2023
LEAVE YOUR
IMPRINT.

International Catalog
MillerWelds.com
Miller has been headquartered in Appleton, Wisconsin for more than 90 years. Our employees put expertise, ingenuity and work ethic into everything we build. And because we listen to the people who use our equipment, we’re always creating new solutions to meet your needs.

Whether you weld to build a project, a business or a dream, you can depend on Miller products to get the job done right. Because we work the way you work.

When you work with a Miller distributor, you’re working with a valued partner. You can depend on their in-depth knowledge and assistance to select a perfect Miller solution — and their support throughout your product’s long lifetime of service. Visit MillerWelds.com to find a Miller distributor near you.
**NEW FROM BLUE**

12
Intellix™ Elite Wire Feeders

66
Fusion 185 Welder/Generator

18
ArcReach® 16 Wire Feeders

88
Hard Hat PAPR Powered Air Purifying Respirator

31/52
Dynasty® 300 Multiprocess and Dynasty® 210/300 Series TIG Power Sources

90/91
T94i™ XL Welding Helmet and New Welding Helmet Graphics

36
XMT® 650 and XMT® 650 ArcReach® Multiprocess Power Sources

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AccuLock™ consumables are now available on select feeders and industrial packages. Look for the AccuLock™ logo in MIG and Wire Feeders sections or check out the packages in the Multiprocess section.
Ease of use

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

-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:

<table>
<thead>
<tr>
<th>MIG</th>
<th>Multiprocess</th>
<th>Stick</th>
<th>TIG</th>
<th>Plasma cutters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic® 255</td>
<td>Multimatic® 255</td>
<td>Maxstar® CST™ 282</td>
<td>Maxstar® Syncrowave® 210</td>
<td>Spectrum® (except 875)</td>
</tr>
<tr>
<td>AlumaPower® 350</td>
<td>Multitapi® 280 MultiProcess</td>
<td>CST™ 282</td>
<td>Dynasty®</td>
<td></td>
</tr>
<tr>
<td>Continuum™ Auto-Continuum™ Maxstar® 280 MultiProcess</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Dynast® 300 MultiProcess XMT® 350</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

AutoSense™
Reduces issues related to setting helmet sensitivity by allowing welder to push and hold the AutoSense button to automatically set the helmet sensitivity for their environment. Found on Digital Infinity™, Digital Elite™ and Digital Performance™ welding helmets.

Auto-Set™
Provides speed, convenience and confidence of preset controls and eliminates guesswork when setting TIG or stick weld parameters. Found on the following products:

MIG
Millermatic® (except 252)

Multiprocess
Multimatic®

TIG
Syncrowave® 210

QuickTech™
Provides easy setup and process changing on the Multimatic® 220 AC/DC multiprocess welder.
- 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.

Remote start/stop
Allows you to easily turn your Bobcat™ welder/generator on and off remotely so it only runs when you need it. Get more out of each tank, extend time between maintenance and work without the hassle of walking back to your machine. Found on the Bobcat™ 225 and 260 (non-LP) engine drives.

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:

<table>
<thead>
<tr>
<th>MIG</th>
<th>Multiprocess</th>
<th>Stick</th>
<th>TIG</th>
<th>Plasma cutters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic® 211</td>
<td>Multitapi® 200/215</td>
<td>Thunderbolt® 160</td>
<td>Diversion™ 180</td>
<td>Spectrum® 375/625</td>
</tr>
<tr>
<td>Multitapi® 220 AC/DC</td>
<td></td>
<td></td>
<td>Syncrowave® 210</td>
<td></td>
</tr>
</tbody>
</table>

X-Mode™
Electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked. Found on the T94™, Digital Infinity™, Digital Elite™ and Classic VSI™ welding helmets.
Advanced welding processes

**Versa-Pulse**™ is a fast, low-heat, low-spatter process designed for materials up to 6.4 mm (1/4 in.) 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 process with the lowest heat and limited travel speed. Designed to fill gaps in thin-material applications, it provides a higher quality root pass, calm and stable arc, and less spatter.

Advanced welding processes are found on the following products:

- **MIG**
  - Deltaweld® 350/500 with Intellix™ Pro or Elite feeder
  - (Accu-Pulse only)
  - Auto-Continuum™ Systems
- **Multiprocess (RMD only)**
  - XMT® 350 FieldPro models with ArcReach Smart Feeder

Augmented reality welding

Training solution that builds a larger, more skilled welding workforce and quickly helps correct errors, reinforces proper welding practices and accelerates skill advancement. Found on the MobileArc™ and AugmentedArc™ augmented reality welding systems.

**ClearLight™ 2.0 Lens Technology**


**Auto-Speed™**

Automatically adjusts engine speed to meet demands so the engine never works harder than necessary. Reduces fuel consumption and noise levels on the Bobcat™ 200 Air Pak™ and Trailblazer® 325 engine drives.

**Excel™ power**

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

**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.

**InfoTrack™ 2.0**

Data monitoring technology tracks arc time and arc count. Found on the T94™, Digital Infinity™ and Digital Elite™ welding helmets.

**ZoneFlow™ technology**

Extended-capture weld fume extraction technology extends the capture zone up to five feet deep and four feet wide (versus up to 457 mm (18 in.) from conventional source capture extractors). The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity. Found on the FILTAIR® Capture 5, and select FILTAIR® SWX and 4000–12000 models.

**Insight Welding Intelligence™**

**Insight Core**™ is an easy-to-use welding information solution that gives visibility into your operation so you can improve productivity.

**Insight Centerpoint™** is a real-time welder feedback solution that provides guidance and control within the weld cell to ensure consistent weld quality.

Insight Welding Intelligence is found on the following products:

- **MIG (Insight Core standard)**
  - Deltaweld® 350/500
  - Continuum™
  - Auto-Continuum™
- **MIG (Insight Centerpoint optional)**
  - Continuum™
  - Auto-Continuum™

Note: **Insight Core** is compatible with many 14-pin compliant Miller® power sources (see chart at MillerWelds.com/insight) using an Insight Core 14-pin module.

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

**ArcReach™**

Allows operators to adjust welding parameters right at the weld joint without a control cord, using the wire feeder or remote — maximizing arc-on time and impacting the bottom line. Found on the following products:

- **Multiprocess**
  - XMT® 350 FieldPro™ models
  - XMT® 450 CC/CV ArcReach
  - XMT® 650 ArcReach models

- **Engine drives**
  - Trailblazer® 325 ArcReach models
  - Big Blue® ArcReach models
Millermatic® 141 and 211

See literature DC/12.42 (141) and DC/12.58 (211)

Millermatic 141

Millermatic 211

Multi-voltage plug (MVP™) allows connection to common 120- and 240-volt power receptacles without the use of any tools — simply choose the plug that fits the receptacle and connect to the power cord.

Recommended aluminum solution
Spoolmate® 100 (300371) with both Millermatic models or 150 (301272) with Millermatic 211.

Light industrial CV DC 1 Power

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

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

• Flow gauge regulator and gas hose for argon or AR/CO2 mix, two 0.8 mm (.030 in.) contact tips, Hobart® spool of 0.8 mm (.030 in.) solid wire, hook-and-loop cord wraps and material thickness gauge (229895)

Most popular accessories
• Spoolmate® 100 300371
• Spoolmate® 150 301272
(Millermatic 211 only)
• Running Gear/Cylinder Rack 301239
• Protective Cover 301262
• V-Knurled Drive Roll 202926

Mild Steel Welding Capability

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

Aluminum Welding Capability

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

Aluminum welding with the Millermatic 141 uses optional Spoolmate 100 spool gun and 4043 series aluminum wire. Aluminum welding with the Millermatic 211 uses optional Spoolmate 100 spool gun with 4043 aluminum series wire or optional Spoolmate 150 spool gun with 4000 or 5000 series aluminum wire.

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: 0.6/0.8 mm [.024/.030 in.]) (211: 0.6/0.8/0.9 mm [.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 with included 3 m (10 ft.) MIG gun or optional Spoolmate 150 M-150 MIG gun.

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 102 or 203 mm (4 or 8 in.) spools.

Millermatic 211 model additional features

Advanced Auto-Set™ includes five different wire/gas combinations and 0.6/0.8/0.9 mm (.024/.030/.035 in.) wire capabilities.

Inverter technology combines best-in-class arc characteristics with the portability of a 17.2 kg (38 lb.) machine. The arc is extremely forgiving to variations in arc length and travel speeds.

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

Model/Stock Number | Input Power | Amperage Range | Rated Output | Amps Input at Rated Output, 50/60 Hz | Wire Feed Speed | Wire Type and Diameter Capacity | Power Source Dimensions | Power Source Net Weight |
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 141 (907612)</td>
<td>120 V</td>
<td>30–140</td>
<td>90 A at 18.5 VDC, 20% duty cycle</td>
<td>20 — 3.0 2.45</td>
<td>0.4–9.1 m/min. (15–360 ipm)</td>
<td>Solid steel, Stainless, Flux-cored</td>
<td>H: 318 mm (12.5 in.)</td>
<td>23.1 kg (51 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.6–0.8 mm (.023–.030 in.)</td>
<td>W: 286 mm (11.25 in.)</td>
<td></td>
</tr>
<tr>
<td>Millermatic 211 (907614)</td>
<td>120 V</td>
<td>30–130</td>
<td>115 A at 19.8 VDC, 20% duty cycle</td>
<td>24.3 — 2.9 2.9</td>
<td>1.5–15.2 m/min. (60–600 ipm)</td>
<td>Solid steel, Stainless, Flux-cored</td>
<td>D: 521 mm (20.5 in.)</td>
<td>17.2 kg (38 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.6–0.9 mm (.023–.035 in.)</td>
<td>H: 318 mm (12.5 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.6–0.9 mm (.023–.035 in.)</td>
<td>W: 286 mm (11.25 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>30–230</td>
<td>150 A at 21.5 VDC, 40% duty cycle</td>
<td>— 16.6 4.0 4.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Processes

MIG (GMAW) • Flux-cored (FCAW)

Comes complete with

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

• Flow gauge regulator and gas hose for argon or AR/CO2 mix, two 0.8 mm (.030 in.) contact tips, Hobart® spool of 0.8 mm (.030 in.) solid wire, hook-and-loop cord wraps and material thickness gauge (229895)

Most popular accessories

• Spoolmate® 100 300371
• Spoolmate® 150 301272
(Millermatic 211 only)
• Running Gear/Cylinder Rack 301239
• Protective Cover 301262
• V-Knurled Drive Roll 202926

Auto-Set™ is activated (211: 0.6/0.8/0.9 mm [.024/.030/.035 in.]), a blue light shows Auto-Set is activated
Millermatic® 252

See literature DC/12.49

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Max. 13 mm (1/2 in.)</th>
<th>Max. 9.5 mm (3/8 in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. 0.8 mm (22 ga.)</td>
<td></td>
<td>Min. 1.9 mm (14 ga.)</td>
</tr>
</tbody>
</table>

Aluminum welding uses optional Spoolmatic 15A or 30A spool gun.

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, burnback, 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.

Recommended aluminum solution

Spoolmatic 15A (195156) or 30A (130831).

Model/Stock Number | Amperage Range | Rated Output | Amps Input at Rated Output, 60 Hz | Wire Feed Speed | Wire Type and Diameter 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>(907321) 200(208)/230 V</td>
<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>1.3–17.8 m/min. (50–700 ipm)</td>
<td>Solid steel 0.6–1.2 mm (.023–.045 in.)</td>
<td>H: 762 mm (30 in.)</td>
<td>94 kg (205 lb.)</td>
</tr>
<tr>
<td>(907322) 230/460/575 V</td>
<td>250 A at 28 VDC, 40% duty cycle</td>
<td>– 46 23 18 9.5 7.5 (at 60% duty cycle)</td>
<td></td>
<td></td>
<td>Stainless Steel 0.6–1.2 mm (.023–.045 in.)</td>
<td>W: 483 mm (19 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored 0.8–1.2 mm (.030–.045 in.)</td>
<td>D: 1,016 mm (40 in.)</td>
<td></td>
</tr>
</tbody>
</table>

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

Questions? Hobart is here to help.

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.
Millermatic® 255

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

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.

**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.

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**Welding Capability**

<table>
<thead>
<tr>
<th>Material</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>0.6 mm (24 ga.)</td>
<td>1.2 mm (18 ga.)</td>
</tr>
<tr>
<td>Aluminum</td>
<td>0.8–1.2 mm (.030–.045 in.)</td>
<td></td>
</tr>
</tbody>
</table>

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

**Recommended aluminum solution** XR-Aluma-Pro™ push-pull gun

**Stock Number** (907734) 208–240 V

<table>
<thead>
<tr>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20–350</td>
<td>230 A at 25.5 V, 60% duty cycle</td>
<td>44.0 39.5 9.5 7.2</td>
<td>1.3–20 m/min. (50–800 ipm)</td>
<td>Solid steel</td>
<td>0.6–1.2 mm (.023–.045 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stainless steel</td>
<td>0.6–1.2 mm (.023–.045 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aluminum</td>
<td>0.9–1.2 mm (.035–.047 in.)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored</td>
<td>0.8–1.2 mm (.030–.045 in.)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H: 489 mm (19.24 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>W: 349 mm (13.75 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 667 mm (26.25 in.)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>38 kg (84 lb.)</td>
<td></td>
</tr>
</tbody>
</table>
Built-in pulsed MIG programs. All programmed information is restored after each power up — steel/stainless steel/aluminum/metal core/silicon bronze.

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

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

Trigger program select increases productivity by eliminating the need to go back to machine to change weld settings. Simply tap gun trigger to select the program.

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

Heavy-duty aluminum four-drive-roll system.

Uses 102, 203 or 305 mm (4-, 8- or 12-inch) spools.

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

Optional demo cable kit (sold separately) powers the display through USB to train users in a quiet conference room or showroom versus connecting to shop power in a noisy work environment.

Most popular accessories
- MDX®-250 EZ-Select™ MIG Gun 1770047
- Bernard® MIG Guns
- Spoolmate® 200 Spool Gun
- Spoolmate® Spool Gun (non-Pro gun only)
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns
- XR™-Pistol-Pro Air-Cooled Push-Pull Guns

Easy-to-understand interface with 178 mm (7 in.) 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

Single- or three-phase input power provides versatility to utilize any North American power (208, 240, 460, 575 V).

Input voltage selection switch located in the wire drive compartment provides the ability to manually switch input voltage.

Recommended aluminum solution XR-Aluma-Pro™ push-pull gun.
### Models

<table>
<thead>
<tr>
<th>Power Source Only Stock Number</th>
<th>XR-AlumaFeed SuitCase Feeder</th>
<th>XR-Aluma-Pro® Push-Pull MIG Gun</th>
<th>XR™-Pistol Grip Push-Pull MIG Gun</th>
<th>Industrial MIG 4/0 Kit</th>
<th>Coolmate™ with Coolant</th>
<th>Cart</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlumaPower 350 MPa (907420) 208–575 V (907420001) 208–575 V with auxiliary power</td>
<td>(301593), CE (301567) 7.6 m (25 ft.) air-cooled — — —</td>
<td>— 9 m (30 ft.) air-cooled — — —</td>
<td>— — —</td>
<td>— — —</td>
<td>— — —</td>
<td>— —</td>
</tr>
<tr>
<td>AlumaPower 450 MPa (907483) 230/460 V w/auxiliary power</td>
<td>(301593), CE (301567) 7.6 m (25 ft.) air-cooled — With Dinse connectors — — —</td>
<td>— — —</td>
<td>— — —</td>
<td>— — —</td>
<td>— — —</td>
<td>— —</td>
</tr>
</tbody>
</table>

**Model**

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Amp/Volt Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz 208 V 230 V 400 V 460 V 575 V</th>
<th>KVA</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlumaPower 350 MPa</td>
<td>Three-phase</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4</td>
<td>36.1</td>
<td>20.6</td>
<td>17.8</td>
<td>14.1</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>
<td>60.8</td>
<td>54.6</td>
<td>29.7</td>
<td>24.5</td>
<td>19.9</td>
</tr>
<tr>
<td>AlumaPower 450 MPa</td>
<td>Three-phase</td>
<td>15–600 A 10–38 V</td>
<td>450 A at 36.5 VDC, 100% duty cycle</td>
<td>—</td>
<td>49.4</td>
<td>—</td>
<td>27.2</td>
<td>23.6</td>
</tr>
<tr>
<td>XR-AlumaFeed SuitCase Feeder</td>
<td>14-pin compliant, but only operates synergically w/MPa power sources</td>
<td>24 VAC, 5 A, 50/60 Hz</td>
<td>400 A at 100% duty cycle System duty cycle is limited to gun rating</td>
<td>1.3–23 m/min. (50–900 ipm)</td>
<td>0.9–1.6 m (3.35–5.16 in.)</td>
<td>Requires wire kit (230708) for gun and drive roll kit (268950) for control box to run 1.6 mm (1/16 in.) wire</td>
<td>305 mm (12 in.)</td>
<td>H: 394 mm (15.5 in.) W: 229 mm (9 in.) D: 533 mm (21 in.)</td>
</tr>
</tbody>
</table>
Deltaweld® Systems  
See literature DC/16.5

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

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

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

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

Old Deltaweld® System  |  New Deltaweld® System
Time spent assembling old Deltaweld package  |  Time spent assembling new Deltaweld package

3 HOURS  VS  14 MINUTES

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

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

Deltaweld® Power Sources

Two power source choices

- **Deltaweld 350** has auxiliary power standard and optional 14-pin receptacle and meters for use with legacy feeders.
- **Deltaweld 500** has auxiliary power and meters standard and an optional 14-pin receptacle. It adds more power (500 amps at 100 percent duty cycle) and a dedicated gouge mode for up to 9.5 mm (3/8 in.) carbons.

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

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

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

Welding Intelligence*: Get more done, produce higher-quality welds and control costs with Insight Core (factory-installed option on select models). Gives owners/managers visibility of welder productivity, so they can make informed decisions to drive improvements.
Intellx™ Wire Feeders

Dedicated wire feeder options

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

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

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

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

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

Intellx™ Pro Swingarc™

Single- and dual-wire models with 3.7 or 4.9 m (12 or 16 ft.) booms are sized to accommodate a variety of weld cell layouts. Counterbalance design makes it easy to position boom and 360-degree rotation and 60-degree lift angle maximize work area.

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

| Intellx Pro Swingarc 3.7 m (12 ft.) Single | Intellx Pro Swingarc 3.7 m (12 ft.) Dual | Intellx Pro Swingarc 4.9 m (16 ft.) Single |
| (301556) Boom | (301557) Boom | (301558) Boom |
| (301552) ROI | (301553) ROI | (301552) ROI |
| (301554) Wire Drive | (301555) Wire Drive | (301554) Wire Drive |

### Power Source Only/Stock Number

#### Most Popular Models

<table>
<thead>
<tr>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Deltaweld 350</strong> (907747)</td>
<td>20–400 A 10–38 V</td>
<td>300 A at 29 VDC, 100% duty cycle 29.3 26.5 14.6 16.9</td>
<td>It: 586 mm (22.95 in.) 304 mm (12 in.) 260 mm (10 in.)</td>
<td>52.2 kg (115 lb.)</td>
</tr>
<tr>
<td><strong>Deltaweld 350/500</strong> (907785)</td>
<td>20–400 A 10–38 V</td>
<td>300 A at 29 VDC, 100% duty cycle 29.3 26.5 14.6 16.9</td>
<td>It: 586 mm (22.95 in.) 304 mm (12 in.) 260 mm (10 in.)</td>
<td>65.8 kg (145 lb.)</td>
</tr>
<tr>
<td><strong>Deltaweld 500</strong> (907786)</td>
<td>30–650 A 10–44 V</td>
<td>500 A at 39 VDC, 100% duty cycle 64.2 58.1 30.4 24.8 24.2 21.7</td>
<td>It: 586 mm (22.95 in.) 304 mm (12 in.) 260 mm (10 in.)</td>
<td>52.2 kg (115 lb.)</td>
</tr>
</tbody>
</table>

#### Heavy industrial

- **MIG (GMAW) + Flux-cored (FCAW)**
- **Accu-Pulse® MIG (GMAW-P)** with Intellx Pro feeder
- Air carbon arc gouging (CAC-A) with Deltaweld 500

**MIGRunner® packages include**

- Deltaweld power source 350: 907747
  500: 907785 or 907786
- Intellx OR Intellx Pro single-wire or dual-wire feeder
- Bernard® BTB Gun(s) (350: 300 A OR 500: 400 A) and 0.9/1.2 mm (.035/.045 in.) V-groove drive rolls
- Factory-installed Deltaweld running gear with cable holder, gun holders, and chains for gas cylinders
- Cart accessory kit consisting of flowmeter regulator(s) with 1.5 m (5 ft.) gas hose(s). 3 m (10 ft.) 4/0 feeder weld cable with lugs, 4.5 m (15 ft.) work cable with 600-amp C-clamp, and 2.7 m (9 ft.) ArcConnect cable
- Quick-setup guide and video

**Most popular accessories**

- Bernard® MIG Guns
- Deltaweld 350/500 Running Gear 301523
- Industrial MIG 4/0 Kits with lugs (stationary packages only)
- ArcConnect Control/Motor Cables 280471099 2.7 m (9 ft.) 280471101 4.6 m (15 ft.) 280471025 7.6 m (25 ft.) 280471050 15.2 m (50 ft.) 280471075 29.9 m (75 ft.) 280471100 30.5 m (100 ft.)
- Cart Accessory Kit 301528 (see above for contents)
- Note: For dual-wire feeder kit both 301528 and 301579 are required.
- Feeder Swivel Kit 301533
- Bernard® MIG Guns
- MIGRunner® packages include
- Swingpak™ Base 183997
- Single/Dual Spool Carrier 300353 For 1.2 m (4 ft.) post 300352 For 1.8 m (6 ft.) post

**Deltaweld Power Source Dimensions**

<table>
<thead>
<tr>
<th>(Height x Width x Depth)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>W: 390 mm (15.35 in.)</td>
<td>27 kg (60 lb.)</td>
</tr>
<tr>
<td>H: 568 mm (22.36 in.)</td>
<td>64.2 kg (145 lb.)</td>
</tr>
<tr>
<td>D: 876 mm (34.5 in.)</td>
<td>52.2 kg (115 lb.)</td>
</tr>
</tbody>
</table>
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.

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.

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 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>A</td>
<td>B</td>
<td>D</td>
</tr>
<tr>
<td>Gap Filing</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>D</td>
</tr>
<tr>
<td>Out-of-Position Welds</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>Low Spatter</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>Thick Metals</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>C</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Thin Metals</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>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></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 process. A “blank” rating indicates that the process is not recommended for that application. Accu-Pulse is the most popular process for majority of industrial welding applications. Versa-Pulse is a fast, low heat, low spatter process designed for thin material applications. RMD is a low heat-modified short-circuit process designed to fill gaps with thin-material applications. High-deposition MIG provides increased deposition rates over standard spray on thicker materials.

Note: As the technological advances offered by Continuum extend beyond the capability of Axcess® systems, the two systems are not compatible. Continuum systems are designed to allow future upgradability, to expand with your operation’s needs.

Table: Continuum Processes

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Amperage/ Voltage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz, 3-Phase</th>
<th>Max. Open-Circuit Voltage</th>
<th>Net Weight (power source only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuum 350</td>
<td>(907636) 230-575 V Machine only (907636001) 230-575 V w/running gear (907645) 400 V, CE</td>
<td>20-400 A, 10-44 V</td>
<td>300 A at 34 VDC, 100% duty cycle</td>
<td>36.7 0-1* 0-1* 0-1* 0-1* 0-1* 0.8* 0.17*</td>
<td>75 VDC</td>
<td>57.6 kg (127 lb.)</td>
</tr>
<tr>
<td>Continuum 500</td>
<td>(907640) 230-575 V Machine only (907640001) 230-575 V w/running gear (907648) 400 V, CE</td>
<td>20-600 A, 10-44 V</td>
<td>500 A at 40 VDC, 100% duty cycle</td>
<td>34.9 0-1* 0-1* 0-1* 0-1* 0-1* 0.8* 0.17*</td>
<td>75 VDC</td>
<td>67.1 kg (148 lb.)</td>
</tr>
</tbody>
</table>

<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 Diameter Capacity</th>
<th>Max Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuum Feeder only</td>
<td>(301195) Single-wire model (301195010) Single-wire model, CE (301199) Dual-wire model (301199010) Dual-wire model, CE</td>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>Standard: 1.3-25.4 m/min. (50-1000 IPM)</td>
<td>0.9-2.0 mm (.035-5/64 in.)</td>
<td>457 mm (18 in.), 27 kg (60 lb.)</td>
<td>[351 mm (13.812 in.) Single: 414 mm (16.312 in.) Dual: 432 mm (17 in.)</td>
<td>[275 mm (10.8 in.)]</td>
</tr>
</tbody>
</table>

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

Most popular accessories
- Bernard™ MIG Guns
- Insight Centerpoint™ Software
- Continuum Running Gear/Cylinder Rack 301264
- Continuum Integrated Cooler 301214
- Mounts to bottom of Continuum power source. Does not require external power.
- Continuum Control/Motor Cables 263368003 0.9 m (3 ft.) 263368015 4.6 m (15 ft.) 263368020 6.1 m (20 ft.) 263368025 7.6 m (25 ft.) 263368050 15 m (50 ft.) 263368080 24.4 m (80 ft.) 263368100 30.5 m (100 ft.)
- Industrial MIG 4/0 Kit 300390
- Continuum Feeders 301195 Single 301195010 Single, CE 301199 Dual 301199010 Dual, CE
- Continuum Swingarc™ Boom Single 301219 2.4 m (8 ft.) 301220 3.7 m (12 ft.) 301221 3.9 m (16 ft.)
- RIO Single 301227, CE Boom Dual 3.7 m (12 ft.) 301223 RIO Dual 301434, CE
- Pipe Post 149838 1.2 m (4 ft.) 149839 1.8 m (6 ft.)

*While idling.
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.

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

**Improve work environment and reduce spatter.** Versa-Pulse and Accu-Pulse processes reduce fume generation, and by precisely controlling the welding arc they also reduce spatter size and quantity. Fume generation can be reduced up to 50 percent over traditional CV MIG.  
- **Versa-Pulse** is a fast, low-heat, low-spatter process for high-speed automation on thin materials and is great for gap filling.  
- **Accu-Pulse** is better for out-of-position welds, provides higher deposition rates and is designed for thicker materials than Versa-Pulse.

**Easy communication** from robot to power source. **Designed for easy integration** with fixed and flexible automation. **Fleet standardization.** Auto-Continuum can be used for both automation and hand-held applications.  
**Welding Intelligence:** Increase productivity, improve quality and manage costs.  
- **Insight Core** (standard) is a simplified, Internet-based welding information solution that reports cell productivity and weld parameter verification when it happens, reducing rework costs and improving quality  
- **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

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>IP Rating</th>
<th>Amps Input at Rated Output, 50/60 Hz, 3-Phase</th>
<th>KVA</th>
<th>KW</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>(907655) Ethert/® with auxiliary power (907660) Ethert/® CE</td>
<td>20–400 A, 10–44 V</td>
<td>350 A at 31.5 VDC, 100% duty cycle</td>
<td>IP23</td>
<td>3.6</td>
<td>21.8</td>
<td>20.8</td>
<td>18.8</td>
<td>14.6</td>
<td>14.4</td>
</tr>
<tr>
<td>Auto-Continuum 500</td>
<td>(907657) Ethert/® with auxiliary power (907661) Ethert/® CE</td>
<td>20–600 A, 10–44 V</td>
<td>500 A at 39 VDC, 100% duty cycle</td>
<td>IP23</td>
<td>58.7</td>
<td>34.9</td>
<td>33.2</td>
<td>28.9</td>
<td>23.3</td>
<td>23.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto-Continuum Wire Drive Motor Assembly</th>
<th>Stock Number</th>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>IP Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(301207) Left-hand drive, CE</td>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>IP23</td>
<td>Standard: 1.3–25.4 m/min. (50–1,000 ipm)</td>
<td>0.9–2.0 mm (.035–.045 in.)</td>
<td>H: 22.2 mm (0.875 in.)</td>
<td>W: 25.4 mm (1 in.)</td>
<td>D: 25.4 mm (1 in.)</td>
</tr>
<tr>
<td>(301208) Right-hand drive, CE</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
# Product Guide

## Wire Feeders

### Wire Types

<table>
<thead>
<tr>
<th>Power Source Required</th>
<th>CC/CV</th>
<th>ArcReach equipped</th>
<th>Wire Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flux-cored Dual-shld Self-shld Alum.</td>
</tr>
</tbody>
</table>

### Wire Diameter Capacity

<table>
<thead>
<tr>
<th></th>
<th>0.6–2.0 mm (.023–5/64 in.)</th>
</tr>
</thead>
</table>

### Special Features

<table>
<thead>
<tr>
<th></th>
<th>Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on basic model)</th>
</tr>
</thead>
</table>

### Typical Applications

<table>
<thead>
<tr>
<th></th>
<th>Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on 74S models)</th>
</tr>
</thead>
</table>

### Class MIG Pulsed MIG

<table>
<thead>
<tr>
<th></th>
<th>XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires</th>
</tr>
</thead>
</table>

### Heavy and light manufacturing, fabrication

<table>
<thead>
<tr>
<th></th>
<th>Control box, cables and wire drive motor assemblies for generic booms or fixed automation</th>
</tr>
</thead>
</table>

### 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.

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 does 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, and protects 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 can change wire while feeder is standing upright or laying down.

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 and Euro-adaptor 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 cable to purchase, maintain, string or unstring — saving time and money.

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™ connected to three-phase power or an ArcReach-equipped engine drive.

Additional features of ArcReach Smart Feeder

Delivers excellent synergic RMD® and pulsed MIG welding up to 61 meters (200 ft.) 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 30.5 meters (100 ft.) of the power source and control cords are acceptable. Requires power source with 14-pin connector.

ArcReach

Process
- MIG (GMAW) • Flux-cored (FCAW)
- RMD and pulsed MIG (GMAW-P) with ArcReach Smart Feeder

Suggested power sources
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.

