EFI) options, to deliver maximum runtime.

Safer, more productive jobsites

Quieter jobsites are safer and more productive because work crews can communicate easier, and work can start earlier and end later — even in noise-sensitive areas.
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, and you'll have the most fuel-efficient compact welder/generator available.

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.

ArcReach® remote control technology

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

Battery charge/crank assist (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 350 amps of crank assist.

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**

See literature ED/4.78

**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. Conventional front panel access.

Note: Battery charge/jump cables (300422) must be ordered separately.

---

**Big Blue® 400 Pro**

See literature ED/5.7

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 87 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 diagnostic 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.

---

**Gasoline**

See page 133. Wireless antenna kit (300749) recommended.

**Diesel**

See literature ED/1.7

**Heavy industrial**

**Processes**
- AC/DC stick (SMAW)
- MIG (GMAW)¹ + Flux-cored (FCAW)¹
- AC/DC² TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons, capable 1/4 in. carbons)

¹With wire feeder.
²With Dynasty® 210 Series.
ⅢTwo-pieced TIG torch recommended.

**Gasoline engine**
- **Kohler** (907549001)
- **Kubota** (907732001)
- **CAT** (907774001)

**Most popular accessories**
- **SuitCase® Feeders** (pg 22)
- **SPOOLOMATIC® 30A/24 Control** (pg 133)
- **20 ft. Battery Charge/Jump Cables with Plug** (300422)

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

---

**Stock Number**
- **Kohler** (907549001)
- **Kohler** (907549003) with GFCI, cooler/separator and electric fuel pump*

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**Electrical**

- **302 Air Pak** (907748003) with GFCI, cooler/separator and electric fuel pump*

---

**Dimensions**
- **H:** 28 in. (711 mm)
- **W:** 34.5 in. (876 mm)
- **D:** 59.625 in. (1,514 mm)

---

**Engine-Driven**

**Processes**
- Stick (SMAW) + MIG (GMAW)²
- Flux-cored (FCAW) xx DC/DC (GTAW)
- RMD³/ Pulsed MIG (GMAW-P)³
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons)

²With wire feeder.
³ArcReach models only with ArcReach Smart Feeder.

**Diesel engines**
- **Caterpillar C1.5T** (24.7 hp at 1,800 rpm)
- **Kubota V1505** (20.2 hp at 1,800 rpm)
- **Mitsubishi S4L2** (24.7 hp at 1,800 rpm)

Note: Engines are warranted separately by engine manufacturer.

**Most popular accessories**
- **SuitCase® Feeders** (pg 22/53)
- **ArcReach® Stick/Tig Remote** (pg 53)
- **Protective Cover** 195301 (pg 128)

³For ArcReach models only.

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 87 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 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.

---

**Diesel engines**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Process</th>
<th>Output Mode</th>
<th>Amperage Range</th>
<th>Rated Output at 122°F (50°C)</th>
<th>Single-Phase Generator Power at 122°F (50°C)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(90778)</td>
<td>(90778001)</td>
<td>CAT w/ArcReach</td>
<td>20–400 A</td>
<td>300 A at 32 V, 100% duty cycle</td>
<td>Continuous: 10,000 watts</td>
<td>H: 32 in.</td>
<td>1,038 lb. (471 kg)</td>
</tr>
<tr>
<td>(90778001)</td>
<td></td>
<td>Cat w/stainless steel and ArcReach</td>
<td>14–40 V</td>
<td>350 A at 27 V, 100% duty cycle</td>
<td></td>
<td>W: 26.5 in. (67 cm)</td>
<td>Net Weight</td>
</tr>
<tr>
<td>(907703001)</td>
<td></td>
<td>Mitsubishi w/ArcReach</td>
<td>10–280 A (each side)</td>
<td>400 A at 24 V, 100% duty cycle</td>
<td></td>
<td>D: 56 in.</td>
<td>Net Weight</td>
</tr>
<tr>
<td>(907703001)</td>
<td></td>
<td>Mitsubishi w/stainless steel and ArcReach</td>
<td>14–40 V</td>
<td>350 A at 27 V, 100% duty cycle</td>
<td></td>
<td></td>
<td>Net Weight</td>
</tr>
</tbody>
</table>

**EPA Tier 4 Final choices**

- Caterpillar C1.5T: 24.7 hp at 1,800 rpm
- Mitsubishi S4L2: 24.7 hp at 1,800 rpm

Four-cylinder, industrial, liquid-cooled engines. Note: Engines are warranted separately by engine manufacturer.

**Most popular accessories**

- SuitCase® Feeders (pg 22/53)
- ArcReach® Smart Feeder (pg 22/53)
- ArcReach® Stick/TIG Remote (pg 53)
- Dynasty® 210 Series (pg 62)
- Full KVA Adapter Cord 300517 (pg 128)
- Single-Phase Full KVA Plug Kit 119172 (pg 128)
- Protective Cover 195301 (pg 128)
- HW-Mid Frame Trailer (pg 129)
- Wireless Remote Hand Control/ Wireless Antenna Kit 300430/300749 (pg 133)

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

---

**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 58) 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.

---

**Diesel**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Process</th>
<th>Output Mode</th>
<th>Amperage Range</th>
<th>Rated Output at 122°F (50°C)</th>
<th>Single-Phase Generator Power at 122°F (50°C)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(300430)</td>
<td>DC stick/TIG</td>
<td>Separate (dual outputs)</td>
<td>5–280 A (one side only)</td>
<td>175 A at 27 V, 100% duty cycle</td>
<td>Continuous: 10,000 watts</td>
<td>H: 32 in.</td>
<td>1,064 lb. (483 kg)</td>
</tr>
<tr>
<td>(300749)</td>
<td></td>
<td>(side by side)</td>
<td>10–450 A</td>
<td>350 A at 27 V, 100% duty cycle</td>
<td></td>
<td>W: 26.25 in. (667 mm)</td>
<td>Net Weight</td>
</tr>
</tbody>
</table>

**EPA Tier 4 Final**

- Mitsubishi S4L2: 24.7 hp at 1,800 rpm

Four-cylinder, industrial, liquid-cooled engines. Note: Engine is warranted separately by engine manufacturer.

**Most popular accessories**

- Full KVA Adapter Cord 300517 (pg 128)
- Single-Phase Full KVA Plug Kit 119172 (pg 128)
- Protective Cover 195301 (pg 128)
- HW-Mid Frame Trailer 301438 (pg 129)
- Wireless Remote Hand Control/ Wireless Antenna Kit 300430/300749 (pg 133)
- Spark Arrestor Kit 195012

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
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 quick and easy 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 diagnostics and machine statistics.

20,000 watts of pure generator power. Plug in an extra Miller® inverter-based power source for an additional welding arc!

Standard features include digital meters with SunVision™, adjustable Hot Start™, output contactor control, automatic idle, thermal overload protection and 120-volt block heater.

Deluxe 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.

See page 133. Wireless antenna kit (300749) recommended.

**Heavy industrial**

<table>
<thead>
<tr>
<th>Processes</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick (SMAW) • MIG (GMAW)¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flux-cored (FCAW)² • DC TIG (GTAW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RMD®• Pulsed MIG (GMAW-P)²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air carbon arc cutting and gouging (CAC-A) (500: rated 5/16 in. carbons; 600: rated 3/8 in. carbons)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹With wire feeder.

²ArcReach models only with ArcReach Smart Feeder.

**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 TD2.9 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 62)
- ArcReach® Smart Feeder (pg 22/53)
- ArcReach® Stick/TIG Remote (pg 53)
- Dynaste 210® Series (pg 62)
- Full KVA Adapter Cord (pg 128)
- Full KVA Plug Kit (pg 128)
- Protective Cover (pg 128)
- HWY-225 Trailer 301338 (pg 129)
- Wireless Remote Hand Control / Wireless Antenna Kit 300430/300749 (pg 133)
- Desiccant Air Dry System (for Air Pak model only) 195117 Side mount 195117001 Rear mount Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates.
- Cold Weather Kit 301482
- Spark Arrester Kit 195012

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

**Table:**

<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 (907727) Kubota (907736001)</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–500 A</td>
<td>400 A at 36 V, 100% duty cycle 450 A at 38 V, 100% duty cycle 500 A at 40 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. (784 kg)</td>
</tr>
<tr>
<td>Big Blue 600 Pro (907770) Kubota (90777001)</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–600 A</td>
<td>600 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>600 Pro: 1,750 lb. (784 kg) 600 Air Pak: 2,040 lb. (925 kg)</td>
</tr>
</tbody>
</table>

**Diesel**

<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 (907736) Kubota (907736001)</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–500 A</td>
<td>400 A at 36 V, 100% duty cycle 450 A at 38 V, 100% duty cycle 500 A at 40 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. (784 kg)</td>
</tr>
<tr>
<td>Big Blue 600 Air Pak (907750)</td>
<td>CC/DC (Stick/TIG)</td>
<td>20–600 A</td>
<td>600 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>600 Pro: 1,750 lb. (784 kg) 600 Air Pak: 2,040 lb. (925 kg)</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.) 600 psig (7 bar)</td>
<td>100 psi</td>
<td>100%</td>
<td>4 qt. (3.79 L)</td>
</tr>
</tbody>
</table>
Big Blue® 800 Series
See literature ED/14.0

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 an extra Miller® inverter-based power source for an additional welding arc!

Standard features include 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.

Heavy industrial

Diesel engine
EPA Tier 4 Final
Deutz TD2.9 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 22/53)
• ArcReach® Smart Feeder (pg 22/53)
• ArcReach® Stick/TIG Remote (pg 53)
• Dynasty 210™ Series (pg 62)
• Full KVA Adapter Cord 300517 (pg 128)
• Full KVA Plug Kit (pg 128) 119172 Single-phase
254140 Three-phase
• Protective Cover 301113 (pg 128)
• HWY-225 Trailer 301338 (pg 129)
• Wireless Remote Hand Control/ Wireless Antenna Kit 300430/300749 (pg 133)
• Desicant Air Dry System (Air Pak model only)
195117 Side mount
195117001 Rear mount
Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates.
• Cold Weather Kit 301482
• Spark Ammeter Kit 195012
Visit MillerWelds.com or your distributor for other Miller® options and accessories.

<table>
<thead>
<tr>
<th>Diesel</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model/Stock Number*</td>
<td>Welding Mode/Process</td>
<td>Output Mode</td>
<td>Amp./Volt Ranges</td>
<td>Rated Output at 100% Duty Cycle at 104°F (40°C)</td>
<td>Generator Power at 104°F (40°C)</td>
</tr>
<tr>
<td>Big Blue 800 Duo Pro (907751) Deutz with ArcReach</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>
</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>Peak: 27,000 watts</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>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: 15,000 watts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Continuous: 12,000 watts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H: 46 in. (1,168 mm)</td>
<td>1,869 lb. (848 kg)</td>
</tr>
<tr>
<td>W: 28.5 in. (724 mm)</td>
<td>1,907 lb. (863 kg)</td>
</tr>
<tr>
<td>D: 69.5 in. (1,765 mm)</td>
<td>2,095 lb. (956 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingersoll Rand CE55 G1 Air Compressor (Air Pak model only)</th>
<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>
<td></td>
</tr>
</tbody>
</table>

*Big Blue 800 Duo Air Pak has welder truck specific models available — visit MillerWelds.com or your distributor.
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.

