WE BUILD with you
It begins with a spark of inspiration. That inspiration builds to an idea — and then, a plan.

Work begins. Challenges are overcome. And soon, we’ve built something new for ourselves and for our world.

The wonder of your imagination. The power of your determination. The capabilities of Miller products. **Together, we build.**

[MillerWelds.com/webuild](http://MillerWelds.com/webuild)
New from Blue

32 Dynasty® 280 DX with CV

36 XMT® 350 FieldPro® System

43 Thunderbolt® 160 Thunderbolt® 210

51 Maxstar® 400/800 Dynasty® 400/800

63 Fusion 160

64 Bobcat™ 200 Air Pak™

67-73 ArcReach®-equipped Trailblazer® 325 and Big Blue® engine drives

77 SubArc 3-Wheel Tractor

89 PAPR with T94-R™ Series

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

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

1. Pick the right process for the metals to be welded.

**MIG (GMAW) ★**
- Easiest process to learn
- High welding speeds possible
- Provides better control on thinner metals
- Cleaner welds possible with no slag
- Same equipment can be used for flux-cored welding

**Pulsed MIG (GMAW-P) ★**
- Flexibility and productivity — nearly all metals can be welded in all positions
- Larger diameter electrode wires for higher deposition rates
- Virtually no spatter
- Welds thin to thick metals

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

**Stick (SMAW) ★★**
- Well suited for windy, outdoor conditions
- More forgiving when welding on dirty or rusty metal

| Process skill level | ★ Low | ★★ Moderate | ★★★ High |

<table>
<thead>
<tr>
<th>Metal type</th>
<th>Steel</th>
<th>Stainless Steel</th>
<th>Nickel Alloys</th>
<th>Aluminum</th>
<th>Cast Iron</th>
<th>Copper/Brass</th>
<th>Titanium</th>
<th>Magnesium Alloys</th>
<th>All Electrically Conductive</th>
</tr>
</thead>
</table>

**TIG (GTAW) ★★★**
- Provides highest quality and most precise welds
- Highly aesthetic weld beads
- Allows adjustment of heat input while welding by use of a remote control

**Pulsed TIG (GTAW-P) ★★★**
- More control on thin metals
- Less heat distortion on thin metals

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

**Air Carbon Arc Cutting and Gouging (CAC-A) ★★**
- Wide variety of metals
- Removes discontinuities or inferior welds
2 Evaluate your needs: input power, output power, generator power and portability.

**Input power**

Does your machine need to be self-powered, or will AC power be available at the location where it’s primarily used?

- For locations where an electrical hookup is not practical, consider a diesel-powered engine-driven welder/generator to supply welding and generator power.
- For locations where AC power is available, you need to know its type — and whether it’s a match for the machine you’re considering:

  **Single-phase power**
  
  Check to see if the machine you’re considering requires single-phase power, and whether its voltage requirements are met by the electrical service at the intended location.

  **Three-phase power**
  
  Check to see if the machine you’re considering requires three-phase power and whether its voltage requirements are met by the electrical service at the intended location.

**Output power**

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

  **Note:** Units listed in more than one classification share attributes of both.

**About duty cycles**

Duty cycle is an indication of how long a power source can continuously weld (at a specific amperage and voltage) in a 10-minute period of time before it needs to cool down. For example, a machine with a 60 percent duty cycle at 300 amps and 32 volts of welding output can be used (at 300 amps and 32 volts) for 6 minutes out of a 10-minute period. When comparing two similar-sized power supplies it is important to pay close attention to both the amperage and voltage values that determine the rated load.

---

3 Go to product descriptions. (Specifications are subject to change without notice.)

---

**Generator power**

Out in the field, you may need an engine-driven welder/generator to supply AC power to run tools and lights, or supply 12-volt DC power to charge automotive batteries and jump-start vehicles. Miller® welder/generators are packed with power; larger units even offer option packages that add 10 to 20 kW of generator power.

**Portability**

Can you bring the work to the machine, or does the machine need to go to the work? Check the Product Guide pages for types of portability:

- Shoulder strap, handles, running gear, carts, etc.
- Many engine-driven welding generators fit in the back of a truck, enabling them to be driven to wherever the welding is needed. Heavy-duty trailers are also available for engine drives.

---

**Power icons**

<table>
<thead>
<tr>
<th>Power icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="example" alt="Single-phase power" /></td>
<td>Unit requires single-phase input power</td>
</tr>
<tr>
<td><img src="example" alt="Three-phase power" /></td>
<td>Unit requires three-phase input power</td>
</tr>
<tr>
<td><img src="example" alt="Constant-current and constant-voltage weld output" /></td>
<td>Unit supplies constant-current and constant-voltage weld output</td>
</tr>
<tr>
<td><img src="example" alt="Direct current weld output" /></td>
<td>Unit supplies direct current weld output</td>
</tr>
<tr>
<td><img src="example" alt="Alternating current weld output" /></td>
<td>Unit supplies alternating current and direct current weld output</td>
</tr>
</tbody>
</table>

---

**Processes**

- MIG (GMAW)
- Flux-cored (FCAW)
- Stick (SMAW)
- TIG (GTAW)
- DC/12.46
- Autolaser™
- Fan-On-Demand™
- Auto-Set™

**Color-coded sections**

- **Light industrial**
- **Industrial**
- **Heavy industrial**

**For more product specifications, give the product name and literature number to your distributor or visit us on the Web at MillerWelds.com.**

**Colored bullets indicate output power classification. Power icons indicate power supplied or required (see descriptions above). Listing of recommended processes.**

**Brief listing of most popular accessories.**
Millermatic® 141 and 211

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

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

• Set the wire diameter (141: 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 spool gun with 4000 or 5000 series aluminum wire.

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.

Mild Steel Welding Capability

Max. Model 4.8 mm (3/16 in.) 9.5 mm (3/8 in.)
Min. Model 0.6 mm (24 ga.) 0.6 mm (24 ga.)

Aluminum Welding Capability

Max. Model 1.9 mm (14 ga.) 9.5 mm (3/8 in.)
Min. Model 1.2 mm (18 ga.) 1.2 mm (18 ga.)

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

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>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stainess</td>
<td>Solid steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored</td>
<td>0.6–0.8 mm (.023–.030 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored</td>
<td>0.6–0.8 mm (.023–.030 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored</td>
<td>0.6–0.8 mm (.023–.030 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored</td>
<td>0.6–0.8 mm (.023–.030 in.)</td>
</tr>
<tr>
<td>Millermatic 141 (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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Solid steel</td>
<td>0.6–0.9 mm (.023–.035 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Solid steel</td>
<td>0.6–0.9 mm (.023–.035 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Solid steel</td>
<td>0.6–0.9 mm (.023–.035 in.)</td>
</tr>
</tbody>
</table>

Light industrial • CV DC 1 Phase

Processes

• MIG (GMAW) • Flux-cored (FCAW)

Comes complete with

• 3 m (10 ft.) M-100 MIG gun and cable assembly (248282)
• 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

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 accessories

• 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)

• Running Gear/Cylinder Rack 301239
• Protective Cover 301262
• V-Knurled Drive Roll 202926
Millermatic® 212 Auto-Set™ See literature DC/12.46

Welding Capability

<table>
<thead>
<tr>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>200(208)/230 V</td>
<td>30–210</td>
<td>6.0–9.9 mm (.23–.35 in.)</td>
<td>Stainless Flux-cored</td>
<td>H: 762 mm (30 in.)</td>
<td>83 kg (183 lb.)</td>
</tr>
</tbody>
</table>

Auto-Set™ makes setup quick and easy. On the Millermatic 212, it works with 0.8 and 0.9 mm (.030 and .035 in.) wire.

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

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

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

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

Aluminum MIG welding with optional Spoolmate™ 200 spool gun.

Wire feed speed control on the gun saves time by reducing trips back to the machine. Also compatible with the more industrial Spoolmatic® spool guns.


Millermatic® 252 See literature DC/12.49

Welding Capability

<table>
<thead>
<tr>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>200(208)/230 V</td>
<td>30–210</td>
<td>6.0–9.9 mm (.23–.35 in.)</td>
<td>Stainless Flux-cored</td>
<td>H: 762 mm (30 in.)</td>
<td>83 kg (183 lb.)</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907405) 200(208)/230 V</td>
<td>30–210</td>
<td>6.0–9.9 mm (.23–.35 in.)</td>
<td>Stainless Flux-cored</td>
<td>H: 762 mm (30 in.)</td>
<td>83 kg (183 lb.)</td>
<td></td>
</tr>
</tbody>
</table>
Millermatic® 350P

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

Welding Capability

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

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

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

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

Heavy-duty aluminum, four-drive-roll system.

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

Millermatic® 350P Auto Body Aluminum Repair System

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

Welding Capability

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

Optimized low-end aluminum pulse program. Reduces heat input to prevent warping and burn-through on thin 1.2 mm (18 ga.) aluminum auto body panels

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

Hobart® 5554 aluminum wire specified by Ford. Includes one 203 mm (8 in.), 2.3 kg (5 lb.) spool of 1.2 mm (.047 in.) aluminum wire.