For ArcReach SuitCase 8 and 12
- Dynasty® 280 DX Multiprocess
- Dimension® 650 / 650 ArcReach®
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series

For ArcReach Smart Feeder
- XMT® 350 FieldPro
  (requires three-phase power)
- Trailblazer® Series (ArcReach models only)
- Big Blue® Series (ArcReach models only)

For SuitCase 12RC (requires power source with 14-pin connector)
- Dimension® 650
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series

Suggested guns
- Bernard® Guns

Most popular accessories
- Extension Cables
  (for SuitCase 12RC only, 1 required)
- Flowmeter Kit 300343
- Shielding Gas Filter 195189
- Dinse 70 Series
  134460 Male
  136600 Female

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>IP Rating</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 (301457) Tweco®, CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14–48 VDC / 110 max. OCV</td>
<td>IP23</td>
<td>330 A at 60% duty cycle</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (.023–.052 in.) .08–2.0 mm (.030–.079 in.)</td>
<td>203 mm (8 in.), 6.4 kg (14 lb.)</td>
<td>Ht: 324 mm (12.75 in.), W: 184 mm (7.25 in), D: 457 mm (18 in.)</td>
<td>13 kg (28 lb.)</td>
</tr>
<tr>
<td>ArcReach SuitCase 12 (301456) Tweco®, CE</td>
<td>XMT 350 FieldPro or PipeWorx 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive</td>
<td>IP23</td>
<td>425 A at 60% duty cycle</td>
<td>0.9–1.1 mm (.035–.045 in.)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (.023–.052 in.) .08–2.0 mm (.030–.079 in.)</td>
<td>305 mm (12 in.), 20 kg (45 lb.)</td>
<td>Ht: 457 mm (18 in.), W: 229 mm (9 in.), D: 533 mm (21 in.)</td>
<td>15.9 kg (35 lb.)</td>
</tr>
<tr>
<td>ArcReach Smart Feeder (301177) Dinse, CE (300935) Tweco®, (300935002) Tweco® w/flowmeter XMT® 350 FieldPro or PipeWorx 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive</td>
<td>XMT 350 FieldPro or PipeWorx 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive</td>
<td>IP23</td>
<td>275 A at 60% duty cycle</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (.023–.052 in.) .08–2.0 mm (.030–.079 in.)</td>
<td>305 mm (12 in.), 15 kg (33 lb.)</td>
<td>Ht: 457 mm (18 in.), W: 330 mm (13 in.), D: 546 mm (21.5 in.)</td>
<td>23 kg (50 lb.)</td>
</tr>
<tr>
<td>SuitCase 12RC (301121) Tweco®, CE</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>IP23</td>
<td>425 A at 60% duty cycle</td>
<td>1.3–17.8 mpm (50–700 ipm)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (.023–.052 in.) .08–2.0 mm (.030–.079 in.)</td>
<td>305 mm (12 in.), 20 kg (45 lb.)</td>
<td>Ht: 394 mm (15.5 in.), W: 229 mm (9 in.), D: 533 mm (21 in.)</td>
<td>14.1 kg (31 lb.)</td>
</tr>
</tbody>
</table>
ArcReach® 16 Portable Feeder
See literature DC/18.98

Portable feeder that takes productivity, cost savings, and power to the next level for structural steel fabrication and erection.

ArcReach 16 Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Available with Bernard Gun:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BTB Gun 400 A</td>
</tr>
<tr>
<td></td>
<td>IronPro 450-15 gun</td>
</tr>
<tr>
<td></td>
<td>Remote voltage control (without a cord)</td>
</tr>
<tr>
<td></td>
<td>Gouge</td>
</tr>
<tr>
<td></td>
<td>Digital meters</td>
</tr>
<tr>
<td></td>
<td>Gas purge</td>
</tr>
<tr>
<td></td>
<td>Wire jog</td>
</tr>
<tr>
<td></td>
<td>Feeds 2.4 mm (3/32 in.) wire</td>
</tr>
<tr>
<td></td>
<td>Available with shop cart or field roller</td>
</tr>
</tbody>
</table>

Remote control of the power source without a cord. With an ArcReach 16 feeder and XMT 650 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.

Easy process changeover. Simply connect the ArcReach 16 wire feeder to your weld lead and you are ready to go. Switch between welding and gouging with a push of a button with no need to swap leads or disconnect the wire feeder with isolated outputs.

Integrated gouging stud on wire feeder. Isolated gouging stud allows easy connection for gouging at point of use, eliminating the need to disconnect the wire feeder and to swap leads.

Voltage-sensing feeder designed to run off of arc voltage. The ArcReach 16 operates on the arc voltage of almost any power source, but is best paired with an XMT 650 model.

Weld with up to 27.2 kg (60 lb.) spools and large diameter (2.4 mm [3/32 in.]) wire to minimize downtime and maximize productivity.

Easy mobility in the shop and on-site (optional shop cart and field roller). The ArcReach 16 wire feeder preassembled options include a shop cart and a field roller.

- **Shop cart** provides easy shop mobility with low clearance. Handle doubles as a cable holder.
- **Field roller** provides easy field mobility over pan decking and other surfaces. Designed for the environment with spool cover and IP23 rating. Includes spool cover, hanging bail and cable holder.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Available with Bernard Gun:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bernad® BTB Gun 400 A</td>
</tr>
<tr>
<td></td>
<td>IronPro™ 450-15 293039</td>
</tr>
</tbody>
</table>

**Bernard® IronPro™ 450-15**

Self-shielded gun designed for ironworkers and structural steel erectors to excel in the outdoors with large diameter self-shielded flux cored wire up to 2.4 mm (3/32 in.) — sealed trigger remains slag and spatter free for extended life and ergonomic design provides excellent access and maneuverability for hard-to-reach weld joints.

**Most popular accessories**
- Inline Filter 211989
- Wire Reel Assembly 108008
20 Series
Industrial Bench Feeders

70 Series
Heavy-Industrial
Bench Feeders

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

20 and 70 Series Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>20 Series</th>
<th>70 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Basic</td>
<td>Digital</td>
</tr>
<tr>
<td>Trigger hold</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Adjustable run-in control</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Automatic run-in control</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Digital meter(s)</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Remote voltage control</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Preflow/postflow</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Spot control</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Dual-wire models</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Rotatable drive assembly</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Accu-Mate™</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Dual schedule control</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Trigger program select</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>Trigger dual schedule</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>Sequence control</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>Weld programs</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>Trigger schedule select</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Push-pull capability</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Synergic pulsed MIG</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Profile Pulse™</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

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

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

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

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

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

Feeder include a 3 m (10 ft.) 14-pin interconnecting cord.

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

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

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

Adds features for weld control and programs, plus push-pull aluminum capabilities.

Optimized with Invision™ MPa or XMT® MPa power sources.

Adjustable run-in control for improved arc starts.

Dual schedule control allows the operator to switch between two preconfigured welding parameters without readjusting the machine, saving time and enhancing quality.

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

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

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

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

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

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.

*Requires wire kit (230708) to run 1.6 mm (1/16 in.) wire.
70 Series Remote Configurations

Wire Feeders

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

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

<table>
<thead>
<tr>
<th>Single-wire control box</th>
<th>Feeder Control Box</th>
<th>Wire drive motor assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>300881</td>
<td>S-74S, CE</td>
<td>300904</td>
</tr>
<tr>
<td>300882</td>
<td>S-74D, CE</td>
<td>300904</td>
</tr>
<tr>
<td>300738001</td>
<td>S-74 MPa Plus, CE</td>
<td>300904</td>
</tr>
</tbody>
</table>

Motor control cable

- Standard: 11 conductor
- MPa Plus: 14 conductor

Gun NOT included. Must be ordered separately.

Push-only wire drive motor assembly

- 300741001 Standard right-hand drive, CE
- 300741 MPa Plus right-hand drive, CE

Model/Stock Number

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Boom Size</th>
<th>Feeder Control Box</th>
<th>Model/Stock Number</th>
<th>Boom Size</th>
<th>Feeder Control Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>300741001</td>
<td>2.4 m (8 ft)</td>
<td>S-74S, CE</td>
<td>300741 MPa Plus</td>
<td>2.4 m (8 ft)</td>
<td>S-74 MPa Plus, CE</td>
</tr>
<tr>
<td>300741</td>
<td>2.4 m (8 ft)</td>
<td>S-74D, CE</td>
<td>300741 MPa Plus</td>
<td>2.4 m (8 ft)</td>
<td>S-74 MPa Plus, CE</td>
</tr>
<tr>
<td></td>
<td>3.7 m (12 ft)</td>
<td>S-74S, CE</td>
<td></td>
<td>3.7 m (12 ft)</td>
<td>S-74 MPa Plus, CE</td>
</tr>
<tr>
<td></td>
<td>3.7 m (12 ft)</td>
<td>S-74D, CE</td>
<td></td>
<td>3.7 m (12 ft)</td>
<td>S-74 MPa Plus, CE</td>
</tr>
<tr>
<td></td>
<td>4.9 m (16 ft)</td>
<td>S-74S, CE</td>
<td></td>
<td>4.9 m (16 ft)</td>
<td>S-74 MPa Plus, CE</td>
</tr>
<tr>
<td></td>
<td>4.9 m (16 ft)</td>
<td>S-74D, CE</td>
<td></td>
<td>4.9 m (16 ft)</td>
<td>S-74 MPa Plus, CE</td>
</tr>
</tbody>
</table>

Model/Stock Number

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<tr>
<th>Model/Stock Number</th>
<th>Boom Size</th>
<th>Feeder Control Box</th>
<th>Model/Stock Number</th>
<th>Boom Size</th>
<th>Feeder Control Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-745S</td>
<td>2.4 m (8 ft)</td>
<td>S-74S, CE</td>
<td>DS-74512</td>
<td>3.7 m (12 ft)</td>
<td>S-74S, CE</td>
</tr>
<tr>
<td>DS-74D</td>
<td>2.4 m (8 ft)</td>
<td>S-74D, CE</td>
<td>DS-74512</td>
<td>3.7 m (12 ft)</td>
<td>S-74D, CE</td>
</tr>
<tr>
<td>DS-74MPa Plus-8</td>
<td>2.4 m (8 ft)</td>
<td>S-74MPa Plus-8</td>
<td>DS-74512</td>
<td>3.7 m (12 ft)</td>
<td>S-74MPa Plus-8</td>
</tr>
<tr>
<td></td>
<td>3.7 m (12 ft)</td>
<td>S-74MPa Plus-8</td>
<td></td>
<td>3.7 m (12 ft)</td>
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<td>4.9 m (16 ft)</td>
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<td>S-74MPa Plus-8</td>
<td></td>
<td>4.9 m (16 ft)</td>
<td>S-74MPa Plus-8</td>
</tr>
</tbody>
</table>

Models in 2.4 m (8 ft), 3.6 m (12 ft) or 4.8 m (16 ft) lengths maximize output.

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

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

Standard 3 m (10 ft) 14-pin interconnecting cord included.

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

Heavy industrial

Wire Feeders

Wire Feeders

- 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

- Swingarc™ Base 183997
- Pipe Post with 45 mm (18 in.) Base 149838 1.2 m (4 ft)
- Single/Dual Spool Carrier (pipe post not included) 300353 For 1.2 m (4 ft) post 300352 For 1.8 m (6 ft) post

Designed to put spool hub assembly at 914 mm (36 in.) from base for easier wire spool installation.

70 Series Swingarc™

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.

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

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Standard 3 m (10 ft) 14-pin interconnecting cord included.

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Heavy industrial

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Designed to put spool hub assembly at 914 mm (36 in.) from base for easier wire spool installation.

603.0x774.0
[Image -1x22 to 603x774]
### MIGmatic™ M-Series MIG Guns
See literature AY/15.0

Upgrade your M-100 and M-150 MIG guns to AccuLock™ MDX™ consumables with a conversion diffuser.

#### MIGmatic™ Conversion Kit

AccuLock™ MDX™ Conversion Kit 1880269

Kit features a conversion diffuser to consolidate MIG nozzles and contact tips to AccuLock MDX. Includes diffuser (1070115), 12.7 mm (1/2 in.) flush nozzle (NS-M1200C), five 0.8 mm (.030 in.) contact tips (T-M030), five 0.9 mm (.035 in.) contact tips (T-M035) and a consumables storage box.

#### MIGmatic™ M-100 and M-150 MIG Guns

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

**Suggested power sources**
- Millermatic® 141/211 (M-100/M-150)
- Multimatic® 200 (M-150)
- Multimatic® 215 (M-100/M-150)
- Multimatic® 220 (M-100/M-150)

**Most popular accessories**
- MIGmatic M-Series Consumable Kits 234607  0.6 mm (.023 in.)
- 234608  0.8 mm (.030 in.)
- 234609  0.9 mm (.035 in.)
- AccuLock™ MDX™ Conversion Kit 1880269

Allows MIGmatic M-100 and M-150 MIG guns to upgrade to AccuLock™ MDX™ nozzles and tips.

#### Product Guide

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

#### MIGmatic™ Consumable Kits

- 234607: 0.6 mm (.023 in.)
- 234608: 0.8 mm (.030 in.)
- 234609: 0.9 mm (.035 in.)

**Product Key**

- Light industrial
- Industrial
- Heavy industrial

- Designed for this process
- Capable of this process

*Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.
MDX™ Series MIG Guns

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

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

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

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

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

AccuLock™ MDX™ Consumables

See literature AY/15.5

Flawless wire feeding path. Front-loading liner is locked 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 AccuLock S consumables for increased durability and longer life when guns are used in pulsed welding or more industrial applications.

<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>3 m (10 ft.)</td>
<td>100 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.8–0.9 mm (.030–.035 in.)</td>
<td>AccuLock MDX</td>
</tr>
<tr>
<td></td>
<td>(1770035)</td>
<td>3 m (10 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.8–0.9 mm (.030–.035 in.)</td>
<td>AccuLock MDX</td>
</tr>
<tr>
<td></td>
<td>(1770036)</td>
<td>3.7 m (12 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.8–0.9 mm (.030–.035 in.)</td>
<td>AccuLock MDX</td>
</tr>
<tr>
<td></td>
<td>(1770037)</td>
<td>4.6 m (15 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.8–0.9 mm (.030–.035 in.)</td>
<td>AccuLock MDX</td>
</tr>
<tr>
<td></td>
<td>(1770038)</td>
<td>4.6 m (15 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.9–1.2 mm (.035–.045 in.)</td>
<td>AccuLock S</td>
</tr>
<tr>
<td></td>
<td>(1770041)</td>
<td>3 m (10 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.9–1.2 mm (.035–.045 in.)</td>
<td>AccuLock S</td>
</tr>
<tr>
<td></td>
<td>(1770042)</td>
<td>3.7 m (12 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.9–1.2 mm (.035–.045 in.)</td>
<td>AccuLock S</td>
</tr>
<tr>
<td></td>
<td>(1770043)</td>
<td>4.6 m (15 ft.)</td>
<td>250 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.9–1.2 mm (.035–.045 in.)</td>
<td>AccuLock S</td>
</tr>
</tbody>
</table>

MDX-250 Nozzles (mm)

- NS-M1200B: 12.7 ID, flush, brass
- NS-M1200C: 12.7 ID, flush, copper
- NS-MFLX: Gasless nozzle

MDX-250/250 EZ-Select Consumable Kits

Kits include ten contact tips, one nozzle, one diffuser, and a consumable storage box. Both kits for MDX-250 gun also include one neck insulator.
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.

- **3.7 m (12 ft.) 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.

- **6 m (20 ft.) 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.

- **6 m (20 ft.) 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.

- **6 m (20 ft.) 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 | 1.7–19.9 m/min. (5–625 ipm) Wire speed dependent on power source used | Aluminum: 0.8–0.9 mm (0.030–0.035 in.)<br>Solid steel: 0.6–0.9 mm (0.023–0.035 in.)<br>Stainless: 0.6–0.9 mm (0.023–0.035 in.) | 102 mm (4 in.) | L: 291 mm (11.5 in.)<br>W: 203 mm (8 in.)<br>H: 291 mm (11.5 in.) | 2.7 kg (6 lb.)<br>4.1 kg (9 lb.) with case |
**Spoolmate 150** (301272) | 150 A at 60% duty cycle | 2.9–18.1 m/min. (115–715 ipm) Wire speed dependent on power source used | Aluminum: 0.8–0.9 mm (0.030–0.035 in.)<br>Solid steel: 0.8–0.9 mm (0.030–0.035 in.)<br>Stainless: 0.8–0.9 mm (0.030–0.035 in.) | 102 mm (4 in.) | L: 291 mm (11.5 in.)<br>W: 203 mm (8 in.)<br>H: 291 mm (11.5 in.) | 3.2 kg (7.3 lb.)<br>5 kg (11 lb.) |
**Spoolmate 200** (300497) | 160 A at 60% duty cycle | 1.8–22.2 m/min. (70–875 ipm) Wire speed dependent on power source used | Aluminum: 0.8–0.9 mm (0.030–0.035 in.)<br>Solid steel: 0.6–0.9 mm (0.023–0.035 in.)<br>Stainless: 0.6–0.9 mm (0.023–0.035 in.) | 102 mm (4 in.) | L: 291 mm (11.5 in.)<br>W: 203 mm (8 in.)<br>H: 291 mm (11.5 in.) | 4.1 kg (9.1 lb.) |
**Spoolmate 3035** (195016) | 150 A at 60% duty cycle, 200 A at 60% duty cycle with optional heavy-duty head tube | 2.9–18.1 m/min. (115–715 ipm) | Aluminum: 0.8–0.9 mm (0.030–0.035 in.)<br>Solid steel: 0.6–0.9 mm (0.023–0.035 in.)<br>Stainless: 0.6–0.9 mm (0.023–0.035 in.) | 102 mm (4 in.) | L: 291 mm (11.5 in.)<br>W: 57 mm (2.25 in.)<br>H: 203 mm (8 in.) | 2.7 kg (6 lb.)<br>4.1 kg (9 lb.) with case |
Industrial
Use with CC/CV, DC power sources.

Processes
• MIG (GMAW) with aluminum and other soft alloy wires
• MIG (GMAW) with hard wires
• Pulsed MIG (GMAW-P) with optional pulsing power source

Suggested power sources
• Millermatic® 212 Auto-Set™
• Millermatic® 252/255
• Millermatic® 350P/350P Aluminum — except Spoolmatic Pro
• Bobcat™ Series — requires WC-115A with contactor (137546011)
These power sources require WC-24 control (137549)
• AlumaPower™ MPa
• CP-302
• Deltaweld® Series
• Invision™ MPa
• Dimension™ Series
• XMT® Series
• Trailblazer® Series

Most popular accessories
• WC-115A 137546
• WC-115A with contactor 137546011
• WC-24 137549

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 4.6 or 9 m (15 or 30 ft.) 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 tubes are common with the XR-Aluma-Pro* and XR™-Pistol-Pro guns. 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 1.6 mm (1/16 in.) wire.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Current Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Gun Only Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoolmatic (195156)</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm) Wire speed dependent on control or Millermatic used</td>
<td>Aluminum* (0.8–1.6 mm (.030–1/16 in.) Hard wire (0.8–1.1 mm (.030–.045 in.)))</td>
<td>102 mm (4 in.)</td>
<td>H: 260 mm (10.25 in.) W: 64 mm (2.5 in.) L: 384 mm (15.125 in.)</td>
<td>1.3 kg (2.9 lb.)</td>
</tr>
<tr>
<td>Spoolmatic Pro (301147)</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm) Wire speed dependent on control or Millermatic used</td>
<td></td>
<td></td>
<td>H: 273 mm (10.75 in.) W: 64 mm (2.5 in.) L: 390 mm (15.375 in.)</td>
<td>1.4 kg (3.0 lb.)</td>
</tr>
</tbody>
</table>

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 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 simple 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 simple 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 1.6 mm (1/16 in.) 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>XR-Aluma-Pro Lite (Air-cooled)</td>
<td>(300948)</td>
<td>175 A at 60% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminum 0.8-1.2 mm (.030–.047 in.)</td>
<td>H: 102 mm (4 in.) W: 48 mm (1.9 in.) L: 381 mm (15 in.)</td>
<td>0.9 kg (2.0 lb.)</td>
</tr>
<tr>
<td>XR-Aluma-Pro (Air-cooled)</td>
<td>(301569)</td>
<td>300 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminum 0.8-1.6 mm (.030–.16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>1.1 kg (2.5 lb.)</td>
</tr>
<tr>
<td>XR-Aluma-Pro (Water-cooled)</td>
<td>(301572)</td>
<td>400 A at 100% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm)</td>
<td>Aluminum** 0.8-1.6 mm (.030–.16 in.)</td>
<td>H: 187 mm (7.375 in.) W: 48 mm (1.875 in.) L: 270 mm (10.625 in.)</td>
<td>1 kg (2.2 lb.)</td>
</tr>
<tr>
<td>XR-Pistol (Air-cooled)</td>
<td>(198127)</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminum 0.8-1.2 mm (.030–.047 in.)</td>
<td>H: 102 mm (4 in.) W: 48 mm (1.9 in.) L: 381 mm (15 in.)</td>
<td>0.9 kg (2.0 lb.)</td>
</tr>
<tr>
<td>XR-Pistol (Water-cooled)</td>
<td>(198129)</td>
<td>400 A at 100% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm)</td>
<td>Aluminum** 0.8-1.6 mm (.030–.16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>1.3 kg (2.9 lb.)</td>
</tr>
<tr>
<td>XR-Pistol-Pro (Air-cooled)</td>
<td>(300783)</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminum 0.8-1.2 mm (.030–.047 in.)</td>
<td>H: 102 mm (4 in.) W: 48 mm (1.9 in.) L: 381 mm (15 in.)</td>
<td>0.9 kg (2.0 lb.)</td>
</tr>
<tr>
<td>XR-Pistol-Pro (Water-cooled)</td>
<td>(300787)</td>
<td>400 A at 100% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm)</td>
<td>Aluminum** 0.8-1.6 mm (.030–.16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>1.1 kg (2.4 lb.)</td>
</tr>
</tbody>
</table>
## Multimatic 200 and 215

**Welding Capability**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Mode/Process</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Wire Feed Speed</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multimatic 200</strong> (907518)</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>1.8–10.8 m/min. (70–425 ipm)</td>
<td>90 VDC</td>
<td>H: 368 mm (14.5 in.) W: 248 mm (9.75 in.) D: 432 mm (17 in.)</td>
<td>13.2 kg (29 lb.)</td>
</tr>
<tr>
<td>CC: TIG</td>
<td>120 V</td>
<td>5–150</td>
<td>150 A at 18 V, 30% duty cycle</td>
<td>27.0 – 3.3</td>
<td>–</td>
<td>90 VDC (22–25 VDC, sense voltage for stick and Lift-Arc™ TIG)</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC: Stick</td>
<td>120 V</td>
<td>20–200</td>
<td>100 A at 24 V, 35% duty cycle</td>
<td>24.0 – 2.9</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multimatic 215</strong> (907683)</td>
<td>CV: MIG/flux-cored</td>
<td>120 V</td>
<td>30–125</td>
<td>110 A at 19.5 V, 60% duty cycle</td>
<td>23.0 – 2.8</td>
<td>1.5–15.2 m/min. (60–600 ipm)</td>
<td>58 VDC</td>
<td>H: 318 mm (12.5 in.) W: 286 mm (11.25 in.) D: 521 mm (20.5 in.)</td>
<td>17.2 kg (38 lb.)</td>
</tr>
<tr>
<td>CC: TIG</td>
<td>120 V</td>
<td>20–150</td>
<td>140 A at 15.6 V, 40% duty cycle</td>
<td>24.6 – 3.0</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC: Stick</td>
<td>120 V</td>
<td>20–210</td>
<td>190 A at 17.6 V, 20% duty cycle</td>
<td>18.0</td>
<td>16.7</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Weighing only 13 kg (29 lb.) (200) or 17 kg (38 lb.) (215),** these lightweight MIG, stick and TIG welders provide portability on the job.

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

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

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

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

**Multimatic 215 model additional features**

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

**Angled cast-aluminum drive system** provides smooth feeding and the ability to use 3, 3.7 or 4.6 m (10, 12 or 15 ft.) guns.
Multimatic® 220 AC/DC

See literature DC/12.65

Multivoltage plug (MVP™) allows connection to common 120- and 240-volt power receptacles without the use of any tools — simply choose the plug that fits the receptacle and connect to the power cord.

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

### Welding Capability

<table>
<thead>
<tr>
<th>MIG Mild Steel</th>
<th>MIG Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. 9.5 mm (3/8 in.)</strong></td>
<td><strong>Max. 9.5 mm (3/8 in.)</strong></td>
</tr>
<tr>
<td><strong>Min. 0.6 mm (24 ga.)</strong></td>
<td><strong>Min. 1.5 mm (16 ga.)</strong></td>
</tr>
<tr>
<td><strong>Max. 6.4 mm (1/4 in.)</strong></td>
<td><strong>Max. 0.6 mm (24 ga.)</strong></td>
</tr>
<tr>
<td><strong>Max. 0.6 mm (24 ga.)</strong></td>
<td><strong>Min. 0.6 mm (24 ga.)</strong></td>
</tr>
</tbody>
</table>

**Min. 0.6 mm (24 ga.)**

**Max. 6.4 mm (1/4 in.)**

**Max. 9.5 mm (3/8 in.)**

**MIG gun.**

### Light Industrial

**Processes**

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

**Comes complete with**

- 3 m (10 ft.) 100-amp MDX™-100 MIG gun
- 4 m (13 ft.) cable with electrode holder and 25 mm Dinse-style connector
- 3.8 m (12.5 ft.) Weldcraft® A-150 (WP-17) TIG torch with 25 mm Dinse-style connector
- 3 m (10 ft.) work cable with clamp and 25 mm Dinse-style connector
- 2 m (6.5 ft.) power cord with MVP plugs for 120 V and 240 V
- RFCS-14 HD foot control with 6 m (20 ft.) cord
- Quick Select™ drive roll for 0.6 mm (.024 in.) or 0.8/0.9 mm (.030/.035 in.) solid wire, and 0.8/0.9 mm (.030/.035 in.) 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)

**Most popular accessories**

- Spoolmate® Spool Guns
  - 300371 Spoolmate 100
  - 301272 Spoolmate 150
- Dual Cylinder Rack Cart
- Protective Cover
- Wireless Remote Foot Control
- Running Cylinder Rack
- Dual Cylinder Rack Conversion Kit

**Rated Output**

<table>
<thead>
<tr>
<th>Power</th>
<th>120 V</th>
<th>240 V</th>
<th>KVA</th>
<th>KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV: MIG/flux-cored</td>
<td>30–125 A</td>
<td>105 A at 19.2 V, 60% duty cycle</td>
<td>23.3</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>200 A at 24 V, 20% duty cycle</td>
<td>–</td>
<td>27.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>170 A at 21.5 V, 40% duty cycle</td>
<td>–</td>
<td>21.5</td>
</tr>
<tr>
<td>CC: TIG</td>
<td>120 V</td>
<td>130 A at 15.2 V, 40% duty cycle</td>
<td>24.0</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>210 A at 18.4 V, 20% duty cycle</td>
<td>–</td>
<td>22.4</td>
</tr>
<tr>
<td>CC: Stick</td>
<td>120 V</td>
<td>90 A at 23.8 V, 40% duty cycle</td>
<td>24.5</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>200 A at 28.4 V, 15% duty cycle</td>
<td>–</td>
<td>31.3</td>
</tr>
</tbody>
</table>

**Wire Feed Speed**

<table>
<thead>
<tr>
<th>Wire Feed Speed</th>
<th>DC Feed</th>
<th>Max. Open-Circuit Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5–15.2 m/min.</td>
<td>45 VDC</td>
<td>H: 445 mm (17.5 in.)</td>
</tr>
<tr>
<td>(50–600 ipm)</td>
<td></td>
<td>W: 286 mm (11.25 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D: 546 mm (21.5 in.)</td>
</tr>
</tbody>
</table>

**Net Weight**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H: 445 mm (17.5 in.)</td>
<td>25.3 kg (56 lb.)</td>
</tr>
<tr>
<td>W: 286 mm (11.25 in.)</td>
<td></td>
</tr>
<tr>
<td>D: 546 mm (21.5 in.)</td>
<td></td>
</tr>
</tbody>
</table>
**Multimatic® 235**

See literature DC/14.0

---

**Easy-to-understand interface** with 109 mm (4.3 in.) color LCD display and intuitive connection setup images.

**Weighing only 28.6 kg (63 lb.)** (machine only), this lightweight MIG, stick and DC TIG welder provides portability on the job.

**Compatible with Spoolmate™ 100, 150 and 200,** and Spoolmatic 15A and 30A spool guns to offer a variety of aluminum welding solutions.

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

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

Uses 102, 203 or 305 mm (4, 8 or 12 in.) spools.

**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, 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

**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.

**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 stick and TIG adjustments** for increased control including adjustable DIG control for stick and 0.1–150 pulses per second for DC pulsed TIG.

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

---

**Welding Capability**

- Aluminum welding uses optional spool guns.
- TIG welding uses optional Multimatic 235/255 TIG kit.

---

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

**Comes complete with**
- 4.5 m (15 ft.) 250-amp MDX™-250 MIG gun with AccuLock™ MDX™ consumables
- 3 m (10 ft.) cable with electrode holder
- 3 m (10 ft.) work cable with clamp
- 2.1 m (7 ft.) industrial power cord
- Two factory-installed gas solenoids
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Chain to secure gas cylinder
- 0.8/0.9 mm (.030/.035 in.) reversible V-groove drive rolls
- Extra contact tips and material thickness gauge (229895)

**Most popular accessories**
- Spoolmate™ Spool Guns
  - 300371  Spoolmate 100
  - 301272  Spoolmate 150
  - 300497  Spoolmate 200
- Spoolmatic® Spool Gun (non-Pro gun only)
  - EZ-Latch™ Single Cylinder Running Gear 301449
  - EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack 301481
  - Converts an EZ-Latch™ Single Cylinder Running Gear into a Dual Cylinder Rack Running Gear
  - Protective Cover 301521
- Multimatic 235/255 TIG Kit 301518
- 10-Pin to 14-Pin Adapter Cord 301545
- Wireless Remote Foot Control 300429

**Rated Output**

<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 240 V</th>
<th>Wire Feed Speed</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV: MIG/flux-cored</td>
<td>30-235</td>
<td>170 A at 22.5 V, 60% duty cycle</td>
<td>20.0 5.0 4.9 1.5-15.2 m/min. (80-600 ipm)</td>
<td>54 VDC H: 489 mm (19.24 in.) W: 349 mm (13.75 in.) D: 616 mm (24.25 in.)</td>
<td>29 kg (63 lb.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC: Stick</td>
<td>30-200</td>
<td>150 A at 26 V, 60% duty cycle</td>
<td>20.2 5.0 4.8</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC: DC TIG</td>
<td>20-210</td>
<td>180 A at 17.2 V, 60% duty cycle</td>
<td>17.0 4.2 4.1</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Input voltage range for the Multimatic 235 is 204–276 V.*
Multimatic® 255

Welding Capability

- **Mild Steel**
  - Min. 0.6 mm (24 ga.)
- **Aluminum**
  - Min. 1.2 mm (18 ga.)