---

**Processes**

- Submerged arc (SAW)
- Electroslag (ESW)
- Air carbon arc cutting and gouging (CAC-A)

**Most popular accessories**

- 14-pin Insight Core™ Module 301072 (pg 77) Requires Insight Core to SubArc Digital Series Adapter Kit (301295).
- Insight ArcAgent™ Auto 301346 (pg 79)
- 15 ft. (4.6 m) SubArc Parallel Cable 260775015 (pg 131)
- 15 ft. (4.6 m) SubArc Tandem Cable 260878015 (pg 131)

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

---

**Heavy industrial**

SubArc DC Series

**Processes**

- Submerged arc (SAW)
- Electroslag (ESW)
- Air carbon arc cutting and gouging (CAC-A)

**Most popular accessories**

- 14-pin Insight Core™ Module 301072 (pg 77) Requires Insight Core to SubArc Digital Series Adapter Kit (301295).
- Insight ArcAgent™ Auto 301346 (pg 79)
- 15 ft. (4.6 m) SubArc Parallel Cable 260775015 (pg 131)
- 15 ft. (4.6 m) SubArc Tandem Cable 260878015 (pg 131)

Visit 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 131)
  - 260622030  30 ft. (9 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.

---

**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 131 for complete list)
  - 260622030  30 ft. (9 m)
  - 260622050  50 ft. (15 m)
  - 260622080  80 ft. (24.4 m)
- Continuum Control/Motor Cables (see pg 131 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.

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**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**

is a standard-speed, right-angle wire drive assembly.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power</th>
<th>Input Power Cord</th>
<th>Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(300938)</td>
<td>38 VDC</td>
<td>4 ft. (1.2 m)</td>
<td>1/5 hp, 85 rpm</td>
<td>30–400 ipm (0.8–10.2 m/min.)</td>
<td>3/32–3/16 in. (2.4–4.8 mm)</td>
<td>26 lb. (11.8 kg)</td>
</tr>
</tbody>
</table>

**Most popular accessories**

- Motor Extension Cables (pg 131)
- Drive Rolls (pg 131)
- Single-Wire Straightener 199733 (pg 131)
- Twin-Wire Straighteners (for twin-wire torches only) (pg 131)
- Manual Single Slide (pg 131)

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

**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 1/16–3/16 inch (1.6–4.8 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.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Rated Output</th>
<th>Wire Diameter Capacity</th>
<th>Single/Twin</th>
<th>Torch Body Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBT 600 (043923)</td>
<td>600 A at 100% duty cycle</td>
<td>1/16–5/32 in. (1.6–4.0 mm)</td>
<td>Single</td>
<td>10.25 in. (260.4 mm)</td>
</tr>
<tr>
<td>OBT 1200 (043900)</td>
<td>1,200 A at 100% duty cycle</td>
<td>1/16–3/16 in. (1.6–4.8 mm)</td>
<td>Single</td>
<td>17.25 in. (438.2 mm)</td>
</tr>
<tr>
<td>1200-Amp Twin-Wire Torch (301144) Long</td>
<td>1,200 A at 100% duty cycle</td>
<td>3/64–3/32 in. (1.2–2.4 mm)</td>
<td>Twin</td>
<td>16.97 in. (431 mm)</td>
</tr>
</tbody>
</table>

**Most popular accessories**

- OBT 600 Torch Body Extensions (pg 131)
- OBT 1200 Torch Body Extension (pg 131)
- Contact Tips (pg 131)

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

**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.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power</th>
<th>Input Power Cord</th>
<th>Flux Capacity</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc Flux Hopper Digital Low Voltage (300942)</td>
<td>12 VDC (PWM signal from SubArc Interface)</td>
<td>11 ft. (3.3 m)</td>
<td>25 lb. (11 kg)</td>
<td>11 lb. (5 kg)</td>
</tr>
</tbody>
</table>

**Most popular accessories**

- Flux Hopper Extension Cables (pg 131)

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

Stock Number

<table>
<thead>
<tr>
<th>Stock Number (951755)</th>
<th>Input Power from Welding Power Source</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Gun Positioning Slides</th>
<th>Drive Motor</th>
<th>Travel Speed</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 VAC, 1-phase, 50/60 Hz, 25 A</td>
<td>30-400 ipm</td>
<td>1/16-5/32 in.</td>
<td>3.5 in. (88.9 mm)</td>
<td>38 VDC</td>
<td>5-70 ipm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.8-10.2 m/min.)</td>
<td>(1.6-4.0 mm)</td>
<td></td>
<td>(0.13-1.75 m/min.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 77)
  Requires Insight Core to SubArc Digital Series Adapter Kit (301295). Insight ArcAgent™ Auto 301346 (pg 79)
- Contact Tips (pg 131)
- Drive Rolls (pg 131)

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

SubArc Portable Welding System shown.
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 fewer fumes than flame heating
- 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.

To learn more:

Call 1-844-IND-HEAT (1-844-463-4328) or email InductionSales@MillerWelds.com

For more detailed information, visit MillerWelds.com/induction
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

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
**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.

### Product Guide

<table>
<thead>
<tr>
<th>Product Class</th>
<th>Page</th>
<th>Class</th>
<th>Gouging</th>
<th>Piercing</th>
<th>Rated Output/ Duty Cycle</th>
<th>Max. Sever</th>
<th>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum® 375 X-TREME™</td>
<td>100</td>
<td>375</td>
<td>100</td>
<td>100</td>
<td>30 A at 35%</td>
<td>3/8 in.</td>
<td>HVAC, maintenance, light construction, fabrication</td>
</tr>
<tr>
<td>Spectrum 625 X-TREME™</td>
<td>100</td>
<td>375</td>
<td>100</td>
<td>100</td>
<td>40 A at 50%</td>
<td>5/8 in.</td>
<td>Maintenance, light construction, body shops, prototyping</td>
</tr>
<tr>
<td>Spectrum® 875 Auto-Line™</td>
<td>100</td>
<td>375</td>
<td>100</td>
<td>100</td>
<td>60 A at 50%</td>
<td>7/8 in.</td>
<td>Construction, maintenance/repair, fabrication</td>
</tr>
<tr>
<td>Spectrum® 875 Auto-Line™</td>
<td>100</td>
<td>375</td>
<td>100</td>
<td>100</td>
<td>200: 60 A at 40%, 230-380 V: 60 A at 50%, 380-575 V: 60 A at 60%</td>
<td>7/8 in.</td>
<td>Construction, maintenance/repair, fabrication</td>
</tr>
</tbody>
</table>

### Cutting w/ Engine Drives

<table>
<thead>
<tr>
<th>Engine-Driven Generator</th>
<th>Continuous Generator Power</th>
<th>Spectrum 375 X-TREME Steel Cut / Output Amp Setting**</th>
<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 and TrailBlazer® Series</td>
<td>9,500 watts/10,500 watts</td>
<td>5/8 in. / 40 A</td>
<td>5/8 in. / 40 A</td>
<td>5/8 in. / 50 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>5/8 in. / 50 A</td>
</tr>
<tr>
<td>Big Blue® 500 Pro</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>
<tr>
<td>Big Blue® 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>

**Capable of this process**

**Product Key**

- Light Industrial
- Industrial
- Heavy Industrial
- Designed for this process
- Capable of this process

*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.
Spectrum® Automation-Ready Machines

See literature PC/9.6 (625 X-TREME) or PC/9.8 (875 models)

Machine torch capable. 625 X-TREME and both 875 models can be ordered with a long body machine torch (see page 100) or can be converted to use a machine torch with optional automation kits (at right).

XT40M (for 625 X-TREME) and XT60M (for 875 models) machine torches. Short body and long body machine torches can be ordered separately (see page 130). Only long body machine torches are available in packages (see page 100). XT60M is also available in 25- or 50-foot cable lengths.

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Are you a professional fabricator, or do you like to repair everyday items in your home garage? Perhaps you’re a welding educator looking for class resources or to share what your school has been working on?

Sign up for the Miller eNewsletters — PRO, DIY or Instructor — to receive new product updates, success stories, how-to and technical articles and videos, special offers, project ideas and other information tailored to your interests.

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
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 and machine torch capabilities.

**Spectrum Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>375</th>
<th>625</th>
<th>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</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>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>X-CASE™ Machine torch capable</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
</tbody>
</table>

**Steel/Stainless/Aluminum Rated Cutting Capacity**

<table>
<thead>
<tr>
<th>Steel/Stainless/Aluminum</th>
<th>Spectrum 375 X-TREME</th>
<th>Spectrum 625 X-TREME</th>
<th>Spectrum 875 Auto-Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 in. (9.5 mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8 in. (15.9 mm)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8 in. (22.2 mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Stainless: 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.

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

**Quick connect flexible work cable with heavy-duty clamp.**
Spectrum® 375 X-TREME™/625 X-TREME™

- AUTO-LINE® - 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 air regulation compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

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 or XT40M long body machine torch.


Consumables storage compartment provides convenient access to consumables and parts.

Automatic air regulation compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

### Spectrum® 875/875 Auto-Line™ Specifications

<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 120-240 V, 50/60 Hz</td>
<td>Single-phase</td>
<td>120 V (15 A): 20 A at 88 VDC, 35% duty cycle</td>
<td>18.1</td>
<td>2.2</td>
<td>2.1</td>
<td>5.0 cfm (142 L/min.) at 90 psi (621 kPa)</td>
<td>H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)</td>
<td>12 ft. torch: 19 lb. (8.6 kg)</td>
</tr>
<tr>
<td>Spectrum 375 X-TREME 120-240 V, 60 Hz</td>
<td>Single-phase</td>
<td>120 V (15 A): 20 A at 88 VDC, 35% duty cycle</td>
<td>18.1</td>
<td>2.2</td>
<td>2.1</td>
<td>6.0 cfm (170 L/min.) at 90 psi (621 kPa)</td>
<td>H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)</td>
<td>12 ft. torch: 19 lb. (8.6 kg)</td>
</tr>
<tr>
<td>Spectrum 625 X-TREME 120-240 V, 60 Hz</td>
<td>Single-phase</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>208 V: 47</td>
<td>9.9</td>
<td>9.8</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>Spectrum 875 Auto-Line 208–575 V, 50/60 Hz</td>
<td>Single-phase</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>208 V: 47</td>
<td>9.9</td>
<td>9.8</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>Spectrum 875 Auto-Line 208–575 V, 50/60 Hz</td>
<td>Three-phase</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle 380-575 V: 60 A at 140 VDC, 60% duty cycle 380-575 V: 60 A at 140 VDC, 100% 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>
<td>20 ft. torch: 49 lb. (22.2 kg)</td>
</tr>
<tr>
<td>Spectrum 875 Auto-Line 208–575 V, 50/60 Hz</td>
<td>Single-phase</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 100% duty cycle</td>
<td>208 V: 47</td>
<td>9.9</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: 49 lb. (22.2 kg)</td>
</tr>
</tbody>
</table>

Most popular accessories:

- Automation Kits (pg 130)
- Cables and Cable Covers (pg 130)
- Cutting Guides (pg 130)
- Filters (pg 130)
- Plugs and Cords (pg 130)
- X-CASE (pg 130)
- Torches (pg 130)
- Torch Consumables (pg 130)

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 104 for optional Hard Hat™ regulator guards designed to help prevent broken gauges.

### Heavy-duty single-stage station regulators

Our Series 46™ brass line regulators are rugged, accurate and corrosion-resistant. Station regulators are used to connect pipeline gas delivery systems to the welding stations. Because the pipeline pressure is regulated upstream, station regulators only require a single delivery pressure gauge. Covered by a three-year warranty.