Most popular accessories

• Spoolmatic® Spool Guns
• XR™ Air-Cooled Push-Pull Guns
• Dual Cylinder Rack 195299
• Protective Cover 195142

Millermatic 350P

See literature DC/12.51

Processes

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

Millermatic 350P comes complete with

• 4.5 m (15 ft.) Bernard™ BTB Gun 300 A with Centerfire® consumables
• 3 m (10 ft.) work cable with clamp
• 3 m (10 ft.) industrial power cord (without plug) for single- or three-phase
• Factory-installed gas solenoid
• Flow gauge regulator and gas hose for argon or AR/CO₂ mix
• Factory-installed, low-mounted running gear/cylinder rack
• 0.9/1.2 mm (.035/.047 in.) reversible V-groove drive rolls (order U-groove drive rolls for aluminum welding)
• Extra contact tips

Millermatic 350P Auto Body Aluminum Repair System comes complete with

• 3.7 m (12 ft.) Bernard™ BTB Gun 200 A aluminum MIG gun
• 3 m (10 ft.) work cable with clamp
• 3 m (10 ft.) industrial power cord (without plug) for single- or three-phase
• Factory-installed gas solenoid
• Flow gauge regulator and gas hose for argon or AR/CO₂ mix
• Factory-installed, low-mounted running gear/cylinder rack
• 1.2 mm (.047 in.) U-groove drive rolls
• 1.2 mm (.047 in.) aluminum Centerfire™ contact tips (T-047AL)
• 203 mm (8 in.), 2.7 kg (6 lb.) spool of Hobart 1.2 mm (.047 in.) 5554 aluminum wire

Model/Stock Number

Input Power

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>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>amps Input at Rated Output, 60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 350P</td>
<td>25–400</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>34 30 15 11.6 11.5</td>
<td>0.6–1.2 mm (.023–.045 in.)</td>
<td>1.3–17.8 m/min. (50–700 ipm)</td>
<td>1.2 mm (.047 in.)</td>
<td>H: 863 mm (34 in.)</td>
<td>82 kg (181 lb.)</td>
</tr>
<tr>
<td>(907300) 200/230/460 V</td>
<td>Three-phase</td>
<td></td>
<td>69 61 30 13.1 11.2</td>
<td>Optional spool gun/push-pull gun 1.3–20 m/min. (50–800 ipm)</td>
<td>MIG gun 0.9–1.2 mm (.035–.047 in.)</td>
<td></td>
<td>W: 483 mm (19 in.)</td>
<td></td>
</tr>
<tr>
<td>Millermatic 350P Auto Body Aluminum Repair System (907300002) 200/230/460 V</td>
<td>Single-phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 1,041 mm (41 in.)</td>
<td></td>
</tr>
</tbody>
</table>
Millermatic® 350P Aluminum

Welding Capability

- True torque feed motor push-pull design provides continuous push force to the wire while the gun motor controls the speed at the gun. The motors work together to provide accurate and positive wire feed speed without wire shaving or deformation.
- Electronic wire spool brake allows wire spool to free spool while welding resulting in smooth wire delivery.
- Built-in aluminum pulsed MIG programs for simplicity and improved puddle control. Pulsed welding virtually eliminates burn-through and warping issues on thinner materials.
- Synergic MIG and synergic pulsed MIG provide communication between power source, feeder and gun. As wire speed increases/decreases, the pulse or MIG parameters also increase/decrease to match the right amount of power needed.
- Trigger schedule select allows operator to change between two sets of weld parameters.
- Trigger hold reduces operator fatigue on extended welds.
- Standard jog and purge.

Millermatic 350P Aluminum with XR-Aluma-Pro Lite gun shown.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millermatic 350P Aluminum (gun NOT included) (907474) 200/230/460 V standard unit</td>
<td>Three-phase</td>
<td>25–400</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>34</td>
<td>30</td>
<td>11.6</td>
<td>11.5</td>
<td>0.9–1.2 mm (.035–.047 in.)</td>
</tr>
<tr>
<td></td>
<td>Single-phase</td>
<td></td>
<td></td>
<td></td>
<td>Optional spool gun/ push-pull gun 1.3–20 m/min.</td>
<td></td>
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</tr>
</tbody>
</table>

Migmatic® 175

Manual mode allows for simple manual setting of parameters for welding on a broad range of applications.
- Thermal overload protection shuts down the power source output if the main transformer or rectifier overheats.
- Industrial dual-gear-driven system features no-tool, quick-change reversible drive rolls (0.8/1.0 mm) and an easy-to-set tension adjustment knob.
- Traditional tapped design and laminated inductor provide a stable, smooth arc for consistent weld quality.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output 230 V</th>
<th>Max. Open-Circuit Voltage</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(029015550) 230 V, 50/60 Hz, CE</td>
<td>30–150</td>
<td>150 A at 21 VDC, 30% duty cycle</td>
<td>21</td>
<td>34</td>
<td>1.8-18 mpm (70–708 ipm)</td>
<td>Solid steel 0.6–0.8 mm (.023–.030 in.)</td>
<td>Aluminum 0.8–1.0 mm (.030–.040 in.)</td>
<td>Flux-cored 0.6–0.8 mm (.023–.030 in.)</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Light industrial

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

Comes complete with
- Power cord with plug
- Work cable with clamp
- Running gear/bottle rack
- 0.8/1.0 mm drive rolls

Most popular accessories
- Spoolmate® 200 300497
- Dual EZ-Change® Low Cylinder Rack 300337
- Elevated Gun and Cable Rack 300335
- Protective Cover 195142
- Full KVA Adapter Cord 300517
Migmatic® 220/220DX and 250/250DX

See literature DCM/9.0 (220/220 DX) and DCM/10.0 (250/250DX)

Must be purchased from ITW Italy

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

Comes complete with
• Power cord with plug
• Work cable with clamp
• Running gear/bottle rack
• 0.8/1.0 mm drive rolls

Most popular accessories
• Spoolmate™ 200 300497
• Dual EZ-Change™ Low Cylinder Rack 300337
• Elevated Gun and Cable Rack 300335
• Protective Cover 195142
• Full KVA Adapter Cord 300517

Manual mode allows for simple manual setting of parameters for welding on a broad range of applications.

Thermal overload protection shuts down the power source output if the main transformer or rectifier overheats.

Industrial dual-gear-driven system features no-tool, quick-change reversible drive rolls (0.8/1.0 mm) and an easy-to-set tension adjustment knob.

Professional wire drive motor withstands even the most demanding applications.

Superior arc control technology provides the operator with state-of-the-art welding performance on a wide variety of materials.

Traditional tapped design (10 steps) and laminated inductor provide a stable, smooth arc for consistent weld quality.

Adjustable run-in control allows the operator to optimize arc starting with avariety of different wires.

Adjustable burnback control reduces wire stubbing, arc flaring and prevents wire burnback to protect contact tips.

Spot weld timer provides consistent spot welds every time. (Base models only.)

Synergic user interface with digital display to simplify setup and offer precise settings for welding a variety of materials. (DX models only.)
Migmatic® 300/300DX and 380/380DX

See literature DCM/11.0 (300/300 DX) and DCM/12.0 (380/380DX)

Must be purchased from ITW Italy

Migmatic 300/300DX and 380/380DX shown.

Manual mode allows for simple manual setting of parameters for welding on a broad range of applications.

Thermal overload protection shuts down the power source output if the main transformer or rectifier overheats.

Industrial dual-gear-driven system features no-tool, quick-change reversible drive rolls (0.8/1.0 mm) and an easy-to-set tension adjustment knob.

Professional wire drive motor withstands even the most demanding applications.

Superior arc control technology provides the operator with state-of-the-art welding performance on a wide variety of materials.

Traditional tapped design (20 steps) and laminated inductor provide a stable, smooth arc for consistent weld quality.

Adjustable run-in control allows the operator to optimize arc starting with a variety of different wires.

Adjustable burnback control reduces wire stubbing, arc flaring and prevents wire burnback to protect contact tips.

Spot weld timer provides consistent spot welds every time. (Base models only.)

Synergic user interface with digital display to simplify setup and offer precise settings for welding a variety of materials. (DX models only.)

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migmatic 300</td>
<td>230/400 V, 50 Hz, CE</td>
<td>300 A at 28 VDC, 35% duty cycle</td>
<td>35, 20</td>
<td>43</td>
<td>1.3–26 mpm (51–1,024 ipm)</td>
<td>Solid steel 0.6–1.2 mm (.023–.047 in.)</td>
<td>H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)</td>
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<tr>
<td></td>
<td>(029015545)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stainless 0.8–1.0 mm (.030–.040 in.)</td>
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<tr>
<td></td>
<td>400 V, 50 Hz, CE</td>
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<td></td>
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<td></td>
<td>Aluminum 0.8–1.2 mm (.030–.047 in.)</td>
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<tr>
<td></td>
<td>(029015540)</td>
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<td></td>
<td></td>
<td>Flux-cored 0.9–1.4 mm (.035–.055 in.)</td>
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<tr>
<td>Migmatic 300DX</td>
<td>400 V, 50 Hz, CE</td>
<td>350 A at 29 VDC, 35% duty cycle</td>
<td>27, 16</td>
<td>43</td>
<td>1.3–26 mpm (51–1,024 ipm)</td>
<td>Solid steel 0.6–1.2 mm (.023–.047 in.)</td>
<td>H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)</td>
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<td>Migmatic 380</td>
<td>380–400 V, 50 Hz, CE</td>
<td>350 A at 29 VDC, 35% duty cycle</td>
<td>27, 16</td>
<td>43</td>
<td>1.3–26 mpm (51–1,024 ipm)</td>
<td>Solid steel 0.6–1.2 mm (.023–.047 in.)</td>
<td>H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)</td>
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<td>Migmatic 380DX</td>
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<td>43</td>
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<td>Solid steel 0.6–1.2 mm (.023–.047 in.)</td>
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<tr>
<td>Migmatic 380/380DX</td>
<td>230–380–400 V, 50 Hz, CE</td>
<td>350 A at 29 VDC, 35% duty cycle</td>
<td>27, 16</td>
<td>43</td>
<td>1.3–26 mpm (51–1,024 ipm)</td>
<td>Solid steel 0.6–1.2 mm (.023–.047 in.)</td>
<td>H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)</td>
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<td>(029015543)</td>
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<td>Stainless 0.8–1.0 mm (.030–.040 in.)</td>
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<tr>
<td></td>
<td>380–400 V, 50 Hz, CE</td>
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<td>Aluminum 0.8–1.2 mm (.030–.047 in.)</td>
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<td></td>
<td>(029015548)</td>
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<td>Flux-cored 0.9–1.4 mm (.035–.055 in.)</td>
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</tbody>
</table>
Traditional tapped transformer power source. Simple and precise with 30 (XPS 350) or 40 (XPS 450) voltage steps, provides the operator with a superior range and arc performance for even the most demanding applications.