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

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

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

**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.

**Industrial 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**
- 4.5 m (15 ft.) 250-amp MDX™-250 MIG gun with Bernard® AccuLock™ S consumables
- 3 m (10 ft.) cable with electrode holder
- 3 m (10 ft.) work cable with clamp
- 3 m (10 ft.) 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
- Spoolmatic® Spool Guns
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns
- EZ-Latch™ Single Cylinder Running Gear 301449
- EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack 301481
- Protective Cover 301521
- Multimatic 255 TIG Kit 301518
- 10-Pin to 14-Pin Adapter Cord 273873

**Rated Output**
- 230 A at 25.5 V, 60% duty cycle
- 275 A at 21 V, 60% duty cycle

**Wire Feed Speed**
- 1.3–20 m/min. (50–800 ipm)

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

**Power Source Dimensions**
- H: 489 mm (19.24 in.)
- W: 349 mm (13.75 in.)
- D: 667 mm (26.25 in.)

**Net Weight**
- 38 kg (84 lb.)

**Welding Mode/Process**
- CV: MIG/flux-cored
- CC: Stick
- CC: DC TIG

**Amperage Range**
- 20–350
- 30–275
- 5–275

**Stock Number (907728) 208–575 V**

**Amps Input at Rated Output, 50/60 Hz**
- 208 V: 34.7, 29.7, 17.1, 14.3, 8.2, 8.2
- 460 V: 33.5, 29, 16.4, 13.6, 7.8, 7.8
- 575 V: 34.1, 29.9, 17, 14.1, 8.1, 8.1

**With MDX Series MIG gun.**
Multiprocess performance in a portable package. Designed for industrial applications that require a versatile solution with superior arc performance.

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

*Refer to owner’s manual for complete ratings.

**New!**

Maxstar® 280 Multiprocess

Dynasty® 300 Multiprocess

See literature DC/35.5 (Maxstar) and AD/4.97 (Dynasty)

ArcReach® SuitCase® feeder paired with the CV output of the Maxstar or Dynasty power source gives this unit MIG process capabilities. Note: Maxstar and Dynasty are not capable of ArcReach control.

**Auto-Line**

Allows for any input voltage hook-up (Maxstar: 208–575 V, Dynasty: 208–600 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

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

Quiet Pulse™. Activate Quiet Pulse by selecting sine or triangular waveshape to reduce audible noise.

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

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

*Refer to owner’s manual for complete ratings.

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

### Multiprocess

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Power Source</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DC Maxstar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxstar 280 Multiprocess 907525001</td>
<td>Power source only</td>
<td>3 phase</td>
<td>1-280</td>
<td>250 A at 20 V</td>
<td>21 19 – 11 9 7 – 7.6 7.3</td>
<td>60 VDC (11 VDC**)</td>
<td>Ht: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 569 mm (22.5 in.)</td>
<td>21.3 kg (47 lb.)</td>
</tr>
<tr>
<td>1 phase</td>
<td>1-280</td>
<td>250 A at 20 V</td>
<td>35 32 – 18 16 13 – 7.3 7.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AC/DC Dynasty</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynasty 300 Multiprocess 907819001</td>
<td>Power source only, CE 907819002</td>
<td>3 phase</td>
<td>5-280</td>
<td>250 A at 30 V</td>
<td>32 29 – * * * – 6.7 6.5</td>
<td>60 VDC (11 VDC**)</td>
<td>Ht: 352 mm (13.88 in.) W: 216 mm (8.5 in.) D: 555 mm (21.8 in.)</td>
<td>25 kg (55 lb.)</td>
</tr>
<tr>
<td>1 phase</td>
<td>5-280</td>
<td>180 A at 27.2 V</td>
<td>13 11 9 – 9.2 8.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TIGRunner</strong> includes above plus**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Contractor kit with A-200 TIG torch and RFCS-14 HD foot control (301549)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Input power choices
(auto-line technology)
(350/425 models) 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 input power.

**Standard hookup** (450 models). Available as 400 V, three-phase.

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

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

### Reliability
- **Wind Tunnel Technology**: Air flow that protects internal components, greatly improving reliability.
- **Fan-On-Demand™** cooling system operates only when needed, reducing noise, energy use and amount of contaminants pulled through machine.

### 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-style weld disconnects** (350/425 models) provide high-quality weld cable connections. Machines come with two Dinse connectors.
- **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>XMT 350 CC/CV</th>
<th>XMT 350 MPa</th>
<th>XMT 425 CC/CV</th>
<th>XMT 450 CC/CV</th>
<th>XMT 450 MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td>3-phase</td>
<td>3-phase</td>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td><strong>Primary Operating Range</strong></td>
<td>Auto-Line (230–575 V)</td>
<td>Auto-Line (230–575 V)</td>
<td>400 V</td>
<td></td>
</tr>
<tr>
<td><strong>Weld Output</strong></td>
<td>350 A at 34 VDC (3-phase input power at 60% duty cycle)</td>
<td>425 A at 27 VDC (3-phase input power at 30% duty cycle)</td>
<td><strong>UPGRADE</strong> 450 A at 38 VDC (3-phase input power at 100% duty cycle)</td>
<td></td>
</tr>
<tr>
<td><strong>Carbon Arc Gouging</strong></td>
<td>Rated: 6 mm</td>
<td>Rated: 6 mm</td>
<td><strong>UPGRADE</strong> Rated: 7.9 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>36.3 kg (80 lb.)</td>
<td>36.3 kg (80 lb.)</td>
<td>55.3 kg (122 lb.)</td>
<td></td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>Dinse</td>
<td>Dinse</td>
<td>1/2 in. stud</td>
<td></td>
</tr>
<tr>
<td><strong>Pulsed MIG</strong></td>
<td>—</td>
<td><strong>UPGRADE</strong> Yes</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>14-pin Compliant</strong> (requires Insight Core 14-pin module)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Multiprocess**

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.
**XMT® 350 CC/CV, 425 CC/CV and 450 CC/CV**

See literature DC/18.93 (350), EX/18 (425) 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.

Stronger weld output for increased capabilities. XMT 350 provides 24 percent more output than the 304 model for larger wires and stick electrodes. XMT 450 provides 43 percent more output for carbon arc gouging.

**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® SuitCase® feeder.**

**Synergic pulsed MIG.**

As you increase/decrease the wire feed speed, the pulse parameters increase/decrease, matching the right amount of power output to match the wire speed, 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.

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**Model/Stock Number**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XMT 350 CC/CV (Dinse)</strong> (907161) 208-575 V, 50/60 Hz (907161011) 208-575 V, w/auxiliary power*, 50/60 Hz (907161012) Auto-Line w/auxiliary power, 50/60 Hz, CE</td>
<td>3-phase</td>
<td>5-425 A 10-38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>75 VDC</td>
<td>H: 432 mm (17 in.)</td>
<td>43.9 kg (96.5 lb.)</td>
</tr>
<tr>
<td><strong>XMT 350 MPa (Dinse except where noted)</strong> (907366) 208-575 V, 50/60 Hz (907366011) 208-575 V, w/auxiliary power*, 50/60 Hz (907366014) 208-575 V, with Tweco®, 50/60 Hz (907366002) w/auxiliary power, 50/60 Hz, CE</td>
<td>3-phase</td>
<td>5-425 A 10-38 V</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>55.3 kg (122 lb.)</td>
</tr>
<tr>
<td><strong>XMT 425 CC/CV</strong> (907386) 230-575 V, 50/60 Hz</td>
<td>3-phase</td>
<td>425 A at 27 VDC, 30% duty cycle</td>
<td>–</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>43 kg (95 lb.)</td>
</tr>
<tr>
<td><strong>XMT 450 CC/CV</strong> (907443) 230/460 V, 60 Hz (907525) 400 V w/auxiliary power*, 50/60 Hz, CE</td>
<td>3-phase</td>
<td>15-650 A 10-38 V</td>
<td>450 A at 36 VDC, 100% duty cycle</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>43 kg (95 lb.)</td>
</tr>
<tr>
<td><strong>XMT 450 MPa</strong> (907470) 230/460 V, 60 Hz (907468) 400 V, w/auxiliary power, 50/60 Hz, CE</td>
<td>3-phase</td>
<td>15-650 A 10-38 V</td>
<td>450 A at 36 VDC, 100% duty cycle</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>43 kg (95 lb.)</td>
</tr>
</tbody>
</table>

---

**Processes**

- MIG (GMAW)
- Pulsed MIG (GMAW-P)*
- Stick (SMAW) • TIG (GTAW)
- Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A) (carbons — 350/425: 6 mm, 450: 8 mm)

*Only XMT MPa models.

**Most popular accessories**

- XR-AlumaFeed®
- SuitCase® Feeders
- 70 Series Feeders
- XR® Control
- Universal Running Gear
- MIGRunner™ Cart
- Running Gear Cylinder Rack
- Coolmate™ Coolant System
- Industrial MIG 4/0 Kits
- Gas Valve Kit

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**Amperage/Voltage Ranges**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>208 V</th>
<th>230 V</th>
<th>400 V</th>
<th>460 V</th>
<th>575 V</th>
<th>KVA KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 CC/CV (Dinse) (907161)</td>
<td>40.4</td>
<td>36.1</td>
<td>20.6</td>
<td>17.8</td>
<td>14.1</td>
<td>14.2 13.6</td>
</tr>
<tr>
<td>XMT 350 MPa (Dinse except where noted) (907366)</td>
<td>60.8</td>
<td>54.6</td>
<td>29.7</td>
<td>24.5</td>
<td>19.9</td>
<td>19.9 19.9</td>
</tr>
<tr>
<td>XMT 425 CC/CV (907386)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>XMT 450 CC/CV (907443)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>XMT 450 MPa (907470)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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</tbody>
</table>

**Max. Open-Circuit Voltage**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>3-phase</th>
<th>1-phase</th>
<th>4-phase</th>
</tr>
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<tbody>
<tr>
<td>XMT 350 CC/CV (Dinse) (907161)</td>
<td>75 VDC</td>
<td>75 VDC</td>
<td>75 VDC</td>
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<tr>
<td>XMT 350 MPa (Dinse except where noted) (907366)</td>
<td>90 VDC</td>
<td>90 VDC</td>
<td>90 VDC</td>
</tr>
<tr>
<td>XMT 425 CC/CV (907386)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>XMT 450 CC/CV (907443)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>XMT 450 MPa (907470)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
More jobsite productivity and efficiency

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

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®

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 settings 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 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 has full control and the XMT controls are disabled, preventing accidental changes by personnel other than the welding operator.

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

Note: XMT 450 CC/CV ArcReach does not support Large Current Capability (CLC®) and Adjust While Welding (AWW®) features or the ArcReach Smart Feeder.

---

XMT Racks

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

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

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

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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage/Voltage Ranges</th>
<th>IP Rating</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 FieldPro Power Source only (907730) 208-575 V with Tweco® (907730002) 208-575 V with Dinse (907730001) 208-400 V with Dinse, CE</td>
<td>3-phase</td>
<td>5–425 A 10–38 V</td>
<td>IP23</td>
<td>350 A at 34 VDC, 60% duty cycle</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>42.2 kg (93 lb.)</td>
</tr>
<tr>
<td>XMT 350 FieldPro with Polarity Reversing Power Source only (907731) 208-575 V with Tweco® (907731002) 208-575 V with Dinse (907731001) 208-400 V with Dinse, CE</td>
<td>1-phase</td>
<td>5–425 A 10–38 V</td>
<td>IP23</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>300 A at 32 VDC, 60% duty cycle**</td>
<td>60.4 36.1 20.6 17.8 14.1 14.2 13.6</td>
<td>75 VDC</td>
<td>42.2 kg (93 lb.)</td>
</tr>
</tbody>
</table>

**Processes**
- MIG (GMAW) • Stick (SMAW) • TIG (GTAW) • Flux-cored (FCAW) • RMD/pulse
- Air carbon arc cutting and gouging (CAC-A) (carbons — 304: 6.4 mm [1/4 in.], 350: 6.4 mm [1/4 in.], 450: 7.9 mm [5/16 in.])
- XMT 350 FieldPro only with ArcReach Smart Feeder.

**Stick/TIG**
- XMT 350 FieldPro power source
- ArcReach Stick/TIG Remote

**MIG/flux-cored**
- XMT 350 FieldPro power source
- ArcReach SuitCase 12 feeder and Bernard® BIT Gun 300 A

**RMD/pulse**
- XMT 350 FieldPro power source
- ArcReach Smart Feeder and Bernard® PipeWorx 300-15 MIG gun

**Most popular accessories**
- XR-AlumaFeed® SuitCase® 301567
- SuitCase® Feeders
- ArcReach® Smart Feeder (for XMT 350 FieldPro power sources only)
- 20 and 70 Series Feeders
- Spoolmatic®/WC-24
- XMT’s Control
- ArcReach® Stick/TIG Remote
- ArcReach® Stick/TIG Remote with Polarity Reversing
- Dinse 70 Series
- ArcReach® Heater (for XMT 350 FieldPro power sources only)

**Optimum 115-volt auxiliary power provides 10amps 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® 650 and XMT® 650 ArcReach®

Developed for harsh environmental conditions and output requirements that range from power-intensive to precise.

**ArcReach**

Every year, outdated welding equipment wastes hundreds of productive work hours—and thousands of dollars in profit—by forcing operators to make numerous walks from the weld joint to the welder. Welding systems with ArcReach technology let operators adjust welding parameters right at the weld joint without a control cord using the wire feeder or remote—maximizing arc-on time, improving safety and impacting the bottom line.

Don’t walk. Weld! Learn more at MillerWelds.com/arcreach

Note: ArcReach Smart Feeder is not supported.

Three models available: with or without ArcReach, and ArcReach with polarity reversing. ArcReach models allow control of ArcReach accessories hundreds of feet away without a control cable. Polarity reversing model adds switching between FCAW EN and gouging without swapping cables.

LED process indicator (ArcReach model without polarity reversing shown). Process selections are illuminated with an LED that identifies process. Enables weld process to be seen from a distance.

Cable Length Compensation (CLC*) ensures that the voltage a weld operator sets is the voltage they get by adding switching between FCAW EN and gouging without swapping cables.

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

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.

High electrical efficiency and excellent power factor mean getting more welding done while using less power.

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

Polarity reversing model allows welding operator to change process and polarity with an ArcReach® 16 wire feeder. Stay at the weld joint and switch between welding and gouging with the push of a button.

*Note: XMT 650 ArcReach with 575-volt input is 60 Hz only. **XMT 650/650 ArcReach without polarity reversing models only.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 650 907843 380/460 V power source only</td>
<td>D: 803 mm (31.625 in.)</td>
<td>84.8 kg (187 lb.)</td>
</tr>
<tr>
<td>XMT 650 907823 380/460 V power source only</td>
<td>W: 424 mm (16.687 in.)</td>
<td>84.8 kg (187 lb.)</td>
</tr>
<tr>
<td>XMT 650 ArcReach w/Polarity Reversing 907822 380/460 V power source only</td>
<td>H: 716 mm (28.187 in.)</td>
<td>84.8 kg (187 lb.)</td>
</tr>
</tbody>
</table>

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 650 907843</td>
<td>CC mode: 10-815 A CV mode: 10-44 V SAW mode: 10-65 V**</td>
<td>650 A at 44 VDC, 100% duty cycle</td>
<td>53.0 42.6 34.1 33.9 31.9 (subject to change without notice)</td>
<td>82 VDC</td>
<td>H: 716 mm (28.187 in.)</td>
</tr>
<tr>
<td>XMT 650 ArcReach 907823 380/460 V power source only</td>
<td>750 A at 44 VDC, 60% duty cycle</td>
<td>59.5 49.1 40.6 39.1 37.2 (subject to change without notice)</td>
<td></td>
<td>W: 424 mm (16.687 in.)</td>
<td></td>
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<tr>
<td>XMT 650 ArcReach w/Polarity Reversing 907822 380/460 V power source only</td>
<td>825 A at 44 VDC, 25% duty cycle</td>
<td>64.0 53.6 45.1 42.7 40.5 (subject to change without notice)</td>
<td></td>
<td>D: 803 mm (31.625 in.)</td>
<td></td>
</tr>
</tbody>
</table>

Processors:
- MIG (GMAW) • Flux-cored (FCAW)
- Stick (SMAW) • TIG (GTAW)*
- Submerged arc (SAW)*
- Air carbon arc cutting and gouging (CAC-A) (rated 9.5 mm [3/8 in.] carbons)

*XMT 650 models without polarity reversing.

20160818

Miller Welding Processors

Miller

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Visit Us Online!
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™ protects internal components, greatly improving reliability.

Fan-On-Demand™ reduces power consumption and improves reliability.

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 ArcReach power source shown with ArcReach SuitCase 12 feeder and ArcReach Stick/TIG Remote (all sold separately).

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. Don’t walk. Weld!

Learn more at MillerWelds.com/arcreach

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

Processes
- MIG (GMAW) • Flux-cored (FCAW)
- Stick (SMAW) • TIG (GTAW)
- Submerged arc (SAW)
- Air carbon arc cutting and gouging (CAC-A) (9.5 mm [3/8 in.] carbons)

Most popular accessories
- Dimension 650 ArcReach Rack
  907701  4-pack rack
  Rack comes assembled with four Dimension 650 ArcReach power sources fused for 460 V.
  - ArcReach® SuitCase® Feeders
    8  301457
    12  301456
  - SuitCase®12RC  301121
  - 70 Series Feeders
  - ArcReach Stick/TIG Remote 301325 (Tweco®)
  - Bernard™ MIG Guns
  - Running Gear Cylinder Rack 300408
  - Industrial MIG 4/0 Kit (with lug connectors) 300390
  - Extension Cables
    242208025  7.6 m (25 ft.)
    242208050  15 m (50 ft.)
    242208080  24.4 m (80 ft.)

Model/Stock Number

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output</th>
<th>IP Rating</th>
<th>Amps Input at Rated Output, 50/60 Hz 380 V 460 V KVA KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions (Includes lift eye)</th>
<th>Power Source Net Weight</th>
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<tr>
<td>Dimension 650</td>
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<tr>
<td>(907617) 380/460 V power source only</td>
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<tr>
<td>Dimension 650 ArcReach</td>
<td>(907617001) 380/460 V power source only</td>
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</tbody>
</table>

Amps Input at Rated Output, 50/60 Hz
- CC mode: 10–815 A
- CV mode: 10–44 V
- SAW mode: 10–65 V

650 A at 44 VDC, 100% duty cycle

87 VDC

H: 716 mm (28.187 in.)
W: 424 mm (16.687 in.)
D: 803 mm (31.625 in.)

71.7 kg (158 lb.)
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

Quick process changeover
- Simply push a process selection button to choose a welding process
- Eliminates set-up 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 FieldPro System

RMD® (regulated metal deposition)
- 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 reducing 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

PipeWorx 400 Welding System
See literature PWS/2.0

PipeWorx system includes (sold separately)
- PipeWorx 400 power source with cable hangers (907534)
- Dual feeder with drive rolls (300949)
- Two 4.6 m (15 ft.) PipeWorx 300 guns (195400)
- Running gear with gas cylinder rack and handles (300368)
- Cable kit with 7.6 m (25 ft.) work sense lead (300367)

Most popular accessories
- Bernard™ PipeWorx™ Guns
  195399 4.6 m (15 ft.) 250-15
  195400 4.6 m (15 ft.) 300-15
- PipeWorx 400 Insight Module 301304
- Composite Cable Kit
  300454 7.6 m (25 ft.)
  300456 15.2 m (50 ft.)
- PipeWorx Cooler 300370
- Foot Control Bracket 300676
- DSS-9 Dual Schedule Switch 071833
- RFCS-14 HD 194744

Power Source/
Stock Number
PipeWorx 400
(907382) 230/460 V
(907534) 380/400 V, CE

Amperage/
Voltage Ranges
Rated Output at 100% Duty Cycle
Amps Input at Rated Output, 50/60 Hz
KVA 380 V 400 V
KW 380 V 400 V
Max. Open-
Circuit Voltage Dimensions Net Weight

Wire Feeder/Stock Number
WirePonit Dual Feeder
(300366), (300050), CE

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

RMD® (regulated metal deposition)
**ArcReach** WELDING SYSTEMS

The more they walk
the more it costs.

**ARCREACH PLUG-IN POWER SOURCES**

XMT® 350 FieldPro™ Systems
Exceptional arc performance maximizes weld quality, minimizes defects.

XMT® 350 FieldPro™ Systems with Polarity Reversing
Provides outstanding stick and TIG performance for pipe welding, including automatic polarity selection.

XMT® 450 CC/CV ArcReach**
Portability and excellent arc performance with flexibility and simplicity.

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

**ARCREACH ENGINE-DRIVEN POWER SOURCES**

Trailblazer® 325 ArcReach® Models**
Unbeatable arc performance with superior runtimes and increased fuel efficiency.

Big Blue® ArcReach® Models**
Tackle tough jobs that require high output for welding, gouging and aux power.

**ARCREACH WIRE FEEDERS**

ArcReach® SuitCase® Feeders
For all ArcReach power sources. For MIG and flux-cored welding. Features remote voltage control and Auto-Process Select*.

ArcReach® Smart Feeder
For both XMT 350 FieldPro models and all ArcReach engine drives. For RMD® and pulsed MIG welding up to 61 m (200 ft.) from the power source.

**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 remote control functionality of the XMT 350 FieldPro with Polarity Reversing hundreds of feet from the power source, including process changeover and amperage adjustment — with no special cables.

---

**ArcReach** HEATING SYSTEMS

Allows economical, insourced weld preheating.

**ARCREACH HEATER AIR-COOLED INDUCTION SYSTEM**

ArcReach® Heater and Tools
For all ArcReach power sources except XMT 450 CC/CV ArcReach.***
Designed for preheating and bakeout applications up to 600 degrees Fahrenheit. Induction heating tools (air-cooled cables or air-cooled quick wraps) connect to the heater which is powered by an ArcReach power source.

*Does not support the Cable Length Compensation (CLC) and Adjust While Welding (AWW) features or the ArcReach Smart Feeder.
**Does not support the Cable Length Compensation (CLC) and Adjust While Welding (AWW) features.
***ONLY Dimension 650 machines manufactured after 3/16/2021 are compatible. Compatible models have on faceplate.

MillerWelds.com/arcreach
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The ITW ORBITAL CUTTING & WELDING division with its brands ORBITALUM TOOLS and E.H. WACHS provides global customers one source for the finest in pipe & tube cutting, beveling and orbital welding products.

Applications, e.g.
- pharmaceutical, biotechnology & chemical industry
- food & beverage industry
- semiconductor industry
- aerospace industry
- heating, ventilation & air conditioning industry
- power generation industry

Orbital cutting, beveling & welding machines for high-purity process piping, e.g.
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- tube facing machines
- pipe end prep machines

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Lincolnshire, IL 60069, USA
Tel +1 847 537 8800
Toll Free 800 323 8185
sales@ehwachs.com
www.ehwachs.com
## Thunderbolt® 160 and 210

See literature DC/37.0

**Dependable, portable, powerful stick welder.**

Nearly 45 kg (100 lb.) lighter so you can work smarter not harder by bringing the welder to the work.

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

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

**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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thunderbolt 160 (907721)</td>
<td>120 V</td>
<td>20–80</td>
<td>65 A at 20% duty cycle</td>
<td>20.7</td>
<td>91 VDC</td>
<td>H: 267 mm (10.5 in.) W: 181 mm (7.125 in.) D: 340 mm (13.75 in.)</td>
<td>6.8 kg (15 lb.)</td>
</tr>
<tr>
<td>Thunderbolt 210 (907722)</td>
<td>240 V</td>
<td>20–160</td>
<td>160 A at 30% duty cycle</td>
<td>27.8</td>
<td>91 VDC</td>
<td>H: 267 mm (10.5 in.) W: 181 mm (7.125 in.) D: 340 mm (13.75 in.)</td>
<td>7.0 kg (15.5 lb.)</td>
</tr>
</tbody>
</table>

### Thunderbolt 210

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thunderbolt 210 (907722)</td>
<td>240 V</td>
<td>25–210</td>
<td>210 A at 20% duty cycle</td>
<td>43.4</td>
<td>85 VDC</td>
<td>H: 267 mm (10.5 in.) W: 181 mm (7.125 in.) D: 340 mm (13.75 in.)</td>
<td>7.0 kg (15.5 lb.)</td>
</tr>
</tbody>
</table>

## Maxstar® 161 S

See literature DC/27.3

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

**Auto-Line™** technology provides easy, quick and reliable arc starts.

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

Adaptive Hot Start for stick arc starts.

Stick-Stop 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.

### Maxstar 161 S

<table>
<thead>
<tr>
<th>Stock Number (907709)</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>(907709001) with X-CASE</td>
<td>120 V</td>
<td>20–90</td>
<td>90 A at 23.6 V, 30% duty cycle</td>
<td>23.2</td>
<td>2.8</td>
<td>2.8</td>
<td>48 VDC (12-16 VDC*)</td>
<td>H: 262 mm (10.3 in.) W: 142 mm (5.6 in.) D: 343 mm (13.5 in.)</td>
<td>5.9 kg (13 lb.)</td>
</tr>
<tr>
<td></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>48 VDC (12-16 VDC*)</td>
<td>H: 262 mm (10.3 in.) W: 142 mm (5.6 in.) D: 343 mm (13.5 in.)</td>
<td>5.9 kg (13 lb.)</td>
</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.

Allows for any input voltage hook-up (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.

---

### Welding Process Specifications

<table>
<thead>
<tr>
<th>Stock Number (907682)</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Phase</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></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 13 8 6 5.5 5.2</td>
<td>80 VDC (11 VDC*)</td>
<td>H: 346 mm (13.6 in.)</td>
<td>16.3 kg (36 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>120 V</td>
<td>5–210</td>
<td>90 A at 23.6 V, 60% duty cycle</td>
<td>Single-phase</td>
<td>26 22 11 5.3 5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<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>23 – – – 2.8 2.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<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 20 10 4.9 4.9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Sense voltage for stick and Lift-Arc TIG.*
CST 282

Durable power source designed for the construction industry. Ideal for stick electrodes up to 4.8 mm (3/16 in.) and TIG welding of pipe and plate.

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

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.

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

Portable in the shop or at the jobsite — at 15.7 kg (34.6 lb.) the CST 282 is easily moved from location to location.

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

Universal connector system allows the machine to be quickly configured to either Tweco®, Dinse- or Cam-Lok®-style receptacles. Extra receptacles and wrench are sold separately as Universal Connector Kits.

CST 282 Racks

Rugged enclosure provides simple means for protecting and transporting multiple welding power sources for construction, power plant turn-arounds and shipbuilding applications.

One easy connection allows up to eight inverters to be connected with one primary power drop.

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

Top cover protects machines from falling debris.

Lift eye(s) simplify crane or overhead lifting device transport.

Lift truck fork pockets.

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

Racks include casters that can be bolted to the rack base. Two swivel casters and two non-swivel casters. Large 127 mm (5 in.) diameter wheels enable the rack to be moved over grating and driveway gravel.