*In the chart below, oxygen “C” size inlet connection CGA 024 (7/8"-14 RH) fits station valve Rego. No. 7160. Fuel gases “C” size inlet connection CGA 025 (7/8"-14 LH) fits station valve Rego. No. 7161. Note: Body inlet is 1/4-inch (6 mm) NPT.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Gas</th>
<th>Regulator</th>
<th>Max. Delivery Pressure or Flow</th>
<th>Inlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTP2</td>
<td>Oxygen</td>
<td>30-100-540</td>
<td>100 psig (7 bar)</td>
<td>GGA 540</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30-15-510</td>
<td>15 psig (1 bar)</td>
<td>GGA 510</td>
</tr>
<tr>
<td>HTP5</td>
<td>Oxygen</td>
<td>30-100-540</td>
<td>100 psig (7 bar)</td>
<td>GGA 540</td>
</tr>
<tr>
<td></td>
<td>Acetylene</td>
<td>30-15-300</td>
<td>15 psig (1 bar)</td>
<td>GGA 300</td>
</tr>
</tbody>
</table>

### 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&quot;-18 RH</td>
<td>GGA 540</td>
</tr>
<tr>
<td>Single-Stage Pressure Regulators</td>
<td>40-275-540</td>
<td>Oxygen</td>
<td>275 psig (19 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16&quot;-18 RH</td>
<td>GGA 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&quot;-18 LH</td>
<td>GGA 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&quot;-18 LH</td>
<td>GGA 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&quot;-18 LH</td>
<td>GGA 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&quot;-18 RH intimal</td>
<td>GGA 580</td>
</tr>
<tr>
<td>Medium-Duty Series 30</td>
<td>30-100-540</td>
<td>Oxygen</td>
<td>100 psig (7 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16&quot;-18 RH</td>
<td>GGA 540</td>
</tr>
<tr>
<td>Single-Stage Pressure Regulators</td>
<td>30-20-540</td>
<td>Oxygen</td>
<td>20 psig (1.4 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16&quot;-18 RH</td>
<td>GGA 540</td>
</tr>
<tr>
<td></td>
<td>30-15-510</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 510</td>
</tr>
<tr>
<td></td>
<td>30-15-300</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 510</td>
</tr>
<tr>
<td></td>
<td>30-15-520</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 510</td>
</tr>
<tr>
<td></td>
<td>30-15-200</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 510</td>
</tr>
<tr>
<td></td>
<td>30-50-510</td>
<td>LP gas</td>
<td>50 psig (3 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 510</td>
</tr>
<tr>
<td></td>
<td>30-150-580</td>
<td>Inert gas</td>
<td>150 psig (10 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8&quot;-18 RH intimal</td>
<td>GGA 580</td>
</tr>
<tr>
<td></td>
<td>30-150-320</td>
<td>CO₂</td>
<td>150 psig (10 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8&quot;-18 RH intimal</td>
<td>GGA 320</td>
</tr>
<tr>
<td></td>
<td>30-100-350</td>
<td>Hydrogen/methane</td>
<td>100 psig (7 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 350</td>
</tr>
</tbody>
</table>

### Heavy-Duty Series 46

Station Regulators

<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>46-175</td>
<td>Single-stage</td>
<td>Oxygen</td>
<td>175 psig (12 bar)</td>
<td>200 psig (14 bar)</td>
<td>9/16&quot;-18 RH</td>
<td>GGA 024*</td>
</tr>
<tr>
<td>46-15</td>
<td>Single-stage</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>200 psig (14 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 025*</td>
</tr>
<tr>
<td>46-50</td>
<td>Single-stage</td>
<td>LP gas</td>
<td>50 psig (3 bar)</td>
<td>200 psig (14 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 025*</td>
</tr>
</tbody>
</table>

Series 30

Two-Stage Regulators

<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>35-125</td>
<td>Two-stage</td>
<td>Oxygen</td>
<td>125 psig (9 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>9/16&quot;-18 RH</td>
<td>GGA 540</td>
</tr>
<tr>
<td>35-15</td>
<td>Two-stage</td>
<td>Acetylene</td>
<td>15 psig (1 bar)</td>
<td>400 psig (28 bar)</td>
<td>9/16&quot;-18 LH</td>
<td>GGA 510</td>
</tr>
<tr>
<td>35-50</td>
<td>Two-stage</td>
<td>Inert gas</td>
<td>50 psig (3 bar)</td>
<td>3,000 psig (207 bar)</td>
<td>5/8&quot;-18 RH</td>
<td>GGA 580</td>
</tr>
</tbody>
</table>
Regulators

Heavy-duty flowmeter regulators and flowmeters

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.

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>22-80-320</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>
<td></td>
</tr>
<tr>
<td>22-30-580</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>
<td></td>
</tr>
<tr>
<td>22-30-580-6</td>
<td>Helium</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>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>Heavy-Duty Flowmeters</td>
<td>18530</td>
<td>Argon, CO₂</td>
<td>10–80 scfh (5–38 lpm)</td>
<td>80 psig (6 bar) recommended</td>
<td>5/8”-18 RH internal</td>
<td>1/4” NPT female</td>
</tr>
<tr>
<td>18531</td>
<td>Argon, CO₂, helium</td>
<td>Depends on gas</td>
<td>30 psig (2 bar) recommended</td>
<td>5/8”-18 RH internal</td>
<td>CGA 580</td>
<td></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>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>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>Economy Flowmeters</td>
<td>H2230A</td>
<td>Argon, CO₂</td>
<td>Depends on gas</td>
<td>50 psig (3 bar) recommended</td>
<td>5/8”-18 RH internal</td>
<td>1/4” NPT male</td>
</tr>
<tr>
<td>H2231A</td>
<td>Argon, helium, CO₂</td>
<td>Depends on gas</td>
<td>50 psig (3 bar) recommended</td>
<td>5/8”-18 RH external</td>
<td>CGA 580</td>
<td></td>
</tr>
<tr>
<td>Heavy-Duty Series 30</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>Flow Gauge Regulators</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>31-50-320</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>
<td></td>
</tr>
</tbody>
</table>

Heavy-duty model features

1. Rugged aluminum protective housing
   Protects flow tubes from damage while offering unobstructed view of flow reading.

2. Extra-long flow tube
   Expanded scales are easy to read and accurate within five percent of full reading. Can be attached to regulators or pipeline installations.

3. Shatter-resistant multi-scale flow tube
   Made of shatter-resistant polycarbonate resin and features easy-to-read scales for CO₂, argon, argon/CO₂ mix and helium.

4. Auto-reset pressure-relief valve
   Protects regulator from damage due to high-pressure surge. Relief valve will release excessive pressure and automatically reset.

5. Sure Seat™ dual-filtered seat assembly
   Protects high-pressure seat from debris for reliable operation and long service life.

Economy model features

6. Built-in rupture disc
   Reduces possibility of flow tube damage due to high-pressure surge. Must be replaced if ruptured — not auto-resetting.

7. Shatter-resistant triple-scale flow tube
   Made of shatter-resistant polycarbonate resin and can be rotated to position desired scale for easy reading. Scaled for CO₂, argon and argon/CO₂ mix, and helium.

8. Precision flow-adjustment valve
   Allows easy adjustment to desired setting.
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

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 1-7/8-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

Note: Use Series 40™ heavy-duty regulators constructed with a stainless steel diaphragm for high-volume or liquid (cryogenic) cylinder applications.

Note: Operation temperature: -40° to +180° Fahrenheit. Operation voltage (model 16347-3): 5 amps at 12/24 volts DC or 125 volts AC. 3 amps at 250 volts. Pressure switch setting: Adjustable from 70–300 psig (ships preset at 250 psig), 3/32-inch Allen head screw switch. Switch wiring: Normally open or normally closed (DPDT), three 18-inch flying leads.

Most popular accessories
- Hard Hat™ Regulator Guards
  H8190 For Series 40
  H915 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
- GASAVER®
  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 repetitious brazing and soldering
  - Hang torch to shut off
  - Pilot light for relighting
  - Eliminates flame readjustment
- Fixed-Flow Adaptors and Surge Protectors
  H1400 Series fixed-flow adaptors 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

---

**Torch Stock Number and Head Angle in Degrees Length in Inches**

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<td>SC770</td>
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<td>8 (203)</td>
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**Most popular accessories**

- Circle Cutter Guide 16229
- Flashback Arrestor Set (oxy and fuel) H743 Torch mount H753 Regulator mount
- Safety Glasses (see page 120 for more styles) 235661 Blue frame/shade 3 235657 Blue frame/shade 5
- Safety Gloves (pg 122)

Visit MillerWelds.com or your distributor for other Miller® options and accessories.
Heavy-Duty Outfits

Combination torch outfits (acetylene or LP)

Oxy-fuel outfits include just about everything needed for your cutting, welding, brazing or heating project.

- Heavy-duty Series 40™ OR medium-duty Series 30™ regulators with a three-year warranty
- Heavy-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 for added resistance to flashbacks
- Both HBA-40510 and HBA-40300 outfits cut up to 1-1/4 inch (32 mm) with tip included, other outfits cut up to 5/8 inch (16 mm)
- All outfits cut up to 8 inches (203 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.

- 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 heavy-duty Series 40™ regulators with a three-year warranty and Hard Hat® gauge/regulator guards
- HBS outfits include medium-duty Series 30™ regulators with a three-year warranty, torch-mount flashback arrestors for added safety, plus hose, lighter, safety glasses and tip cleaner
- HBS outfits cut up to 1-1/4 inch (32 mm) with tip included, other outfits cut up to 5/8 inch (16 mm)
- All outfits cut up to 12 inches (305 mm) with optional tips

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<th>Stock Number</th>
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<th>Cutting Jet Drill Size</th>
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<td>SC12-0</td>
<td>3/8 (10)</td>
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<td>SC12-1</td>
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<td>SC12-2</td>
<td>1-1/4 (32)</td>
<td>54</td>
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<td>SC12-3</td>
<td>2 (51)</td>
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<tr>
<td>SC12-4</td>
<td>4 (102)</td>
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<td>SC12-5</td>
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<tr>
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<td>1-1/4 (32)</td>
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</tr>
<tr>
<td>SC0-3</td>
<td>2 (51)</td>
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<tr>
<td>SC0-4</td>
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<tr>
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<td>1-1/4 (32)</td>
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<td>4 (102)</td>
<td>45</td>
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<td>SC50-03</td>
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<tr>
<td>SC50-05</td>
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<tr>
<td>SC50-06</td>
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<tr>
<td>SC50-07</td>
<td>12 (305)</td>
<td>32</td>
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Visit MillerWelds.com or your distributor for additional tips, options and accessories.