Two inductance terminals and laminated inductor provides a stable, smooth arc operators appreciate.

Standard 14-pin connection to Miller wire feed units connects to a variety of Miller wire feeders.

Thermal overload protection shuts down the power source output if the main transformer or rectifier overheats.

Optional 115-volt auxiliary power receptacles. Auxiliary power for water-cooling unit.

Optional Fan-On-Demand™ cooling system operates only when needed, reducing noise, energy use and amount of contaminants pulled through machine.

Optional dual digital meters with hold function display clear, precise readings of arc voltage and amperage.

Miller recommends

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

Visit HobartBrothers.com or your local distributor to learn more.
AlumaFeed® Synergic Aluminum Welding System

See literature DC/34.0

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

AlumaPower® 350 model 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. 450 model is 400 V only, three-phase.

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

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.

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

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

Parameter and system locks enhance quality assurance and protect weld consistency. Trigger schedule select allows operator to change between two sets of weld parameters.

AlumaFeed System consists of the following (sold separately)

- AlumaPower 350 MPa power source (907420003) or 450 MPa power source (907526)
- XR-AlumaFeed feeder (300509), CE
- XR-Aluma-Pro® push-pull MIG gun OR XR™-Pistol Grip push-pull MIG gun
- Coolmate® 3 cooling system with coolant (water-cooled systems only)

Most popular accessories

- XR™ Push-Pull Guns
- MIGRunner™ Cart 195445
- Coolmate™ 3 043007
- Coolant 043810
- Extension Cables 247831025 7.6 m (25 ft.)
  247831050 15 m (50 ft.)
  247831080 24.4 m (80 ft.)
- 1.6 mm (1/16 in.) Liner and Wire Kit for Gun 230708
- 1.6 mm (1/16 in.) Drive Roll Kit for Control Box 195591
- XR-Aluma-Pro™ Plus Air 300000001 4.6 m (15 ft.)
  300001001 7.6 m (25 ft.)
  300264001 10.6 m (35 ft.)
- XR-Aluma-Pro™ Plus Water 300003001, CE 4.6 m (15 ft.)
  300004001, CE 7.6 m (25 ft.)
  300265001 10.6 m (35 ft.)
- XR™-Pistol Grip Plus Air 300753 4.6 m (15 ft.)
  300754 7.6 m (25 ft.)
  300755 10.6 m (35 ft.)
- XR™-Pistol Grip Plus Water 300756 4.6 m (15 ft.)
  300757 7.6 m (25 ft.)
  300758 10.6 m (35 ft.)

Note: All systems come set up out of the box to run 1.2 mm wire. 1.6 mm consumables not included — order separately above.

Model/Stock Number | Amp/Volt Ranges | Rated Output | Amps Input at Rated Load Output, 50/60 Hz | KVA | KW | Max. Open-Circuit Voltage | Dimensions | Net Weight |
|------------------|----------------|--------------|-------------------------------------------|-----|----|--------------------------|------------|------------|
| AlumaPower 350 MPa (907420) 208–575 V (907420001) 208–575 V with auxiliary power (907420003) 230–575 V with auxiliary power, CE | 5–425 A 10–38 V | 350 A at 34 VDC, 60% duty cycle | 36.1 | 20.6 | 17.8 | 14.1 | 14.2 | 13.6 | 75 VDC | H: 432 mm (17 in.)
W: 318 mm (12.5 in.)
D: 610 mm (24 in.) | 36.3 kg (80 lb.) |
| AlumaPower 450 MPa (907483) 230/460 V with auxiliary power (907526) 400 V with auxiliary power, CE | 15–600 A 10–38 V | 450 A at 36.5 VDC, 100% duty cycle | 49.4 | – | 27.2 | 23.6 | 21.6 | 18.3 | 90 VDC | H: 438 mm (17.25 in.)
W: 368 mm (14.5 in.)
D: 689 mm (27.125 in.) | 55.3 kg (122 lb.) |
| XR-AlumaFeed Wire Feeder (300509), CE 14-pin compliant, but only operates synergically w/MPa power sources | Input Power | Input Welding Circuit Rating | Wire Feed Speed | Wire Diameter Capacity | Maximum Spool Size Capacity | Dimensions | Net Weight |
| 24 VAC, 5 A, 50/60 Hz | 400 A at 100% duty cycle System duty cycle is limited to gun rating | 1.3–22.9 mm (50–900 ipm) | 0.9–1.6 mm (.035–1/16 in.) Requires wire kit (230709) for gun and drive roll kit (195951) for control box to run 1.6 mm (1/16 in.) wire. | 305 mm (12 in.) | H: 406 mm (16 in.)
W: 241 mm (9.5 in.)
D: 540 mm (21.25 in.) | 19.2 kg (42.5 lb.) |
Deltaweld® Series

Industry standard for heavy-industrial MIG welding. Designed for manufacturing operations, with 100 percent duty cycle for extended arc-on time.

Line voltage compensation ensures consistent weld performance even when primary power varies. Fan-On-Demand™ cooling system operates only when needed. Reduces contaminants drawn into the machine and excess noise in work areas. Digital meters are easy to read and display preset and actual voltage and amperage. Remote control capability allows operators fine tuning capability at an extended distance.

115-volt power for tools and coolant systems. Thermal overload protection light indicates power shutdown. Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked. Material specific output studs provide the flexibility to produce the optimal arc characteristics for aluminum, stainless steel and all other materials.

XMS® 425 MPa Synergic Welding System

Industry standard for heavy-industrial MIG welding. Designed for manufacturing operations, with 100 percent duty cycle for extended arc-on time.

Inverter arc control technology provides class-leading welding performance on a variety of material, while line voltage compensation (LVC™) maintains constant power even when primary power input varies from +/- 10 percent.

Multiprocess power source. MIG, synergic MIG, synergic pulsed and double-pulsed MIG, Lift-Arc™ TIG and stick processes. Enhanced double-pulsed and pulsed MIG capabilities are easy to read and display preset and actual voltage and amperage. Integrated water-cooling system provides efficient cooling with low-flow shutdown for both MIG and TIG applications, and reduces external connections and cables to save workspace. Simple user interface reduces the number of control set up combinations for all processes and programs (including double-pulsed and pulsed MIG capabilities) without minimizing features or welding performance. Large, dual digital meters are easily preset to the desired weld output, and provide easy-to-view current and voltage measurements during welding to ensure optimal control of the weld bead. 32-bit microprocessor controls the arc and allows easy setting, updating and memorization of more than 100 customized welding programs.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 50 Hz, 400 V</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMS 425 MPa (029015483) 400 V, 50/60 Hz, CE</td>
<td>5–400 A</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>17</td>
<td>90 VDC</td>
<td>H: 860 mm (34 in.)  W: 490 mm (19.5 in.)  D: 990 mm (39 in.)</td>
<td>90 kg (198 lb.)</td>
</tr>
<tr>
<td>XMS MPa Wire Feeder (029007424), CE</td>
<td>Input Power</td>
<td>Wire Feed Speed</td>
<td>Wire Diameter Capacity</td>
<td>Maximum Spool Size Capacity</td>
<td>Dimensions</td>
<td>Net Weight</td>
</tr>
<tr>
<td>24 VAC, 7 A, 50/60 Hz</td>
<td>1.0–20.0 mpm (40–780 ipm)</td>
<td>0.8–1.4 mm (.030–.055 in.)</td>
<td>305 mm (12 in.) 15 kg (33 lb.)</td>
<td>H: 440 mm (17.5 in.)  W: 230 mm (9.25 in.)  D: 640 mm (25.25 in.)</td>
<td>18 kg (40 lb.)</td>
<td></td>
</tr>
</tbody>
</table>
Invision™ MPa Plus System See literature DC/23.6

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

![Invision 352 MPa with S-74 MPa Plus feeder shown.]