Stock Number

<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 Load Output, 50/60 Hz</th>
<th>KVA</th>
<th>KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Pack Rack</td>
<td>(907811) Tweco®</td>
<td>4 units</td>
<td>208–575 V, three-phase, 50/60 Hz (fused for 460 V)</td>
<td>106.5</td>
<td>56</td>
<td>48</td>
</tr>
<tr>
<td>8-Pack Rack</td>
<td>(907812) Tweco®</td>
<td>8 units</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Empty Rack</td>
<td>(301610)</td>
<td>8 units</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Dimensions (H x W x D) (Includes lift eye)

Net Weight

<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 Load Output, 50/60 Hz</th>
<th>KVA</th>
<th>KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Pack Rack</td>
<td>(907811) Tweco®</td>
<td>4 units</td>
<td>208–575 V, three-phase, 50/60 Hz (fused for 460 V)</td>
<td>106.5</td>
<td>56</td>
<td>48</td>
</tr>
<tr>
<td>8-Pack Rack</td>
<td>(907812) Tweco®</td>
<td>8 units</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Empty Rack</td>
<td>(301610)</td>
<td>8 units</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

CST 282 with Tweco®-style receptacles shown.
The **ITW ORBITAL CUTTING & WELDING** division with its brands E.H. WACHS and ORBITALUM TOOLS provides global customers one source for the finest in pipe & tube cutting, beveling and orbital welding products.
<table>
<thead>
<tr>
<th>Product Guide</th>
<th>Class TIG</th>
<th>Pulsed TIG Stick</th>
<th>MIG/Flux-cored</th>
<th>Max. Electrode Diameter</th>
<th>Welding Amperage Range (TIG)</th>
<th>Pulse Capability</th>
<th>Net Weight</th>
<th>Generator Power Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar® 161</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>5–160 A</td>
<td>0–150 pps (STH model)</td>
<td>5.9 kg (13 lb.) 5.3 kW</td>
</tr>
<tr>
<td>Maxstar® 210</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>17.2 kg (38 lb.) 9 kW</td>
</tr>
<tr>
<td>Maxstar® 280</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>21.3 kg (47 lb.) 11 kW</td>
</tr>
<tr>
<td>Maxstar® 400</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>61 kg (134 lb.) 20 kW</td>
</tr>
<tr>
<td>Maxstar® 800</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.</td>
<td>5–800 A</td>
<td>0.1–5,000 pps</td>
<td>90 kg (198 lb.) 45 kW</td>
</tr>
<tr>
<td>Diverison™ 180</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. (alum.) .025–3/16 in. (steel)</td>
<td>10–180 A</td>
<td>–</td>
<td>23 kg (50 lb.) 5.5 kW</td>
</tr>
<tr>
<td>Syncrowave® 210</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>61 kg (133.5 lb.) 6 kW</td>
</tr>
<tr>
<td>Syncrowave® 300</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>5/32 in. 5/32 in. 1/8 in. 1/8 in. –</td>
<td>.015–3/8 in. (alum.) .012–1/2 in. (steel)</td>
<td>5–300 A</td>
<td>0.1–150 pps</td>
<td>45.8 kg (101 lb.) 9 kW</td>
</tr>
<tr>
<td>Syncrowave® 400</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>3/16 in. 3/16 in. 3/16 in. 3/16 in. –</td>
<td>.015–3/8 in. (alum.) .012–5/8 in. (steel)</td>
<td>5–400 A</td>
<td>0.1–150 pps</td>
<td>59.4 kg (131 lb.) 14 kW</td>
</tr>
<tr>
<td>Dynasty® 210</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>0.1–500 pps</td>
<td>21.3 kg (47 lb.) 9 kW</td>
</tr>
<tr>
<td>Dynasty® 280</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>0.1–500 pps</td>
<td>23.6 kg (52 lb.) 12.5 kW</td>
</tr>
<tr>
<td>Dynasty® 400</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>61 kg (134 lb.) 20 kW</td>
</tr>
<tr>
<td>Dynasty® 800</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>0.1–5,000 pps (AC) 0.1–5,000 pps (DC)</td>
<td>90 kg (198 lb.) 50 kW</td>
</tr>
</tbody>
</table>

**Product Key**
- Class: ● Light industrial ● Industrial ● Heavy industrial
- Capability: ● All models ● Some models

For more detailed information, visit MillerWelds.com/tig

**Also see Multiprocess section for machines that can TIG weld.**
**Diversion™ 180 AC/DC TIG** See literature AD/1.5

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

### 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.

### Portable
- Easy to transport at 23 kg (50 lb.).

*While idling.*

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

**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.

**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.

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

**Most popular accessories**
- Running Gear/Cylinder Rack 301239
- Protective Cover 300579
- RCCS-RJ45 Remote Fingertip Control 301146
- RJ45 to 14-Pin Adapter Cord 300688
- Weldcraft™ Flexible Torch Body Kits (requires handle 105255R) A-125F (WP-9F) A-150F (WP-17F)
- TIG Torch Accessory Kit AK2C

---

**Maxstar® 161 STL and STH DC TIG and Stick** See literature AD/1.5

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

### Two models available.
- **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.

**AUTO-LINE™** technology allows for any input voltage hook-up (120–240 V) with no manual linking.

**Portable with adjustable handle/shoulder strap.** Easy to transport at only 5.9 kg (13 lb.).

**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.

---

### TIG Welding Capability

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>KVA</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 161 STL</td>
<td>115 V</td>
<td>10–125</td>
<td>125 A at 15 V, 35% duty cycle</td>
<td>26.5 (.88*)</td>
<td>3.1 (.1*)</td>
<td>3.0 (.03*)</td>
<td>80 VDC</td>
<td>H: 433 mm (17 in.) W: 251 mm (9.875 in.) D: 608 mm (23.875 in.)</td>
<td>23 kg (50 lb.)</td>
</tr>
<tr>
<td>Maxstar 161 STH</td>
<td>230 V</td>
<td>10–180</td>
<td>150 A at 16 V, 20% duty cycle</td>
<td>16 (.44*)</td>
<td>3.7 (.1*)</td>
<td>3.6 (.03*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>180 A at 17.2 V, 10% duty cycle</td>
<td>20.5 (.44*)</td>
<td>4.7 (.1*)</td>
<td>4.6 (.03*)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Model/Stock Number

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Model/Stock Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 161 STL</td>
<td>Maxstar 161 STH</td>
</tr>
<tr>
<td>(90771001) Power source only</td>
<td>(907711001) Power source only</td>
</tr>
<tr>
<td>(907710001) TIG/stick package with remote fingertip control</td>
<td>(907711001) TIG/stick package with remote fingertip control</td>
</tr>
</tbody>
</table>

---

### Process

- **TIG (GTAW)**
- **Pulsed TIG (GTAW-P)** with STL model

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

**TIG/stick packages include above plus**
- 3.8 m (12.5 ft.) Weldcraft™ A-150 TIG torch (WP1712RDI25)
- Protective X-CASE™ (301429)
- Flow gauge regulator with hose
- AK2C TIG torch accessory kit
- RCCS-6M remote fingertip control (packages 907710002 and 907711001 only)

---

**Light industrial**
- Comes with:
  - Power cord with MVP plugs for 120 V and 240 V
  - 15.05 kW at 130 A at 15.2 V, 30% duty cycle
  - 22.65 kW at 20.5 A at 26.4 V, 20% duty cycle
  - 120 V and 240 V TIG torch
  - 2 m (6.5 ft.) 120 V and 240 V TIG torch (WP1712RDI25)
  - Protective X-CASE™ (301429)
  - Flow gauge regulator with hose
  - AK2C TIG torch accessory kit
  - RCCS-6M remote fingertip control (packages 907710002 and 907711001 only)

---

**Light industrial**
- Comes with:
  - Power cord with MVP plugs for 120 V and 240 V
  - 2.73 kW at 12.5 A at 23.6 V, 20% duty cycle
  - 15.05 kW at 20.5 A at 26.4 V, 20% duty cycle
  - 120 V and 240 V TIG torch
  - 2 m (6.5 ft.) 120 V and 240 V TIG torch (WP1712RDI25)
  - Protective X-CASE™ (301429)
  - Flow gauge regulator with hose
  - AK2C TIG torch accessory kit
  - RCCS-6M remote fingertip control (packages 907710002 and 907711001 only)
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.

- **Auto-Line** technology allows for any input voltage hook-up (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.

**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.

**HF arc starting** for non-contact arc initiation that reduces tungsten and material contamination.

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. (TIG/MIG complete package only.)

### TIG Welding Capability

<table>
<thead>
<tr>
<th></th>
<th>Steel</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. 6.4 mm (1/4 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. 0.5 mm (0.020 in.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Stock Numbers

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power</th>
<th>Welding Process</th>
<th>Welding Amperage Range</th>
<th>Rated Output (R.M.S.)</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907596) TIG/Stick System</td>
<td>115 V</td>
<td>DC TIG</td>
<td>5–125 A</td>
<td>95 A at 13.8 V, 60% duty cycle</td>
<td>17.4 (.58 while idling)</td>
<td>47 VDC</td>
<td>H: 80 mm (3.15 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)</td>
<td>Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AC TIG</td>
<td>5–125 A</td>
<td>90 A at 13.6 V, 60% duty cycle</td>
<td>12.4 (.58 while idling)</td>
<td>47 VDC</td>
<td>H: 80 mm (3.15 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)</td>
<td>Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DC stick</td>
<td>20–90 A</td>
<td>70 A at 22.8 V, 60% duty cycle</td>
<td>20.5 (.58 while idling)</td>
<td>47 VDC</td>
<td>H: 80 mm (3.15 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)</td>
<td>Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)</td>
</tr>
<tr>
<td></td>
<td>230 V</td>
<td>DC TIG</td>
<td>5–210 A</td>
<td>125 A at 15 V, 60% duty cycle</td>
<td>11.9 (.35 while idling)</td>
<td>47 VDC</td>
<td>H: 80 mm (3.15 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)</td>
<td>Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AC TIG</td>
<td>5–210 A</td>
<td>114 A at 14.6 V, 60% duty cycle</td>
<td>8.62 (.35 while idling)</td>
<td>47 VDC</td>
<td>H: 80 mm (3.15 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)</td>
<td>Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DC stick</td>
<td>20–150 A</td>
<td>90 A at 23.6 V, 60% duty cycle</td>
<td>11.9 (.35 while idling)</td>
<td>47 VDC</td>
<td>H: 80 mm (3.15 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)</td>
<td>Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)</td>
</tr>
</tbody>
</table>

See literature AD/4.6

### Welding Processes

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

*TIG/MIG Complete package only.

### Comes with

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

### Most popular accessories

- 7.6 m (25 ft.) Weldcraft™ A-150 TIG Torch WP-17-25-R
- Protective Cover 195142
- RCC-14 Remote Control 151086
- Wireless Remote Foot Control 300429
- TIG Torch Accessory Kit AK2C
- TIG Torch Accessory Kit AK-150MFC
- Spoolmate™ 150 spool gun 301272

### Inverter-based power source provides full welding output from 240 volts while drawing less than 30 amps.

**Auto-Set™** controls the wire size, material thickness and shielding gas and you’re ready to weld. (TIG/MIG complete package only.)

### Stock Number

- 907596 TIG/Stick System
Bernard semi-automatic MIG guns and consumables have been used and trusted for decades by top companies in agriculture, shipbuilding and fabrication. This is why Miller not only recommends Bernard MIG guns but also pairs these guns with many of their industrial wire feeders and power sources.

For information on Bernard MIG gun options and for detailed technical support information, please visit BernardWelds.com or your local distributor to learn more.

Visit the NEW! merged website for Bernard and Tregaskiss at Tregaskiss.com

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.

Visit Tregaskiss.com for more information or to configure a robotic gun for your welding application today.
Syncrowave® 300 and 400
AC/DC TIG and Stick
See literature AD/4.25 (300) and AD/4.28 (400)

Auto-Link® circuit automatically links the power source to primary voltage being applied (208/240/480 V, single- or three-phase).

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

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

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

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

1 For Syncrowave 400 refer to owner’s manual for 208 V output rating and duty cycle.
2 Sense voltage for low OCV stick and Lift-Arc™ TIG.
3 See literature AD/4.25 and AD/4.28 for Complete package dimensions and weight.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output1</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions3</th>
<th>Power Source Net Weight3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syncrowave 300</td>
<td>TIG (includes cooler power draw)</td>
<td>3-phase</td>
<td>5-300</td>
<td>210 A at 18.4 V, 60% duty cycle</td>
<td>16 14 8.2 7.9 7 5.9 5.5</td>
<td>60 VDC (13 VDC)</td>
<td>H: 746 mm (29.4 in.) W: 383 mm (15 in.) D: 625 mm (24.6 in.)</td>
<td>45.8 kg (101 lb.)</td>
</tr>
<tr>
<td>Syncrowave 400</td>
<td>TIG (includes cooler power draw)</td>
<td>3-phase</td>
<td>5-400</td>
<td>300 A at 22 V, 60% duty cycle</td>
<td>25 23 13.7 12.4 11 9.1 8.8</td>
<td>70 VDC (13 VDC)</td>
<td>H: 746 mm (29.4 in.) W: 383 mm (15 in.) D: 625 mm (24.6 in.)</td>
<td>59.4 kg (131 lb.)</td>
</tr>
</tbody>
</table>

Syncrowave 300 machine only
Syncrowave 400 TIGRunner

1 For Syncrowave 400 refer to owner’s manual for 208 V output rating and duty cycle.
2 Sense voltage for low OCV stick and Lift-Arc™ TIG.
3 See literature AD/4.25 and AD/4.28 for Complete package dimensions and weight.
Maxstar® 210/280 Series DC TIG and Stick

See literature DC/32.1 (210) and DC/35.0 (280)

Base and DX models available. Base model provides essential TIG and stick functions. DX models have extended ranges for sequencer, full trigger options, and full preflow and pulsar functions.

**AUTO-LINE** Technology 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 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.

**Quiet Pulse** (DX models only). Activate Quiet Pulse by selecting sine or triangular waveshape to reduce audible noise.

**Optional cooler power supply (CPS) (available on Maxstar 280 only)** is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 1.3.

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

*Refer to owner’s manual for complete ratings.

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

**Weldcraft® Water-Cooled Torch Kits**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 210</td>
<td>TIG</td>
<td>3-phase</td>
<td>1–210</td>
<td>210 A at 18.4 V</td>
<td>14 – 20 – 12 – 7 – 6 – 5.2 – 4.9</td>
<td>115 V</td>
<td>H: 346 mm</td>
<td>W: 219 mm</td>
</tr>
<tr>
<td>907683</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 19.5 in.</td>
<td>17.2 lb</td>
<td></td>
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<tr>
<td>Maxstar 210 DX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>38 lb</td>
<td></td>
</tr>
<tr>
<td>907684</td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>907684001, CE</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxstar 280</td>
<td>TIG</td>
<td>3-phase</td>
<td>1–280</td>
<td>250 A at 20 V</td>
<td>21 – 19 – 11 – 9 – 7 – 7.6 – 7.3</td>
<td>110 V</td>
<td>H: 346 mm</td>
<td>W: 219 mm</td>
</tr>
<tr>
<td>907552</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 22.5 in.</td>
<td>21.3 lb</td>
<td></td>
</tr>
<tr>
<td>Maxstar 280 DX</td>
<td></td>
<td></td>
<td></td>
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<td>907553</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>22.7 lb</td>
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<tr>
<td>907593</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>90759002, CE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Maxstar 280 DX</td>
<td>Stick</td>
<td>3-phase</td>
<td>5–280</td>
<td>250 A at 30 V</td>
<td>– * * – 14 – 13 – 10 – 9.9 – 9.6</td>
<td>230 V</td>
<td>H: 346 mm</td>
<td>W: 219 mm</td>
</tr>
<tr>
<td>90759001</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 659 mm</td>
<td>22.5 lb</td>
<td></td>
</tr>
</tbody>
</table>

**Most popular accessories**

- Small Runner® Cart
- Coolmate™ 1.3
- 2-Wheel Trolley Cart 300971
- Small Runner® Cart 301615
- Coolmate™ 1.3 301616
- Coolant 043810
- Contractor Kits 301309 A-150 w/RFCS-14 HD
- 301311 A-150 w/RCCS-14
- 301549 A-200 w/RFCS-14 HD
- 301550 A-200 w/RCCS-14
- Remote Controls 043688 RCCS-14 fingertip control 194744 RFCS-14 HD foot control 301580 Wireless foot control
Dynasty® 210/300 Series AC/DC TIG and Stick

See literature AD/4.81 (210) and AD/4.96 (300)

Intuitive LCD display. Ensures proper machine setup and parameter selection. Informative on-screen explanations and dynamic images enhance the parameter selection process.

Program memory allows easy naming, saving and recalling of favorite weld settings.

Locks and limits provide control of weld parameter ranges, minimizing deviation from the welding procedure specification (WPS).

USB. Front panel port provides the ability to easily update software, back-up settings and transfer saved weld programs from one unit to the next.

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.

**Quiet Pulse**: Activate Quiet Pulse by selecting sine or triangular waveshape to reduce audible noise.

**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.

**AC waveforms (TIG)** for advanced squarewave, soft squarewave, sine wave and triangular wave.

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

**Optional cooler power supply (CPS)** is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 1.3.

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

**TIG Welding Capability**

| Amps Input at Rated Load Output, 50/60 Hz | 210 Max. 6.4 mm (1/4 in.) | 210 Max. 6.4 mm (1/4 in.) |
| Steel | 210 Min. 0.05 mm (0.002 in.) | 210 Min. 0.05 mm (0.002 in.) |
| Aluminum | 300 Max. 9.5 mm (3/8 in.) | 300 Max. 9.5 mm (3/8 in.) |
| Steel | 300 Min. 0.1 mm (0.004 in.) | 300 Min. 0.1 mm (0.004 in.) |

**Dynasty 210**

<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>Dynasty 210 907816 Power source only</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>120 V 208 V 240 V 400 V 460 V 600 V</td>
<td>80 VDC (11 VDC***), Ht. 352 mm (13.88 in.) W. 216 mm (8.5 in.) D. 555 mm (21.88 in.)</td>
</tr>
<tr>
<td>907816001 Power source w/CPS</td>
<td>1-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>26</td>
<td>28 23 14 12 5.8 5.6</td>
<td></td>
</tr>
<tr>
<td>907816002 TIGRunner w/CPS</td>
<td>1-phase (120 V)</td>
<td>1-150</td>
<td>125 A at 15 V</td>
<td>26</td>
<td>28 23 14 12 5.8 5.6</td>
<td></td>
</tr>
<tr>
<td>907816003 Power source w/CPS, CE</td>
<td>3-phase</td>
<td>5-210</td>
<td>160 A at 26.4 V</td>
<td>16</td>
<td>16 14 9 8 6.0 5.8</td>
<td></td>
</tr>
<tr>
<td>907816004 TIGRunner, CE</td>
<td>1-phase</td>
<td>5-210</td>
<td>160 A at 26.4 V</td>
<td>28</td>
<td>28 24 14 12 6.4 5.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-phase (120 V)</td>
<td>5-100</td>
<td>90 A at 23.6 V</td>
<td>27</td>
<td>27 22 18 16 2.9 2.8</td>
<td></td>
</tr>
</tbody>
</table>

**Dynasty 300**

<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>Dynasty 300 907816 Power source only</td>
<td>TIG</td>
<td>3-phase</td>
<td>2-300 (AC) 1-300 (DC)</td>
<td>250 A at 20 V</td>
<td>120 V 208 V 240 V 400 V 460 V 600 V</td>
<td>80 VDC (11 VDC***), Ht. 352 mm (13.88 in.) W. 216 mm (8.5 in.) D. 555 mm (21.88 in.)</td>
</tr>
<tr>
<td>907816001 Power source w/CPS</td>
<td>1-phase</td>
<td>2-300 (AC) 1-300 (DC)</td>
<td>250 A at 20 V</td>
<td>33</td>
<td>33 29 17 15 11.7 6.7</td>
<td></td>
</tr>
<tr>
<td>907816002 TIGRunner w/CPS</td>
<td>3-phase</td>
<td>5-300</td>
<td>250 A at 30 V</td>
<td>** ** 14 12 9 9.8 9.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>907816003 Power source w/CPS, CE</td>
<td>1-phase</td>
<td>5-300</td>
<td>200 A at 27.2 V</td>
<td>35</td>
<td>35 31 ** ** 9.3 9.2</td>
<td></td>
</tr>
<tr>
<td>907816004 TIGRunner, CE</td>
<td>1-phase</td>
<td>5-300</td>
<td>200 A at 27.2 V</td>
<td>35</td>
<td>35 31 ** ** 9.3 9.2</td>
<td></td>
</tr>
</tbody>
</table>

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

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

- Allows for any input voltage hook-up (208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.
- Meter calibration allows digital meters to be calibrated for certification.
- Cooler Power Supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 3.5.
- Wind Tunnel Technology™ protects internal electrical components from airborne contaminants, extending the product life.
- Fan-On-Demand™ power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled though the machine.

Lift-Arc™ provides AC or DC arc initiation without the use of high frequency.
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.
Program memory features nine independent program memories that maintain/save your parameters.
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.

AC TIG Features
Independent amplitude/amperage control allows EP and EN amperages to be set independently to precisely control heat input to the work and electrode.
Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. These models provide extended ranges.
Frequency controls the length of the arc cone and can improve directional control of the arc.

AC Waveforms
- Advanced squarewave, fast freezing puddle, deep penetration and fast travel speeds.
- Soft squarewave for a soft buttery arc with maximum puddle control and good wetting action.
- Sine wave for customers that like a traditional arc. Quiet with good wetting.
- Triangular wave reduces the heat input and is good on thin aluminum. Fast travel speeds.

DC TIG Features
Exceptionally smooth and precise arc for welding exotic materials.
Pulse. Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion. These models provide extended ranges.

AC/DC Stick Features
DIG 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.
Hot Start™ adaptive control provides positive arc starts without sticking.
AC frequency control adds additional stability when stick welding in AC for smoother welds.

AC 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</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Maxstar 400</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>3–400</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>53 30 17 15 12 12.0 11.5</td>
<td>75 VDC (10–15 VDC*)</td>
</tr>
<tr>
<td>(907716), CSA</td>
<td></td>
<td>1-phase</td>
<td>3–400</td>
<td>225 A at 29 V, 60% duty cycle</td>
<td>41 37 – 19 15 8.6 8.2</td>
<td></td>
</tr>
<tr>
<td>(907716002), CE</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>(907716001) TIGRunner, CSA</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Maxstar 800</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>5–800</td>
<td>600 A at 44 V, 60% duty cycle</td>
<td>89 80 46 40 32 32 31</td>
<td>75 VDC (10–15 VDC*)</td>
</tr>
<tr>
<td>(907718), CSA</td>
<td></td>
<td>1-phase</td>
<td>3–400</td>
<td>225 A at 29 V, 60% duty cycle</td>
<td>47 43 – 21 17 9.8 9.1</td>
<td></td>
</tr>
<tr>
<td>(907718002), CE</td>
<td></td>
<td></td>
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<tr>
<td>(907718001) TIGRunner, CSA</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Dynasty 400</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>3–400</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>35 32 16 16 13 12.7 12.1</td>
<td>60 VDC (11 VDC*)</td>
</tr>
<tr>
<td>(907717), CSA</td>
<td></td>
<td>1-phase</td>
<td>3–400</td>
<td>225 A at 29 V, 60% duty cycle</td>
<td>47 43 – 21 17 9.8 9.1</td>
<td></td>
</tr>
<tr>
<td>(907717002), CE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(907717001) TIGRunner, CSA</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Dynasty 800</td>
<td>TIG/stick</td>
<td>3-phase</td>
<td>5–800</td>
<td>600 A at 44 V, 60% duty cycle</td>
<td>97 88 51 44 35 35 34</td>
<td>75 VDC (10–15 VDC*)</td>
</tr>
<tr>
<td>(907719), CSA</td>
<td></td>
<td>1-phase</td>
<td>3–400</td>
<td>225 A at 29 V, 60% duty cycle</td>
<td>47 43 – 21 17 9.8 9.1</td>
<td></td>
</tr>
<tr>
<td>(907719002), CE</td>
<td></td>
<td></td>
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<tr>
<td>(907719001) TIGRunner, CSA</td>
<td></td>
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</tr>
</tbody>
</table>

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

Synonymous with versatility and performance, Weldcraft TIG torches can handle the most intricate to the most demanding TIG welding challenges. From the 125-amp hand-held MicroTIG® torch to the 500-amp machine-held water-cooled models, there’s a Weldcraft torch for nearly every TIG application.

Setting the standard for performance

Super Cool™ technology provides additional surface area to increase cooling efficiency and capacity.

Comfort and control are increased with the lightweight, well-balanced body and handle designs, helping to reduce fatigue.

Robust performance through heavy copper construction that delivers maximum welding capacity for rugged fieldwork.

Simplify torch package installation with ColorSmart™ hose and cable sets that differentiate input water, water/power cable, and gas hoses.

Improve gas coverage and cooling capacity through the use of a gas lens.

Extreme reliability

Reduce downtime due to overheating through consistent water-cooled performance.

Extend parts life using the durable copper components, maximizing current capacity.

Reduce leakage of gas and water through secure mechanical fittings.

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

TIG TORCH CONFIGURATOR

MAKE SURE YOU ARE USING THE RIGHT TORCH AND CONSUMABLES FOR YOUR APPLICATION.

Answer a few simple questions about your specific application and get a recommendation for the appropriate torch, tungsten, collet, collet body and more. Email or print the recommendation for reference when purchasing your next Weldcraft torch.

Visit now at MillerWelds.com/torchconfig
Weldcraft™ Air-Cooled Torches

Recommended for welding amperages under 250 amps. Air-cooled torches are great for portable applications as they do not require a water-circulator. For power sources without a built-in gas solenoid the air-cooled two-piece torch is the solution of choice.

Weldcraft™ Water-Cooled Torches

Recommended for welding amperages above 200 amps. Offering a small torch design, water-cooled torches allow for precise control due to the efficient around-the-head cooling. This same cooling allows for extended torch life and higher amperage capacities.

Weldcraft™ Specialty Torches

Specialty torches are designed to fit best in unique applications. The Modular Series torches allow for a quick change to many different torch styles for any joint configuration. For those hard-to-reach areas the W-125 MicroTIG® torch provides access and superior maneuverability.

Weldcraft™ Automation Torches

Ideal for mechanized applications, the Weldcraft Automation Series offers air-cooled and water-cooled torches designed for low- and high-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 (A-80 Flex Valve) is ideal for optimal positioning and gas flow control.

<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>A-80 Flex</td>
<td>WP-24F-12-R</td>
<td>Air-cooled</td>
<td>DC: 80 A at 60% duty cycle</td>
<td>0.5-2.4 mm (.020-3/32 in.)</td>
</tr>
<tr>
<td>A-80 Flex Valve</td>
<td>WP-24FV-12-R</td>
<td>Air-cooled</td>
<td>AC: 50 A at 60% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>
### Weldcraft™ A-125 Series

**Formerly known as WP-9 Series**

![A-125 TIG Torch](image1)

**Applications**
- Maintenance and repair
- Home/hobby
- Motorsports
- Metal art
- Fabrication

**Most popular consumables**
- **Collets**
  - 10N22 1.6 mm (1/16 in.)
  - 10N24 2.4 mm (3/32 in.)
  - 10N25 3.2 mm (1/8 in.)
- **Collet Bodies**
  - 10N31 1.6 mm (1/16 in.)
  - 10N32 2.4 mm (3/32 in.)
  - 10N28 3.2 mm (1/8 in.)
- **Alumina Nozzles**
  - 10N48 #6, 9.5 mm (3/8 in.)
  - 10N47 #7, 11.1 mm (7/16 in.)
  - 10N46 #8, 12.7 mm (1/2 in.)

**Most popular accessories**
- Accessory Kit AK1C

### Weldcraft™ A-150 Series

**Formerly known as WP-17 Series**

![A-150 TIG Torch](image2)

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

**Most popular consumables**
- **Collets**
  - 13N22 1.6 mm (1/16 in.)
  - 13N23 2.4 mm (3/32 in.)
  - 13N24 3.2 mm (1/8 in.)
- **Collet Bodies**
  - 13N27 1.6 mm (1/16 in.)
  - 13N28 2.4 mm (3/32 in.)
  - 13N29 3.2 mm (1/8 in.)
- **Alumina Nozzles**
  - 13N10 #6, 9.5 mm (3/8 in.)
  - 13N11 #7, 11.1 mm (7/16 in.)
  - 13N12 #8, 12.7 mm (1/2 in.)

**Most popular accessories**
- Accessory Kit AK-150MFC

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 3.8 m (12.5 ft.)</th>
<th>2-Piece Rubber 3.8 m (12.5 ft.)</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>Air-cooled</td>
<td>DC: 125 A at 60% duty cycle</td>
<td>0.5–3.2 mm (.020–.1/8 in.)</td>
</tr>
<tr>
<td>A-125 Valve</td>
<td>WP-9V-12-R</td>
<td>WP-9V-25-R</td>
<td></td>
<td>AC: 100 A at 60% duty cycle</td>
<td></td>
</tr>
<tr>
<td>A-125 Flex</td>
<td>WP-9F-12-R</td>
<td>WP-9F-25-R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-125 Flex Valve</td>
<td>WP-9FV-12-R</td>
<td>WP-9FV-25-R</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>
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<td></td>
</tr>
</tbody>
</table>

- **Panels and Mounting**
- **Redhead™ Series torches in a variety of welding applications without adding expenses.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 3.8 m (12.5 ft.)</th>
<th>2-Piece Rubber 3.8 m (12.5 ft.)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-150</td>
<td>WP-17-12-R</td>
<td>WP-17-25-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle</td>
<td>0.5–3.2 mm (.020–.1/8 in.)</td>
</tr>
<tr>
<td>A-150 Valve</td>
<td>WP-17V-12-R</td>
<td>WP-17V-25-R</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></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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-150 Flex Valve Redhead</td>
<td>WP-R17FV-12-R</td>
<td>WP-R17FV-25-R</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
THE GARAGE PROJECT SHOW THAT KEEPS IT REAL.

New year, same Andy. Real Garage with Andy is back, and the transformation of the 1969 Trans Am is taking shape! Don’t miss a project, tip or weld — catch all the episodes on the Real Garage YouTube channel.
Applications
- Aerospace • Manufacturing
- Food/beverage industry • Shipbuilding
- Maintenance and repair
- Petro/chemical • Precision fabrication

Most popular consumables
- Collets
  53N16  1.0 mm (.040 in.)
  53N14  1.6 mm (1/16 in.)
  24C332  2.4 mm (3/32 in.)
- Collet Bodies
  53N18  1.0 mm (.040 in.)
  53N19  1.6 mm (1/16 in.)
  24CB332  2.4 mm (3/32 in.)
- Alumina Nozzles
  A53N24 #4, 6.4 mm (1/4 in.)
  A53N25 #5, 7.9 mm (5/16 in.)
  A53N27 #6, 9.5 mm (3/8 in.)

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)
  13N21  1.0 mm (.040 in.)
  13N22  1.6 mm (1/16 in.)
  13N23  2.4 mm (3/32 in.)
  13N24  3.2 mm (1/8 in.)
- Collet Bodies
  13N26  1.0 mm (.040 in.)
  13N27  1.6 mm (1/16 in.)
  13N28  2.4 mm (3/32 in.)
  13N29  3.2 mm (1/8 in.)
- Gas Lens
  45V42  1.0 mm (.040 in.)
  45V43  1.6 mm (1/16 in.)
  45V44  2.4 mm (3/32 in.)
  45V45  3.2 mm (1/8 in.)
- Alumina Nozzles
  13N08 #4, 6.4 mm (1/4 in.)
  13N09 #5, 7.9 mm (5/16 in.)
  13N10 #6, 9.5 mm (3/8 in.)
  13N11 #7, 11.1 mm (7/16 in.)
  13N12 #8, 12.7 mm (1/2 in.)
  13N13 #9, 15.9 mm (5/8 in.)
  53N58 #4, 6.4 mm (1/4 in.) (gas lens)
  53N59 #5, 7.9 mm (5/16 in.) (gas lens)
  53N60 #6, 9.5 mm (3/8 in.) (gas lens)
  53N61 #7, 11.1 mm (7/16 in.) (gas lens)
  53N61S #8, 12.7 mm (1/2 in.) (gas lens)

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 accessories
- Cable Covers
  WC-3-10  3 m (10 ft.)
  WC-3-22  6.7 m (22 ft.)
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.

Applications
- Aerospace
- 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) 13N21 1.0 mm (.040 in.) 13N22 1.6 mm (1/16 in.) 13N23 2.4 mm (3/32 in.) 13N24 3.2 mm (1/8 in.)
- Collet Bodies 13N26 1.0 mm (.040 in.) 13N27 1.6 mm (1/16 in.) 13N28 2.4 mm (3/32 in.) 13N29 3.2 mm (1/8 in.)
- Alumina Nozzles 13N08 #4, 6.4 mm (1/4 in.) 13N09 #5, 7.9 mm (5/16 in.) 13N10 #6, 9.5 mm (3/8 in.) 13N11 #7, 11.1 mm (7/16 in.) 13N12 #8, 12.7 mm (5/8 in.) 53N58 #4, 6.4 mm (1/4 in.) (gas lens) 53N59 #5, 7.9 mm (5/16 in.) (gas lens) 53N60 #6, 9.5 mm (3/8 in.) (gas lens) 53N61 #7, 11.1 mm (7/16 in.) (gas lens) 53N61S #8, 12.7 mm (1/2 in.) (gas lens)
- Back Caps 41V33 Short 41V35 Medium 41V24 Long

Applications
- Fabrication
- Maintenance and repair
- Shipbuilding
- Tube and pipe

Most popular consumables
- Collets 10N24 2.4 mm (3/32 in.) 10N25 3.2 mm (1/8 in.) 54N20 4.0 mm (5/32 in.)
- Collet Bodies 10N22 2.4 mm (3/32 in.) 10N28 3.2 mm (1/8 in.) 406488 4.0 mm (5/32 in.)
- Alumina Nozzles 10N48 #6, 9.5 mm (3/8 in.) 10N47 #7, 11.1 mm (7/16 in.) 10N46 #8, 12.7 mm (1/2 in.) 10N45 #10, 15.9 mm (5/8 in.) 10N44 #12, 19 mm (3/4 in.)

Applications
- Fabrication
- Maintenance and repair
- Shipbuilding
- Tube and pipe

Most popular consumables
- Collets
- Collet Bodies
- Alumina Nozzles

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

Weldcraft™ W-350 Series
Formerly known as WP-18 Series

Rugged water-cooled torches engineered for high-amperage and continuous hand-held welding.