Outfit | Stock Number | Fuel | Cut Tip | Weld Tip | Heat Tip | Description | Typical Applications |
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<thead>
<tr>
<th></th>
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<th></th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>SC12-1</td>
<td>SW205</td>
<td>ST602</td>
<td>Heavy-duty combination torch, heavy-duty regulators, 25 ft. (7.6 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
</tr>
<tr>
<td></td>
<td>HBA-40510</td>
<td>Acetylene</td>
<td>SC12-1</td>
<td>SW205</td>
<td>ST602</td>
<td>Heavy-duty combination torch, medium-duty regulators, 25 ft. (7.6 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
</tr>
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<td></td>
<td>HBA-40300*</td>
<td>Acetylene</td>
<td>SC12-1</td>
<td>SW205</td>
<td>ST602</td>
<td>Heavy-duty combination torch, medium-duty regulators, 25 ft. (7.6 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
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<tr>
<td></td>
<td>HBA-30510</td>
<td>Propane</td>
<td>SC40-1</td>
<td>--</td>
<td>ST615</td>
<td>Heavy-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) “Y” grade hose, lighter, safety glasses, tip cleaner and check valves</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
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<td></td>
<td>HBA-30300*</td>
<td>Acetylene</td>
<td>SC12-1</td>
<td>SW203</td>
<td>ST602</td>
<td>Heavy-duty combination torch and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
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<td></td>
<td>HBA-40510</td>
<td>Acetylene</td>
<td>SC12-1</td>
<td>SW205</td>
<td>ST602</td>
<td>Heavy-duty combination torch and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
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<td>SC12-1</td>
<td>SW205</td>
<td>ST602</td>
<td>Heavy-duty combination torch and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
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<td></td>
<td></td>
<td></td>
<td>SC12-2</td>
<td>--</td>
<td>--</td>
<td>Heavy-duty SC229 hand cutting torch and heavy-duty regulators with Hard Hat® gauge guards</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SC12-1</td>
<td>--</td>
<td>--</td>
<td>Heavy-duty SC229 hand cutting torch, medium-duty regulators, 20 ft. (6.1 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors</td>
<td>Heavy fabrication, construction, pipeline, maintenance/repair, rail and truck repair</td>
</tr>
</tbody>
</table>

*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.

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<tr>
<th>Description</th>
<th>Stock Number</th>
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<th>Cutting Jet Drill Size</th>
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<td>MC60-4</td>
<td>4 (102)</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Acetylene Welding</td>
<td>MW201</td>
<td>1/32 in. (0.7 mm)</td>
<td>68</td>
</tr>
<tr>
<td>MW203</td>
<td>5/64 in. (1.9 mm)</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>MW205</td>
<td>1/8 in. (3 mm)</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>MW207</td>
<td>3/16 in. (5 mm)</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>MW209</td>
<td>3/8 in. (10 mm)</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Acetylene Heating</td>
<td>MT603</td>
<td>40,000 Btu</td>
<td>68</td>
</tr>
<tr>
<td>MT605</td>
<td>73,000 Btu</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>MT610</td>
<td>129,000 Btu</td>
<td>55</td>
<td></td>
</tr>
</tbody>
</table>

**Medium-duty torch tips**

<table>
<thead>
<tr>
<th>Outfit Type</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>
</tr>
</thead>
<tbody>
<tr>
<td>Combination Torch</td>
<td>MBA-30510</td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>MW205</td>
<td>MT603</td>
<td>Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose,</td>
<td></td>
</tr>
<tr>
<td>Complete Outfits</td>
<td>MBA-30300*</td>
<td></td>
<td>MC12-1</td>
<td></td>
<td></td>
<td>lighter, safety glasses, tip cleaner and flashback arrestors</td>
<td>Fabrication, farm and ranch, pipe, truck and auto, refrigeration, maintenance/repair</td>
</tr>
<tr>
<td>MBA-30510LP</td>
<td>Propane</td>
<td>MC40-1</td>
<td></td>
<td></td>
<td></td>
<td>Medium-duty combination torch, medium-duty regulation, 20 ft. (6.1 m) ”T”-grade</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>hose, lighter, safety glasses, tip cleaner and check valves</td>
<td>Fabrication, farm and ranch, pipe, truck and auto, refrigeration, maintenance/repair</td>
</tr>
<tr>
<td>Combination Torch</td>
<td>16205</td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>MW205</td>
<td>MT603</td>
<td>Medium-duty combination torch and flashback arrestors</td>
<td>Fabrication, farm and ranch, pipe, truck and auto, refrigeration, maintenance/repair</td>
</tr>
<tr>
<td>and Tip Kits</td>
<td>16281</td>
<td>Acetylene</td>
<td>MC12-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toughcut Economy Combination</td>
<td>MB55A-510</td>
<td>Acetylene</td>
<td>MC12-1</td>
<td>MW205</td>
<td>MT603</td>
<td>Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose,</td>
<td></td>
</tr>
<tr>
<td>Torch Outfits</td>
<td>MB55A-300*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>lighter, safety glasses and check valves</td>
<td>Fabrication, farm and ranch, pipe, hobby, auto, refrigeration, maintenance/repair</td>
</tr>
<tr>
<td></td>
<td>MB54A-510</td>
<td>Acetylene</td>
<td>MC12-1</td>
<td>MW205</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MB54A-300*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propane</td>
<td>MC40-1</td>
<td></td>
<td></td>
<td></td>
<td>Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) ”T”-grade</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>hose, lighter, safety glasses and check valves</td>
<td></td>
</tr>
<tr>
<td>Combination Torch Portable</td>
<td>TL-500 (no tanks)</td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>MW203</td>
<td></td>
<td>Medium-duty (TL500/TL550) or standard-duty (VT-4T) combination torch, medium-</td>
<td></td>
</tr>
<tr>
<td>Outils</td>
<td>TL-550</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>duty regulators, 12.5 ft. (3.8 m) hose, carrier, lighter, safety glasses,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VT-4T</td>
<td>Acetylene</td>
<td>MC12-0</td>
<td>LT103, LT104, LT106</td>
<td>13716</td>
<td>check valves and cylinders (cyinders NOT included with TL-550)</td>
<td>Farm and ranch, hobby, DIY, auto, refrigeration, maintenance/repair</td>
</tr>
</tbody>
</table>

Visit MillerWeeds.com or your distributor for additional tips, options and accessories.
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, money and 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/helium 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/CO₂ Argon/hydrogen Argon/helium Nitrogen/hydrogen</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>
<tr>
<td></td>
<td>Oxygen</td>
<td>20-0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Argon/CO₂ Argon/hydrogen Argon/helium Nitrogen/hydrogen</td>
</tr>
</tbody>
</table>

Registering Your New Welder is Quick and Easy

Complete registration as soon as possible. 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
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.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<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 58 x 29 in. (889 x 1,473 x 737 mm)</td>
<td>318 lb. (144 kg)</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 29 x 35 in. (889 x 737 x 889 mm)</td>
<td>74 lb. (34 kg)</td>
</tr>
</tbody>
</table>
All of our products are designed and built to protect the welder behind the hood and their environment — because that's what we know. By listening to welders and working with them side-by-side, we understand their pain points and have developed products that offer protection from the unique physical hazards and health risks prevalent within welding applications. Miller's complete line of Head and Face, Hand and Body, and Weld Environment protection is designed to protect and perform in demanding welding, cutting and grinding applications.

For more detailed information, visit MillerWelds.com/safety

**Safety products designed to protect welders and enhance their long-term performance**

Our focus has always been welding — understanding welders, and the pain points and unique hazards prevalent in their work environments.

As the only single-source solution for welding environment control products that fulfill each level of OSHA’s hierarchy of controls, getting maximum productivity out of each welder while keeping them safe and compliant has never been easier.
Choose the Right Fume Extractor

Our complete 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 and fume control needs.

**FILTAIR® 130**

See literature AY/3.1

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.

### ZoneFlow™ Technology

The capture zone redefined. Innovative, extended-capture fume extraction system designed specifically for welding.

ZoneFlow technology moves air into the extraction arm at a standard rate of 900 cfm and releases air from the extraction arm at approximately a 90-degree angle, creating a large negative pressure zone. This negative pressure zone funnels weld fume particulate towards the center of the arm, maximizing capture and extending capture zone up to five feet deep and four feet wide (versus up to 18 inches from conventional source capture extractors). By increasing area of weld fume capture, the amount of interaction a welder has with an arm is dramatically reduced. ZoneFlow technology can be found on the FILTAIR Capture 5 and FILTAIR SWX Series (see pages 112 and 113).

### Processes

- Stick ( SMAW ) • Flux-cored ( FCAW )
- MIG (GMAW) • TIG (GTAW)

**Comes with**

- FilTek® XL filter
- 8 ft. (2.4 m) collection hose
- 20 ft. (6 m) power cord

**Most popular consumables**

- Collection Hose 300896 17 ft. (5.2 m)
- 300897 34 ft. (10.4 m)

**Most popular accessories**

- Magnetic Nozzle 300895 11.8 in. (300 mm) width
- Flexible Funnel Magnetic Nozzle 300668
- Bernard™ Clean Air® Fume Extraction MIG Gun (pg 31)

### FILTAIR® 130 Specifications

<table>
<thead>
<tr>
<th>Stock Number (300595)</th>
<th>Accu-Rated Airflow</th>
<th>Sound Level</th>
<th>Motor</th>
<th>Input Power</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>132 cfm (62 L/sec.)</td>
<td>68.5 dBA at 5 ft. (1.5 m)</td>
<td>1.1 kW</td>
<td>115 V, 1-phase, 60 Hz at 11.25 A</td>
<td>H: 23 in. (584 mm) W: 12 in. (305 mm) D: 12 in. (305 mm)</td>
<td>46 lb. (21 kg)</td>
<td></td>
</tr>
</tbody>
</table>
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.

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

ZoneFlow™ technology. Extends the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. See page 111 for more information.

Minimizes downtime with fewer fume extractor adjustments. With increased capture area, arm interactions are dramatically minimized.
FILTAIR® SWX Series  
See literature AY/3.2 (SWX)

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™ models additional features

ZoneFlow technology. Extends the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. See page 111 for more information.

Minimizes downtime with fewer fume extractor adjustments. With increased capture area, arm interactions are dramatically minimized.

Model/Stock Number | Filter Media | Accu-Rated® Airflow | Extraction Arm Diameter | Sound Level | Motor | Input Power | Dimensions | Net Weight without Arm |
|---------------------|--------------|---------------------|------------------------|-------------|------|-------------|-------------|-------------------------|
| SWX-S (Self-Cleaning Model)  
(951620) Telescoping arm  
(951519) 7 ft. standard arm  
(951517) 10 ft. standard arm  
(951518) 12 ft. standard arm  
(951760) 10 ft. ZoneFlow arm  
(951761) 12 ft. ZoneFlow arm | SWX-D (Disposable Filter)  
(951619) Telescoping arm  
(951513) 7 ft. standard arm  
(951514) 10 ft. standard arm  
(951515) 12 ft. standard arm | 490 sq. ft.  
(45.52 sq. m) | 875 cfm  
(413 L/sec.) | 8 in.  
(203 mm) | Standard: Approximately 75 dB(A) at 5 ft.  
(1.5 m) ZoneFlow: Approximately 80 dB(A) at 5 ft.  
(1.5 m) | 1 hp  
3,450 rpm | Blower motor:  
115 V, 1-phase,  
60 Hz at approximately 11.9 A ZoneFlow:  
115 V, 1-phase,  
60 Hz at approximately 12 A | 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) | SWX-S: 195 lb. (88 kg)  
SWX-D: 130 lb. (59 kg)  
Blower/bracket: 95 lb. (43 kg) |
FILTAIR® 4000–12000

See literature AY/3.4

The industrial centralized weld fume extractors are custom engineered solutions designed for multiple capture sources which require ducting and accessories to complete the system.

FILTAIR engineering resources. Design and engineering resources recommend, develop and support custom-engineered solutions.

Improves operating efficiency. Creates a cleaner shop with less downtime spent cleaning equipment. Raises productivity with more motivated employees and fewer absences and helps meet OSHA and EPA compliance.

Stand-alone space saver. Our fully assembled fume extractor provides up to a 65 percent smaller footprint versus traditional cartridge-style extractors. It provides all the necessary extraction tools, while offering customizable options.