**Invision 352 model** allows for any input voltage hookup (208–575 V, three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power. **450 model is 400 V, three-phase.**

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

**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.

**Easy to set up.** Select wire diameter, wire type and gas being used, set your wire speed and strike an arc.

**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.

---

**Model/Stock Number**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load 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>Invision 352 MPa</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>36.1 20.6 17.8 14.1</td>
<td>14.2</td>
<td>13.6</td>
<td>75 VDC</td>
<td>H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)</td>
<td>36.3 kg (80 lb.)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>15–600 A 10–38 V</td>
<td>450 A at 36.5 VDC, 100% duty cycle</td>
<td>49.4 – 27.2 23.6</td>
<td>21.6 18.3</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.) W: 368 mm (14.5 in.) D: 689 mm (27.125 in.)</td>
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<tr>
<td>Invision 450 MPa</td>
<td></td>
<td></td>
<td>230/460 V</td>
<td>400 V</td>
<td>460 V</td>
<td>575 V</td>
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</tbody>
</table>

**Processes**

- MIG (GMAW) • Flux-cored (FCAW)
- Pulsed MIG (GMAW-P)
- Air carbon arc gouging (CAC-A) (Invision 352: 6.4 mm [1/4 in.] carbons) (Invision 450: 7.9 mm [5/16 in.] carbons)

**Invision MPa System consists of the following (sold separately)**

- Invision 352 MPa power source (907431002) OR 450 MPa power source (907524)
- 70 Series MPa Plus feeder
- XR-Aluma-Pro+ Plus or XR®-Pistol Plus push-pull gun
- Coolmate™ 3 cooling system with coolant (water-cooled systems only)

**Most popular accessories**

- XR™ Push-Pull Guns
- MIGRunner™ Cart 195445
- Coolmate™ 3 043007
- Extension Cables
  - 247831025 7.6 m (25 ft.)
  - 247831050 15 m (50 ft.)
  - 247831080 24.4 m (80 ft.)
- 1.6 mm (1/16 in.) Liner and Wire Kit for Gun 230708
- Running Gear Cylinder Rack 300408
- S-74 MPa Plus 300577, CE
- D-74 MPa Plus 300578, CE
- MIG 4/0 Cable Kit with Dinse 300405
- MIG 4/0 Cable Kit with lug connectors 300390

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**Table of Specifications**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output</th>
<th>KVA</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
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<tr>
<td>Invision 352 MPa</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>36.1 20.6 17.8 14.1</td>
<td>14.2</td>
<td>13.6</td>
<td>75 VDC</td>
<td>H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)</td>
<td>36.3 kg (80 lb.)</td>
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<td></td>
<td></td>
<td>15–600 A 10–38 V</td>
<td>450 A at 36.5 VDC, 100% duty cycle</td>
<td>49.4 – 27.2 23.6</td>
<td>21.6 18.3</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.) W: 368 mm (14.5 in.) D: 689 mm (27.125 in.)</td>
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<td>Invision 450 MPa</td>
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<td></td>
<td>230/460 V</td>
<td>400 V</td>
<td>460 V</td>
<td>575 V</td>
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Continuum™ Systems  See literature DC/36.0

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>
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<tr>
<td>Deposition</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>D</td>
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<td>Gap Filling</td>
<td>D</td>
<td>D</td>
<td>B</td>
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<td>Low Heat Input</td>
<td>D</td>
<td>C</td>
<td>B</td>
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<tr>
<td>Out-of-Position Welds</td>
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<td>Low Spatter</td>
<td>A</td>
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<td>B</td>
<td>C</td>
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<td>Thick Metals</td>
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<td>Increased Travel Speed</td>
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<td>A</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
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</tbody>
</table>

Criteria:
- **A** is the best fit for the process.
- **B** is good for the process.
- **C** is satisfactory for the process.
- **D** is not recommended for the process.

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.

Heavy industrial

**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, CE
- 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.) ROI Single 301227, CE Boom Dual 3.7 m (12 ft.) 301223 ROI Dual 301434, CE
- Pipe Post 149838 1.2 m (4 ft.) 149839 1.8 m (6 ft.)

**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-sputter process designed for thin-material applications.

**RMD** is a low heat modified short-circuit process designed to fill gaps with thin-material applications.

**High-deposition MIG provides increased deposition rates over standard spray on thicker materials.**

*While idling.*

---

**Table:**

<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 (power source only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuum</td>
<td></td>
<td>50 VDC</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Continuum 500</td>
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<td></td>
<td></td>
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<tr>
<td>Continuum Feeder only</td>
<td></td>
<td>50 VDC</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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**Figure:** Continuum 350 shown with Continuum single-wire feeder. Filter metal sold separately.
**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.

**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

- **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

*While idling.*

---

**Model**

<table>
<thead>
<tr>
<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>Max. Open-Circuit Voltage</th>
<th>Dimensions (Includes lift eye)</th>
<th>Net Weight</th>
</tr>
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<tbody>
<tr>
<td><strong>Auto-Continuum 350</strong></td>
<td>(907656) EtherNet/IP® (907658) EtherNet/IP® with auxiliary power</td>
<td>20–400 A, 10–44 V</td>
<td>350 A at 31.5 VDC, 100% duty cycle</td>
<td>IP23 36.1 21.8 20.8 16.8 14.6 14.4 13.8 0.1* 0.1* 0.1* 0.1* 0.1* 0.8* 0.17*</td>
<td>75 VDC</td>
<td>H: 27.187 in. (691 mm) W: 17.5 in. (444 mm) D: 28.22 in. (717 mm)</td>
<td>59.4 kg (130 lb.)</td>
</tr>
<tr>
<td><strong>Auto-Continuum 500</strong></td>
<td>(907657) EtherNet/IP® (907659) EtherNet/IP® with auxiliary power</td>
<td>20–600 A, 10–44 V</td>
<td>500 A at 39 VDC, 100% duty cycle</td>
<td>IP23 58.7 34.9 33.2 28.9 23.3 23.1 21.9 0.1* 0.1* 0.1* 0.1* 0.1* 0.8* 0.17*</td>
<td>75 VDC</td>
<td>69 kg (150 lb.)</td>
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<tr>
<td><strong>Auto-Continuum Wire Drive Motor Assembly</strong></td>
<td>(301267) Left-hand drive, CE (301268) Right-hand drive, CE</td>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>IP23 Standard: 1.3–25.4 m/min. (50–1,000 ipm) 0.9–2.0 mm (.035–.079 in.)</td>
<td>H: 222 mm (8.75 in.) W: 254 mm (10 in.) b: 254 mm (10 in.)</td>
<td>7.5 kg (16.5 lb.)</td>
<td></td>
</tr>
</tbody>
</table>
SuitCase® Series
Portable Feeders

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

**SuitCase Series Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>X-TREME 8VS</th>
<th>ArcReach 8VS</th>
<th>ArcReach 12VS</th>
<th>ArcReach 12RC</th>
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<tbody>
<tr>
<td>Remote voltage control</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>(control cable required)</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Remote voltage control</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>(without a cord)</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Digital meters</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Impact-resistant case</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Gas purge</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Wire jog</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
</tbody>
</table>

- **Standard**
- **Optional**

**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.

**Front panel has trigger hold, wire jog, and gas purge** for easy operator access. (X-TREME™ feeders only.)

**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. (Meters are optional on 8VS.)

**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 to change wire while feeder is standing upright or laying down.

**Case is available in two sizes.** (SuitCase X-TREME™ and ArcReach® SuitCase feeders only.)

**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-adapter 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.
SuitCase® X-TREME™ 8VS and 12VS  See literature M/6.42

Voltage-sensing feeders designed to run off of arc voltage from almost any welding power source. 8VS model is sized for a 203 mm (8 in.) spool of wire, can be carried to remote welding sites and fits through a 356 mm (14 in.) manhole/manway. 12VS model is sized for a 203 or 305 mm (8 or 12 in.) spool of wire. 305 mm (12 in.) spools are the most common in structural steel and fabrication.

ArcReach® SuitCase® 8 and 12 and ArcReach Smart Feeder

See literature M/6.55

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

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. The ArcReach Smart Feeder requires an XMT® 350 FieldPro™ or PipeWorx 350 FieldPro™ connected to three-phase power or an ArcReach-equipped engine drive.

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.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SuitCase X-TREME 8VS (300877), CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV</td>
<td>530 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.) 0.8–2.0 mm (.030–.056 in.)</td>
<td>203 mm (8 in.), 6.4 kg (14 lb.)</td>
<td>H: 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>SuitCase X-TREME 12VS (300876), CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV</td>
<td>425 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.) 0.8–2.0 mm (.030–.056 in.)</td>
<td>305 mm (12 in.), 20 kg (45 lb.)</td>
<td>H: 394 mm (15.5 in.) W: 229 mm (9 in.) D: 533 mm (21 in.)</td>
<td>15.9 kg (35 lb.)</td>
</tr>
<tr>
<td>ArcReach SuitCase 8 (301457), CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV</td>
<td>330 A at 60% duty cycle</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>Solid wire Flux-cored: 0.6–1.4 mm (.023–.052 in.) 0.8–2.0 mm (.030–.056 in.)</td>
<td>203 mm (8 in.), 6.4 kg (14 lb.)</td>
<td>H: 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), CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV</td>
<td>425 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.) 0.8–2.0 mm (.030–.056 in.)</td>
<td>305 mm (12 in.), 20 kg (45 lb.)</td>
<td>H: 394 mm (15.5 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) Direct, CE (300935) “Tweco®” (30093502) “Tweco®” w/flowmeter</td>
<td>XMT 350 FieldPro or PipeWorx 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive</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.) 0.8–2.0 mm (.030–.056 in.)</td>
<td>305 mm (12 in.), 15 kg (33 lb.)</td>
<td>H: 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 (301123), CE</td>
<td>24 VAC, 10 A, 50/60 Hz</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.) 0.8–2.0 mm (.030–.056 in.)</td>
<td>305 mm (12 in.), 20 kg (45 lb.)</td>
<td>H: 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>
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><strong>20 Series</strong></td>
<td>22A</td>
<td>24A</td>
</tr>
<tr>
<td>Trigger hold</td>
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<tr>
<td>Adjustable run-in control</td>
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<tr>
<td>Automatic run-in control</td>
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<tr>
<td>Digital meters</td>
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<tr>
<td>Remote voltage control</td>
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<tr>
<td>Spot control</td>
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<td>Dual-wire models</td>
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<td>Rotatable drive assembly</td>
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<td>Dual schedule control</td>
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<tr>
<td>Trigger program select</td>
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<tr>
<td>Trigger dual schedule</td>
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<td>Sequence control</td>
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<tr>
<td>Trigger schedule select</td>
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<tr>
<td>Push-pull capability</td>
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<tr>
<td>Synergic pulsed MIG</td>
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</tr>
<tr>
<td>Profile Pulse™</td>
<td>˘</td>
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</tbody>
</table>

- **Standard**: Required as standard feature.
- **Optional**: Field option.