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 (W-350 Valve) offered through the built-in fingertip gas control.
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, 7.6 m (25 ft.)</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-25-R</td>
<td>Water-cooled</td>
<td>DC: 400 A at 100% duty cycle, AC: 280 A at 100% duty cycle</td>
<td>0.5–4.8 mm (.020–.316 in.)</td>
</tr>
</tbody>
</table>

Applications
- Heavy fabrication • Tool and die
- Pipe and tube fabrication
- Pressure vessel fabrication

Most popular consumables
- Heavy-Duty Collets
  10N25HD 3.2 mm (1/8 in.)
  54N20HD 4.0 mm (5/32 in.)
  18C36 4.8 mm (3/16 in.)
- Heavy-Duty Nose Collet Body (all sizes) NCB-36
- Alumina Nozzles
  54N16 #6, 9.5 mm (3/8 in.)
  54N15 #7, 11.1 mm (7/16 in.)
  54N14 #8, 12.7 mm (1/2 in.)
- Back Caps
  57Y04 Short
  300M Medium

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 (A-150 Modular Valve) provides greater shielding gas flow control.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber, 7.6 m (25 ft.)</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>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle, AC: 105 A at 60% duty cycle</td>
<td>0.5–3.2 mm (.020–.1 in.)</td>
</tr>
<tr>
<td>A-150 Modular Valve</td>
<td>WP-150V-12-R</td>
<td>Air-cooled</td>
<td>DC: 150 A at 60% duty cycle, AC: 105 A at 60% duty cycle</td>
<td>0.5–3.2 mm (.020–.1 in.)</td>
</tr>
<tr>
<td>W-225 Modular</td>
<td>WP-225-12-R</td>
<td>Water-cooled</td>
<td>DC: 225 A at 100% duty cycle, AC: 160 A at 100% duty cycle</td>
<td>0.5–4.0 mm (.020–.3 in.)</td>
</tr>
</tbody>
</table>

Applications
- Maintenance and repair • Aerospace
- Metal art • Food/beverage industry
- Petro/chemical • Shipbuilding
- Manufacturing • Vocational
- Precision fabrication • Tube and pipe

Most popular accessories
- Accessory Kit
  AK-150MFC For A-150 torch
  AK-225MFC For W-225 torch

Weldcraft™ W-125 Long Micro
Formerly known as WP-125L

Water-cooled MicroTIG® torch designed for limited-access joints.

Small 127 mm (5 in.) torch body designed for limited-access joints.

Low-profile nozzle fits into holes as small as 5/8-inch diameter.

45-degree, 90-degree, and 180-degree options improve access in tight areas.

Lower maintenance costs incurred with the replaceable silicone rubber insulator and head components.

<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber, 3.8 m (12.5 ft.)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-125 Long Micro</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>1.0–2.4 mm (.040–.3 in.)</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 175 mm (7 in.) tungsten electrodes.

<table>
<thead>
<tr>
<th>Type</th>
<th>Stock Number</th>
<th>Diameter mm (in.)</th>
<th>Type</th>
<th>Stock Number</th>
<th>Diameter mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2% Ceriated (EWCe-2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WC040X7</td>
<td>1.0 (0.040)</td>
<td></td>
<td>WC116X7</td>
<td>1.6 (1/16)</td>
<td></td>
</tr>
<tr>
<td>WC322X7</td>
<td>2.4 (3/32)</td>
<td></td>
<td>WC018X7</td>
<td>3.2 (1/8)</td>
<td></td>
</tr>
<tr>
<td>WC532X7</td>
<td>4.0 (5/32)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2% Lanthanated (EWLa-2)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WL2040X7</td>
<td>1.0 (0.040)</td>
<td></td>
<td>WL116X7</td>
<td>1.6 (1/16)</td>
<td></td>
</tr>
<tr>
<td>WL2322X7</td>
<td>2.4 (3/32)</td>
<td></td>
<td>WL018X7</td>
<td>3.2 (1/8)</td>
<td></td>
</tr>
<tr>
<td>WL2552X7</td>
<td>4.0 (5/32)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pure (EWP)</td>
<td></td>
<td></td>
<td>Form a clean, balled end when heated. Provides good arc stability for AC welding with a balanced or unbalanced square wave or sine wave.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Weldcraft™ TIG Torch Accessories

GL Kits (Gas Lens Kits)
Gas lenses improve the gas coverage of the tungsten during the TIG welding process. They can save you time and money by increasing your weld quality while using less gas. GL kits provide three different-sized gas lenses and consumables in each kit to work with a variety of different applications.

AK Kits (Accessory Kits)
AK kits provide a set of different consumables for Weldcraft torches to tackle a variety of different applications. Kits include nozzles, collets, collet bodies, tungsten and back caps.

Quick Connects

Cable Covers

Remote Controls
See the Accessories section for more information.
**Insight Welding Intelligence™: The Total Welding Data Solution**

With an Insight weld monitoring system you can get more done, produce higher-quality welds and control costs.

### Choose the Right Welding Intelligence System

<table>
<thead>
<tr>
<th><strong>Insight Core™</strong></th>
<th><strong>Insight Centerpoint™</strong></th>
<th><strong>Insight ArcAgent™</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For Use With</strong></td>
<td><strong>Factory-Installed</strong></td>
<td><strong>Field-Installed/Activated</strong></td>
</tr>
<tr>
<td></td>
<td>• Continuum™/Auto-Continuum™ (standard)</td>
<td>• Continuum™/Auto-Continuum™ (optional)</td>
</tr>
<tr>
<td></td>
<td>• Deltaweld® (optional)</td>
<td></td>
</tr>
<tr>
<td><strong>Requirements</strong></td>
<td>• 14-pin compliant power source (see MillerWelds.com/insight)</td>
<td>• PC and Ethernet connection</td>
</tr>
<tr>
<td></td>
<td>• Internet connection (wired/wireless)</td>
<td></td>
</tr>
</tbody>
</table>
| **What Capability Do You Need?** | • Productivity monitoring  
• Weld parameter verification  
• Goal setting  
• Analytic tools | • Ensure quality welds  
• Reduce missed welds  
• Minimize overwelding/underwelding  
• Electronic work instructions  
|                   | • ANY welding power source (old or new)  
• ANY brand  
• ANY welding process | • Universal solution for use with Insight Centerpoint |
| **Data Storage**  | • Cloud based | • Local server or PC |
|                   | | • See Insight ArcAgent literature WI/1.0 |

Complete coverage for any application.
Simple, cloud-based welding information management solution that reports operator productivity and deposition, as well as weld parameter verification.

Helps you answer
- Who is your most productive operator?
- What is your most productive welder, station, cell?
- Are your quality risks increasing or decreasing?
- What are your true welding costs?

Software features
Productivity dashboard. Instant visibility of arc-on time and wire deposition — by location, work cell, power source or operator.

Quality dashboard. Real-time analysis and reporting of all welds, revealing when quality fails to meet established thresholds for amps, volts and WFS. Includes weld trace.

Reports. In-depth information is available in reports that can be easily modified and displayed in a wide variety of customizable formats.

Analytics tools. Business analytic tools allowing for weld data analysis based on individual/cell performance as well as overall financial terms.

Notifications. Email/text notifications based on your desired frequency and subject.

Multiple languages available. English, German, Spanish, French, Italian, Dutch, Portuguese and Chinese.

Universal brand capability
With an ArcAgent™ module, you can have the power of Insight Core on any machine from any manufacturer, giving you complete coverage of your facility.

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 TIG applications require TIG Filter (301359) to monitor voltage.

How it works

How it works

Software features

- Productivity dashboard. Instant visibility of arc-on time and wire deposition — by location, work cell, power source or operator.
- Quality dashboard. Real-time analysis and reporting of all welds, revealing when quality fails to meet established thresholds for amps, volts and WFS. Includes weld trace.
- Reports. In-depth information is available in reports that can be easily modified and displayed in a wide variety of customizable formats.
- Analytics tools. Business analytic tools allowing for weld data analysis based on individual/cell performance as well as overall financial terms.
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Universal brand capability

With an ArcAgent™ module, you can have the power of Insight Core on any machine from any manufacturer, giving you complete coverage of your facility.

Type | Power Sources | Miller 14-Pin Compliant Power Sources | Universal Adaptable (works with ALL brands/models of power sources)
---|---|---|---
Factory-Installed Insight Core | Deltaweld® 350 (907747002) 208/230/460 V | – | –
Deltaweld® 500 (907785002) 208/230/460 V | – | –
Deltaweld® 350 (907853003) 400 V, CE | – | –
Deltaweld® 500 (907854003) 400 V, CE | – | –
Continuum 350 (907636) | – | – | –
Continuum 500 (907640) | – | – | –
Continuum 350 (907656) | – | – | –
Continuum 500 (907657) | – | – | –
Field-Installed Insight Core | – | Requires Insight Core 14-pin module™ (301072), CE See MillerWelds.com/insight for a list of 14-pin compatible power sources | –
ArcAgent for Insight Core™ (301151) Stud current sensor 600 A (301164) Stud sensor cable 7.6 m (301156) Stud sensor cable 7.6 m (301146) Stud ArcAgent, CE | –
ArcAgent for Insight Core™ (301151) Stud current sensor 600 A (301164) Stud sensor cable 7.6 m (301156) Stud sensor cable 7.6 m (301146) Stud ArcAgent, CE | –

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 TIG applications require TIG Filter (301359) to monitor voltage.
**Insight Centerpoint™**

Advanced, real-time operator feedback solution to prevent missed welds, enforce proper weld sequences and ensure consistent weld quality.

**Version 10**
- Designed for ease of use
- Faster start up time
- Drastically shortened learning curve

**Software features**
- **Part Tracking™** provides real-time operator feedback to ensure accurate weld sequence, prevent missed welds and ensure proper weld parameters.
- **WorkFlow™** enables you to present electronic work instructions for pre-weld, intra-weld, and post-weld activities (using video, pdf, and more) to ensure consistent standardized production for every operator.
- **Job tracking.** A browser-based user interface eliminates the need for a PC in the workstation, allowing an operator to easily record everything that goes into creating a part.

### Benefits for everyone in your operation

- Create a full record of every weld on every part
- Present welders with step-by-step instructions
- Have confidence that parts are properly welded

- Save time inspecting welds
- Identify the impact of non-welding activities
- Keep your welders welding

- Identify the true cost of a welded component
- Collect data to drive decisions
- Stop losing money due to missing or poor welds

**For more information:**
email insight@MillerWelds.com

### Universal brand capability

With an ArcAgent™ module, you can have the power of Insight Centerpoint on any machine from any manufacturer, giving you a complete picture of your facility.

---

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

- Deltaweld® 350 (907747002) 208/230/460 V
- Deltaweld® 500 (907785002) 208/230/460 V
- Continuum 350 (907636)
- Continuum 500 (907640)
- Auto-Continuum 350 (907656)
- Auto-Continuum 500 (907657)

**Insight Centerpoint Software**

- (301490) Software activation (Serial number required)

**Accessories**

- Insight LTD Gun (Q4015JS3EML) For Continuum
- Insight LTD Remote (301383)
- M12/RJ45 Ethernet Cables (300734) 3 m (9.8 ft.)
- (300736) 10 m (32.8 ft.)
- Field Application Support (195480) Miller field support (contact distributor for details)

---

1 Additional stock numbers are available — visit MillerWelds.com/insight.
**Fusion 185** See literature ED/2.9

Delivers a smooth, stable arc from either engine power or 120/240-volt utility power, providing a unique combination of versatility and productivity in a lightweight package.

**Power Shift**

Work anywhere convenience. PowerShift technology provides weld capabilities using either the Fusion 185 gasoline engine or 120/240-volt utility power. You’ll have the confidence of knowing that you can weld virtually anywhere with just one machine — outdoors with engine or utility power and indoors with utility power. The multi-voltage plug (MVP™) makes it easy to connect the welder to either 120- or 240-volt power.

**Easier to transport.** At only 110 kg (242 lb.), the Fusion 185 is up to 20 kg (45 lb.) lighter 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.

**Blue Star® 185** See literature ED/2.5

Reliable outdoor portable power — great for farm, ranch, maintenance, construction and hobbyists.

**Compact and portable.** With a small footprint, the Blue Star uses little truck space. Optional running gear also makes it one-man portable.

**All engine controls are on front panel.**

**Stick and TIG capable.**

**Accu-Rated® peak generator power** is usable for maximum generator loads such as plasma cutting, Millermatic® MIG welders and motor starting.

**Includes electric start, 120-volt GFCI and 240-volt receptacles, 23.7 L (6.25 gal.) fuel capacity, auto-idle and engine hour meter.**
Bobcat™/Trailblazer® Gas Model Comparison — Which is Right for You?

<table>
<thead>
<tr>
<th>Bobcat 225</th>
<th>Bobcat 260</th>
<th>Trailblazer 325</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Levels at 23 feet</td>
<td>73.5 dB/72 dB</td>
<td>72.5 dB/72 dB</td>
</tr>
<tr>
<td>Fuel System</td>
<td>Good</td>
<td>Very good</td>
</tr>
<tr>
<td>Typical Runtime per 12-Gallon Tank*</td>
<td>13 hours</td>
<td>13 / 15.5 hours with EFI</td>
</tr>
<tr>
<td>Efficiency</td>
<td>Good</td>
<td>Good / Very good with EFI</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline</td>
<td>Gasoline or LP</td>
</tr>
<tr>
<td>Delivery</td>
<td>Carburetor</td>
<td>Carburetor or EFI available</td>
</tr>
<tr>
<td>Generator</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>
</tr>
<tr>
<td>Clean Power Quality</td>
<td>Very good / Excellent</td>
<td>Very good / Excellent</td>
</tr>
<tr>
<td>Power While Welding</td>
<td>Fair / Good — With voltage control set near maximum</td>
<td>Good — Easier to fine-tune with arc voltage control near maximum</td>
</tr>
<tr>
<td>Excel® Power Generator (120 V, 60 Hz at all engine speeds)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld Performance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stick</td>
<td>Good / Very good</td>
<td>Very good</td>
</tr>
<tr>
<td>MIG — Wire (solid / FCAW), Steel</td>
<td>Fair (0.035 in.)</td>
<td>Good (0.035–1/16 in.)</td>
</tr>
<tr>
<td>MIG — Wire, Aluminum w/ Spool Gun</td>
<td>Fair / Good (add WC-115A with contactor)</td>
<td>Very good (add WC-115A with contactor)</td>
</tr>
<tr>
<td>DC TIG (steel)</td>
<td>Good</td>
<td>Very good</td>
</tr>
<tr>
<td>AC Weld</td>
<td>60–160 amps</td>
<td>40–210 amps</td>
</tr>
<tr>
<td>Carbon Arc Gouging</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Key Features</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Meters</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Maintenance Displays</td>
<td>Hours / Oil change</td>
<td>Hours / Oil change / Fuel</td>
</tr>
<tr>
<td>Battery Charge / Crank Assist</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>14-pin Receptacle</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ArcReach Technology</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Bobcat: The most popular welder/generator
• Dependable power and weld output
• Cost-effective multiprocess welder/generator
• Easy to maintain
• Quietest in its class

Trailblazer: The best performer in the industry
• Unbeatable arc performance
• Independent welder and generator power system
• Exclusive technologies — Auto-Speed™ and Excel™ power
• Most fuel efficient and quietest in its class

*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.

Bobcat™/Trailblazer®/Big Blue® Air Pak™ Comparison — Which is Right for You?

<table>
<thead>
<tr>
<th>Bobcat 200 Air Pak</th>
<th>Trailblazer 302 Air Pak</th>
<th>Big Blue 800 Duo Air Pak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed Air</td>
<td>28 cfm, 175 psi</td>
<td>31 cfm, 160 psi</td>
</tr>
<tr>
<td>Battery Charge, Crank Assist</td>
<td>12 / 24-volt</td>
<td>12 / 24-volt</td>
</tr>
<tr>
<td>Generator Power</td>
<td>Single-phase</td>
<td>Peak: 5,500 watts Continuous: 5,500 watts</td>
</tr>
<tr>
<td></td>
<td>Three-phase</td>
<td>—</td>
</tr>
<tr>
<td>Weld Output Range</td>
<td>50–210 amps (CC/DC)</td>
<td>10–300 amps (CV/DC, CC/DC, CC/AC)</td>
</tr>
<tr>
<td>Fuel Type</td>
<td>Gas</td>
<td>Gas</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>
</tr>
<tr>
<td>Weight</td>
<td>558 lb.</td>
<td>771 lb.</td>
</tr>
</tbody>
</table>

Cost-effective welder/generator/air compressor/battery charger
AC/DC multiprocess welder/generator/air compressor/battery charger
Heavy-duty, dual-operator welder/generator/air compressor

Cost-effective welder/generator/air compressor/battery charger
AC/DC multiprocess welder/generator/air compressor/battery charger
Heavy-duty, dual-operator welder/generator/air compressor

ArcReach technology standard
Bobcat ™ 200 Air Pak ™ See literature ED/4.36

Quiet, fuel-efficient all-in-one that maintains power capabilities in a compact, lightweight footprint and is backed by industry-leading reliability and performance.

Maximize available payload. Reduce weight by up to 272 kg (600 lb.) and increase available payload by up to 24 cubic feet by reducing the equipment on the truck.

Reduce fuel consumption. Minimize fuel costs by reducing truck engine idle time by as much as 75 percent, or if you have a separate engine-driven compressor by only operating one engine.

Minimize operating costs. Potentially save more than $50,000 over ten years from increased fuel efficiency, decreased maintenance costs and increased asset life.

Advanced Auto-Speed ™ technology automatically adjusts engine speed to match weld and battery charge demands — reducing fuel consumption, maintenance costs and noise for more efficient jobsites.

Industrial rotary-screw air compressor. Easily outperforms and outlasts reciprocating compressors. Many air tools can be powered by the compressor including most 19 mm (3/4 in.) impact wrenches. Immediately supplies 0.85 m³/min. (30 cfm) at 175 psi, 100 percent duty cycle, continuous air output.

6,500-watt generator power to support jobsite tools, lights, and high-demand applications like plasma cutters and TIG welders.

Battery charge/crank assist. Provides up to 100 amps at idle to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 300 amps of crank assist.

**Model/Stock Number** | **Welding Mode** | **Welding Process** | **Amp/Volt Ranges** | **Rated Weld Output at 40°C (104°F)** | **Single-Phase Generator Power at 40°C (104°F)** | **Dimensions** | **Net Weight** |
---|---|---|---|---|---|---|---|
**Gasoline**
Bobcat 200 Air Pak (907771) Kohler | CC/DC | DC stick/TIG | 30–210 A | 120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle | Peak: 8,000 watts Continuous: 6,500 watts | H: 616 mm (24.25 in.) W: 508 mm (20 in.) D: 1,133 mm (44.61 in.) | 233 kg (514 lb.) |
Bobcat 200 Air Pak Diesel (907760) Kubota | CC/DC | DC stick/TIG | 30–210 A | 120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle | Peak: 8,000 watts Continuous: 6,500 watts | H: 734 mm (28.875 in.) W: 508 mm (20 in.) D: 1,200 mm (47.25 in.) | 280 kg (618 lb.) |

**Rotocomp Air Compressor Features**
- Rotary screw with electric clutch for on/off, oil change intervals 500 hours

**Free Air Delivery**
- 0.85 m³/min. (30 cfm) at 3,600 rpm

**Working Pressure**
- 80-175 psig

**Duty Cycle**
- 100%

**Oil Capacity**
- 1.89 L (2 qt.)
New Remote Solutions for Miller® Engine Drives

**Start & Stop**
Take control and eliminate engine noise. Easily turn your machine on and off remotely, so it only runs when you need it.
Remote start/stop is standard on Bobcat® 225 and Bobcat® 260 gas and diesel welder/generators.

**Total Control**
You spoke. We listened. Now get full control of your machine in the palm of your hand from wherever you are on the jobsite and work hassle-free. Change welding processes, adjust parameters, select and save preset programs, turn the machine on/off, and more.
Wireless interface control is a factory-installed option on select Trailblazer® 325 and Big Blue® welder/generators.

**Access**
Locate your engine drive’s output panels at the point of use. Minimize the need to climb onto the truck to make connections and optimize payload space.
Remote output panel kit is compatible with Bobcat®, Trailblazer® and Big Blue® welder/generators.

For more information visit MillerWelds.com/redefine
Remote start/stop
Take control and eliminate engine noise. Standard on most models. Easily turn your Bobcat machine on and off remotely so it only runs when you need it. Get more out of each tank, extend time between maintenance and work without the hassle of walking back to your machine.

Easier and more reliable engine starts
Carbureted gas Bobcat welder/generators now have eChoke technology, which automatically sets the proper air/fuel mixture and eliminates the need to manually engage the choke, so cold-starting is now hands free. eChoke is a trademark of Kohler Co.

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.

Compact design
Bobcat welder/generators can easily be moved around and take up less space, leaving more room on your truck for other equipment and tools.

Savings on fuel and maintenance
Remote start/stop allows you to quickly turn off your Bobcat welder/generator when it is not in use. With fewer engine hours, you will spend less money on fuel and less time and money on maintenance.

Less noise
Reduce the number of machines running on a jobsite and increase your awareness of potential warning sounds when you easily turn your Bobcat welder/generator off with remote start/stop.

SAVE
SAVE ON FUEL AND MAINTENANCE BY SHUTTING THE MACHINE OFF.

0 dB
WHEN YOU DON'T NEED POWER, TURN THE MACHINE OFF REMOTELY.
**Bobcat** **225** (Gas) See literature ED/4.41

Cost-effective, multiprocess welder/generator primarily used for stick welding. Great for farm, ranch and maintenance/repair.

Features three DC stick/TIG controls, one AC stick/TIG control and one wire range for output control. Stick ranges designed for 2.4, 3.2 and 4 mm (3/32, 1/8 and 5/32 in.). 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 farm and/or ranch.

**Bobcat** **260** (Gas or LP) See literature ED/4.42

Multiprocess welder/generator capable of carbon arc gouging features a larger stabilizer for less spatter and smoother arc. Ideal welder/generator for maintenance/repair, construction or farm/ranch.

Convenient front panel fuel gauge.

Precise amperage settings with wide 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 2.4, 3.2, 4 and 4.8 mm (3/32, 1/8, 5/32 and 3/16 in.). Very easy to set.

---

**Processes**

- AC/DC stick (SMAW)
- MIG (GMAW)
- Flux-cored (FCAW)
- AC/DC TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16 in.] carbons)
- With voltage-sensing feeder.
- With Dynasty® 210 Series.
- Bobcat 260 models only.

**Engines**

Gas: Kohler CH730 with eChoke™
23.5 hp at 3,600 rpm
EFI gas: Kohler ECH730
23 hp at 3,600 rpm
LP: Kohler CH730
21.5 hp at 3,600 rpm

V-twin-cylinder, four-cycle, overhead valve, industrial, air-cooled

**Most popular accessories**

- ArcReach® SuitCase® Feeders
- Dynasty® 210 Series
- Spectrum® 625 X-TREME™
- Running Gear
- Protective Cage with Cable Holders
- Hose and LP Tank Mounting Assembly
- Remote Oil Drain/Filter Kit
- Full KVA Adapter Cord 300517
- Protective Cover
- Remote Output Panel Kit 951850
- HWY-Mid Frame Trailer
- Remote Start/Stop Fob Replacement 286385
- GFCI Panel Mount 120 VAC Duplex Kit 300975
- Electric Fuel Pump Kit 300976 (gas models only, recommended for operation at altitudes above 1524 m [5,000 ft.])
- Spark Arrestor Kit 300924 (gas models only)

*Electric fuel pump recommended for operation at altitudes above 1524 m (5,000 feet).

**For LP model order Hose and LP Tank Mounting Assembly (300917) separately.

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Welding Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobcat 225</td>
<td>(907791001)</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>60–160 A</td>
<td>150 A at 25 V, 100% duty cycle Single-phase</td>
<td>11,000 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>220 kg (485 lb.)</td>
</tr>
<tr>
<td></td>
<td>(907791) Kohler with GFCI</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40–225 A</td>
<td>225 A at 25 V, 100% duty cycle</td>
<td>9,500 watts</td>
<td>H: 832 mm (32.75 in.)</td>
<td>225 kg (495 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>19–28 V</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td></td>
<td>D: 1,029 mm (40.5 in.)</td>
<td></td>
</tr>
<tr>
<td>Bobcat 3 Phase</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 Single-phase/three-phase</td>
<td>11,000 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>220 kg (485 lb.)</td>
</tr>
<tr>
<td></td>
<td></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>9,500 watts</td>
<td>H: 832 mm (32.75 in.)</td>
<td>225 kg (495 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>19–28 V</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td></td>
<td>D: 1,029 mm (40.5 in.)</td>
<td></td>
</tr>
<tr>
<td>Bobcat 260</td>
<td>(907792001)</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>40–260 A</td>
<td>260 A at 25 V, 60% duty cycle Single-phase</td>
<td>11,000 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>227 kg (501 lb.)</td>
</tr>
<tr>
<td></td>
<td>(907792) Kohler with GFCI</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>40–260 A</td>
<td>260 A at 25 V, 100% duty cycle</td>
<td>9,500 watts</td>
<td>H: 832 mm (32.75 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907792002)</td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>17–28 V</td>
<td>275 A at 25 V, 60% duty cycle</td>
<td>5,800 watts</td>
<td>H: 711 mm (28 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907793) EFI Kohler</td>
<td></td>
<td></td>
<td></td>
<td>260 A at 28 V, 100% duty cycle</td>
<td></td>
<td>D: 1,029 mm (40.5 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907794**)</td>
<td></td>
<td></td>
<td></td>
<td>12,000 watts</td>
<td>Continuous: 9,500 watts</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907794**)</td>
<td></td>
<td></td>
<td></td>
<td>12,000 watts</td>
<td>Continuous: 9,500 watts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Gas**

Gasoline

**Models**

- Bobcat 225
- Bobcat 3 Phase
- Bobcat 260

**Specifications**

- Single-phase:
  - Peak: 11,000 watts
  - Continuous: 9,500 watts
- Single-phase/three-phase:
  - Peak: 11,000 watts
  - Continuous: 10,000 watts
- EFI model:
  - Peak: 11,000 watts
  - Continuous: 10,000 watts

**Dimensions**

- H: 711 mm (28 in.)
- W: 508 mm (20 in.)
- D: 1,029 mm (40.5 in.)

**Net Weight**

- 220 kg (485 lb.)
- 225 kg (495 lb.)
- 227 kg (501 lb.)
Trailblazer® Series Gas, LP and Diesel

See lit. ED/4.75 (Gas/LP) and ED/4.8 (Diesel)

Trailblazer welder/generators deliver unbeatable arc performance providing the smoothest, most stable arc in the industry. Miller-exclusive Auto-Speed™ technology (now with 1,800 rpm level on diesel model) delivers superior runtimes, increased fuel efficiency, and improved welder/generator performance.

**Auto-Speed™ technology**

Get the welding power you need — plus reduced fuel consumption and lower noise levels for a more profitable jobsite. Trailblazer-exclusive Auto-Speed technology responds to weld requirements by automatically adjusting engine speed to a corresponding rpm level so the engine never works harder than necessary. Refueling time and operating costs are reduced, which means more productivity and profitability. Auto-Speed technology — available only from Miller.

**ArcReach® remote control technology**

Standard on most models — remote control of the power source without a control cord.

An ArcReach system allows you to change weld settings from your ArcReach feeder or remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs. Learn more at MillerWelds.com/arcreach

**Unbeatable arc performance**

Dynamic DIG™ technology automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

**Increased performance at high altitude**

Electric fuel pumps are now standard on all EFI models leading to better performance when operating at altitudes of 5,000 feet or greater.

**More productive job sites**

Quieter job sites are more productive because work crews can communicate easier, and work can start earlier and end later — even in noise-sensitive areas.

Trailblazer 325 EFI with optional Excel power shown.
Options to Maximize Your Trailblazer® 325 Performance

Electronic fuel injection (EFI) (gas models)

Adding EFI to your Trailblazer welder/generator adds multiple benefits. With EFI, you’ll get faster, more-reliable starts in any weather — no choke adjustments needed. EFI-equipped Trailblazer machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you’ll spend more of your time welding, improving productivity.

Add Excel power to your Trailblazer with EFI for maximum fuel efficiency.

Excel™ power

Excel power delivers a full 2,400 watts (20 A) of 120-volt inverter-based, pure sine wave power at all speeds, including idle. Unlike competitive machines that provide auxiliary power only at 3,600 rpm (max), with Excel power you can operate jobsite tools like grinders at quiet, fuel-saving speeds.

Refueling time and operating costs are reduced with Excel power, which means more productivity and profitability. Plus everyone on the jobsite gets a better working environment because noise levels are lowered. Excel power — available only from Miller.

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 or jump a stubborn engine, you’ll keep your crew working and the fleet up and running. Provides up to 75 amps or jump a stubborn engine, you’ll keep your crew working and the fleet up and running. Provides up to 75 amps. Excel power is available only from Miller.

Menu Options

- **For LP models order Hose and LP Tank Mounting Assembly (300917) separately.**
- **Electric fuel pump recommended for operation at altitudes above 1,524 m (5,000 ft.)**
- **Battery charge/jump cables (300422) must be ordered separately.**
- **Reduce downtime with battery charge/crank assist capability.**
- **Add Excel power to your Trailblazer with EFI for maximum fuel efficiency.**
- **Excel™ power.**
- **Refueling time and operating costs are reduced with Excel power, which means more productivity and profitability.**
- **Everyone on the jobsite gets a better working environment because noise levels are lowered. Excel power — available only from Miller.**
- **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 or jump a stubborn engine, you’ll keep your crew working and the fleet up and running.**
- **Provides up to 75 amps or jump a stubborn engine, you’ll keep your crew working and the fleet up and running.**
- **Provides up to 75 amps or jump a stubborn engine, you’ll keep your crew working and the fleet up and running.**
Trailblazer® 302 Air Pak™

Powerful all-in-one tool designed for repair and construction with multiprocess weld quality, generator power, air compressor and battery charge/jump start.

**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 13 mm [1/2 in.] mild steel).

**Rotary screw air compressor.** Delivers up to 0.88 m³/min. (31 cfm) and 160 psi of air with no storage tank. Gives 100 percent deliverable air and runs many tools at idle speed. Air outputs are rated at an industry-high 40°C (104°F). Front panel air pressure adjustment and automatic overpressure shutdown with indication. Designed for more than 30,000 hours of operation 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. Convenient front panel access.

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

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**Big Blue® 400X Pro**

The professional welder’s choice — designed with the professional in mind, the Big Blue 400X Pro is the best for ease of use, reliability and fuel economy.