Less noise. Up to 75 percent quieter than cartridge-style extractors. High-efficiency motors and integrated silencer housing create a quieter, more productive work area.

Integrated electrical controls. Control panel manages all of the collector functions, including the fan, filter differential, and pulse cleaning system.

24 VDC motor start/stop feedback relay allows an external signal to automate the remote start of collector fan from other equipment.

FilTek XL filters

Easy-clean filter with surface-loaded filter technology allows for more effective weld fume pulse cleaning without penetration into the filter. This provides an easier filter cleaning process, while outlasting conventional cartridge filters.

Smaller size and fewer filters. One FilTek XL filter replaces up to three cartridge-style filters increasing efficiency, reducing extractor size and lowering operational costs.

FILTAIR 4000 model shown. Other models are available (6000, 8000, and 12000).

Call us toll-free at 866-931-9730 for information and requests for quotes on custom-engineered solutions to fit your needs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Airflow Range*</th>
<th>Number of Filter Packs</th>
<th>Sound Level</th>
<th>Input Power</th>
<th>Dimensions** (H x W x D)</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILTAIR 4000</td>
<td>2,000–4,800 cfm (944–2,265 L/sec.)</td>
<td>4</td>
<td>72–75 dBA at 5 ft. (1.5 m)</td>
<td>230, 460 or 575 V, 3-phase, 60 Hz</td>
<td>86.1 in. (2,187 mm) x 31.2 in. (792 mm) x 83.2 in. (2,113 mm)</td>
<td>1,600 lb. (726 kg)</td>
</tr>
<tr>
<td>FILTAIR 6000</td>
<td>2,300–6,600 cfm (1,085–3,115 L/sec.)</td>
<td>6</td>
<td>Peak pulse cleaning is 92.7 dBA at 5 ft. (1.5 m)</td>
<td></td>
<td>117.2 in. (2,977 mm) x 31.2 in. (792 mm) x 83.2 in. (2,113 mm)</td>
<td>2,250 lb. (1,021 kg)</td>
</tr>
<tr>
<td>FILTAIR 8000</td>
<td>2,500–7,000 cfm (1,180–3,304 L/sec.)</td>
<td>8</td>
<td></td>
<td></td>
<td>135 in. (3,429 mm) x 37.2 in. (945 mm) x 83.2 in. (2,113 mm)</td>
<td>2,900 lb. (1,315 kg)</td>
</tr>
<tr>
<td>FILTAIR 12000</td>
<td>4,000–10,500 cfm (1,888–4,955 L/sec.)</td>
<td>12</td>
<td></td>
<td></td>
<td>120.3 in. (3,056 mm) x 59.7 in. (1,516 mm) x 83.2 in. (2,113 mm)</td>
<td>3,900 lb. (1,769 kg)</td>
</tr>
</tbody>
</table>

*Based on clean filters. **Dimensions for base models without factory options.

Welding Safety & Health
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).
- **Arm mounting bracket and ducting kit** includes a supporting bracket and collar for connecting an extraction arm to ductwork.

### Spark Cooler
- Cools sparks using the fume extractor’s airflow
- Very efficient — maximizes the extractor’s power
- Simple design is easy to install

### FILTAIR low profile hood
- Available in sizes from 4 x 4 feet up to 16 x 16 feet in one-foot increments
- Exclusive design — capture velocity zone is maximized and distributed over the work area
- Hood airflow design reduces sound for better communication
- Unique airflow offers spark abatement in the extraction rail, as well as the recommended Spark Cooler
- Clear, UV-protected polycarbonate ceiling panels allow maximum light into the cell
- Corner lift hooks are convenient for installing or hanging over a work area. The hood can also be placed on an existing cell enclosure or supported with post assemblies.

For stock numbers and ordering information, visit [MillerWelds.com](http://MillerWelds.com)

## 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 Categories¹</th>
<th>Particle Size Range Efficiency %²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.3 to 1 µm</td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>Not Rated</td>
</tr>
<tr>
<td><strong>11</strong></td>
<td>Not Rated</td>
</tr>
<tr>
<td><strong>12</strong></td>
<td>Not Rated</td>
</tr>
<tr>
<td><strong>13</strong></td>
<td>&lt;75%</td>
</tr>
<tr>
<td><strong>14</strong></td>
<td>75–85%</td>
</tr>
<tr>
<td><strong>15</strong> Miller FilTek XL</td>
<td>85–95%</td>
</tr>
<tr>
<td><strong>16</strong></td>
<td>≥95%</td>
</tr>
<tr>
<td><strong>HEPA³</strong></td>
<td>≥99.97%</td>
</tr>
</tbody>
</table>

| Weld Fume Composition⁴                      | 75–95%      | ≤15%      | ≤15%       |

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. The vast majority of weld fumes are less than one micron in diameter, or roughly 1/100th the width of a human hair.

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 including those found in hexavalent chromium.

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
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 versatile C50 air regulator (SAR) can be positioned horizontally or vertically to naturally align with body movements.
- Lightweight low-profile blower assembly with integrated shoulder straps (PAPR) reduces lower back strain and fatigue.

**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.
- C50 air regulator (SAR) can cool air entering the helmet up to 50 degrees Fahrenheit (28°C), heightening productivity and relieving heat stress.
- 360-degree swivel air hose connection alleviates hose coiling, reducing potential trip hazards.
- Low-profile breathing-tube attachment eases on/off process while flexible tube material eliminates breathing tube snags in work cell.
- Two lightweight lithium-ion batteries (PAPR only) included with each package eliminate downtime.

**PAPR Powered Air-Purifying Respirator**  See literature AY/4.1

**Available packages:**
- With T94i-R™ helmet (integrated clear grind shield)
  264575  With auto-darkening lens assembly
- With T94-R™ helmet (external grind control)
  264573  With auto-darkening lens assembly
- With hard hat and Titanium 9400i™ helmet (integrated clear grind shield)
  261659  With auto-darkening lens assembly
- With hard hat and Titanium 9400™ helmet (external grind control)
  259385  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

**With T94i-R™ helmet (integrated clear grind shield)**
- 264871  With auto-darkening lens assembly

**Straight Air Hoses**
- 270405  25 ft., 3/8 in. ID with 1/4 in. Industrial Interchange fittings
- 270407  100 ft., 3/8 in. ID with 1/4 in. Industrial Interchange fittings

**Coiled Air Hoses**
- 270408  25 ft., 3/8 in. ID with 1/4 in. Industrial Interchange fittings
- 270410  100 ft., 3/8 in. ID with 1/4 in. Industrial Interchange fittings

**Also available**

**BreatheAir™ Portable Box**
- 275983  Two person, 10 ppm alarm
- 275985  Four person, 10 ppm alarm

**Supplies Grade-D breathing air while monitoring for CO.**

**Monitor Calibration Kit**
- 275988  10 ppm

Also available
- A complete PAPR package includes 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).
- NIOSH 42 CFR 84 certified, assigned protection factor of 25

A complete SAR package includes C50 air regulator, breathing tube, breathing tube cover, belt assembly, flowmeter, tool bag and T94i-R helmet assembly.
- NIOSH 42 CFR 84 certified (requires air hoses and fittings shown, sold separately), assigned protection factor of 25
# Respiratory

**LPR-100™ Half Mask Respirator**  See literature AY/4.5
ML00894  Respirator with P100 filters (small/medium)
ML00895  Respirator with P100 filters (medium/large)
ML00994  Respirator with P100 nuisance level OV relief filters (small/medium)
ML00995  Respirator 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 most welding helmets and provides maximum field of vision
- P100 filters provide 99.97 percent filtration of airborne particles, specifically: hexavalent chromium, zinc oxide, manganese, aluminum, cadmium and lead
- NIOSH 42 CFR 84 certified, assigned protection factor of 10

**N95 Disposable Mask Respirator**  See literature AY/4.8
267334  Respirator (10 pack)
267335  Respirator with nuisance level OV relief (10 pack)
267334-2  Respirator (2 pack)
267335-2  Respirator with nuisance level OV relief (2 pack)

- Flame-retardant outer layer designed for welding applications
- N95 filters provide 95 percent filtration of airborne particles, specifically: hexavalent chromium, zinc oxide, manganese, aluminum, cadmium and lead
- NIOSH 42 CFR 84 certified, assigned protection factor of 10
Welding Helmets

See page 120 for helmet accessories.

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<tr>
<td>9.0 sq. in.</td>
<td>9.0 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>
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**Auto-Darkening**

**Clearlight™ Lens Technology**

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<th>Weld: 8–13</th>
<th>Weld: 8–13</th>
<th>Weld: 8–13</th>
<th>Weld: 8–13</th>
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<tr>
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<td>Yes</td>
<td>Yes</td>
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**Sensors**

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<th>Yes</th>
<th>—</th>
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**Tig Rating**

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<th>1/20,000</th>
<th>1/20,000</th>
<th>1/20,000</th>
<th>1/20,000</th>
<th>1/3,600</th>
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<tr>
<td>3 amps</td>
<td>3 amps</td>
<td>5 amps/below</td>
<td>5 amps/below</td>
<td>5 amps</td>
<td>5 amps/below</td>
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**Weight**

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<th>2 years</th>
<th>2 years</th>
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</thead>
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<tr>
<td>26 oz. (737 g)</td>
<td>21 oz. (599 g)</td>
<td>23 oz. (652 g)</td>
<td>32 oz. (910 g)</td>
<td>24 oz. (673 g)</td>
<td>16 oz. (454 g)</td>
<td>14 oz. (396 g)</td>
<td></td>
</tr>
</tbody>
</table>

**Warranty**

3 years

**Series**

**T94™ Series**

Maximized comfort, visibility and productivity for the professional welder. See literature AY/41.1

Industry’s largest viewing area. Digital Infinity™ Series helmets feature a 13.4 square inch viewing area allowing for a wide range of view.

Clearlight™ Lens Technology optimizes contrast and clarity in welding and light states. 1/1/1/2 optical clarity rating allows for a lighter lighter state while not welding — keeping the helmet down — maximizing safety and productivity.

X-Mode™ Electromagnetically senses the weld to eliminate sunlight interference and continuously detects the arc even if sensors are blocked.

**Premium Headgear** Features ample adjustability settings and enhanced support for the perfect fit, maximizing comfort.

**InfoTrack™ Data Monitoring Technology** Tracks arc time and features a clock. Version 2.0 adds 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 short-term comfort as well as long-term health benefits.

- 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

See chart above for feature availability.
Digital Infinity™ Series  Industry's largest viewing area maximizes visibility.  See literature AY/42.0

- Black 280045
- Black Ops™ 280047
- Departed™ 280048
- Stars and Stripes™ 280049
- NEW! Relic™ 280051
- Cat® 2nd Edition 282007

Digital Elite™ Series  Industry-leading helmet provides high-performance versatility.  See literature no. AY/43.0

- Black 281000
- Lucky's Speed Shop® 281001
- Stars and Stripes™ III 281002
- Inferno™ 281003
- Vintage Roadster™ 281004
- Raptor™ 281007
- Cat® Edition 1 281006

Digital Performance™ Series  See literature AY/44.0

Lightweight helmet with superior headgear for increased efficiency.

- Black 282000
- Blue Rage™ 282001
- '64 Custom™ 282002

MP-10™ Helmet  Best-in-class traditional passive helmet.