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

### 22A and 24A

- 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.
- **Two gear-driven drive rolls** on 22A and **four gear-driven drive rolls** on 24A provide smooth, positive wire feed.

### Additional features for 24A feeder

- **Remote voltage control** at feeder for easier adjustments in the weld cell.
- **Adjustable run-in control** for better arc-starting performance on a variety of wires.
- **Four gear-driven drive rolls** provide more consistent feeding on larger wire diameters.
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.

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.

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.

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.

### Model and Stock Number

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Input Power</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>
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<tr>
<td><strong>20 Series</strong></td>
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</tr>
<tr>
<td>22A (300615)</td>
<td>w/run-in control</td>
<td>24 VAC, 7 A, 50/60 Hz</td>
<td>1.9-19 m/min. (75-750 ipm)</td>
<td>22A</td>
<td>0.6-2.0 mm (.023-5/64 in.)</td>
<td>27 kg (60 lbs)</td>
<td>H: 279 mm (11 in.) W: 273 mm (10.75 in.) D: 597 mm (23.5 in.)</td>
</tr>
<tr>
<td>22A (300615001)</td>
<td>w/digital display and voltage control</td>
<td>24 A (300622)</td>
<td>1.3-19.8 m/min. (50-780 ipm)</td>
<td>24A</td>
<td>0.6-2.4 mm (.023-3/32 in.)</td>
<td>27 kg (60 lbs)</td>
<td>H: 356 mm (14 in.) W: 318 mm (12.5 in.) D: 711 mm (28 in.)</td>
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<tr>
<td>S-74 MPa Plus (300577), CE</td>
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<td>D-74 MPa Plus (300578), CE</td>
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**70 Series** (Single-wire models)

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**70 Series** (Dual-wire models)

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</table>

### Optional Push-Pull Gun®

(For MPa Plus feeders only)

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (ft.)</th>
<th>Diameter (in.)</th>
<th>Rating (Amps)</th>
<th>Feed Speed (m/min)</th>
<th>Wire Type</th>
<th>Diameter (mm)</th>
<th>Capacity (lbs)</th>
<th>Dimensions (W x H x D)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XR-Aluma-Pro+ (Air-cooled)</td>
<td>4.6 (15 ft.)</td>
<td>0.8-1.6</td>
<td>300 A at 100% duty cycle</td>
<td>1.8-23 m/min. (70-900 ipm)</td>
<td>Aluminum®</td>
<td>0.8-1.6 mm (.030-1/16 in.)</td>
<td>127 lbs</td>
<td>127 mm (5 in.) W: 84 mm (3.3 in.) L: 432 mm (17 in.)</td>
<td>1.1 kg (2.5 lbs)</td>
</tr>
<tr>
<td>XR-Aluma-Pro+ (Water-cooled)</td>
<td>4.6 (15 ft.)</td>
<td>0.8-1.6</td>
<td>300 A at 100% duty cycle</td>
<td>1.8-23 m/min. (70-900 ipm)</td>
<td>Aluminum®</td>
<td>0.8-1.6 mm (.030-1/16 in.)</td>
<td>187 lbs</td>
<td>187 mm (7.375 in.) W: 48 mm (1.875 in.) L: 270 mm (10.625 in.)</td>
<td>1 kg (2.2 lbs)</td>
</tr>
<tr>
<td>XR-Pistol+ (Air-cooled)</td>
<td>4.6 (15 ft.)</td>
<td>0.8-1.6</td>
<td>200 A at 100% duty cycle</td>
<td>1.8-23 m/min. (70-900 ipm)</td>
<td>Aluminum®</td>
<td>0.8-1.6 mm (.030-1/16 in.)</td>
<td>127 lbs</td>
<td>127 mm (5 in.) W: 84 mm (3.3 in.) L: 432 mm (17 in.)</td>
<td>1.3 kg (2.9 lbs)</td>
</tr>
<tr>
<td>XR-Pistol+ (Water-cooled)</td>
<td>4.6 (15 ft.)</td>
<td>0.8-1.6</td>
<td>200 A at 100% duty cycle</td>
<td>1.8-23 m/min. (70-900 ipm)</td>
<td>Aluminum®</td>
<td>0.8-1.6 mm (.030-1/16 in.)</td>
<td>187 lbs</td>
<td>187 mm (7.375 in.) W: 48 mm (1.875 in.) L: 270 mm (10.625 in.)</td>
<td>1.1 kg (2.4 lbs)</td>
</tr>
</tbody>
</table>
70 Series Remote Configurations

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.

Single-wire control box
- Model: S-74S
- Control: SS-74S
- Feeder: SS-74S8

Motor control cable
- Standard: 11 conductor
- MPa Plus: 14 conductor

Wire drive motor assembly
- MPa Plus: 14 conductor
- SS-74MPa Plus

Gun NOT included. Must be ordered separately.

Push-only wire drive motor assembly
- Model: S-74S
- Control: SS-74S
- Feeder: SS-74S16

Motor control cable
- Standard: 11 conductor
- MPa Plus: 14 conductor

Wire drive motor assembly
- MPa Plus: 14 conductor
- SS-74MPa Plus

Gun NOT included. Must be ordered separately.

Wire Feeders

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.

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

Counterbalance 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.

Model/Stock Number

<table>
<thead>
<tr>
<th>Single-Wire Feeder Models</th>
<th>Boom Size</th>
<th>Feeder Control Box</th>
<th>Dual-Wire Feeder Models</th>
<th>Boom Size</th>
<th>Feeder Control Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-74S</td>
<td>2.4 m (8 ft)</td>
<td>S-74S</td>
<td>DS-74S</td>
<td>2.4 m (8 ft)</td>
<td>D-74S</td>
</tr>
<tr>
<td>SS-74S8</td>
<td>3.7 m (12 ft)</td>
<td>S-74S</td>
<td>DS-74S</td>
<td>3.7 m (12 ft)</td>
<td>D-74S</td>
</tr>
<tr>
<td>SS-74S12</td>
<td>4.9 m (16 ft)</td>
<td>S-74S</td>
<td>DS-74S</td>
<td>4.9 m (16 ft)</td>
<td>D-74S</td>
</tr>
<tr>
<td>SS-74S8</td>
<td>2.4 m (8 ft)</td>
<td>S-74S</td>
<td>DS-74S Plus</td>
<td>2.4 m (8 ft)</td>
<td>D-74S Plus</td>
</tr>
<tr>
<td>SS-74S12</td>
<td>3.7 m (12 ft)</td>
<td>S-74S</td>
<td>DS-74S Plus</td>
<td>3.7 m (12 ft)</td>
<td>D-74S Plus</td>
</tr>
<tr>
<td>SS-74S16</td>
<td>4.9 m (16 ft)</td>
<td>S-74S</td>
<td>DS-74S Plus</td>
<td>4.9 m (16 ft)</td>
<td>D-74S Plus</td>
</tr>
</tbody>
</table>

| Heavy industrial | Use with CV, DC power sources. |

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

Suggested power sources/guns
- Same as 70 Series

Most popular accessories
- Swingpak Base 183397
- Single/Dual Spool Carrier (pipe post not included) 300353
- For 1.2 m (4 ft) post 300352
- For 1.8 m (6 ft) post 300352
- Designed to put spool hub assembly at 914 mm (36 in.) from base for easier wire spool installation.

Heavy industrial
Use with CV, DC power sources.

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

Suggested power sources/guns
- Same as 70 Series

Most popular accessories
- Swingpak Base 183397
- Pipe Post with 45 mm (18 in.) Base 149838
- For 1.2 m (4 ft) post 149839

Input Power
- 24 VAC, 10 A, 50/60 Hz
- 1.3 - 19.8 m/min. (50-780 IPM)
- Optional High Speed: 2.3 - 36.6 m/min. (92-1435 IPM)

Wire Speed
- Standard Speed Motor: 0.6 - 3.2 mm (.023 - 1/8 in.)
- When using 2.4 - 3.2 mm (3/32 - 1/8 in.) wires, consult factory for low speed options.

Maximum Spool Size Capacity
- 27 kg (60 lb.) coil

For use with spooled wire.

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MIG Guns

Engineered for Simplicity. Built for Durability.

Your welders select the Bernard gun handles, triggers and necks that are the most comfortable and effective for accessing their welds.

Management enjoys the resulting increase in productivity, longer gun life, and a reduced parts inventory with consumables designed to work across all of your welding guns.

Visit BernardWelds.com to configure a hand-held gun for your welding application today.
Bernard™ Semi-Automatic Guns

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

BTB Air-Cooled MIG Guns

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

The C Series straight gun handle expands our handle lineup to seven choices. The C Series handle provides all the benefits of the T Series large straight handle, plus additional ergonomic benefits such as the handle overmold and rear swivel at no extra cost!