**Available on select models. Remote control of the power source without a control cord.**

**Tailored arc control (DIG)** allows arc characteristics to be changed for specific applications and electrodes. Smooth running 7018 or stiffer, more penetrating 6010.

**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**10,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc!

**Quiet operation.** Only 71.6 decibels (96 Lwa) under full load. Improves jobsite communication and safety.

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

---

### Key Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>H: 711 mm (28 in.)</td>
</tr>
<tr>
<td></td>
<td>W: 508 mm (20 in.)</td>
</tr>
<tr>
<td></td>
<td>D: 1,514 mm (59.625 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>350 kg (771 lb.)</td>
</tr>
</tbody>
</table>

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### Sources

**ArcReach** models only with ArcReach Smart Feeder.

**Processes**

- AC/DC stick (GMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- AC/DC TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)

**Processes**

- Stick (GMAW) / MIG (GMAW)
- Flux-cored (FCAW) / DC TIG (GTAW)
- RMD** / Pulsed MIG (GMAW-P)**
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)

**Diesel engines**

- Kubota V1505: 20.2 hp at 1,800 rpm
- Four-cylinder, industrial, liquid-cooled

**CAT C1.5:** 21.7 hp at 1,800 rpm
- Three-cylinder, liquid-cooled

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### Other Accessories

- ArcReach® SuitCase® Feeders
- ArcReach® Smart Feeder**
- ArcReach® Stick/TIG Remote**
- Dynasty® 210 Series
- Protective Cover 195301
- **For ArcReach models only.**

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### Notes

1. *Recommended for operation at altitudes above 1,524 m (5,000 ft.).
2. With wire feeder.
3. Two-piece TIG torch recommended.

---

**Gasoline engine**

Kohler CH750: 27 hp at 3,600 rpm
- V-twincylinder, four-cycle, overhead valve, industrial, air-cooled

**Note:** Engine is warranted separately by engine manufacturer.

### Most popular accessories

- **SuitCase® Feeders**
- Spoolmatic® 30A Aluminum
- Spool Gun / WC-24 Control
- CAT 10831 / 137549
- HWF-Mid Frame Trailer 301438
- 7.6 m (25 ft.) Battery Charge/Jump Cables with Plug 300422

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### Key Features

- **302 Air Pak**
- **Big Blue 400X Pro**
- **Kohler CH750**
- **Spoolmatic 30A Aluminum**
- **CAT C1.5**
- **Dynasty 210 Series**
- **Protective Cover 195301**
- **SuitCase® Feeders**
- **Spool Gun / WC-24 Control**
- **CAT 10831 / 137549**
- **HWF-Mid Frame Trailer 301438**
- **7.6 m (25 ft.) Battery Charge/Jump Cables with Plug 300422**

---

**Note:** For ArcReach models only.
Big Blue® 500X Pro  See literature ED/11.0

Clean, quiet, multiprocess machines designed to give welders the output they need for heavy-duty applications on construction and fabrication sites.

ArcReach is beneficial when welding with stick and solid wires for easier fine-tuning of tough-to-weld materials and out-of-position applications.

Industrial USB port. Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

Low OCV stick (VRD) for improved operator safety without compromising arc starts.

Auto Remote Sense™ (ARS) detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

15,000 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.

**ArcReach models only with ArcReach Smart Feeder.

Diesel engine
Deutz D2011L03i
3-cylinder, industrial, air/oil-cooled
Note: Engines are warranted separately by engine manufacturer.

Most popular accessories
• ArcReach® SuitCase® 8/12
• ArcReach® Smart Feeder**
• ArcReach® Stick/TIG Remote**
• Dynasty 210® Series
• Full KVA Adapter Cord
• Full KVA Plug Kit
• Protective Cover
301495
301113
• HWY-225 Trailer 301338
• Wireless Remote Hand Control / Wireless Antenna Kit
300430/300749
• Spark Arrestor Kit 195012
**For ArcReach models only.

10,000 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.

**ArcReach models only with ArcReach Smart Feeder.

Diesel engine
Deutz D2011L03i
3-cylinder, industrial, air/oil-cooled
Note: Engines are warranted separately by engine manufacturer.

Most popular accessories
• ArcReach® SuitCase® 8/12
• ArcReach® Smart Feeder**
• ArcReach® Stick/TIG Remote**
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**ArcReach models only with ArcReach Smart Feeder.

Diesel engine
Deutz D2011L03i
3-cylinder, industrial, air/oil-cooled
Note: Engines are warranted separately by engine manufacturer.

Most popular accessories
• ArcReach® SuitCase® 8/12
• ArcReach® Smart Feeder**
• ArcReach® Stick/TIG Remote**
• Dynasty 210® Series
• Full KVA Adapter Cord
• Full KVA Plug Kit
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**ArcReach models only with ArcReach Smart Feeder.

Diesel engine
Deutz D2011L03i
3-cylinder, industrial, air/oil-cooled
Note: Engines are warranted separately by engine manufacturer.

Most popular accessories
• ArcReach® SuitCase® 8/12
• ArcReach® Smart Feeder**
• ArcReach® Stick/TIG Remote**
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Industrial USB port. Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

Low OCV stick (VRD) for improved operator safety without compromising arc starts.

Auto Remote Sense™ (ARS) detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

15,000 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.

**ArcReach models only with ArcReach Smart Feeder.

Diesel engine
Deutz D2011L03i
3-cylinder, industrial, air/oil-cooled
Note: Engines are warranted separately by engine manufacturer.

Most popular accessories
• ArcReach® SuitCase® 8/12
• ArcReach® Smart Feeder**
• ArcReach® Stick/TIG Remote**
• Dynasty 210® Series
• Full KVA Adapter Cord
• Full KVA Plug Kit
• Protective Cover
301495
301113
• HWY-225 Trailer 301338
• Wireless Remote Hand Control / Wireless Antenna Kit
300430/300749
• Spark Arrestor Kit 195012
**For ArcReach models only.
Big Blue® 500X CC and 600X CC

Designed for fleet owners that demand the ultimate in reliability and performance. Built with reliable, heavy-duty industrial components for operation in remote locations, without downtime.

### Heavy industrial

**Processes**
- Stick (SMAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (500X: rated 8 mm [5/16 in.] carbons); (600X: rated 9.5 mm [3/8 in.] carbons)

**Diesel engines**
- 500X – Deutz D2011L03i
  - 3-cylinder, industrial, air/oil-cooled
- 500X – Perkins 404D-22
  - 4-cylinder, industrial, liquid-cooled
- 600X – Deutz D2011L04i
  - 4-cylinder, industrial, air/oil-cooled
  
  Note: Engines are warranted separately by engine manufacturer.

**Most popular accessories**
- Engine Filter Kits
  - Deutz 2011 246988
  - Deutz 912 246989
  - Perkins 404 246985
- Cold Weather Starting Aids available for all units
- Weld Meters 195131
- Battery Voltmeter 195454
- Spark Arrestor Kit 195012
- Protective Cover 194683
- RHC-3GD34A Remote Hand Control 041122

**Meter maintenance displays:**
- Hour meter function and Oil change interval
- High coolant temperature and low oil pressure shutdowns
- Low fuel shutdown — engine shuts down before system runs out of fuel, making restarts easy

**Enclosed robust case design** protects internal components from impact and allows air flow to cool and prolong the life of the engine. Also reduces sound levels.

**Hot Start™** provides positive stick electrode starts making it easy to start all types of electrodes and it also works great for bead tie-ins.

**Arc-Drive™** makes welding easy. Automatically enhances stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

**5,500-watt peak AC power** independent of weld settings means no interaction between tools and welding arc.

**Quick and easy maintenance** with single-side access to oil level check, oil fill, oil filter, fuel filter and air cleaner.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Description</th>
<th>Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Generator Output Rated at 40°C (104°F)</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Blue 500 X CC</td>
<td>(907185) (907185001)</td>
<td>with auto idle, V-A meters and battery meter</td>
<td>Deutz D2011L03i</td>
<td>DC, Stick/TIG</td>
<td>55-500 A</td>
<td>Peak: 5500 watts</td>
<td>907185: 728 kg (1604 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400 A at 36 V (14.4 kW), 100% duty cycle</td>
<td>Continuous: 4000 watts, 34/17 A, 120/240 VAC, 50/60 Hz while welding</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>450 A at 38 V (17.1 kW), 60% duty cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>500 A at 30 V (15 kW), 40% duty cycle</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Big Blue 600 X CC | (907193) | with auto idle, V-A meters and battery meter | Deutz D2011L04i   | 65-600 A        | 500 A at 40 V (20 kW), 100% duty cycle |                                        | Deutz: 769 kg (1695 lb.) |
|                  |         |                                       |                  |                | 550 A at 34 V (18.7 kW), 60% duty cycle |                                        |
|                  |         |                                       |                  |                | 600 A at 30 V (18 kW), 40% duty cycle  |                                        |
Durable dual-operator welder/generator delivers proven CST stick/TIG performance with two superior arcs in one compact package, for maximum productivity and efficiency.

Two separate outputs with Tweco-style receptacles deliver up to 280 amps of output per operator.

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 panels and ignition switch.

Simple-to-operate process selector knob automatically sets proper DIG setting on E6010 and E7018 electrodes for 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 up to 34 percent with a dual-operator unit versus two single-operator units.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Process</th>
<th>Output Mode</th>
<th>Amperage Range</th>
<th>Rated Output at 50°C (122°F)</th>
<th>Single-Phase Generator Power at 50°C (122°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC stick/TIG</td>
<td>Separate (dual outputs)</td>
<td>5-225 (each side) 5-280 (one side only)</td>
<td>175 A at 27 V, 100% duty cycle</td>
<td>Continuous: 10,000 watts</td>
<td>H: 813 mm (32 in.) W: 667 mm (26.25 in.) D: 1,422 mm (56 in.)</td>
<td>483 kg (1,064 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

Big Blue® 700X Duo Pro

A complete multiprocess and multioperator welder/generator in one rugged package. Up to 400 amps of output per operator can be paralleled with a single switch to provide up to 800 amps of power.

Two independent pipe quality arcs in one compact package.

Multiprocess CC/CV capability provides independent operator controls and the best Stick, MIG, Flux-cored and TIG performance available with no interaction.

Easy arc starts and better arc control for best in class performance.

Independent remote control connections allow the use of standard and wireless volt/amperage control devices for each operator.

Quiet operation. At just 68 dB at idle or 76 dB at 7 m (23 ft.) at full load, it’s quieter than many single-operator models, improving jobsite communication and safety.

Smaller, lighter, quieter, and smoother running than competitive models with comparable output.

Standard features include oil pan heater, intake manifold heater, output paralleling switch and automatic idle.

Smart feeder compatible. Advanced RMD® and pulsed MIG processes are now available in an engine-driven welder/generator. Discover increased productivity, quality, and improved efficiency in field welding.

Three-Phase: 20,000 watts continuous or Single-Phase: 12,000 watts continuous 380/400V Three-Phase Auxiliary Power

H: 1,092 mm (43 in.) W: 724 mm (28.5 in.) D: 1,654 mm (65.125 in.) 784 kg (1,729 lb.)
Big Blue® 800X Duo Air Pak™

See literature ED/13.0

The most powerful diesel welder/generator in the industry. Robust output for welding and power generation, and 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.

**Arc control** is beneficial when welding with stick and solid wires for easier fine-tuning of tough-to-weld materials and out-of-position applications.

**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 (protects control panel and receptacles, see photo at right).

**Ingersoll Rand ultra-reliable industrial rotary screw compressor.** 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air — allows greater fuel savings and longer compressor service intervals.

---

**Ingersoll Rand CESS 01 Air Compressor**

<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: 1.13 m³/min (40 cm³)</td>
<td>100 psig (7 bar)</td>
<td>100%</td>
<td>3.79 L (4 qt.)</td>
</tr>
<tr>
<td>Weld: 1.70 m³/min (60 cm³)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Heavy industrial**

### Processes
- Stick (SMAW) • Mig (GMAW)
- Flux-cored (FCAW) • DC TIG (GTAW)
- RMD** • Pulsed Mig (GMAW-P)**
- Air carbon arc cutting and gouging (CAC-A) (rated 12.7 mm [1/2-in.] carbons)
- Stud (12.7 mm [1/2 in.])

*With ArcReach Smart Feeder.

### Diesel engine
Deutz TD2011L04i

63.4 hp at 1,800 rpm
Turbo-charged, four-cylinder, industrial, air/oil-cooled

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

### Most popular accessories
- ArcReach® SuitCase®
  - 8: 301457 / 12: 301456 / 12RC: 301121
- ArcReach® Smart Feeder 300935
- ArcReach® Stick/TIG Remote 301325
- Dynasty 210® Series
- Full KVA Adapter Cord 300517
- Full KVA Plug Kit 119172 Single-phase 254140 Three-phase
- Protective Cover 301113
- HWY-225 Trailer 301338
- Four-Wheel Off-Road Trailer 042801
- Wireless Remote Hand Control/ Wireless Antenna Kit 300430/300749

**Desiccant 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.

**Spark Arrestor Kit** 195012

**Remote control of the power source without a control cord.**

---

*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 also feature thermal overload protection, line voltage compensation and Fan-On-Demand.*

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage Range (CC Mode)</th>
<th>Voltage Range (Sub Arc Mode)</th>
<th>Rated Output</th>
<th>IP Rating</th>
<th>Amps Input at Rated Output, 50 Hz</th>
<th>Max Open-Circuit Voltage</th>
<th>Dimensions (Includes lift eye, but not strain relief)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc DC 650 Digital (907622)</td>
<td>50–815 A</td>
<td>20–44 V</td>
<td>650 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>95 90 83 50 34.8</td>
<td>75 Vpk</td>
<td>H: 762 mm (30 in.) W: 584 mm (23 in.) D: 965 mm (38 in.)</td>
<td>269 kg (593 lb.)</td>
</tr>
<tr>
<td>SubArc DC 800 Digital (907623)</td>
<td>100–1,250 A</td>
<td>20–44 V</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>135 128 117 73 53</td>
<td>68 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
<td>309 kg (682 lb.)</td>
</tr>
<tr>
<td>SubArc DC 1000 Digital (907624)</td>
<td>300–1,250 A</td>
<td>20–44 V</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>179 176 122 67</td>
<td>93 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
<td>538 kg (1,187 lb.)</td>
</tr>
</tbody>
</table>

*While idling.
Most popular accessories

- **SubArc Control Cables**
  - 260622030 9 m (30 ft.)
  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
  - 260622200 61.0 m (200 ft.)

**Easier setup and operation.** The SubArc Digital Series Interface controls recognize the power source and wire drive connected, and automatically configure the system for proper operation.

**Internal terminal strip** is able to integrate with positioners, sidebeams, turning rolls and other peripheral equipment.

---

**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

---

**Most popular accessories**

- **SubArc Control Cables**
  - 260622030 9 m (30 ft.)
  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
  - 260622200 61.0 m (200 ft.)

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**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

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- **SubArc Control Cables**
  - 260622030 9 m (30 ft.)
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  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
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**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

---

**Most popular accessories**

- **SubArc Control Cables**
  - 260622030 9 m (30 ft.)
  - 260622050 15 m (50 ft.)
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**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

---

**Most popular accessories**

- **SubArc Control Cables**
  - 260622030 9 m (30 ft.)
  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
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**Easier setup and operation.** The SubArc Digital Series Interface controls recognize the power source and wire drive connected, and automatically configure the system for proper operation.

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---

**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

---

**Most popular accessories**

- **SubArc Control Cables**
  - 260622030 9 m (30 ft.)
  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
  - 260622200 61.0 m (200 ft.)

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**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

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**Most popular accessories**

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  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)
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  - 260622120 36.6 m (120 ft.)
  - 260622200 61.0 m (200 ft.)

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**Internal terminal strip** is able to integrate with positioners, sidebeams, turning rolls and other peripheral equipment.

---

**SubArc Interface Control**

See literature AD/7.3

**SubArc Remote Operator Interface**

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

See literature AD/7.3

---

**Most popular accessories**

- **SubArc Control Cables**
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  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
  - 260622200 61.0 m (200 ft.)

**Easier setup and operation.** The SubArc Digital Series Interface controls recognize the power source and wire drive connected, and automatically configure the system for proper operation.

**Internal terminal strip** is able to integrate with positioners, sidebeams, turning rolls and other peripheral equipment.
SubArc Torches  See literature AD/7.3

**Most popular accessories**

- OBT 600 Torch Body Extensions
  - 043967  25.4 mm (1 in.)
  - 043969  50.8 mm (2 in.)
  - 043973  101.6 mm (4 in.)
  - 043975  152.4 mm (6 in.)
- OBT 1200 Torch Body Extension 043981
- Contact Tips

**OBT 600** is a 600-amp, 100 percent duty cycle torch with concentric flux flow nozzle. Can be used with 1.6–4.0 mm (1/16–5/32 in.) wire.

**OBT 1200** is a 1,200-amp, 100 percent duty cycle torch with concentric flux flow nozzle. Can be used with 1.6–4.8 mm (1/16–3/16 in.) 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)** is a 1,200-amp, 100 percent duty cycle torch. For use with 1.2–2.4 mm (3/64–3/32 in.) wire.

---

**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 27 kg (60 lb.) wire reel** for fewer time-consuming wire changeovers.

**Low-voltage 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.

---

**Model/Stock Number**

<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>1.6–4.0 mm (1/16–5/32 in.)</td>
<td>Single</td>
<td>260.4 mm (10.25 in.)</td>
</tr>
<tr>
<td>OBT 1200 (043900)</td>
<td>1,200 A at 100% duty cycle</td>
<td>1.6–4.8 mm (1/16–3/16 in.)</td>
<td>Single</td>
<td>438.2 mm (17.25 in.)</td>
</tr>
<tr>
<td>1200-Amp Twin-Wire Torch (301144) Long</td>
<td>1,200 A at 100% duty cycle</td>
<td>1.2–2.4 mm (3/64–3/32 in.)</td>
<td>Twin</td>
<td>431 mm (16.97 in.)</td>
</tr>
</tbody>
</table>

---

Required system components (sold separately)

- SubArc 3-Wheel Tractor 301446
- SubArc Tractor Interface Digital 301423
- SubArc Wire Drive 400 Digital Low Voltage 300938002
- 4.5 kg (10 lb.) capacity flux hopper with manual valve 301445
- 27 kg (60 lb.) wire reel 108008
- OBT 600 torch 043923
- Wire straightener 199733

**Required power source**

- SubArc Digital Series

**Most popular accessories**

- SubArc Control Cables
- Contact Tips
- Drive Rolls

---

**Model/Stock Number**

<table>
<thead>
<tr>
<th>Model/Stock Number</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>Digital 3-Wheel Tractor (301446)</td>
<td>24 VAC, 1-phase, 50/60 Hz, 25 A</td>
<td>0.8–10.2 mpm (30–400 ipm)</td>
<td>1.6–4.0 mm (1/16–5/32 in.)</td>
<td>88.9 mm (3.5 in.)</td>
<td>38 VDC</td>
<td>0.13–1.75 m/min. (5–70 ipm)</td>
<td>H: 914 mm (36 in.)</td>
<td>54.4 kg (120 lb.)</td>
</tr>
<tr>
<td>Subarc Tractor Interface (301423)</td>
<td>24 VAC, 1-phase, 50/60 Hz, 25 A</td>
<td>0.8–10.2 mpm (30–400 ipm)</td>
<td>1.6–4.0 mm (1/16–5/32 in.)</td>
<td>88.9 mm (3.5 in.)</td>
<td>38 VDC</td>
<td>0.13–1.75 m/min. (5–70 ipm)</td>
<td>W: 1,149 mm (43.25 in.)</td>
<td>54.4 kg (120 lb.)</td>
</tr>
<tr>
<td>Subarc Flux Hopper Manual (301445)</td>
<td>24 VAC, 1-phase, 50/60 Hz, 25 A</td>
<td>0.8–10.2 mpm (30–400 ipm)</td>
<td>1.6–4.0 mm (1/16–5/32 in.)</td>
<td>88.9 mm (3.5 in.)</td>
<td>38 VDC</td>
<td>0.13–1.75 m/min. (5–70 ipm)</td>
<td>D: 803 mm (31.63 in.)</td>
<td>54.4 kg (120 lb.)</td>
</tr>
</tbody>
</table>
**SubArc Flux Hopper**

See literature AD/7.3

**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 hook-up 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>3.3 m (11 ft.)</td>
<td>11 kg (25 lb.)</td>
<td>5 kg (11 lb.)</td>
</tr>
</tbody>
</table>

**SubArc Portable Welding System**

See literature AD/7.6

**Self-contained system** for pressure vessel, pipe and general welding applications. Houses a power source, column and boom on a mobile platform.

**Built-in fork pockets and caster wheels** allow welding system to be brought to the joint.

**Easy positioning of the weld head** through use of integrated motorized column, manual telescoping boom, slide and 360-degree column rotation.

**Motorized column with pendant control and manual telescoping boom** provides 1,117 mm (44 inches) of vertical travel and 787 mm (31 inches) of horizontal travel respectively.

**Manual slide** provides 200 mm (7.87 inches) of fine vertical and horizontal torch adjustment.

**Stock Number**

(301133004) Column and Boom only with International packing

<table>
<thead>
<tr>
<th>Supply Voltage</th>
<th>Column Stroke</th>
<th>Column Travel</th>
<th>Boom Stroke</th>
<th>Boom Travel</th>
<th>Base Rotation</th>
<th>Overall Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 V, 1-phase, 60 Hz</td>
<td>1,117 mm (44 in.)</td>
<td>Constant speed</td>
<td>787 mm (31 in.)</td>
<td>Manual</td>
<td>360°</td>
<td>2,590 mm (102 in.)</td>
</tr>
</tbody>
</table>
ProHeat™ Induction Heating

Induction heating is a simple and cost-effective heating process that can deliver fast and consistent heat. Applications that would typically require hours to heat can be done in minutes.

- Welding fabrication and construction
- Preheating of welds
- Post-weld heat treatment (PWHT)
- Hydrogen bake out
- Shrink fit applications

Induction heating solves many key issues in today’s environment.

- Does not produce the exposure to burns associated with open flames and electrical resistance wires (only the work part becomes hot)
- No significant expense of fuel gases
- Produces 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 9.5 L (2.5 gal.) rustproof polyethylene tank, high-pressure pump and blower to yield a high cooling capacity.

To learn more:

Contact your distributor or regional ITW Welding office

ProHeat 35 power source shown with optional heavy-duty induction cooler, running gear and digital recorder.

Note: Primary input cable is not included with power source.
One ProHeat™ System — Four Basic Induction Heating Configurations

ProHeat 35 induction heating systems solve preheating, post weld heat treatment (PWHT) and stress relieving problems.

Liquid-Cooled Cables  See literature IN/15.0
Preheat applications up to 788°C (1,450°F).
- A highly versatile tool for preheating, stress relieving, hydrogen bakeout, 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 315°C (600°F).
- Ideal for preheating rolling pipe and moving parts, with easy and time-saving setup and movement for maintaining and adhering to preheat and interpass temperatures
- Enables the benefits of rolled pipe welding while also addressing some of the concerns associated with other popular heating methods, such as open flame and resistance heating
- Optional infrared temperature sensor can read the temperature on the moving part from 100–400°C (212–750°F)
- Optional travel detect system can be used for setting different heating rates/ramps based on workpiece speed travel — when no movement is detected the system turns off the output preventing damage to workpiece and rolling inductor

Air-Cooled Blankets  See literature IN/14.0
Preheating applications up to 204°C (400°F).
- Air-cooled blankets are available for pipe diameters from 20–152 cm (8–60 in.) or in the case of plate, the lengths are 1–5.2 m (41–205 in.)
- The blankets easily conform to circular and flat parts and install in a matter of seconds
- Manufactured from durable high-temperature materials, flexible induction blankets are designed to withstand the tough conditions in both industrial and construction applications

Air-Cooled Cables  See literature IN/14.0
Preheating applications up to 200°C (392°F).
- Air-cooled cables are available in lengths of 9.1 m (30 ft.), 15.2 m (50 ft.) or 24.4 m (80 ft.) for flexible configurations
- Designed with flexibility and efficiency in mind, the air-cooled cables can be wrapped into coils of various shapes and sizes to fit almost any induction preheating application, without the need for cooler and coolant
- Air-cooled cables provide the same flexibility as liquid-cooled cables for preheating
ArcReach® Heater Air-Cooled Induction System

See literature IN/16.0

Field preheat and bakeout applications up to 315°C (600°F).

ArcReach Heater systems allow economical insourced weld preheating and bakeout. The induction heating tools (air-cooled cables or air-cooled quick wraps) connect to the ArcReach Heater, which is powered by select on-site welding power sources. With ArcReach Heater systems you can:

- Eliminate the costly overruns common with heating contractors
- Eliminate delays due to transitions between heating and welding crews
- Run your own schedule without depending on third-party contractors
- Use existing on-site welding equipment up to 61 m (200 ft.) away as the heating power source
- Lower preheating and bakeout costs
- Automatically and accurately document joint temperatures
- Eliminate safety concerns caused by traditional resistance and open-flame heating

Easy setup with flexibility to fit a variety of pipe diameters, plates or odd geometries.

Time-to-temperature is faster than conventional processes due to the method of applying heat, reducing cycle time.

Uniform heating is maintained along and through the heat zone by using induction heat within the material. The surface of the part is not marred by localized conducted heat at higher than specified temperatures.

Improved working environment during welding. Welders are not exposed to open flames, explosive gases and hot elements associated with fuel gas heating and resistance heating.

ArcReach Heater is equipped with built-in temperature control allowing for either manual or computer-loaded programming using up to six thermocouples. It can run either one or two heating tools (air-cooled cable or air-cooled quick wrap) at the same time. Requires ArcReach Heater extension cable to operate.

Air-cooled cables are designed with flexibility and efficiency in mind. Cables can be wrapped into coils of various shapes and sizes to fit any induction preheat or bakeout application (flat plate, pipe, odd geometries).

Air-cooled quick wraps provide a fast and easy way to wrap a pipe joint (up to 254 mm [10 in.] diameter) for preheat and bakeout. Simply place around the pipe, connect the ends, and cinch the clip as close to the pipe as possible.

Durable high-temperature materials. Air-cooled cables and quick wraps are designed to withstand the tough conditions in both industrial and construction applications.

Preheat and bakeout programs can be manually entered or loaded via USB drive. Heating data is automatically recorded and can be used in quality control and documentation needs.

Input Power
- Operates on open-circuit voltage: 50–70 V provided by an XMT 350 FieldPro or ArcReach-equipped engine drive

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Stock Number</th>
<th>Output Power</th>
<th>Output Current</th>
<th>Output Voltage</th>
<th>Source Current</th>
<th>Output Frequency</th>
<th>Rated Output</th>
<th>Heater Dimensions</th>
<th>Heater Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(301390)</td>
<td>(301391)</td>
<td>Operates on open-circuit voltage: 50–70 V provided by an XMT 350 FieldPro or ArcReach-equipped engine drive</td>
<td>200 A</td>
<td>300 V</td>
<td>33 A</td>
<td>5–30 kHz</td>
<td>7.8 kW at 100% duty cycle</td>
<td>H: 142 mm (5.6 in.)</td>
<td>20 kg (44 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Suggested power sources
- XMT® 350 FieldPro
- Trailblazer® Series (ArcReach models only)
- Big Blue® Series (ArcReach models only)

Most popular accessories
- ArcReach Heater Extension Cable 301451 3 m (10 ft.)
- Air-Coated Quick Wrap 301452
- Air-Coated Cable 301453030 9.1 m (30 ft.)
- 301453050 15.2 m (50 ft.)
- 301453080 24.4 m (80 ft.)
- Cable Cover 204611 9.1 m (30 ft.)
- 204614 15.2 m (50 ft.)
- 204620 24.4 m (80 ft.)
- Preheat Insulation 204669 1.3 x 15 x 305 cm (1/2 x 6 x 120 in.)
- 195376 1.3 x 15 x 610 cm (1/2 x 6 x 240 in.)
- 211474 1.3 x 31 x 305 cm (1/2 x 12 x 120 in.)
- Preheat Insulation w/Cable Harness 301334 1.3 x 41 x 305 cm (1/2 x 16 x 120 in.)
- Series Cable Adapter 195437
- High-Temperature Rope 194965
- Temperature Measurement (two options available)
  - Contact Thermocouple Sensor (Probe) 301517 OR welded on thermocouples which requires 152 m (500 ft.) Thermocouple Wire 194999, Thermocouple Connectors (10 pack) 195098, and Thermocouple Attachment Unit 194959

ArcReach Heater Air-Cooled Induction System

Process
- Induction heating

Suggested power sources
- XMT® 350 FieldPro
- Trailblazer® Series (ArcReach models only)
- Big Blue® Series (ArcReach models only)
Our Spectrum line of plasma cutters provides big cutting power in portable packages and with features like flexible cables and Auto-Refire technology they are better than ever. Step up to Spectrum 625 X-TREME™ or 875/875 Auto-Line™ models to add Ultra-Quick Connect hand-held torches. Machine torch capabilities are available with Spectrum 875/875 Auto-Line™ models only.

### Spectrum Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>375 X-TREME</th>
<th>625 X-TREME</th>
<th>875 X-TREME</th>
<th>875 Auto-Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Line (120–240 V)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto-Line (208–575 V)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MVP™ plugs/adapters</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Ultra-Quick Connect torch with flexible cable</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Quick connect flexible work cable with clamp</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Built-in gas/air filter and regulator</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto-Refire</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto postflow</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto air regulation</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>X-CASE™</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Machine torch capable</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Steel/Stainless/Aluminum Rated Cutting Capacity

<table>
<thead>
<tr>
<th>Steel/Stainless</th>
<th>Aluminum</th>
<th>Spectrum</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5 mm (3/8 in.)</td>
<td>9.5 mm (3/8 in.)</td>
<td>15.9 mm (5/8 in.)*</td>
</tr>
</tbody>
</table>

*Ss: 12.7 mm (1/2 in.) for Spectrum 625 X-TREME.

Cut capacity ratings are based on traveling speed of approximately 381 mm (15 in.) 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 the amount of airborne dust/dirt pulled through the unit.

### Quick connect flexible work cable with heavy-duty clamp.

### Steel/Stainless/Aluminum

<table>
<thead>
<tr>
<th>Model</th>
<th>Hand-Held Torch Packages</th>
<th>Long Body Machine Torch Packages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum 375 X-TREME</td>
<td>3.7 m (12 ft.)</td>
<td>6.1 m (20 ft.)</td>
</tr>
<tr>
<td>Spectrum 625 X-TREME</td>
<td>(907529)</td>
<td></td>
</tr>
<tr>
<td>Spectrum 875 X-TREME</td>
<td>(907579)</td>
<td>(907579001)</td>
</tr>
<tr>
<td>Spectrum 875 Auto-Line</td>
<td>(907584)</td>
<td>(907584001)</td>
</tr>
</tbody>
</table>

*Stainless: 12.7 mm (1/2 in.) for Spectrum 625 X-TREME.