- Black 238497

Classic Series  Helmets for the value-minded welder.  See literature AY/45.0

- VSI™ 260938
- FS#10 Flip-Up 263038
- Black (VS) 251292
- Metalworks™ (VS) 271346
- Rise™ (VS) 271349

Helmet Lighting Accessory 282013

- Provides additional lighting in low-light environments for most Miller helmets including Titanium, Infinity, Elite, Performance, Classic and MP-10
- Includes two lights (one for each side) and all required mounting hardware

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Helmet Accessories

Gen 3.5 Headgear 284218
- Ergonomic, comfort cushion provides extensive adjustability, settings and enhanced support

Gen IV Headgear 260486
- Ergonomic, four-point flexible design provides a secure fit, while avoiding major pressure points within the head — for the T94™ Series helmets

Slotted Hard Hat Adapter 259637
- Compatible with most slotted hard hats. Helmet and hat not included

Hard Hat Adapter 265315 T94 222003
- Titanium, Infinity, Elite, Performance, Classic and MP-10

Helmet Bib 253882
- Flame-resistant WeldX™ material provides additional neck coverage for the Infinity, Elite, Performance, Classic and MP-10 Series helmets

Helmet Cape 279080
- Flame-resistant material provides additional head and back-of-the-neck coverage for the T94 Series helmets

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.

NEW!

Weld-Mask Lighting Accessory 281188
- Snaps onto brow of Weld-Mask models to provide additional lighting in low-light environments

Weld-Mask 267370
- 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 eliminate sunlight interference and continuously detects the arc even if sensors are blocked
- Wide, singular lens provides unmatched auto-darkening range of visibility

Safety Glasses 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
- Smoke lenses provide shade protection in outdoor applications
- Shade 3 and 5 green IR lenses are for cutting, brazing or soldering

Safety and Cutting Glasses Chart

<table>
<thead>
<tr>
<th>Frame Style/Color</th>
<th>Clear</th>
<th>Smoke</th>
<th>Shade 3</th>
<th>Shade 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic with Strap</td>
<td>272188</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Spatter™ - Black</td>
<td>272191</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Spatter™ - White</td>
<td>272198</td>
<td>272199</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Slag™ - White</td>
<td>-</td>
<td>-</td>
<td>272196</td>
<td>272209</td>
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<tr>
<td>Gen I - Black</td>
<td>238979</td>
<td>235656</td>
<td>235662</td>
<td>235658</td>
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<tr>
<td>Gen I - Blue</td>
<td>-</td>
<td>235655</td>
<td>235661</td>
<td>235657</td>
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<tr>
<td>Gen I - Orange</td>
<td>-</td>
<td>-</td>
<td>235663</td>
<td>235659</td>
</tr>
</tbody>
</table>
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
• Nomex® flame-resistant thread

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>
<th>5X-Large</th>
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<tbody>
<tr>
<td>Grain Leather Jacket</td>
<td>–</td>
<td>–</td>
<td>231090</td>
<td>231091</td>
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<td>Split Leather Jacket</td>
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<td>WeldX Jacket</td>
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<td>Combo Jacket</td>
<td>–</td>
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<td>Indura Cloth Jacket</td>
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<td>258098</td>
<td>258099</td>
<td>258100</td>
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<td>244756</td>
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</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
• One-handed cinch closure

Classic Cloth Apron 247149
• 35-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 — traditional design for the value-minded welder.

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

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>
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<tbody>
<tr>
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<td>–</td>
<td>263339</td>
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<tr>
<td>MIG (Lined)</td>
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<td>263332</td>
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<tr>
<td>TIG</td>
<td>263346</td>
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<td>263349</td>
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<td>MIG (Pigskin)</td>
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<td>MIG (Cowhide)</td>
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<tr>
<td>TIG</td>
<td>279897*</td>
<td>279898*</td>
<td>279899*</td>
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</table>

Welding Safety & Health
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. For details, visit OpenBook.MillerWelds.com.

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

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.

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
AugmentedArc™ System

Augmented Reality Welding System

The industry’s most realistic welding simulation solution for classroom training.

**AugmentedArc system comes complete with**
- AugmentedArc simulator
- Teacher software
- Black Infinity™ AR helmet with premium headgear
- AugmentedArc router
- MIG gun with AR tip
- SMAW stinger with two electrode/filler rods and AR tips
- TIG torch with AR tip
- Work stand for out-of-position applications
- Five coupons: t-joint, butt joint, lap joint, pipe-to-plate and butt pipe

**Optional components**
- AugmentedArc controller (301395) for multiple system connectivity
- Heavy-duty transportation cases (951775) protect complete system during transportation or storage— one case holds helmet and AugmentedArc unit, and the second case holds MIG gun, SMAW stinger, TIG torch, coupons and work stand
- **NEW!** AugmentedArc V1.3 complete upgrade kit (283070) includes updated coupons, nozzles and MIG gun head tube

**Innovative augmented reality technology.** Blending real-world and computer-generated images into a unique, augmented reality environment.

**Optimize instructor efficiency.** Instructors can use the Teacher software with an AugmentedArc system to develop a customized curriculum with weld exercises, theory and quizzes, or modify preset exercises for each process. Multiple systems can be networked together with a Controller to create a virtual classroom. Students can work at their own pace, and instructors have more time to assist students one-on-one.

**Deliver real-time feedback.** By providing immediate feedback on users’ techniques, AugmentedArc quickly helps correct errors, reinforces proper welding practices and accelerates 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 helping students refine their welding skills in a simulation environment before beginning live arc welding, AugmentedArc system delivers a green training solution. There’s less waste of wire, gas and coupons.

**Build a larger, more-skilled welding workforce.** AugmentedArc is a great way to introduce new learners to welding in a safe and learner-friendly environment. It draws students towards welding education programs, providing a foundation their success—key to building a larger, more-skilled welding workforce.

**Stock Number** (951889)

Only available at approved distributors!

**Augmented reality displays**
- Helmet’s external optical sensor captures and sends images of coded devices and coupons to AugmentedArc simulator
- Simulator generates three-dimensional images of metal workpieces, augmenting them into a real-world environment
- Display on simulator replicates the view inside helmet to give real-time feedback

**Welding simulation screen**
- Visual graphical aids guide the user to achieve target parameters
- Adherence to pre-determined or custom welding parameters is monitored, with confirmation when maintained or alerts when exceeded
- Realistic arc sounds from inside helmet speakers accompany the visuals for a truly immersive experience

**Post-weld feedback screen**
- User’s performance is scored, graphed and recorded for playback
- Performance feedback on various parameters is provided

**Stock Number** (951889)

Only available at approved distributors!
LiveArc™ System
Welding Performance Management System

The reality-based recruiting, screening, training, and re-qualification solution for industrial, manufacturing and educational markets.

Better training. While utilizing a live arc, the intuitive system promotes user independence and provides objective, quantitative feedback on key performance parameters. The flexible system is ideal for recruiting, screening, training and performance management.

Faster results. Independent usage accelerates personal development. Accelerated training times put trainees in production lines faster while shorter educational periods allow trainees to focus on additional learning opportunities.

More cost effective. Trainers and educators have more time for one-on-one training while pre-weld simulation saves money on coupons, wire and gas (GMAW/FCAW only). Also reduces the frequency of poor-quality welding and defects, rework and downtime.

Welding positioning arm allows training in out-of-position welding applications.

SmartGun is an industry-exclusive 400-amp MIG gun featuring built-in LEDs that are tracked by the system’s cameras. The ergonomic soft-grip handle provides tactile vibration feedback that helps guide real-time performance adjustments, reinforcing optimal position and movement.

OLED display on gun provides initial visual feedback to guide proper gun positioning. Pushbuttons provide a convenient alternative to the touch screen for navigation.

SmartStinger extends training capabilities to the SMAW process. LiveArc guides pre-weld positioning for travel and work angles via the LiveArc display.

LiveArc GMAW/FCAW system comes complete with
- SmartStinger with 12 ft. (3.7 m) cable
- Calibration tool
- Two table clamps
- C-clamp assembly
- Removable arm extension for right- and left-hand applications
- Extra Bernard consumables

LiveArc GMAW/FCAW/SMAW system includes above plus
- SmartStinger with 15 ft. (4.6 m) cable
- 15 ft. (4.6 m) Dinse-style cable
- Router box
- Software update for SMAW applications

LiveArc stick upgrade module
For systems currently with GMAW/FCAW only.
- Includes SmartStinger with 12 ft. (3.7 m) cable, 15 ft. (4.6 m) Dinse-style cable, router box with mounting bracket, software update for SMAW applications, easy-clean dust tray, and dual-purpose holster

Intuitive user interface
Assignment selection screen
- Guides the user through a range of targeted exercises
- Includes a library of assignments designed by Miller and the flexibility to configure customized assignments
- Offers assignment completion status, history summary and easy access to detailed performance history data

Welding procedure specification (WPS) screen
- Guides the user through proper selection and preparation of materials
- Provides correct power source and wire feeder settings
- Provides target values and limits for various parameters
- Assignment parameters can be configured to suit the skill level (and scoring potential) of the user
- Displays instructor-determined target score and assignment completion criteria

Post-weld feedback screen
- Data is provided following tests in both simulation and live arc modes
- Performance feedback on various parameters is provided
- All test data is stored and allows for monitoring and evaluation

### Specifications

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>LiveArc GMAW/FCAW system (907714)</th>
<th>LiveArc GMAW/FCAW/SMAW system (301391)</th>
<th>LiveArc stick upgrade module only available at approved distributors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td>120 V, 60 Hz</td>
<td>120 V, 60 Hz, compatible with Miller power sources</td>
<td>2F-4F, 1G-4G</td>
</tr>
<tr>
<td><strong>Processes</strong></td>
<td>GMAW, GMAW-S, GMAW-P, FCW-P, FCW-G</td>
<td>SMW</td>
<td>Limited groove applications</td>
</tr>
<tr>
<td><strong>Positions</strong></td>
<td>2F-4F, 1G-4G</td>
<td>2F-4F, 1G-4G</td>
<td>Limited groove applications</td>
</tr>
<tr>
<td><strong>Multi-Pass</strong></td>
<td>Groove and fillet up to 1 in.</td>
<td>Limited groove applications</td>
<td></td>
</tr>
<tr>
<td><strong>Rated Output</strong></td>
<td>SmartGun: 400 A at 60% duty cycle</td>
<td>SmartStinger: 250 A at 60% duty cycle</td>
<td>SmartStinger: Up to 1/8 in.</td>
</tr>
<tr>
<td><strong>Electrode Diameter</strong></td>
<td>SmartGun: Up to 5/64 in.</td>
<td>SmartStinger: Up to 1/8 in.</td>
<td></td>
</tr>
<tr>
<td><strong>Computer</strong></td>
<td>Intel core i7, 128 GB SSD, fanless cooling, HDMI port</td>
<td>Intel core i7, 128 GB SSD, fanless cooling, HDMI port</td>
<td>Supports most secondary monitors (not included)</td>
</tr>
<tr>
<td><strong>Monitor</strong></td>
<td>21.5 HD LCD touch screen display</td>
<td>21.5 HD LCD touch screen display</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>H: 77.5 in. (1,969 mm)</td>
<td>W: 46 in. (1,168 mm)</td>
<td>D: 31 in. (787 mm)</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>527 lb. (239 kg)</td>
<td>480 lb. (218 kg)</td>
<td>527 lb. (239 kg)</td>
</tr>
</tbody>
</table>

Only available at approved distributors!
**Automated MIG**

For adapters and drive motors, visit MillerWelds.com.