See chart below for a pre-configured BTB MIG gun that best matches your needs or visit MillerWelds.com to view a complete list. Or you may choose to configure your BTB MIG gun from the following array of options by visiting BernardWelds.com/ConfigureMyGun.

- Three high-performance consumable lines — Centerfire™, Quik Tip™ or TOUGH LOCK™
- Universal Conventional or front-loading QUICK LOAD™ liners
- Fixed or rotatable aluminum armored necks in various lengths and angles to optimize weld access
- Choice of seven different handles with various trigger options for a comfortable, ergonomic fit
- Internal cable connections are compression fit (instead of crimped) to optimize conductivity, reduce heat and increase gun life
- Optional ultra-heavy-duty steel monocoil cable provides extra reinforcement and high pinch/kink resistance
- One year manufacturer’s warranty with lifetime warranty on rear strain relief

For more detailed information, visit BernardWelds.com

---

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Amperage</th>
<th>Cable Length</th>
<th>Handle</th>
<th>Trigger</th>
<th>Neck</th>
<th>Consumables</th>
<th>Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q301SAEMC</td>
<td>300</td>
<td>4.5 m (15 ft.) industrial</td>
<td>B Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire (flush)</td>
<td>1.2 mm (.045 in.)</td>
</tr>
<tr>
<td>Q301SSAEMC</td>
<td>300</td>
<td>4.5 m (15 ft.) industrial</td>
<td>B Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>1.2 mm (.045 in.)</td>
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<tr>
<td>Q301SESEMC</td>
<td>300</td>
<td>4.5 m (15 ft.) industrial</td>
<td>O Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Quik Tip</td>
<td>1.2 mm (.045 in.)</td>
</tr>
<tr>
<td>Q301SAEHMC</td>
<td>300</td>
<td>4.5 m (15 ft.) industrial</td>
<td>B Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>1.3 mm (.052 in.)</td>
</tr>
<tr>
<td>Q401SSAEMC</td>
<td>400</td>
<td>4.5 m (15 ft.) industrial</td>
<td>B Series large curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>1.2 mm (.045 in.)</td>
</tr>
<tr>
<td>Q401SESEMC</td>
<td>400</td>
<td>4.5 m (15 ft.) industrial</td>
<td>O Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>1.2 mm (.045 in.)</td>
</tr>
<tr>
<td>Q401SAEHMC</td>
<td>400</td>
<td>4.5 m (15 ft.) industrial</td>
<td>B Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>1.6 mm (1/16 in.)</td>
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<tr>
<td>Q401SESEMC</td>
<td>400</td>
<td>4.5 m (15 ft.) industrial</td>
<td>O Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>1.6 mm (1/16 in.)</td>
</tr>
<tr>
<td>Q401SSAEMC</td>
<td>400</td>
<td>4.5 m (15 ft.) industrial</td>
<td>B Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>3/4 ID, 1/8 rec., large</td>
</tr>
<tr>
<td>Q401SESEMC</td>
<td>400</td>
<td>4.5 m (15 ft.) industrial</td>
<td>O Series small curved</td>
<td>Standard</td>
<td>Rotatable med. 45°</td>
<td>Centerfire</td>
<td>3/4 ID, 1/8 rec., large</td>
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</table>

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<table>
<thead>
<tr>
<th>Contact Tips (mm)</th>
<th>0.9</th>
<th>1.2</th>
<th>1.4</th>
<th>1.6</th>
</tr>
</thead>
</table>

TOUGH LOCK Consumable Series

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

- Copper Nozzles (inches)
  - 403-14-35-25 0.9 SD
  - 403-20-35-25 0.9 HD
  - 403-14-45-25 1.2 SD
  - 403-20-45-25 1.2 HD
  - 403-20-52-25 1.4 HD
  - 403-20-116-25 1.6 HD

---

All guns in chart come with a Miller® power pin and a Universal Conventional liner except as noted below.

*Comes with a Miller power pin and a QUICK LOAD liner AutoLength™ system.
**Bernard™ Semi-Automatic Guns**

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

### Fume Extraction MIG Guns

See Bernard literature SP-CLA (straight handle) and SP-FPE (curved handle)

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

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

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

### Dura-Flux® Self-Shielded Flux-Cored Guns

See Bernard literature SP-DF

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

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

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

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**Bernard Welding Consumables (cutaways shown)**

### Centerfire™

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

### Quik Tip™

See Bernard literature SP-QTC
- A 1/4 turn is all it takes to install contact tips
- Threaded taper lock increases tip life and allows excellent heat transfer and electrical conductivity
- Fixed contact tip position for repeatability and consistent quality welds

### TOUGH LOCK™

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

---

**Heavy industrial**

- MIG (GMAW) • Flux-cored (FCAW)

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

**Suggested feeders**
- Continuum™ Feeder
- SuitCase® Series
- 20 and 70 Series Feeders

**Suggested power source**
- Milermatic® 350P
- FILTAIR® 130

**Most popular consumables**

#### Centerfire Consumable Series

<table>
<thead>
<tr>
<th>Diffusers (amps)</th>
<th>DS-1</th>
<th>200, 300, small</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D-1</td>
<td>400, 500, 600, large</td>
</tr>
<tr>
<td>Brass Nozzles (inches)</td>
<td>NS-1218B</td>
<td>1/2 ID, 1/8 rec., small</td>
</tr>
<tr>
<td>Copper Nozzles (inches)</td>
<td>NS-5818C</td>
<td>5/8 ID, 1/8 rec., small</td>
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<tr>
<td></td>
<td>N-5818C</td>
<td>5/8 ID, 1/8 rec., large</td>
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<tr>
<td></td>
<td>N-5814C</td>
<td>5/8 ID, 1/4 rec., large</td>
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<tr>
<td></td>
<td>N-3414C</td>
<td>3/4 ID, 1/4 rec., large</td>
</tr>
<tr>
<td>Contact Tips (mm)</td>
<td>T-035</td>
<td>0.9</td>
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<tr>
<td></td>
<td>T-045</td>
<td>1.2</td>
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<tr>
<td></td>
<td>T-052</td>
<td>1.4</td>
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<td>T-062</td>
<td>1.6</td>
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#### Quik Tip Consumable Series

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<th>Diffusers (amps)</th>
<th>D118Q</th>
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<tbody>
<tr>
<td></td>
<td>D114Q</td>
<td>500, 600</td>
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<tr>
<td>Plated Copper Nozzles (inches)</td>
<td>N1C58Q</td>
<td>5/8 ID</td>
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<tr>
<td></td>
<td>N1C34HQ</td>
<td>3/4 ID, HD</td>
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<tr>
<td>Contact Tips (mm)</td>
<td>T1035</td>
<td>0.9</td>
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<tr>
<td></td>
<td>T1045</td>
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#### TOUGH LOCK Consumable Series

<table>
<thead>
<tr>
<th>Diffusers (amps)</th>
<th>404-18-25</th>
<th>200, 300, 400 SD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>404-26-25</td>
<td>300, 400, 500, 600 HD</td>
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<tr>
<td>Copper Nozzles (inches)</td>
<td>401-4-62</td>
<td>5/8 ID, 1/8 Rec., SD</td>
</tr>
<tr>
<td></td>
<td>401-6-62</td>
<td>5/8 ID, 1/8 Rec., HD</td>
</tr>
<tr>
<td></td>
<td>401-5-62</td>
<td>5/8 ID, 1/4 Rec., HD</td>
</tr>
<tr>
<td></td>
<td>401-5-75</td>
<td>3/4 ID, 1/8 rec., HD</td>
</tr>
<tr>
<td>Contact Tips (mm)</td>
<td>403-14-35-25</td>
<td>0.9 SD</td>
</tr>
<tr>
<td></td>
<td>403-20-35-25</td>
<td>0.9 HD</td>
</tr>
<tr>
<td></td>
<td>403-14-45-25</td>
<td>1.2 SD</td>
</tr>
<tr>
<td></td>
<td>403-20-45-25</td>
<td>1.2 HD</td>
</tr>
<tr>
<td></td>
<td>403-20-52-25</td>
<td>1.4 HD</td>
</tr>
<tr>
<td></td>
<td>403-20-116-25</td>
<td>1.6 HD</td>
</tr>
</tbody>
</table>
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.**

### Light industrial

*Process*

- MIG (GMAW) with aluminum and other soft alloy wires
- MIG (GMAW) with hard wires

### Suggested power sources

**For Spoolmate 100**
- Millermatic® 141
- Millermatic® 190
- Millermatic® 211
- Multimatic® 20
- Multimatic® 215
- Syncrowave® 210 — requires MIG accessory kit (301254)

**For Spoolmate 150**
- Millermatic® 211
- Multimatic® 200 effective with serial number MF364047N
- Multimatic® 215
- Syncrowave® 210 — requires MIG accessory kit (301254)

**For Spoolmate 200**
- Millermatic® 212 Auto-Set™
- Millermatic® 252

**For Spoolmate 3035**
- Direct connect to vintage Millermatic 210/212 tapped-voltage models
- Millermatic® 141/190/211 — requires SGA 100 control (043856)
- Bobcat™ 225 — requires SGA 100C control (043857)

### Most popular accessories

**For Spoolmate 200**
- 45-Degree Head Tube 300591
- 229 mm (9 in.) Extension Head Tube 300592
- 127 mm (5 in.) Head Tube 243385
- Spoolmatic Adapter Cable 195287
  - Allows connection to older Millermatic 210 and 212 (non-Auto-Set).