*Ss: 12.7 mm (1/2 in.) for Spectrum 625 X-TREME.
**Spectrum® 375 X-TREME™/625 X-TREME™**

- Allows for any input voltage hook-up (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 or short body machine torch.**

---

**Spectrum® 875/875 Auto-Line™**

- **Spectrum 875 Auto-Line model** allows for any input voltage hook-up (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. **Standard Spectrum 875 model operates on 208/230 V, single-phase input voltage only.**
- **Consumables storage compartment** provides convenient access to consumables and parts.
- **Automatic air regulation** compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

---

**Table:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Power</th>
<th>Rated Output at 40°C (¹⁰⁴°F)</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><strong>Spectrum 375</strong></td>
<td><strong>X-TREME</strong> 120–240 V, 50/60 Hz</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>142 L/min. (5.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)</td>
<td>8.6 kg (19 lb.)</td>
</tr>
<tr>
<td></td>
<td>120 V (20 A): 27 A at 91 VDC, 20% duty cycle</td>
<td>25.6</td>
<td>2.1</td>
<td>2.0</td>
<td>170 L/min. (6.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)</td>
<td>8.6 kg (19 lb.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>240 V: 30 A at 92 VDC, 35% duty cycle</td>
<td>13.6</td>
<td>3.3</td>
<td>3.1</td>
<td>142 L/min. (5.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)</td>
<td>8.6 kg (19 lb.)</td>
<td></td>
</tr>
<tr>
<td><strong>Spectrum 625</strong></td>
<td><strong>X-TREME</strong> 120–240 V, 60 Hz</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>170 L/min. (6.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)</td>
<td>8.6 kg (19 lb.)</td>
</tr>
<tr>
<td></td>
<td>120 V (20 A): 27 A at 91 VDC, 20% duty cycle</td>
<td>25.6</td>
<td>3.0</td>
<td>2.9</td>
<td>142 L/min. (5.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)</td>
<td>8.6 kg (19 lb.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>240 V: 40 A at 140 VDC, 50% duty cycle</td>
<td>13.6</td>
<td>6.4</td>
<td>6.3</td>
<td>142 L/min. (5.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)</td>
<td>8.6 kg (19 lb.)</td>
<td></td>
</tr>
<tr>
<td><strong>Spectrum 875</strong></td>
<td><strong>Auto-Line</strong> 208–575 V, 50/60 Hz</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>208 V: 47</td>
<td>230 V: 42</td>
<td>9.9</td>
<td>9.8</td>
<td>191 L/min. (6.75 dm³) at 621 kPa (90 psi)</td>
<td>H: 343 mm (13.5 in.) W: 222 mm (8.75 in.) D: 470 mm (18.5 in.)</td>
</tr>
<tr>
<td></td>
<td>230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>208 V: 47</td>
<td>230 V: 42</td>
<td>9.9</td>
<td>9.8</td>
<td>191 L/min. (6.75 dm³) at 621 kPa (90 psi)</td>
<td>H: 343 mm (13.5 in.) W: 222 mm (8.75 in.) D: 470 mm (18.5 in.)</td>
<td>6.1 kg (13 lb.)</td>
</tr>
<tr>
<td><strong>Spectrum 875</strong></td>
<td><strong>Auto-Line</strong> 208–575 V, 50/60 Hz</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>208 V: 27.5</td>
<td>230 V: 25</td>
<td>380 V: 15</td>
<td>460 V: 12.4</td>
<td>575 V: 9.8</td>
<td>9.9</td>
</tr>
<tr>
<td></td>
<td>230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>208 V: 27.5</td>
<td>230 V: 25</td>
<td>380 V: 15</td>
<td>460 V: 12.4</td>
<td>575 V: 9.8</td>
<td>9.9</td>
<td>9.4</td>
</tr>
<tr>
<td></td>
<td>230 V: 50 A at 140 VDC, 100% duty cycle</td>
<td>208 V: 47.4</td>
<td>230 V: 42.2</td>
<td>9.9</td>
<td>9.7</td>
<td>142 L/min. (5.0 dm³) at 621 kPa (90 psi)</td>
<td>H: 343 mm (13.5 in.) W: 222 mm (8.75 in.) D: 470 mm (18.5 in.)</td>
<td>6.1 kg (13 lb.)</td>
</tr>
</tbody>
</table>

---

**Plasma Cutters**

**Spectrum 875 shown.**

**XT40 hand-held torch** with ergonomic design and flexible cable. **XT60M long body or short body machine torch.**

**Most popular accessories**

- Automation Kits
- Cables and Cable Covers
- Cutting Guides
- Filters
- Plugs and Cords
- Protective Covers/Cases
- Torches
- Torch Consumables

---

**Light industrial** 875/625 models**

- **Only 875 Auto-Line has 3-phase capabilities.**

**Processes**

- Air plasma cutting
- Air plasma gouging (625/875 models)

**375 X-TREME package comes complete with**

- XT30 hand-held torch (3.7 m (12 ft.) cable)
- Heavy-duty work clamp with 3.7 m (12 ft.) flexible cable
- 3 m (10 ft.) power cord with MVP 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A) plugs
- X-CASE for protection and storage
- Shoulder strap
- Consumables box with two electrodes, two tips, deflector and air fitting

**625 X-TREME packages come complete with**

- XT40 hand-held torch with 3.7 m (12 ft.) or 6.1 m (20 ft.) cable
- OR XT40M long body or short body machine torch with 7.6 m (25 ft.) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 3 m (10 ft.) power cord
- Extra consumables
- Machine torch packages include corresponding automation kit

**875 and 875 Auto-Line packages come complete with**

- XT60 hand-held torch with 6 m (20 ft.) or 15.2 m (50 ft.) cable
- OR XT60M long body or short body machine torch with 7.6 m (25 ft.) or 15.2 m (50 ft.) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 3 m (10 ft.) power cord
- Extra consumables
- Machine torch packages include corresponding automation kit
Respiratory

PAPR Systems
PAPR (Powered Air Purifying Respirator) systems consist of blower assembly, HEPA filter, prefilters (6), spark guard, breathing tube, breathing tube cover, padded belt, comfortable shoulder straps, lithium-ion batteries (2), battery charger, flowmeter, tool bag, and helmet assembly OR helmet assembly with integrated hard hat OR face shield assembly with clear shield (see packages at right).
- HEPA filter provides up to 99.97 percent filtration of airborne particulate
- NIOSH 42 CFR 84 certified, assigned protection factor of 25 with standard head seal OR 1,000 with optional heavy-duty head seal (Hard Hat and Face Shield only)

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 (T94-R and Face Shield) provides secure fit without the need for over-tightening.
MSA Fas-Trac® III ratchet-suspension headgear (Hard Hat) provides exceptional comfort, reducing pressure points while increasing stability.
Lightweight low-profile blower assembly with integrated shoulder straps reduces lower back strain and fatigue.

Superior visibility
ClearLight™ Lens Technology (T94-R) provides high-definition optics for precision arc recognition.
ClearLight™ 2.0 Lens Technology (Hard Hat) provides advanced high-definition optics for the most realistic view that’s clearer and brighter — before, during and after every weld.
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.
Large integrated grind shield (T94-R and Hard Hat) provides 44 sq. in. of clear viewing area for grinding and other tasks.

High-Definition View (HDV) technology (Hard Hat and Face Shield) for a sharp detailed view at any angle with minimal distortion.

Improved productivity
Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.
Low-profile breathing-tube attachment eases on/off process while flexible tube material reduces breathing tube snags in work cell.
Two lightweight lithium-ion batteries included with each package eliminate downtime.
Respiratory

SAR Systems

With T94i-R™ helmet (integrated clear grind shield)

951800 With auto-darkening lens assembly and 7.6 m (25 ft.) straight air hose
951801 With auto-darkening lens assembly and 30.5 m (100 ft.) straight air hose
951802 With auto-darkening lens assembly and 7.6 m (25 ft.) coiled air hose
951803 With auto-darkening lens assembly and 30.5 m (100 ft.) coiled air hose
264871 With auto-darkening lens assembly (air hose not included)

T94i-R™ helmet upgrade kit (for use with existing SAR system)
279871 Includes T94i-R helmet assembly, breathing tube, breathing tube cover and flowmeter

Filters and accessories
SA00820 P100/OV filters (one pair)
285686 Protective hard carrying case
261086 Quantitative fit-test kit adapter

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

BreatheAir™ panel
275961 Two person, 10 ppm alarm
275970 Four person, 10 ppm alarm
Supplies Grade-D breathing air while monitoring for CO.
Monitor calibration kit
275988 10 ppm

Half Mask Respirators

LPR-100™ OV
Half Mask Respirator
See literature AY/4.5

ML00996 Respirator with P100 organic vapor filters (small/medium)
ML00997 Respirator with P100 organic vapor 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

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 T94™ and Digital Elite™ welding helmets and provides maximum field of vision.
• P100/OV filters provide up to 99.97 percent filtration of specific organic vapors and airborne particulates
• NIOSH 42 CFR 84 certified, assigned protection factor of 10

SAR (Supplied Air Respirator) systems consist of C50 air regulator, belt assembly, flowmeter, breathing tube, breathing tube cover, tool bag, T94i-R helmet assembly and air hose (see packages at left).

• NIOSH 42 CFR 84 certified, assigned protection factor of 25. To provide a NIOSH-approved respiratory system, the SAR with T94i-R must be used with Miller® helmet, hoses, connectors, filters and other components recommended by Miller

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 can be positioned horizontally or vertically to naturally align with body movements.
Clear/Light™ Lens Technology provides high-definition optics for precision arc recognition.
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.
Large integrated grind shield provides 44 sq. in. of clear viewing area for grinding and other tasks.
Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.
Low-profile breathing-tube attachment eases on/off process while flexible tube material reduces breathing tube snaps in work cell.
C50 air regulator cools Grade-D breathing air by up to 28°C (50°F) under your hood, heightening productivity and relieving heat stress. Performance under different applications may vary. 360-degree swivel air hose connection alleviates hose coiling, reducing potential trip hazards.

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

BreatheAir™ panel
275961 Two person, 10 ppm alarm
275970 Four person, 10 ppm alarm
Supplies Grade-D breathing air while monitoring for CO.
Monitor calibration kit
275988 10 ppm
## Welding Helmets

**NEW! T94i XL 287768**

**T94i™ 288759**

**T94™ 288758**

### Viewing Area

<table>
<thead>
<tr>
<th></th>
<th>NEW! T94i XL</th>
<th>T94i™</th>
<th>T94™</th>
<th>Digital Infinity™</th>
<th>Digital Elite™</th>
<th>Digital Performance™</th>
<th>Classic VSI™</th>
<th>Classic VS</th>
<th>Classic FS/IO Flip-Up</th>
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</thead>
<tbody>
<tr>
<td>13 sq. in</td>
<td>9 sq. in.</td>
<td>9 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>6 sq. in.</td>
<td>5.1 sq. in.</td>
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### Auto-Darkening

- Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes

### ClearLight™ Lens Technology

- —

### ClearLight™ 2.0 Lens Technology

- Yes

### AutoSense™

- —

### Modes

- Weld/Cut/X-Mode/Flip grind
- Weld/Cut/X-Mode/Flip grind
- Weld/Cut/X-Mode/External grind
- Weld/Cut/X-Mode/Grind or Grind
- Weld/Cut/X-Mode/Grind
- Weld/Cut/X-Mode/Flip grind
- Weld/Cut/X-Mode/Grind
- Weld/Cut/X-Mode/Flip grind
- Weld/Cut/X-Mode/Grind

### Shades

- Weld: 8-14 Cut: 5-8
- Weld: 8-14 Cut: 5-8
- Weld: 8-13 Cut: 5-8 Grind: 3
- Weld: 8-13 Cut: 5-8 Grind: 2.5 or 3
- Weld: 8-13 Cut: 5-8 Grind: 3

### Integrated Grind Shield

- Yes

### Auto-on

- Yes

### Sensors

<p>| | | | | | | | | | |</p>
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<td>5 amp.</td>
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### TIG Rating

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<td>1/25,000 second</td>
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<td>1/20,000 second</td>
<td>1/23,000 second</td>
<td>1/3,600 second</td>
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</tr>
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### Switching Speed

- 3 amps
- 3 amps
- 3 amps
- 5 amp./below
- 5 amp./below
- 5 amp
- 5 amp./below
- 5 amp./below
- 20 amps

### Digital Controls

- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes

### Premium Headgear

- Yes

### HDV Technology

- Yes

### InfoTrack™ 2.0

- Yes

### Weight

<p>| | | | | | | | | | |</p>
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<tbody>
<tr>
<td>Weld</td>
<td>794 g (28 oz.)</td>
<td>737 g (26 oz.)</td>
<td>599 g (21 oz.)</td>
<td>652 g (23 oz.)</td>
<td>510 g (18 oz.)</td>
<td>482 g (17 oz.)</td>
<td>652 g (23 oz.)</td>
<td>454 g (16 oz.)</td>
<td>396 g (14 oz.)</td>
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<tr>
<td>Cutting</td>
<td>794 g (28 oz.)</td>
<td>737 g (26 oz.)</td>
<td>599 g (21 oz.)</td>
<td>652 g (23 oz.)</td>
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<td>482 g (17 oz.)</td>
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<td>482 g (17 oz.)</td>
<td>454 g (16 oz.)</td>
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<td>-</td>
</tr>
</tbody>
</table>

### Warranty

- 4 years
- 4 years
- 4 years
- 4 years
- 4 years
- 4 years
- 3 years
- 3 years
- 3 years

### See chart above for feature availability.

**ClearLight™ Lens Technology** provides high-definition optics for precision arc recognition.

**ClearLight™ 2.0 Lens Technology** provides advanced high-definition optics for the most realistic view that’s clearer and brighter — before, during and after every weld.

**AutoSense™** reduces issues related to setting helmet sensitivity by allowing the welder to push and hold the AutoSense button to automatically set the helmet sensitivity for their environment.

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

**HDV Technology** The curve of traditional lens designs can often times distort or blur your view. HDV technology provides a sharp detailed view at any angle with minimal distortion.

**InfoTrack™ 2.0** data monitoring technology tracks arc time and arc count.

**Improved! T94™ Series** Maximized comfort, visibility and productivity for the professional welder. See literature AV/41.1

**All T94 Series helmets now feature ClearLight™ 2.0 Lens Technology.**

** Matte silver finish** reflects ambient heat, keeping the user cooler.

**Four operating modes** for ultimate versatility: weld, cut, grind and X-Mode™

**Half-shade settings** for precise lens adjustment.

**Simplistic digital lens interface** allows for easy adjustment with or without gloves.

**Shade 5.0 side windows** enhance peripheral vision, amplifying sense of surroundings.

**Chiseled shell design** provides optimal skin coverage while easily accommodating a Miller® Half Mask Respirator.

**Gen IV premium headgear** with four-point flexible design provides a secure fit, while avoiding major pressure points within the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.

**HDV technology** provides a sharp detailed view at any angle with minimal distortion on integrated grind shield (T94i XL/T94i) and quick-release one-piece cover lens (all models).

**Helmet Lighting Accessory** 281361

- Provides additional lighting in low-light environments for T94 welding helmets
- Includes two lights (one for each side) and all required mounting hardware

**Best-in-class comfort for all-day wearability**

Lightweight, well-balanced design reduces neck torque, minimizing operator fatigue and strain, leading to an increase in comfort.

**4% LIGHTER** for reduced fatigue

**14% BETTER BALANCE** for elevated comfort

**17% LESS TORQUE** for reduced neck strain

Statistics above compare T94i to previous model.
**IMPROVED!** Digital Infinity, Digital Elite and Digital Performance Series helmets now feature ClearLight™ 2.0 Lens Technology.

---

**Digital Infinity™ Series**

Largest viewing area maximizes visibility. See literature AY/42.5

<table>
<thead>
<tr>
<th>Helmet</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>289714, CE</td>
</tr>
<tr>
<td>Black Ops®</td>
<td>289715, CE</td>
</tr>
<tr>
<td>Departed®</td>
<td>289720, CE</td>
</tr>
<tr>
<td>Stars and Stripes®</td>
<td>288420</td>
</tr>
<tr>
<td>Relic®</td>
<td>288722</td>
</tr>
<tr>
<td>Imperial®</td>
<td>288725</td>
</tr>
<tr>
<td>'22 Custom Kindig-it</td>
<td>292933</td>
</tr>
</tbody>
</table>

---

**Digital Elite™ Series**

Industry-leading helmet provides high-performance versatility. See literature no. AY/43.5 (External Grind) and AY/43.0 (all others)

<table>
<thead>
<tr>
<th>Helmet</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black w/External Grind</td>
<td>288924, CE</td>
</tr>
<tr>
<td>Black</td>
<td>289755, CE</td>
</tr>
<tr>
<td>Lucky’s Speed Shop®</td>
<td>289756, CE</td>
</tr>
<tr>
<td>Stars and Stripes® III</td>
<td>289759, CE</td>
</tr>
<tr>
<td>Inferno®</td>
<td>289762, CE</td>
</tr>
<tr>
<td>Vintage Roadster®</td>
<td>289764, CE</td>
</tr>
<tr>
<td>Raptor®</td>
<td>289768, CE</td>
</tr>
<tr>
<td>Gear Box®</td>
<td>289844</td>
</tr>
<tr>
<td>Blue Rage® II</td>
<td>281010</td>
</tr>
</tbody>
</table>

---

**Digital Performance™ Series**

Lightweight helmet with superior headgear for ultimate comfort. See literature AY/44.0

<table>
<thead>
<tr>
<th>Helmet</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>289942, CE</td>
</tr>
<tr>
<td>Blue Rage®</td>
<td>289902, CE</td>
</tr>
<tr>
<td>'64 Custom®</td>
<td>289807, CE</td>
</tr>
<tr>
<td>Crusher®</td>
<td>289808</td>
</tr>
<tr>
<td>Unly®</td>
<td>282006</td>
</tr>
</tbody>
</table>

---

**Helmet Lighting Accessory**

282013

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

---

**Classic Series**

Helmets for the value-minded welder. See literature AY/45.5

<table>
<thead>
<tr>
<th>Helmet</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSi™</td>
<td>287794</td>
</tr>
<tr>
<td>Black (VS)</td>
<td>287803, CE</td>
</tr>
<tr>
<td>Metalworks® (VS)</td>
<td>287810, CE</td>
</tr>
<tr>
<td>Rise® (VS)</td>
<td>287815, CE</td>
</tr>
<tr>
<td>Liberty® (VS)</td>
<td>287820</td>
</tr>
<tr>
<td>Metal Matrix® (VS)</td>
<td>288519</td>
</tr>
<tr>
<td>Hex® (VS)</td>
<td>291189</td>
</tr>
<tr>
<td>FS#10 Flip-Up</td>
<td>287798</td>
</tr>
</tbody>
</table>

---

**MP-10™**

Black 238497

Best-in-class traditional passive shade 10 lens helmet.
Welding Helmet Accessories

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

- **Hard Hat Adapter** 265315
  - For T94™ welding helmets
  - For Titanium™, Infinity™, Elite™, Performance™, Classic and MP-10™ welding helmets
  - Compatible with most Fibre Metal and MSA hats. Other brands may fit depending on size and shape. Helmet and hat not included

- **2x4 Auto-Darkening Lens with Clearlight™ Lens Technology**
  - Shade 9
  - Shade 10
  - Shade 11
  - Fits all 2x4-inch windows
  - Solar powered
  - Two arc sensors
  - Two-year warranty

- **Magnifying Lens**
  - Shade 9 Lenses
  - Shade 10 Lenses
  - Shade 11 Lenses
  - Fits all 2x4-inch windows
  - Solar powered
  - Two arc sensors
  - Two-year warranty

- **Weld-Mask Lighting Accessory 281188**
  - Snaps onto brow of Weld-Mask 2 model to provide additional lighting in low-light environments

- **Weld-Mask Hard Hat Adapters 285757**
  - Snaps onto sides of most slotted hard hats to secure Weld-Mask

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

- **Helmet Cape 279078**
  - Flame-resistant material provides additional head and back-of-the-neck coverage for the T94 welding helmets

- **Helmet Hook 251018**
  - Holds welding helmets, grinding shields or other helmets with a headgear
  - Silicone strap secures the helmet in place

- **Jobsite Tool Bag 228028**
  - Over twenty separate pockets
  - Opening of 305 x 470 mm (12 x 18.5 in.)

- **CoolBelt™ Belt-Mounted Cooling System 245230**
  - Up to 17 degrees Fahrenheit cooler under the hood
  - Provides all-day comfort through maximized airflow power
  - Multiple airflow speeds eliminate stagnant air and reduce fogging
  - Lightweight design extends wearability
  - Compatible with Infinity, Elite, Performance, Classic and MP-10 welding 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.

- **Weld-Mask 267370**
  - Shades 5, 7, 9, 11 and 13 for use with MIG, TIG, stick, and gas welding and cutting
  - Extremely lightweight (227 g [8 oz.]), virtually eliminates neck strain

- **Weld-Mask 2 280982**
  - Ideal for industrial or construction environments — can be worn under a hard hat with a Miller® Half Mask Respirator and select safety glasses
  - Shades 5-13 for use with MIG, TIG, stick, and gas welding and cutting
  - X-Mode™ electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked
  - Wide, singular lens provides unmatched auto-darkening range of visibility

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**
- **Shade 3 and 5 IR lenses are for cutting, brazing or soldering**

Safety and Cutting Glasses Chart

<table>
<thead>
<tr>
<th>Frame Style (Color)</th>
<th>Clear Lenses</th>
<th>I/O Lenses</th>
<th>Shade 3 Lenses</th>
<th>Shade 5 Lenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic (Black)</td>
<td>272187</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Spatter™ (Black)</td>
<td>272191</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Spark™ (Black/Blue)</td>
<td>272190</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Slag™ (Black)</td>
<td>272201</td>
<td>272202</td>
<td>–</td>
<td>272205</td>
</tr>
<tr>
<td>Gen I (Black)</td>
<td>–</td>
<td>–</td>
<td>235662</td>
<td>235658</td>
</tr>
</tbody>
</table>
Welding Safety and Health

Face Shield Series  See literature AY/46.5

Face Shield
- 288269 Clear
- 288274 Clear + Anti-Fog
- 288270 Shade 3
- 288273 Shade 5
  - HDV technology for a sharp detailed view at any angle without distortion
  - Impact-resistant shield for increased durability and protection
  - Lightweight design for all-day wear and comfort
  - Clear + Anti-Fog lens coating prevents fogging for enhanced visibility
  - Shade 3 and 5 lenses provide protection for cutting, brazing or soldering applications
  - Made of polycarbonate material that provides 99.9 percent UVA/UVB/UVC protection to help prevent eye damage
  - ANSI Z87.1 compliant

Halo Hard Hat Adapter  222003
Slotted Hard Hat Adapter Clips (not shown)  259637

Welding Gloves  See literature AY/47.0

Performance — exceptional comfort and performance combined with 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

Work
- Dual-padded palm for added durability
- Fleece back provides ultimate insulation
- Cow grain leather offers superior durability and abrasion resistance

Cut-resistant — exceptional comfort, performance and protection.

Welding Glove Size Chart  *All asterisked stock numbers are sold as one pair. All others are sold as six packs (six pairs).

Performance MIG TIG
--- --- --- --- --- --- --- --- --- --- --- --- ---
Hvy-Duty MIG/Stick 263339 - 263340 269615*
MIG (Lined) 263333 263334 269618*
TIG 263346 263347 263348 263349 -
TIG/Multitask 263352 263353 263354 263355 -
Metalworker 251066 251067 251068 -

Classic MIG TIG
--- --- --- --- --- --- --- --- --- --- --- --- ---
Hvy-Duty MIG/Stick 271877* 271887*
MIG (Pigskin) 279675* 279876* 279899*
MIG (Cowhide) 271890* 271891*
TIG 279897* 279898*
Work 266041* 266042* 266043*

Cut-Resistant MIG TIG
--- --- --- --- --- --- --- --- --- --- --- --- ---
Mig 290412* 290413* 290414* 290415* 290416*
Tig 290401* 290402* 290403* 290404* 290411*
## Welding Apparel

See literature AY/47.5

<table>
<thead>
<tr>
<th>Grain Leather Jacket</th>
<th>Split Leather Jacket</th>
<th>WeldX™ Jacket</th>
</tr>
</thead>
<tbody>
<tr>
<td>(See size chart)</td>
<td>(See size chart)</td>
<td>(See size chart)</td>
</tr>
<tr>
<td>Top-grain pigskin leather</td>
<td>Premium pig split leather</td>
<td>7-ounce WeldX front and flame-resistant navy cotton back</td>
</tr>
<tr>
<td>Expandable leather strategically placed for optimal mobility</td>
<td>Extended rear tail for additional protection</td>
<td>Lightweight exclusive material with extreme flame-resistant properties</td>
</tr>
<tr>
<td>Flame-resistant inside cuff</td>
<td>Expandable leather strategically placed for optimal mobility</td>
<td>Vented back/extended rear tail</td>
</tr>
<tr>
<td>Satin lining</td>
<td>Mesh lining</td>
<td>Zipper closure with hook-and-loop fastened flap</td>
</tr>
<tr>
<td>Tapered, athletic cut</td>
<td>Sewn entirely with Kevlar® thread, adding structural durability at each seam</td>
<td>Chromium free for easy disposal</td>
</tr>
</tbody>
</table>

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>Grain Leather Jacket</td>
<td>—</td>
<td>—</td>
<td>231090</td>
<td>231091</td>
<td>231092</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Split Leather Jacket</td>
<td>273212</td>
<td>273213</td>
<td>273214</td>
<td>273215</td>
<td>273216</td>
<td>273217</td>
<td>273218</td>
<td>273219</td>
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<td>WeldX Jacket</td>
<td>247114</td>
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<td>247117</td>
<td>247118</td>
<td>247119</td>
<td>247120</td>
<td>247121</td>
</tr>
<tr>
<td>Combo Jacket</td>
<td>—</td>
<td>231081</td>
<td>231082</td>
<td>231083</td>
<td>231084</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Indura® Cloth Jacket</td>
<td>—</td>
<td>258097</td>
<td>258098</td>
<td>258099</td>
<td>258100</td>
<td>—</td>
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</tr>
<tr>
<td>Classic Cloth Jacket</td>
<td>244749</td>
<td>244750</td>
<td>244751</td>
<td>244752</td>
<td>244754</td>
<td>244755</td>
<td>244756</td>
<td>244758</td>
</tr>
</tbody>
</table>

### Welding Apparel Accessories

- **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
  - .5 m (21 in.) length

- **Classic Cloth Sleeves 247148**
  - .46 m (18 in.) length
  - Fold-in sleeve snaps
  - Upper arm elastic band

- **Classic Cloth Apron 247149**
  - .9 m (35 in.) length with accessible front pocket
  - Adjustable drawstring ensures a good fit

---

**Welding Safety and Health**
Count on Miller to design the perfect workbench to make welding projects faster and easier. The ArcStation is the first-ever, all-in-one workstation designed for welding and metalworking. It’s versatile, affordable and just the right height to work comfortably. You can organize equipment, tools, and raw materials into one convenient workspace.

**ArcStation™ 60SX Fully Loaded**

The 60SX Fully Loaded is perfect for the welder who needs a tough workbench for the fab shop or the home garage.

- .76 x 1.52 m (30 x 60 in.) size tabletop provides double the work surface of the 30FX.
- 9.5 mm (3/8 in.) X-pattern steel tabletop allows trouble-free clamping.
- Durable 3.2 mm (1/8 in.) 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 152 x 737 x 1219 mm (6 x 29 x 48 in.).
- .76 x 0.76 m (30 x 30 in.) size tabletop provides plenty of work surface.
- 4.8 mm (3/16 in.) X-pattern steel tabletop allows trouble-free clamping.
- 38.1 mm (1.5 in.) diameter steel tube frame provides strength and durability.
- Includes removable gun holder.
- Add optional 152 mm (6 in.) 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 with mount 300611
5. Weld Curtain 300686
6. Casters 300849

**Convenience Kit** 300614
Includes the following:
- Gun holder
- Tool holder
- Clamp bar

**Popular system components**
- Steel frame 1.52 m (60 in.) 300604
- Dust tray 300605
- Table top solid .76 x.76 m (30 x 30 in.) 300606
- Table top X pattern .76 x.76 m (30 x 30 in.) 300607

---

**Model/Stock Number**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Steel Top</th>
<th>Load Capacity</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>60SX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30FX</td>
<td>300837</td>
<td>(1) 737 x 737 x 4.8 mm (29 x 29 x 3/16 in.) X-pattern</td>
<td>227 kg (500 lb.)</td>
<td>889 x 737 x 889 mm (35 x 29 x 35 in.)</td>
<td>34 kg (74 lb.)</td>
</tr>
</tbody>
</table>
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® Augmented Reality Weld Training

The highly realistic multiprocess welding simulation solution for classroom training.

Optimize instructor efficiency by using the Teacher software to create a virtual classroom with customized curriculum, quizzes and weld exercises.

Real-time feedback is provided on users' technique to help correct errors, reinforce proper welding practices and accelerate skill advancement prior to actual live arc welding in a lab.

Reduce overall training time. Compared to traditional methods, AugmentedArc significantly reduces the amount of time needed to teach students.

Minimize material cost by saving wire, gas and workpieces in this simulation environment, while allowing students to refine their welding skills before live arc welding.

Build a larger, more-skilled welding workforce when computer-savvy individuals are drawn to welding education programs that increase their success.

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

Optional components
- TIG Foot Pedal Kit
  - Includes TIG foot pedal, connection cable and adapter cable
- AugmentedArc Controller
  - For multiple system connectivity
- Heavy-duty Transportation Cases
  - Protects complete system during transportation or storage — one case holds the simulator and the other holds accessories

LiveArc™ Welding Performance Management System

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

Better and more cost effective training with faster results. Benefit from both weld simulation and the real-world experience of live arc welding with instant, valuable feedback on welding technique to quickly help build skills.

Motion-tracking technology measures the operator’s adherence to preset technique parameters. Cameras track the movement of LEDs embedded in the MIG SmartGun and SMAW SmartStinger during pre-weld simulations and live welds; the system then delivers visual feedback on the operator’s performance via the LiveArc system’s main display.