- **Cable Connectors and Adapters**
  - 126/133

**Diode Connectors**

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**Cables and Adapters**

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  - Blue Star Accessories
  - Bobcat and Trailblazer Accessories
  - Generator Accessories
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  - Trailers

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**Engine Drive Accessories**

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**Engine Drive Accessories**

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**MIG Accessories**

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  - Remote Controls
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**For adapters and drive motors, visit MillerWelds.com.**

- Coolant Flow Switch 195461
  - For water-cooled guns. To ensure coolant is flowing in the system. A lack of coolant flow may cause damage to water-cooled guns.
  - Module allows wiring into the peripheral connector port. 50-foot (15.2 m) cable with connector and separate shell connector for simple modification to desired length in the field. Quarter-turn quick connection.

**Cable Connectors and Adapters**

- Also see Torch and Weld Cable Connectors in TIG Accessories on page 13.

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 Kit for Dinse-Style Cable Connectors**

- 042419
  - Accepts #4 to #1/0 AWG cable

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.

**Extensions for Dinse-Style Cable Connectors**

- 134460
  - Male Dinse-style plug

- 136600
  - Female Dinse-style receptacle

Used to adapt or extend weld and/or work cables. Accepts #1/0 to #2/0 AWG cable.

**Tweco®-Style Connector**

- 191981
  - Accepts #1/0 to #2/0 AWG cable

Kits include one Tweco-style male plug which attaches to the work and/or weld cables and plugs into the Tweco-style receptacles on the power source.

**Tweco®-Dinse Adapter**

- 042465

**Dinse/Cam-Lok Adapter**

- 042466

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.

**Feeder Cart**

- 142382

A low-profile, creeper cart which allows the operator to easily move the feeder around the work area.

**Cylinder Cart**

- 042537

For Invision, XMT and CST. Has adjustable handles and is slanted for convenient access to power source front panel controls. Carries two 160-pound (72.6 kg) gas cylinders with feeder mounted to tray above power source. Accommodates Coolmate 3 or 4 coolant system.

**Universal Cart and Cylinder Rack**

- 042534

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 200/215/220 AC/DC 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 Cart**

- 951770

For Millermatic 141/211, Multimatic 200/215/220 AC/DC 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 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**

- 951769

For Millermatic 255 and Multimatic 255. Similar to above, but with a dual cylinder rack and elevated gun/cable rack to keep cables off the floor and tangle free. EZ-Latch Dual Cylinder Rack with Elevated Gun and Cable Rack (301481) is also available separately for use with EZ-Latch Single Cylinder Running Gear above.

**Dual Cylinder Rack**

- 195299

For Millermatic 350P/350P Aluminum. Replaces single-cylinder rack.
Coolmate™ Coolant Systems

**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*.

**Coolant**

See literature AY/7.2

*May vary with torch design and cable length. Miller® coolants are backed by the best warranty in the industry — one full year.

- **Coolmate 1.3**
  - 115 V, 60 Hz
  - 4.7 A (60 Hz)
  - 3,400 W (11,600 Btu/hr.)
  - 3.8 qt./min. (3.6 L/min.)
  - 1,330 W (4,540 Btu/hr.)
  - 1.1 qt./min. (1 L/min.)
  - 1.3 gal. (4.9 L)
  - Dimensions: H: 11.25 in. (286 mm) W: 10.38 in. (264 mm) D: 24 in. (610 mm)
  - Net Weight: 43 lb. (20 kg)

- **Coolmate 3**
  - 115 V, 50/60 Hz
  - 5.9 A (50 Hz), 4.7 A (60 Hz)
  - 3,820 W (13,000 Btu/hr.)
  - 4.2 qt./min. (4.0 L/min.)
  - 1,420 W (4,840 Btu/hr.)
  - 1.1 qt./min. (1 L/min.)
  - 3 gal. (11.4 L)
  - Dimensions: H: 13.25 in. (337 mm) W: 12.25 in. (311 mm) D: 23.25 in. (584 mm)
  - Net Weight: 40 lb. (18 kg)

- **Coolmate 3.5**
  - 115 V, 50/60 Hz
  - 6.3 A (50 Hz), 5.7 A (60 Hz)
  - 4,140 W (14,000 Btu/hr.)
  - 5.0 qt./min. (4.7 L/min.)
  - 1,860 W (6,560 Btu/hr.)
  - 1.1 qt./min. (1 L/min.)
  - 3.5 gal. (13.2 L)
  - Dimensions: H: 11.75 in. (298 mm) W: 15.75 in. (400 mm) D: 26 in. (660 mm)
  - Net Weight: 64 lb. (29 kg)

- **Coolmate 4**
  - 115 V, 50/60 Hz
  - 5.9 A (50 Hz), 4.7 A (60 Hz)
  - 5,500 W (18,000 Btu/hr.)
  - 5.9 qt./min. (5.6 L/min.)
  - 1,780 W (6,070 Btu/hr.)
  - 1.1 qt./min. (1 L/min.)
  - 4 gal. (15 L)
  - Dimensions: H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm)
  - Net Weight: 38 lb. (17 kg)

**Coolant Systems**

Options include 1-gallon tanks, 3-gallon tanks, and dual-tank systems for water-cooled torches.

**2-Wheel Trolley Cart** 300971
For Maxstar 210/280 and Dynasty 210/280 with or without Coolmate 1.3. Easy-to-maneuver two-wheel cart features single-cylinder rack, chain for cylinder, straps (quick and easy to attach and carry machine), cable holders, torch holder, storage area, and filler rod storage area.

**Small Runner™ Cart** 301318
For Maxstar 210/280 and Dynasty 210/280 with or without Coolmate 1.3. Cart features single-cylinder rack, foot pedal holder, two cable/torch holders and two TIG filler holders.

**Runner™ Cart** 300244
For Maxstar 400/800 and Dynasty 400/800 with or without Coolmate 3.5. Cart features single-cylinder rack, foot pedal holder, three cable/torch holders and two TIG filler holders.

**No. 37 Running Gear** 195282
For Syncrowave 250 DX/350 LX. Includes two 10-inch (254 mm) wheels, two 5-inch (127 mm) casters, two-compartment rack for gas cylinders, and handles. Provides excellent mobility and easy to install.

**Cooling Capacity**

- **Coolmate 1.3**
  - Motor Input Voltage: 115 V, 60 Hz
  - Maximum Current Draw: 4.7 A (60 Hz)
  - Maximum Cooling Capacity: 3,400 W (11,600 Btu/hr.)
  - IEC Cooling Capacity: 1,330 W (4,540 Btu/hr.)
  - Dimensions: H: 11.25 in. (286 mm) W: 10.38 in. (264 mm) D: 24 in. (610 mm)
  - Net Weight: 43 lb. (20 kg)

- **Coolmate 3**
  - Motor Input Voltage: 115 V, 50/60 Hz, 230 V, 50/60 Hz
  - Maximum Current Draw: 5.9 A (50 Hz), 4.7 A (60 Hz), 2.5 A (50 Hz), 3.0 A (60 Hz)
  - Maximum Cooling Capacity: 3,820 W (13,000 Btu/hr.), 4,140 W (14,000 Btu/hr.)
  - IEC Cooling Capacity: 1,420 W (4,840 Btu/hr.), 1,860 W (6,560 Btu/hr.)
  - Dimensions: H: 13.25 in. (337 mm), 11.75 in. (298 mm) W: 12.25 in. (311 mm), 15.75 in. (400 mm) D: 23.25 in. (584 mm), 26 in. (660 mm)
  - Net Weight: 40 lb. (18 kg), 64 lb. (29 kg)

- **Coolmate 3.5**
  - Motor Input Voltage: 115 V, 50/60 Hz
  - Maximum Current Draw: 5.9 A (50 Hz), 4.7 A (60 Hz)
  - Maximum Cooling Capacity: 4,140 W (14,000 Btu/hr.), 5.500 W (18,000 Btu/hr.)
  - IEC Cooling Capacity: 1,860 W (6,560 Btu/hr.), 1,780 W (6,070 Btu/hr.)
  - Dimensions: H: 11.75 in. (298 mm) W: 15.75 in. (400 mm) D: 26 in. (660 mm)
  - Net Weight: 64 lb. (29 kg)

- **Coolmate 4**
  - Motor Input Voltage: 115 V, 50/60 Hz
  - Maximum Current Draw: 5.9 A (50 Hz), 4.7 A (60 Hz)
  - Maximum Cooling Capacity: 5,500 W (18,000 Btu/hr.), 5.900 W (20,000 Btu/hr.)
  - IEC Cooling Capacity: 1,780 W (6,070 Btu/hr.), 1,860 W (6,560 Btu/hr.)
  - Dimensions: H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm)
  - Net Weight: 38 lb. (17 kg)
**Engine Drive Accessories**

*Also see Trailers on page 129.*

**Big Blue 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.

**Blue Star Accessories**

- **Lifting Eye** 195353
  For Fusion and Blue Star.

**Bobcat and Trailblazer Accessories (Gas/LP)**

- **Multi-Terrain Running Gear** 301460
  For Bobcat 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 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). Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.

- **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.

- **Remote Oil Drain and Filter Kit** 300923 Field
  For Fusion. 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 by itself. Includes bracket and clamp to mount 33- and 43-pound tanks horizontally, and hose with fittings to converter.

**Bobcat and Trailblazer Accessories (Diesel)**

- **Off-Road Running Gear with Never Flat® Tires** 300477
  For diesel Bobcat and Trailblazer. 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.

**Generator Accessories**

- **Twist Lock Adapter Cord** 301489
  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.

  - **3-phase, 240 V, 30 A plug (NEMA L16-30P).**
  - **3-phase, 480 V, 30 A plug (NEMA L16-30P).**
  - **1-phase, 120/240 V, 50 A plug (NEMA 14-50P).**

**Protective Covers**

- **Protective Cage with Cable Holders** 195331
  For diesel Bobcat and Trailblazer. Rugged cage with cable holders protects your investment. Works with Running Gear, or with trailer.

  Note: Not for use with Protective Cover.

- **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.

- **Protective Covers**

  Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of the welder.

  - **301245** For Fusion and Blue Star.
  - **301475** For Bobcat 200 Air Pak without Running Gear.
  - **301476** For 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 and Trailblazer 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.
Trailers

See literature AY/20.0

HWY-Mid Frame Trailer 301438
For Bobcat, Trailblazer and Big Blue 400 Pro/400 PipePro/450 Duo CST. A 1,242-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

LBP-350 043329
Designed to provide an adjustable load for troubleshooting or calibrating welding power sources or generators. Standard equipment includes analog meters for both AC and DC output with jacks for external metering connections. It comes with a 13-foot (4 m) 115-volt power cord and has seven 50-amp load switches, providing a maximum capacity of 350 amps.

Welding Power Load Bank 902804
Designed to load test the output of transformer-type, engine- or motor-driven generator welding power sources. This unit can be used to test AC or DC welder outputs, and to demonstrate welding equipment to customers.

MIG Accessories

Machine and Gun Accessory Kits

Industrial MIG 4/0 Kit (with lugs) 300390 For single feeders.
300957 For dual feeders.
Consists of flowmeter regulator with 10-foot (3 m) gas hose, 10-foot (3 m) 4/0 feeder weld cable with lugs, and 15-foot (4.6 m) work cable with 600-amp C-clamp. Dual kit comes with two flowmeter regulators and gas hoses.

Industrial MIG 4/0 Kit (with Dinse-style connectors) 300405 For single feeders.
300956 For dual feeders.
Same as above except weld and work cables have Dinse-style connector on one end instead of lug.