**For Spoolmatic 3035**
- SGA 100 043856
- SGA 100C 043857
- Heavy-Duty Head Tube 195375

---

<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>Net Weight with Cable Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoolmate 100</td>
<td>135 A at 30% duty cycle</td>
<td>1.7–15.9 m/min. (5–625 ipm) Wire speed dependent on power source used</td>
<td>Aluminum 0.8–0.9 mm (0.030–0.035 in.) Solid steel 0.6–0.9 mm (0.023–0.035 in.) Stainless 0.6–0.9 mm (0.023–0.035 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 291 mm (11.5 in.) W: 76 mm (3 in.) L: 330 mm (13 in.)</td>
<td>2.7 kg (6 lb.) 4.1 kg (9 lb.) with case</td>
</tr>
<tr>
<td>Spoolmate 150</td>
<td>150 A at 60% duty cycle</td>
<td>2.9–18.1 m/min. (115–715 ipm) Wire speed dependent on power source used</td>
<td>Aluminum 0.8–0.9 mm (0.030–0.035 in.) Solid steel 0.6–0.9 mm (0.023–0.035 in.) Stainless 0.6–0.9 mm (0.023–0.035 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 291 mm (11.5 in.) W: 76 mm (3 in.) L: 318 mm (12.5 in.)</td>
<td>3.2 kg (7.3 lb.)</td>
</tr>
<tr>
<td>Spoolmate 200</td>
<td>160 A at 60% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm) Wire speed dependent on power source used</td>
<td>Aluminum 0.8–0.9 mm (0.030–0.035 in.) Solid steel 0.6–0.9 mm (0.023–0.035 in.) Stainless 0.6–0.9 mm (0.023–0.035 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 229 mm (9 in.) W: 64 mm (2.5 in.) L: 368 mm (14.5 in.)</td>
<td>5 kg (11 lb.)</td>
</tr>
<tr>
<td>Spoolmate 3035</td>
<td>150 A at 60% duty cycle, 200 A at 60% duty cycle with optional heavy-duty head tube</td>
<td>2.9–18.1 m/min. (115–715 ipm)</td>
<td>Aluminum 0.8–0.9 mm (0.030–0.035 in.) Solid steel 0.6–0.9 mm (0.023–0.035 in.) Stainless 0.6–0.9 mm (0.023–0.035 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 291 mm (11.5 in.) W: 57 mm (2.25 in.) L: 203 mm (8 in.)</td>
<td>4.1 kg (9.1 lb.)</td>
</tr>
</tbody>
</table>
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.

**MIG Guns**

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
- Millermatic® 350P/350P Aluminum—except Spoolmatic Pro
- Shopmate™ 300 DX
- 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
- AlumaPower™ MPa
- CP-302
- Deltaweld® Series
- Invision™ MPa
- Dimension™ Series
- XMT® Series
- Trailblazer® Series

**Model/Stock Number**

<table>
<thead>
<tr>
<th>Spoolmatic</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>(195156)</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm)</td>
<td>Aluminum* 0.8–1.6 mm (.030–1/16 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 260 mm (10.25 in.)</td>
<td>1.3 kg (2.9 lb.)</td>
</tr>
<tr>
<td>(130831)</td>
<td>9 m (30 ft.) cable</td>
<td>Wire speed dependent on control or Millermatic used</td>
<td>L: 384 mm (15.125 in.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spoolmatic Pro</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Hard wire 0.8–1.1 mm (.030–.045 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 273 mm (10.75 in.)</td>
<td>1.4 kg (3.0 lb.)</td>
</tr>
<tr>
<td>(301147)</td>
<td>9 m (30 ft.) cable</td>
<td>Wire speed dependent on control or Millermatic used</td>
<td>L: 390 mm (15.375 in.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Spoolmatic</th>
<th>Welding Current Rating</th>
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<td>Wire speed dependent on control or Millermatic used</td>
<td>L: 390 mm (15.375 in.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Gun Only Net Weight**

<table>
<thead>
<tr>
<th>Spoolmatic</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>
</tr>
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<tbody>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Miller recommends

Filler metals are a critical component in any weld project. They become part of your end product and choosing the right filler metal can affect the look and quality of your weld. To make your filler metal choice easier, **Hobart offers a FREE app for download** on both Android™ and Apple® devices. Features of the app include:

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

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

XR-Aluma-Pro and XR-Pistol guns work in conjunction with an XR 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>4.6 m (15 ft.)</td>
<td>175 A at 60% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminum</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>7.6 m (25 ft.)</td>
<td>300 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminum</td>
<td>H: 127 mm (5 in.) W: 84 mm (3.3 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>9 m (30 ft.)</td>
<td>400 A at 100% duty cycle</td>
<td>200 A at 100% duty cycle</td>
<td>Aluminium</td>
<td>H: 187 mm (7.375 in.) W: 48 mm (1.875 in.) L: 270 mm (10.625 in.)</td>
<td>1.1 kg (2.4 lb.)</td>
</tr>
<tr>
<td>XR-Pistol (Air-cooled)</td>
<td>4.6 m (15 ft.)</td>
<td>175 A at 60% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm)</td>
<td>Aluminium</td>
<td>H: 102 mm (4 in.) W: 48 mm (1.9 in.) L: 381 mm (15 in.)</td>
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<td>1.1 kg (2.4 lb.)</td>
</tr>
</tbody>
</table>
Feeding aluminum – choose the right gun solution

**XR** Control  See literature M/1.7

Standard aluminum wire feeding system for fabrication and manufacturing, consisting of a control box and push-pull gun. Beneficial for difficult-to-feed wire types.

### XR-S

Simple, cost-effective push-pull feeder for industrial applications.

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

**Digital meters** ensure accuracy when presetting and reading actual wire feed speed or voltage.

**Trigger hold** for making long weldments without hand fatigue.

**Adjustable wire run-in control** allows arc start fine tuning.

Reduces wire stubbing or arc flaring which can result in contact tip burnback.

### XR-D (additional features)

Adds basic programmable weld sequencing that allows adjustments for preflow, postflow, start, and crater providing higher quality welds.

---

**Model/Stock Number**
- XR-S (300601), CE
- XR-D (300687), CE
- XR-AlumaFeed (300509), CE

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</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>XR-S (300601), CE</td>
<td>24 VAC, 50/60 or 100 Hz</td>
<td>1.3–23 m/min. (50–900 ipm)</td>
<td>Aluminum 0.8–1.6 mm (.030–1/16 in.) Requires drive roll kit (195591) to run 1.6 mm (1/16 in.) wire</td>
<td>305 mm (12 in.)</td>
<td>H: 406 mm (16 in.) W: 235 mm (9.25 in.) D: 540 mm (21.25 in.)</td>
<td>19.2 kg (42.5 lb.)</td>
</tr>
<tr>
<td>XR-D (300687), CE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XR-AlumaFeed (300509), CE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Heavy industrial**

Use with CC/CV, DC power sources.

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

**Suggested guns**
- Push-pull guns

**Suggested power sources**
- AlumaPower™ MPa
- Deltaweld® Series
- Invision™ MPa
- XMT® Series
- Trailblazer® Series

**Most popular accessories**
- Extension Cables
- PSA-2 Control
- Gas Flowmeter Kit 246127

---

Learn more at MillerWelds.com/aluminum
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.

Intuitive color LCD user 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 and 4.6 m (10, 12 or 15 ft.) guns.

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

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

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

Welding Capability

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>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.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
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</tr>
</thead>
</table>
Robust. Resilient. Repeatable.
The robotic MIG welding guns and peripherals that you can rely on.
Tregaskiss understands that automated welding applications require reliable products that maximize production uptime and throughput. This is why industrial manufacturers repeatedly turn to Tregaskiss and its proven track record in providing resilient, easy to maintain, robotic MIG welding guns, consumables and peripherals.

Visit Tregaskiss.com for more information or to configure a robotic gun for your welding application today.

Synergic welding mode offers the simplicity of single knob control. The machine will select the correct voltage and amperage based on the wire feed speed (WFS) set by the operator.

Note: Complete material library to select from for the targeted market segment.

Large graphical display guides user through process and parameter setup with ease and high visibility.

Durable cast aluminum feedhead incorporates dual-groove quick-change drive roll and spring-loaded tension arm with calibrated tension knob, all designed to make setup easier and faster.

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

Adjustable Hot Start for stick arc starts. Adjust the optimal start current for the application. The current automatically increases the output amperage at the start of a weld.

Built-in upslope/downslope function for TIG helps provide better arc starts and reduces craters.

Built-in run-in/crater/burnback function for MIG helps provide better arc starts and reduces craters.

Adjustable preflow and postflow gives operator better control of the gas parameters affecting weld zone.