LiveArc GMAW/FCAW system comes complete with
- Computer with Intel core i7, 128 GB SSD, fanless cooling, and HDMI port for connection to most secondary monitors (not included)
- 21.5 HD LCD touch screen monitor
- SmartGun with 4.6 m (15 ft.) cable
- Calibration tool
- Two table clamps
- Removable arm extension with C-clamp assembly for out-of-position right- and left-hand applications
- Extra Bernard® consumables

LiveArc GMAW/FCAW/SMAW system includes above plus
- SmartStinger with 3.7 m (12 ft.) cable
- 4.6 m (15 ft.) Dinse-style cable
- Router box
- Software update for SMAW applications

![Graph](image-url)
YOU STRIKE AN ARC. YOU LAY A BEAD. YOU LEAVE YOUR IMPRINT. WELDERS LIKE YOU LEAVE A PIECE OF THEMSELVES IN EVERY COMPLETED PROJECT. SEE HOW WELDING HAS CHANGED THE LIVES OF PEOPLE LIKE YOU — AND HEAR MOTIVATIONAL STORIES FROM THOSE WHO LEAVE THEIR IMPRINT ON THE WORLD.

PA’TRICE FRAZIER
IS DETERMINED TO SHARE HER LOVE OF WELDING WITH THE WORLD. SEE WHY.

SHANE BARBER
EXPLAINS HOW WELDING A SHIPPING-CONTAINER HOME HEALED HIS FAMILY. WATCH NOW.

PRESTON LEWIS
TEACHES KIDS ABOUT RESILIENCE WITH WELDING AND OFF-ROAD RACING. SEE WHY.
Female receptacle (for weld cable connection) on other end.

Plug (to power source) on one end and Tweco or Cam-Lok Dinse-Style Connector Kits two male plugs for use with #4 to #1/0 AWG cable.

Secondary connections. Power sources are shipped with receptacles on the power source.

The work and/or weld cables and plugs into the Dinse-style Kits include one male Dinse-style plug which attaches to female Dinse-style receptacle.

Accepts #1/0 to #2/0 AWG cable.

Tweco-style Male plug

Accepts #4 to #1/0 AWG cable

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.

Cable Connectors and Adapters

Also see Torch and Weld Cable Connectors in TIG Accessories.

For AluminaFeed 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®/Dinse Adapter 210061

One-piece adapter with Tweco-style male plug (to power source) on one end and Dinse-style female receptacle (for weld cable connection) on other end.

Carts, Cylinder Racks and Running Gear

Feeder Cart 142382

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

Universal Cart and Cylinder Rack 042934

For Invision 352 MPa, XMT 350, CST, Diversion, Maxstar 210/280 and Dynasty 210/280. Also accommodates a single gas cylinder up to 1,422 mm (56 in.) high measuring 152 to 229 mm (6 to 9 in.) in diameter. Provides storage for auxiliary items such as electrodes, helmets and gloves.

Cylinder Rack 300335

Also accommodates a single gas cylinder up to 178 mm (7 in.) in diameter. For Invision 352 MPa, XMT 350, CST, Diversion, Maxstar 210/280 and Dynasty 210/280. For Millermatic 350P Aluminum. Replaces single-cylinder rack.
Coolmate 3.5 300407 120 V, CE
For XMT with single- or dual-wire feeders. Running Gear Cylinder Rack 300408 holds gas cylinders, and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart to be pulled easily through doorways.

Coolmate 3, CE 301615 120 V, CE
Economical, 11.4 L (3 gal.) cooler designed for water-cooled torches rated up to 500 amps*

Coolmate 3.5 042288 120 V
Best performer in its class — industrial, 15 L (4 gal.) cooler designed for water-cooled torches rated up to 600 amps*.

Coolmate 4 043007 120 V, CE
Power sources rated up to 300 amps*

Coolmate 1.3 301264 115 V, 50/60 Hz 4.9 L (1.3 gal.) cooler designed for water-cooled torches rated up to 600 amps*

Coolmate 3 043809 Low-Conductivity Coolant (green, pre-mixed) 043810
Low-conductivity plastic bottle. Miller® coolants contain a base of ethylene glycol and deionized water to protect against freezing to -38°C (-37° Fahrenheit) or boiling to 108°C (227° Fahrenheit).

Coolmate 3.5 300245 120 V, CE
For Maxstar 400/800 and Dynasty 400/800. Industrial, 13.2 L (3.5 gal.) cooler designed for water-cooled torches rated up to 600 amps*.

2-Wheel Trolley Cart 300971
For Maxstar 210/280 and Dynasty 210/300 with or without Coolmate 1.3. Easy-to-maneuver two-wheel cart features single-cylinder rack, chain for cylinder, straps (quick and easy to detach and carry machine), cable holders, torch holder, storage area, and filler rod storage area.

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

Coolmate 1.3 301616 120 V, CE
For Maxstar 210/280 and Dynasty 210/300. Light industrial, 4.9 L (1.3 gal.) cooler designed for water-cooled torches on power sources rated up to 300 amps*.

Coolmate 3 043007 120 V, CE 043008 240 V Economical, 11.4 L (3 gal.) cooler designed for water-cooled torches rated up to 500 amps*.

Coolmate 3.5 Coolmate 3.5 043008 240 V

Model | Motor Input Voltage | Maximum Current Draw | Maximum Cooling Capacity | IEC Cooling Capacity | Tank Capacity | Dimensions | Net Weight |
---|---|---|---|---|---|---|---|
Coolmate 1.3, CE | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 3,400 W (11,600 Btu/hr.) | 1,330 W (4,540 Btu/hr.) | 4.9 L (1.3 gal.) | H: 298 mm (11.75 in.) | 21 kg (46 lb.) |
Coolmate 3, CE | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 3,820 W (13,000 Btu/hr.) | 1,420 W (4,840 Btu/hr.) | 11.4 L (3 gal.) | H: 337 mm (13.25 in.) | 18 kg (40 lb.) |
| 230 V, 50/60 Hz | 2.5 A (50 Hz), 3.0 A (60 Hz) | | | | | D: 616 mm (24.25 in.) | |
Coolmate 3.5, CE | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 4,140 W (14,000 Btu/hr.) | 1,660 W (5,660 Btu/hr.) | 13.2 L (3.5 gal.) | H: 298 mm (11.75 in.) | 29 kg (64 lb.) |
| 230 V, 50/60 Hz | 2.5 A (50 Hz), 3.0 A (60 Hz) | | | | | D: 660 mm (26 in.) | |
Coolmate 4 | 115 V, 50/60 Hz | 5.9 A (50 Hz), 4.7 A (60 Hz) | 5,500 W (18,000 Btu/hr.) | 1,780 W (6,070 Btu/hr.) | 15 L (4 gal.) | H: 413 mm (16.25 in.) | 17 kg (38 lb.) |
| 230 V, 50/60 Hz | 2.5 A (50 Hz), 3.0 A (60 Hz) | | | | | D: 476 mm (18.75 in.) | |

Syncrowave 300/400 301601
For Syncrowave 300/400 (machine only). Cart includes storage space with latching door, handles, cylinder rack with chain, foot control holster, and cooler adapter kit. Allows for the addition of a Coolmate 3 externally powered cooler if desired.

Coolmate 3.5
Features small footprint and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

Coolmate 1.3
Features small footprint and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

Coolmate 4
Features small footprint and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

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Engine Drive Accessories
Also see Trailers.

**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.

- **Running Gear** 301246
  - For Fusion and Blue Star.
  - Compact and balanced, lightweight wheelbarrow-style running gear provides easy on-site mobility.

**Blue Star and Fusion Accessories**

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

- **Running Gear** 301246
  - For Fusion and Blue Star.
  - Compact and balanced, lightweight wheelbarrow-style running gear provides easy on-site mobility.

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

- **Multi-Terrain Running Gear with Never Flat™ Tires** 301460
  - For Bobcat 200 Air Pak.

  - Includes two heavy-duty 381 mm (15 in.) tires, two 203 mm (8 in.) 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 Never Flat™ Tires** 300910
  - For gas/LP Bobcat and gas Trailblazer (except Air Pak models).
  - Includes four heavy-duty 381 mm (15 in.) tires and a rugged handle to provide maximum maneuverability.

- **Off-Road Running Gear with Protective Cage and Never Flat™ Tires** 300912
  - For gas/LP Bobcat and gas Trailblazer (except Air Pak models). Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.

- **Remote Oil Drain and Filter Kit** 300923 Field
  - For gas Bobcat and Trailblazer (except Air Pak models).
  - Front mount for Kohler engines makes servicing easy when engine drive is mounted in tight spots.

- **All-Purpose Running Gear with Never Flat™ Tires** 300475
  - For Trailblazer 325 Diesel.
  - Includes two heavy-duty 381 mm (15 in.) tires, two 203 mm (8 in.) rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.

- **Protective Cage with Cable Holders** 300921
  - For gas/LP Bobcat and gas Trailblazer (except Air Pak models).

  - Rugged cage with cable holders protects your investment. Works with Running Gear or with trailer.
  - Note: Not for use with Protective Cover.

- **Protective Cage with Cable Holders** 300473
  - For Trailblazer 302 Air Pak.

  - Rugged cage with cable holders protects your investment. Works with Running Gear or with trailer.
  - Note: Not for use with Protective Cover.

- **Protective Cage with Cable Holders** 300920
  - For gas Bobcat 200 Air Pak.

  - Rugged cage with cable holders protects your investment. Works with Running Gear or with trailer.
  - Note: Not for use with Protective Cover.

- **Protective Cage with Cable Holders** 301113
  - For Big Blue 600 Air Pak/800 Series with Deutz.

- **Protective Cage with Cable Holders** 300919
  - For gas Bobcat and Trailblazer (except Air Paks) with Protective Cage or Running Gear.

- **Remote Oil Drain and Filter Kit** 300923 Field
  - For gas Bobcat and Trailblazer (except Air Pak models).
  - Front mount for Kohler engines makes servicing easy when engine drive is mounted in tight spots.

- **All-Purpose Running Gear with Never Flat™ Tires** 300475
  - For Trailblazer 325 Diesel.
  - Includes two heavy-duty 381 mm (15 in.) tires, two 203 mm (8 in.) rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.

- **Protective Cage with Cable Holders** 195331
  - For Trailblazer 325 Diesel.

  - Rugged cage with cable holders protects your investment. Works with Running Gear or with trailer.
  - Note: Not for use with Protective Cover.

**Generator Accessories**

- **Twist Lock Adapter Cord** 301489
  - For Fusion. L14-30R to NEMA 6-50R. Adapts engine drive 120/240-volt twist lock plug to common Millermatic and Spectrum 240-volt plug.

- **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.

- **Removable Protective Cage with Cover** 300919
  - For Bobcat, Trailblazer and Big Blue models.

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

  - **Protective Covers** 301456
    - For Fusion and Blue Star.

  - **Protective Covers** 301474
    - For gas Bobcat 200 Air Pak.

  - **Protective Covers** 301476
    - For gas Bobcat 200 Air Pak with Running Gear.

  - **Protective Covers** 301531
    - For diesel Bobcat 200 Air Pak with Running Gear.

  - **Protective Covers** 301532
    - For diesel Bobcat 200 Air Pak without Running Gear.

  - **Protective Covers** 300919
    - For gas Bobcat and Trailblazer (except Air Paks) without Protective Cage or Running Gear.

  - **Protective Covers** 300920
    - For gas Bobcat and Trailblazer (except Air Paks) with Protective Cage or Running Gear.

  - **Protective Covers** 301099
    - For Trailblazer 325 Diesel without Protective Cage or Running Gear.

  - **Protective Covers** 300379
    - For Trailblazer 302 Air Pak.

  - **Protective Covers** 195301
    - For Big Blue 400 Pro/400 PipePro/450 Duo CST.

  - **Protective Covers** 301495
    - For Big Blue 500 Pro/600 Pro with Kubota.

  - **Protective Covers** 301113
    - For Big Blue 600 Air Pak/800 Series with Deutz.
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 4 m (13 ft.) 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.

Load Banks

Model | Gross Axle Weight Rating | Gross Vehicle Weight Rating | Net Payload | Height of Bed | Road Clearance | Track (Center to Center of tires) | Standard Tires (Standard Rating or P-size Rating) | Dimensions | Net Weight
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
HWY-Mid Frame | 728 kg (1,605 lb.) | 646 kg (1,424 lb.) | 646 kg (1,424 lb.) | 495 mm (19.5 in.) | 203 mm (8 in.) | 1,168 mm (46 in.) | ST175/80D-13 Load Range C | L: 2,565 mm (101 in.) W: 1,397 mm (55 in.)* | 82 kg (181 lb.)
HWY-225 | 1,588 kg (3,500 lb.) | 1,360 kg (2,999 lb.) | 1,225 kg (2,700 lb.) | 483 mm (19 in.) | 191 mm (7.5 in.) | 1,270 mm (50 in.) | ST175/80R-13 Load Range D | L: 2,680 mm (105.5 in.) W: 1,435 mm (56.5 in.)* | 127 kg (280 lb.)
4 West | 907 kg/axle (2,000 lb./axle) | 1,361 kg (3,000 lb.) | 1,157 kg (2,550 lb.) | 540 mm (21.25 in.) | 203 mm (8 in.) | 1,403 mm (55.25 in.) | B78-13 | L: 2,311 mm (91 in.)** W: 1,566 mm (61.25 in.) | 191 kg (420 lb.)

Industrial MIG 4/0 Kit (with lugs)
300390 For single-wire feeders.
300957 For dual-wire feeders.

Consists of flowmeter regulator with 3 m (10 ft.) gas hose, 3 m (10 ft.) 4/0 feeder weld cable with lugs, and 4.6 m (15 ft.) 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)
300465 For single-wire feeders.
300096 For dual-wire 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 0.6 m (.023 in.) wire
234608 0.8 m (.030 in.) wire
234609 0.9 m (.035 in.) wire

For M-100/M-150 guns. Kits include ten contact tips, one tip adapter, one standard nozzle and a consumable storage box.

Trailers

See literature AV/20.0

HWY-Mid Frame Trailer 301438
For Bobcat, Trailblazer, and Big Blue 400 Pro/400 Pipe6-Pro/450 Duo CST models. A 646 kg (1,424 lb.) 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 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye.

HWY-225 Trailer 301338
For Big Blue models. A 1,225 kg (2,700 lb.) 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 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye.

4 West Four-Wheel Steerable Off-Road Trailer 042801
For Big Blue 500 Pro/600 Series/800 Series. A heavy-duty 1,157 kg (2,550 lb.) capacity trailer designed for use in mines, quarries and other rough terrain. Has narrow 6.7 m (22 ft.) turning radius. Includes 76 mm (3 in.) lunette eye, universal hitch and safety chains.

2-in-1 Document/Fire Extinguisher Holder 301236
For HWY-Mid Frame and HWY-225. Stores documents and holds a 2.3 kg (5 lb.) fire extinguisher. Note: Holder shown mounted on trailer. Fire extinguisher not included.

Trailers

Model | Weight Rating | Description | Dimensions | Net Weight
--- | --- | --- | --- | ---
HWY-Mid Frame | 1,225 kg (2,700 lb.) | Combination trailer with 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye. | L: 6.7 m (22 ft.) W: 2.3 m (9 ft.) H: 1.8 m (6 ft.) | 82 kg (181 lb.)
HWY-225 | 1,157 kg (2,550 lb.) | Capacity trailer designed for use in mines, quarries and other rough terrain. | L: 6.7 m (22 ft.) W: 2.3 m (9 ft.) H: 1.8 m (6 ft.) | 127 kg (280 lb.)
4 West | 907 kg/axle (2,000 lb./axle) | Designed for use in mines, quarries and other rough terrain. | L: 6.7 m (22 ft.) W: 2.3 m (9 ft.) H: 1.8 m (6 ft.) | 191 kg (420 lb.)

MIG Accessories

Machine and Gun Accessory Kits

MIG kit with Dinse-style connectors for single-wire feeders shown.

Industrial MIG 4/0 Kit (with lugs)
300390 For single-wire feeders.
300957 For dual-wire feeders.

Consists of flowmeter regulator with 3 m (10 ft.) gas hose, 3 m (10 ft.) 4/0 feeder weld cable with lugs, and 4.6 m (15 ft.) 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)
300465 For single-wire feeders.
300096 For dual-wire 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 0.6 m (.023 in.) wire
234608 0.8 m (.030 in.) wire
234609 0.9 m (.035 in.) wire

For M-100/M-150 guns. Kits include ten contact tips, one tip adapter, one standard nozzle and a consumable storage box.

Protective Covers

301262 For Millermatic 141/211 and Multimatic 215.
301524 For Multimatic 220 AC/DC.
301521 For Millermatic 255 and Multimatic 255. Features side pocket.
Plasma Cutter Accessories

Automation Kits

Automation Kits for Spectrum 875 and 875 Auto-Line
301156  For Spectrum 875.
301157  For Spectrum 875 Auto-Line.
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
234838  6.1 m (20 ft.)
234930  15.2 m (50 ft.)
Work cable with quick connect and heavy-duty clamp.

Plasma Circle-Cutting Guides 253055
For XT30/XT40/XT60 torches. Cut straight lines or circles up to 305 mm (12 in.) 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 762 mm (30 in.) in diameter.

Plasma Standoff Roller Guide 253054
Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

Plasma Torch Consumable Kits

253520  For XT30 torch. Includes five electrodes, five tips, one swirl ring, one retaining cup, one o-ring and silicone grease.
253521  For XT40 torch. Includes five electrodes, five 40-amp tips, three 30-amp tips, one 40-amp drag shield, two 30-amp drag shields, one deflector, one o-ring, one swirl ring, one retaining cup, one 40-amp gouge tip, one gouge shield and silicone grease.
256033  For XT60 torch. Includes three standard electrodes, three standard tips, one drag shield, one deflector, one o-ring, one swirl ring, one retaining cup, one gouge tip, one gouge shield and silicone grease.

127493  Empty consumable storage box.

Plasma Torch Consumable Kits

253520  For XT30 torch. Includes five electrodes, five tips, one swirl ring, one retaining cup, one o-ring and silicone grease.
253521  For XT40 torch. Includes five electrodes, five 40-amp tips, three 30-amp tips, one 40-amp drag shield, two 30-amp drag shields, one deflector, one o-ring, one swirl ring, one retaining cup, one 40-amp gouge tip, one gouge shield and silicone grease.
256033  For XT60 torch. Includes three standard electrodes, three standard tips, one drag shield, one deflector, one o-ring, one swirl ring, one retaining cup, one gouge tip, one gouge shield and silicone grease.

127493  Empty consumable storage box.

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.

Full KVA Adapter Cord 300517
NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

230-Volt Extension Cord 770644
6.1 m (20 ft.) NEMA 6-50P to NEMA 6-50R heavy-duty extension cord. 8-gauge cord has lighted ends that show power is on and a molded integrated strain relief.

Protective Case

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
249949  3.7 m (12 ft.) XT30
260633  3.7 m (12 ft.) XT40
260635  6.1 m (20 ft.) XT40
For Spectrum 875 and 875 Auto-Line
249953  6.1 m (20 ft.) XT60
249954  15.2 m (50 ft.) XT60
For Spectrum 875 and 875 Auto-Line Plasma Cutter Machine Torches
249955  7.6 m (25 ft.) long body XT60M
249956  15.2 m (50 ft.) long body XT60M
257464  7.6 m (25 ft.) short body XT60M
263952  15.2 m (50 ft.) short body XT60M
Each consumable kit includes a storage box.

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).
**Submerged Arc Accessories**

Cables

- **SubArc Control Cables**
  - 790622030 9.1 m (30 ft.)
  - 260622050 15 m (50 ft.)
  - 260622060 18.3 m (60 ft.)
  - 260622080 24.4 m (80 ft.)
  - 260622100 30.5 m (100 ft.)
  - 260622120 36.6 m (120 ft.)
  - 260822200 61.0 m (200 ft.)

- **Flux Hopper Extension Cables**
  - 260623010 3 m (10 ft.)
  - 260623025 7.6 m (25 ft.)
  - 260623065 19.8 m (65 ft.)

- **Continuum Motor/Control Cables**
  - 263368015 4.0 m (50 ft.)
  - 263368025 10.1 m (30 ft.)
  - 263368050 15.2 m (50 ft.)
  - 263368080 24.4 m (80 ft.)
  - 263368100 30.5 m (100 ft.)

- **SubArc Parallel Cable**
  - 260775015 4.6 m (15 ft.)

- **SubArc Tandem Cable**
  - 260878015 4.6 m (15 ft.)

**Torch Accessories**

- **OBT 600 Torch Body Extensions**
  - 043967 25.4 mm (1 inch)
  - 043969 50.8 mm (2 inch)
  - 043973 101.6 mm (4 inch)
  - 043975 152.4 mm (6 inch)

- **OBT 1200 Torch Body Extension**
  - 043981 Overall length with extension is 228.6 mm (9 inches). Actual length of extension is 215.9 mm (8.5 inches).

**Wire Drive Assembly Accessories**

- **Drive Rolls**
  - 129255 1.6 mm (1/16 in.)
  - 129260 2.0 mm (5/64 in.)
  - 129261 2.4 mm (3/32 in.)
  - 129262 2.8 mm (7/64 in.)
  - 129263 3.2 mm (1/8 in.)
  - 193700 4.0 mm (5/32 in.)

- **Single-Wire Straightener**
  - 199733 For OBT 600 and OBT 1200 single-wire torches. For 1.6–4.8 mm (1/16–3/16 inch) wire.

- **Twin-Wire Straightener**
  - 301160 For 1200-amp twin-wire torch only. Single adjustment.

- **Manual Single Slide**
  - 301137

- **Wire Reel**
  - 108008 Supports 27 kg (60 lb.) of wire. Requires Spool Support Assembly (119438).
Syncrowave 300.

For Maxstar (except 161 models), Dynasty, and 300990 300185 flowmeter regulator with gas hose, and torch accessory kit. (15 ft.) cable [3.7 m (12 ft.) cable on 400-amp kit], 400-amp kit), torch cable cover, work clamp with 4.6 m (15 ft.) cable [3.7 m (12 ft.) cable on 400-amp kit], flowmeter regulator with gas hose, and torch accessory kit.

TIG Accessories

Kits

- Contractor Kit 301309 A-150 torch with RFCS-14 HD foot pedal
- 301311 A-150 torch with RFCS-14 fingertip
- 301549 A-200 torch with RFCS-14 HD foot pedal
- 301550 A-200 torch with RFCS-14 fingertip

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

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-185G)

For Maxstar (except 161 models), Dynasty, and Syncrowave 300. Kit comes with 7.6 m (25 ft.) TIG torch with Dinse-style connector (thread-lock on 400-amp kit), torch cable cover, work clamp with 4.6 m (15 ft.) cable [3.7 m (12 ft.) cable on 400-amp kit], flowmeter regulator with gas hose, and torch accessory kit.

Remote Controls

- 10-Pin to 6-Pin Adapter Cord 300507 For Maxstar 161 STL/STH and Multimatic 200. 305 mm (12 in.) cord adapts Miller® 14-pin foot control or fingertip control to a 6-pin plug.
- 14-Pin to 6-Pin Adapter Cord 301188 4 m (13.25 ft.) cord with plug For Maxstar 161 STL/STH and Multimatic 200.
- 151086 8 m (26.5 ft.) cord with plug East/west rotary-motion fingertip current/contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for production or contractors that need quick ramp-up.
- RFCS-6M (6-pin plug) 195183 4 m (13.25 ft.) cord with plug 195504 6.1 m (20 ft.) cord with plug For Maxstar 161 STL/STH and Multimatic 200.
- RFCS-14 HD (14-pin plug) 194744 6.1 m (20 ft.) cord with plug Heavy-duty foot pedal current/contactor control provides increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility.
- RFCS-RJ45 (14-pin plug) 242211020 6.1 m (20 ft.) cord with plug Miniature hand current/contactor control Dimensions: 102 x 102 x 82 mm (4 x 4 x 3.25 inches).
- RMS-6M (6-pin plug) 195269 For Maxstar 161 STL/STH.
- RMS-14 (14-pin plug) 187208 Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 8 m (26.5 ft.) cord with plug.
- RPBS-14 (14-pin plug) 300666 Attaches to the TIG torch to remotely start and stop the TIG welding process. Includes 7.6 m (25 ft.) cord with plug.

Protective Case/Covers

- X-CASE 301429 For Maxstar 161 models.
- Protective covers (300579) and (301382) shown.
- Protective covers (301579) For Diversion.
- 301138 For Maxstar 210.
- 301382 For Maxstar 280 and Dynasty 210/280.

All-in-one RFCS-RJ45 kit shown.

Weldcraft™ A-150 Kit comes with either a A-150 or A-200 TIG torch, RFCS-14 HD foot control or RFCS-14 HD foot pedal A-150 torch with RCCS-14 fingertip contactor control. Includes 4.3 m (14 ft.) cord with plug.

For Diversion and Multimatic 215. Foot pedal current/contactor control. Includes 4.3 m (14 ft.) cord with plug.

For Syncrowave 210.

Protective covers (300579) and (301382) shown.

For Maxstar 280 and Dynasty 210/280.

For Maxstar 210.

For Syncrowave 210.

For Diversion.

For Maxstar 210.

For Multimatic 200.

For Multimatic 200.

For Multimatic 215.

For Multimatic 255.

For Multimatic 215.

RFCS-14 HD (14-pin plug) 194744 6.1 m (20 ft.) cord with plug Heavy-duty foot pedal current/contactor control provides increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility.

10-Pin to 14-Pin Adapter Cord 301545 For Multimatic 255. Allows standard 14-pin connections.

TIG remote controls to be used with the Multimatic 255.

14-Pin to 6-Pin Adapter Cord 300507 For Maxstar 161 STL/STH and Multimatic 200. 305 mm (12 in.) cord adapts Miller® 14-pin foot control or fingertip control to a 6-pin plug.

RMS-14 (14-pin plug) 129337 Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 8 m (26.5 ft.) cord with plug.

Weldcraft™ A-150 Kit comes with either a A-150 or A-200 TIG torch, RFCS-14 HD foot control or RFCS-14 HD foot pedal A-150 torch with RCCS-14 fingertip contactor control. Includes 4.3 m (14 ft.) cord with plug.

For Diversion and Multimatic 215. Foot pedal current/contactor control. Includes 4.3 m (14 ft.) cord with plug.

301325 (Tweco®) for ArcReach power sources
Wireless Remote Foot and Hand Controls

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

Increases productivity, saves money, improves safety and is easy to use.

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 a 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 91 m (300 ft.) 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 of 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.

Bluetooth® communication technology provides consistent and reliable connection, allowing precise control of the amperage.

Improves productivity and maneuverability by eliminating cord tangles. Reduces clean up time and work area cord clutter.

Improves reliability and safety by eliminating control cord failures and reducing potential trip hazard.

Multiple frequency sharing allows up to 20 systems to operate in a 27.4 m (90 ft.) 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.

TIG Accessories (continued)

Torch and Weld Cable Connectors

Air-Cooled TIG (GTAW) Torch Connectors

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<th>Component</th>
<th>Power Supply</th>
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<th>Rated Range*</th>
<th>Temperature</th>
<th>Radio Frequency</th>
<th>RF Power</th>
<th>Antenna</th>
<th>Dimensions</th>
<th>Weight</th>
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<tr>
<td>Foot control (transmitter)</td>
<td>Three AA batteries</td>
<td>250 hours</td>
<td>27.4 m (90 ft.)</td>
<td>-25° to +70°C (-13° to +158°F)</td>
<td>2.4 Gz (ISM band)</td>
<td>&lt;3 mW</td>
<td>Internal</td>
<td>Ht: 152 mm (6 in.) W: 146 mm (5.75 in.) D: 292 mm (11.5 in.)</td>
<td>1.4 kg (3 lb.) w/batteries</td>
</tr>
<tr>
<td>Hand control (transmitter)</td>
<td>Three AA batteries</td>
<td>250 hours</td>
<td>91 m (300 ft.)</td>
<td>-25° to +70°C (-13° to +158°F)</td>
<td>2.4 Gz (ISM band)</td>
<td>&lt;3 mW</td>
<td>Internal</td>
<td>Ht: 127 mm (5 in.) W: 70 mm (2.75 in.) D: 35 mm (1.375 in.)</td>
<td>0.27 kg (0.6 lb.) w/batteries</td>
</tr>
</tbody>
</table>

Water-Cooled TIG (GTAW) Torch Connectors

50 mm Dinse-Style Flow Thru 195380

For Syncrowave 210. Used with all Weldcraft™ water-cooled torches.

50 mm Dinse-Style with Water Return Line 195377

For Syncrowave 300/400, Maxstar 210/280/400 and Dynasty 210/280/400. Used with all Weldcraft™ water-cooled torches.

Wireless 14-pin receiver (included with both systems)

Wireless foot control

Wireless hand control

Wireless 14-pin receiver

Wireless remote foot control (301580), CE

Wireless remote hand control (301582), CE

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.

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

Extension Cables (14-Pin)

8-Conductor Cables
242208025 7.6 m (25 ft.)
242208050 15.2 m (50 ft.)
242208080 24.4 m (80 ft.)
For SuitCase 12RC feeders, 20 Series feeders, and 70 Series (except MPa Plus) feeders. For 14-pin remote controls and 24 VAC wire feeders. 14-pin plug to a 14-pin socket. Not for 115-volt XR feeders.

11-Conductor Cables
247831025 7.6 m (25 ft.)
247831050 15.2 m (50 ft.)
247831080 24.4 m (80 ft.)
For XR-AlumaFeed and MPa Plus feeders. Eleven conductors to support contactor control and remote voltage control on all Miller® electronic constant-voltage (CV) 14-pin power sources. Additional functions supported when using the Invision MPa or XMT MPa power sources include synergic pulsed MIG, remote process select and side select capabilities.

14-Conductor Cables
242205025 7.6 m (25 ft.)
242205050 15.2 m (50 ft.)
For HDC and WC-115 weld controls. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

Euro Gun Adapter
164902

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 3 m (10 ft.) interconnecting cord with Hubbell connections for older-style power sources. Can also be used with competitive power sources requiring a contact closure for contactor control.

PSA-2 Extension Cord 047813
7.6 m (25 ft.) cord extends 3 m (10 ft.) cord supplied with PSA-2 control (4-pin to 4-pin connection).

Spool Adapter
047141
For use with 6.4 kg (14 lb.) 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 3 m (10 ft.) 115-volt power cable with plug, 1.8 m (6 ft.) interconnecting cable, and 1.5 m (5 ft.) gas hose.

SGA 100C 043857
SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like the Miller Bobcat. Includes 3 m (10 ft.) 115-volt power cable with plug, 1.8 m (6 ft.) interconnecting cable, and 1.5 m (5 ft.) gas hose.

Spool Gun Extension Hose and Cable Kits

132228 7.6 m (25 ft.)
132229 15.2 m (50 ft.)
For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

Turntable Assembly
146236
Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

Wire Straightener

For 20 Series and 70 Series.
141580 For 0.9–1.1 mm (.035–.045 inch) wire.
141581 For 1.6–3.2 mm (1/16–1/8 inch) wire.

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