MiGmatic™ M-Series Gun Consumable Kits
234607 .023 in. (0.6 m) wire
234608 .030 in. (0.8 m) wire
234609 .035 in. (0.9 m) wire
For M-100/M-150 guns. Kits include 10 contact tips, 1 tip adapter 1 standard nozzle and a consumable storage box.

Protection 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.

Trailer accessories

Fender Kit 301439
For HWY-Mid Frame and HWY-225. Replacement fenders.

Dual Hitch 301441
For HWY-Mid Frame and HWY-225. Combination 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye in one reversible assembly.

Cable Tree 043826
For HWY-Mid Frame and HWY-225. Provides an area to conveniently wrap weld cables and extension cords.

2-In-1 Document/Fire Extinguisher Holder 301236
For HWY-Mid Frame and HWY-225. Stores documents and holds a 5-pound fire extinguisher.
Note: Holder shown mounted on trailer. Fire extinguisher not included.

Appendix A

Accessories •••

Note: Trailers are shipped unassembled. *Width at outside of fenders. **Does not include tongue.
Plasma Cutter Accessories

Automation Kits

Automation Kit for Spectrum 625 X-TREME 301158
Upgrades quick-connect hand-held torch packages to add machine torch capabilities. Includes front panel with built-in remote control cable receptacle. Machine torches are NOT included in kits and must be ordered separately.

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

Flexible Work Cable 234938 20 ft. (6.1 m)
234939 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 XT30C/XT30/XT40/XT60 torches. Cut straight lines or circles up to 12 inches in diameter.

Suction/Magnetic Pivot Base 195979
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 228926

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).

For Spectrum 625 X-TREME. Allows connection of machine to 120- or 240-volt receptacles without tools — just choose the adapter cord that fits the receptacle.

Protective Covers

X-CASE 300184
For Spectrum 375 X-TREME/625 X-TREME.

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
249950 20 ft. (6.1 m) XT40
249953 20 ft. (6.1 m) XT60
249954 50 ft. (15.2 m) XT60

For Spectrum 625 X-TREME
259305 25 ft. (7.6 m) long body XT40M
257462 25 ft. (7.6 m) short body XT40M

For Spectrum 875 and 875 Auto-Line
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

Each consumable kit includes a storage box.

Plasma Torch Consumable Kits

253520 For XT30 torch. Includes 5 electrodes, 5 tips, 1 swirl ring, 1 retaining cup, 1 o-ring and silicone grease.
253521 For XT40 torch. Includes 5 electrodes, 5 tips (40 A), 3 tips (30 A), 1 drag shield (40 A), 2 drag shields (30 A), 1 deflector, 1 o-ring, 1 swirl ring, 1 retaining cup, 1 gauge tip (40 A), 1 gauge shield and silicone grease.
256033 For XT60 torch. Includes 3 standard electrodes, 3 standard tips, 1 drag shield, 1 deflector, 1 o-ring, 1 swirl ring, 1 retaining cup, 1 gauge tip, 1 gauge shield and silicone grease.
127493 Empty consumable storage box.
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 132 and 133.

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 in a single cord. Housed in a durable and light aluminum case and includes 125-foot (38 m) cord with plugs.

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 Set
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)
043969  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 (228.6 mm). Actual length of extension is 8.5 inches (215.9 mm).

OBT Torch Contact Tips
OBT 600  OBT 1200
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)
–  192136  3/16 in. (4.8 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)
193701  3/16 in. (4.8 mm)

Single-Wire Straighteners
For OBT 600 and OBT 1200 single-wire torches. For 1/16–3/16 inch (1.6–4.8 mm) wire.

Twin-Wire Straighteners
301160  Single adjustment
301162  Double/separate adjustment
For 1200-amp twin-wire torch only.

Manual Single Slide  301137
Not recommended for tandem.

Wire Reel  108008
Supports 60-pound (27 kg) coil of wire. Requires Spool Support Assembly (119438).
TIG Accessories

**Kits**

**Contractor Kit**
- 301311 TIG/stick pkg with RCCS-14 fingertip
- 301309 TIG/stick pkg with RFCS-14 HD foot pedal
  
  *For Maxstar 210/280 and Dynasty 210/280. All-in-one TIG/stick welding kit comes with either a RCCS-14 fingertip control OR RFCS-14 HD foot control, Weldcraft® A-150 TIG torch, 200-amp stick electrode holder with 15-foot (4.6 m) cable, 300-amp work clamp with 15-foot (4.6 m) cable, flow gauge regulator with 12-foot (3.7 m) gas hose, gas hose coupler, AK2C torch accessory kit, and TIG torch connector.*

**TIG Contractor Kit**
- 301287 For Multimatic 200.
- 301337 For Multimatic 215.

  *Kit comes with Weldcraft™ A-150 TIG torch with Dinse-style connector, either a RCC-14 or RFCS-RJ45 foot control (Multimatic 215 kit), flow gauge regulator with 12-foot (3.7 m) gas hose, and AK2C torch accessory kit.*

**Multimatic 255 TIG Kit**
- 301518 Kit comes with 25-foot (7.6 m) Weldcraft™ A-150 TIG torch with Dinse-style connector, RFCS-14 foot control, 10-pin to 14-pin adapter cord, flow gauge regulator with 5-foot (1.5 m) gas hose, and AK1C torch accessory kit.

**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)

  *For Maxstar (except 161 models), Dynasty, and Syncrowave 250 DX/350 LX. 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.*

**14-Pin to 6-Pin Adapter Cord**
- 300507 For Maxstar 210/280 and Dynasty 210/280.
- 195320 For Syncrowave 250 DX/350 LX.

  *Allows standard 14-pin connections on 400-amp kit, torch cable cover, work clamp with 26.5-foot (8 m) cord with plug, protective covers (300579) and (301382) shown.*

**Remote Controls**

**Protective Covers**

**RFCS-6M HD foot control (Multimatic 200 kit)**

- 12-foot (3.7 m) gas hose, and AK2C torch accessory kit.

**TIG/stick pkg with RFCS-14 HD foot pedal**

- For Maxstar 210/280.

**TIG/stick pkg with RCCS-14 fingertip**

- For Maxstar 161 STL/STH and Multimatic 200.

**Contractor Kit**

- 301311 TIG/stick pkg with RCCS-14 fingertip
- 301309 TIG/stick pkg with RFCS-14 HD foot pedal

  *For Maxstar 210/280 and Dynasty 210/280. All-in-one TIG/stick welding kit comes with either a RCCS-14 fingertip control OR RFCS-14 HD foot control, Weldcraft® A-150 TIG torch, 200-amp stick electrode holder with 15-foot (4.6 m) cable, 300-amp work clamp with 15-foot (4.6 m) cable, flow gauge regulator with 12-foot (3.7 m) gas hose, gas hose coupler, AK2C torch accessory kit, and TIG torch connector.*

**TIG remote controls to be used with the Multimatic 255.**

- 14-pinch control
- 10-pin control

**10-Pin to 14-Pin Adapter Cord**
- 273873 For Multimatic 255. Allows standard 14-pin connections on 400-amp kit, torch cable cover, work clamp with 26.5-foot (8 m) cord with plug, protective covers (300579) and (301382) shown.

**RMS-6M**

- 195269 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.*

**RPBS-14**

- 300666 For Maxstar 161 STL/STH.

  *Attaches to the TIG torch to remotely start and stop the TIG welding process. Includes 25-foot (7.6 m) cord with plug.*

**Accessories**

**Protective Covers**

- X-CASE 301429 For Maxstar 161 models.

**Remote Controls**

- RFCS-RJ45 300432 For Diversion and Multimatic 215. Foot pedal current/contactor control. Includes 14-foot (4.3 m) cord with plug.

**Weldcraft™ A-150 TIG remote controls**

- 14-pin to 6-pin adapter cord (14-pin plug), 10-foot to 14-pin adapter cord (6-pin plug)
Wireless Remote Foot and Hand Controls

See literature AY/6.5 (Foot) and AY/6.6 (Hand)

Increases 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.)

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.

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

Wireless Remote Foot and Hand Controls

Model/Stock Number | Component | Power Supply | Battery Life | Rated Range* | Temperature | Radio Frequency | RF Power | Antenna | Dimensions | Weight
|---------------------|-----------|--------------|--------------|--------------|-------------|----------------|----------|---------|------------|--------
| Wireless Foot Control System (300429) | Foot control (transmitter) | Three AA batteries | 250 hours | 90 ft. (27.4 m) | -13° to +158°F (-25° to +70°C) | 2.4 Ghz (ISM band) | <3 mW | Internal | H: 6 in. (152 mm) | 3 lb. (1.4 kg) w/batteries
| Wireless Hand Control System (300438) | Hand control (transmitter) | Three AA batteries | 250 hours | 300 ft. (91 m) | -13° to +158°F (-25° to +70°C) | 2.4 Ghz (ISM band) | <3 mW | Internal | H: 5 in. (127 mm) | 0.6 lb. (0.27 kg) w/batteries

Torch and Weld Cable Connectors

Air-Cooled TIG (GTAW) Torch Connectors

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Connector Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>273483</td>
<td>For Multimatic 200/215/220 and Maxstar 161. 25 mm (small) Dinse-style gas thru for one-piece air-cooled torches.</td>
</tr>
<tr>
<td>194723</td>
<td>A-200 (WP26)</td>
</tr>
<tr>
<td>194722</td>
<td>All others for Syncrowave 210. 50 mm Dinse-style gas thru for one-piece air-cooled torches.</td>
</tr>
<tr>
<td>195379</td>
<td>A-200 (WP26)</td>
</tr>
<tr>
<td>195378</td>
<td>All others for Multimatic 255, CST, Maxstar 210/280/400, Dynasty 210/280/400 and Syncrowave 250 DX/350 LX. 50 mm Dinse-style for one-piece air-cooled torches.</td>
</tr>
</tbody>
</table>

50 mm Thread-Lock-Style 225028
For Maxstar/Dynasty 800. Used with all Weldcraft™ water-cooled torches.

Thread-Lock-Style Weld Cable Connectors 225029
For Maxstar/Dynasty 800. Contains two male connectors that accept #1/0 to #4/0 AWG size cable.

Water-Cooled TIG (GTAW) Torch Connectors

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Connector Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>195380</td>
<td>50 mm Dinse-Style Flow Thru For Syncrowave 210. Used with all Weldcraft™ water-cooled torches.</td>
</tr>
<tr>
<td>195377</td>
<td>50 mm Dinse-Style with Water Return Line For Maxstar 210/280/400, Dynasty 210/280/400 and Syncrowave 250 DX/350 LX. Used with all Weldcraft™ water-cooled torches.</td>
</tr>
</tbody>
</table>

1 Except A-200 (WP26) torch. 2 A-80 (WP24) torches require 24-5 adapter.
Wire Feeder Accessories

**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 interconnecting cable 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**

137 546

Without contactor 137546011

With contactor

Operates on 115-volt power and designed primarily for constant-current DC power sources. Can also be used with constant-voltage power sources or DC engine drives supplying 115 volts. Used with a 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.

**Spool Gun Extension Hose and Cable Kits**

132228 25 ft. (7.6 m)

132229 50 ft. (15 m)

For Spoolmate and Spoolmate 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**

For 20 Series and 70 Series.

141580 For .035-.045 inch (0.9–1.1 mm) wire.

141581 For 1/16–1/8 inch (1.6–3.2 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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