Selectable trigger configuration allows the operator to choose standard or 2T trigger method.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Amperage/Voltage Range DC</th>
<th>Rated Output</th>
<th>IP Rating</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(059016014)</td>
<td>MIG</td>
<td>2–200 A, 15–24 V</td>
<td>180 A at 23.0 V DC, 35% duty cycle</td>
<td>IP225</td>
<td>35</td>
<td>H: 365 mm (14.4 in.) W: 237 mm (9.3 in.) D: 548 mm (21.6 in.)</td>
<td>16 kg (35 lb.)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>140 A at 21.0 V DC, 60% duty cycle</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>110 A at 17.5 V DC, 100% duty cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>5–200 A, 20.2–28 V</td>
<td>170 A at 26.8 V DC, 35% duty cycle</td>
<td>65</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>130 A at 25.2 V DC, 60% duty cycle</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100 A at 24.0 V DC, 100% duty cycle</td>
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<td></td>
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<tr>
<td></td>
<td>TIG</td>
<td>5–200 A, 10–18 V</td>
<td>180 A at 17.2 V DC, 35% duty cycle</td>
<td>65</td>
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<td></td>
<td></td>
<td>130 A at 15.2 V DC, 60% duty cycle</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100 A at 14.0 V DC, 100% duty cycle</td>
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</tr>
</tbody>
</table>

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

Most popular accessories
• TIG Torch WTC9AA4AG
  125 amps DC/100 amps AC, 60% duty cycle
• TIG Torch CS130AGA4CG-I
  130 amps DC/100 amps AC, 60% duty cycle
• MIG/MAG Torch Q2010AO8DE
  200-amp Q-Gun with 3 m (10 ft.) cable
Dynasty® 280 DX with CV

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

SuitCase X-TREME® feeder paired with the CV output of the power source gives this unit MIG process capabilities.

- Allows for any input voltage hook-up (208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.
- Blue Lightning® high-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.
- Pulsed TIG can be used to increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion.
- Fan-On-Demand™ cooling system operates only when needed. Reduces contaminants drawn into the machine and excess noise in work areas.
- Cooler-On-Demand™ feature operates the auxiliary cooling system only when needed, reducing noise, energy use, and airborne contaminants pulled through the cooler.

Dimension™ Series

100% duty cycle industrial power sources deliver time-tested, reliable performance in demanding multiprocess applications for a variety of industries.

All models feature:
- DC multiprocess versatility with excellent arc performance.
- Digital meters for presetting or monitoring voltage or amperage (Dimension Series allows preset voltage only).
- Line voltage compensation for input voltage variations.
- Power efficiency for exceptional return on your investment.
- 15-amp, 115-VAC duplex receptacle for auxiliary tools.
- Hot Start™ makes it easier to start difficult stick electrodes.
- Arc control for added flexibility in tight stick locations.
Developed for harsh environmental conditions and output requirements that range from power-intensive to precise.

Remote control of the power source without a cord. An ArcReach system allows you to change weld settings from your SuitCase® wire feeder or ArcReach Stick/TIG Remote, saving a trip to the power supply. No extra control cable to purchase, maintain, string or unstring – saving time and money. Learn more at MillerWelds.com/arcreach

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.
XMT® Series

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

Input power choices
(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.

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>350 Amp</th>
<th></th>
<th>450 Amp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td>XMT 350 CC/CV</td>
<td>XMT 350 MPa</td>
</tr>
<tr>
<td>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>
</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>
</tr>
<tr>
<td><strong>Carbon Arc Gouging</strong></td>
<td>Rated: 6 mm</td>
<td>Rated: 6 mm</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>36.3 kg (80 lb.)</td>
<td>36.3 kg (80 lb.)</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>Dinse</td>
<td>Dinse</td>
</tr>
<tr>
<td><strong>Pulsed MIG</strong></td>
<td>—</td>
<td><strong>UPGRADE</strong></td>
</tr>
<tr>
<td><strong>14-pin Compliant</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Insight Core Capable</strong></td>
<td>(requires Insight Core 14-pin module)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
**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® 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.

---

### 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>Amps Input at Rated Load Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 CC/CV (Dinse)</td>
<td>3-phase</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4 36.1 20.6 17.8 14.1 14.2 13.6</td>
<td>75 VDC</td>
<td>H: 432 mm (17 in.)</td>
<td>36.3 kg (80 lb.)</td>
</tr>
<tr>
<td>XMT 350 MPa (Dinse except where noted)</td>
<td>3-phase</td>
<td>5–425 A 10–38 V</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>60.8 54.6 29.7 24.5 19.9 17.1 16.5</td>
<td>75 VDC</td>
<td>H: 432 mm (17 in.)</td>
<td>36.3 kg (80 lb.)</td>
</tr>
<tr>
<td>XMT 425 CC/CV (907386)</td>
<td>3-phase</td>
<td>425 A at 27 VDC, 30% duty cycle</td>
<td>– 36.1 20.6 17.8 14.1 14.2 13.6</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>43 kg (95 lb.)</td>
<td></td>
</tr>
<tr>
<td>XMT 450 CC/CV (907481)</td>
<td>3-phase</td>
<td>450 A at 36 VDC, 100% duty cycle</td>
<td>– 51 27.6 24.4 22 18.9</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>49 kg (105 lb.)</td>
<td></td>
</tr>
<tr>
<td>XMT 450 MPa (907478)</td>
<td>3-phase</td>
<td>450 A at 36 VDC, 100% duty cycle</td>
<td>– 51 27.6 23.6 21.6 18.3</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.)</td>
<td>55.3 kg (122 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

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

**Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).
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-Blind™ automatically establishes exclusive communication between the power source and the wire feeder, using the existing weld cables upon system power up.

Exceptional arc performance

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

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

Increased uptime

Delivers the performance you need. XMT 350 FieldPro welders and ArcReach feeders and remotes have been extensively 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 multi-story and cluttered jobsites 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.

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
XMT® 450 CC/CV ArcReach®

See literature DC/18.94

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

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

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

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

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

ArcReach® Accessories

ArcReach SuitCase® 8 and 12 feeders
(for MIG or flux-cored welding)

301457 ArcReach SuitCase® 8
301456 ArcReach SuitCase® 12

Features remote voltage control, polarity indication and Auto-Process Select™.

ArcReach Smart Feeder
(for RMD® or pulsed MIG welding)

300935 Smart Feeder w/Bernard® PipeWorx 300-15 MIG gun

Smart Feeder delivers excellent RMD and pulsed MIG welding 200 feet from the power source with no control cables. RMD and pulse processes help reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

ArcReach Stick/TIG Remote
(for stick or TIG welding)

301325

Features remote amperage control, arc control for stick, polarity indication and Auto-Process Select™.

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

**Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).
PipeWorx 350 FieldPro™ System

Simplicity-driven performance for your pipe construction site.

Stick/TIG system includes (sold separately)
- PipeWorx 350 FieldPro power source (907633)
- FieldPro Remote with work sense lead and clamp (301176)

MIG/flux-cored system includes (sold separately)
- PipeWorx 350 FieldPro power source (907633)
- SuitCase® X-TREME™ 8VS (301457) or 12VS (301456)
- ArcReach Feeder with drive rolls, work sense lead and clamp

RMD/pulse system includes (sold separately)
- PipeWorx 350 FieldPro power source (907633)
- FieldPro Smart Feeder with drive rolls (300177)

Remote control of the power source without a cord.

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

Arc performance optimized for critical pipe welding
- Industry-leading arc performance like the PipeWorx 400 welding system, but in a field-ready package
- True multiprocess system provides conventional stick, TIG, flux-cored and MIG welding, as well as the advanced technologies of RMD® and pulsed MIG
- Smart Feeder delivers excellent RMD and pulsed MIG welding 200 feet from the power source with no control cables. RMD and pulse processes help reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications
PipeWorx 350 FieldPro Racks

All the benefits of the individual PipeWorx 350 FieldPro in an easy to transport package for multiple arcs in the field.

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

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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Rack Capacity</th>
<th>Input Power to Rack</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Pack Rack (907588)</td>
<td>4 units</td>
<td>230-575 V, three-phase, 50/60 Hz. (Fuses included for 480 or 575 V operation. Only empty racks require ordering appropriate fuse kit.)</td>
<td>H: 1,500 mm (59 in.) W: 1,092 mm (43 in.) D: 873 mm (34.375 in.)</td>
<td>308 kg (679 lb.) 399 kg (879 lb.) 127 kg (279 lb.)</td>
</tr>
<tr>
<td>6-Pack Rack (907589)</td>
<td>6 units</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Empty Rack (195466)</td>
<td>6 units</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 Memory Card, Accu-Power 300667
Displays instantaneous power during welding to meet the ASME requirement for calculating heat input on complex waveform processes (RMD and pulsed MIG).

Welding with the Smart Feeder requires the PipeWorx 350 FieldPro to be hooked up to three-phase power.

Power Source/Stock Number | Input Power | Amperage/Voltage Ranges | Rated Output at 60% Duty Cycle | Amps Input at Rated Output, 50/60 Hz | KVA | KW | Max. Open-Circuit Voltage | Dimensions | Net Weight |
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PipeWorx 350 FieldPro 230-575 V, 50/60 Hz (907633) Dinse, CE (907533) Tweco®</td>
<td>Three-phase</td>
<td>CC mode: 10-350 A CI mode: 10-44 V</td>
<td>350 A at 34 VDC</td>
<td>36.1</td>
<td>34</td>
<td>15.0</td>
<td>14.4</td>
<td>75 VDC</td>
<td>H: 432 mm (17 in.) W: 305 mm (12 in.) D: 559 mm (22 in.)</td>
</tr>
</tbody>
</table>

Wire Feeder Model/Stock Number | Input Power | Input Welding Circuit Rating | Wire Feed Speed | Wire Diameter Type and Capacity | Maximum Speed Size Capacity | Dimensions | Net Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcReach Suitcase 8 (301457), CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14-48 VDC/110 max. OCV</td>
<td>330 A at 60% duty cycle</td>
<td>1.3-19.8 mpm (50-780 ipm) dependent on arc voltage</td>
<td>Solid wire: 0.6-1.4 mm (.023-.052 in.) Fluarc-core: 0.8-2.0 mm (.030-.080 in.)</td>
<td>203 mm (8 in.) 6.4 kg (14 lb.)</td>
<td>H: 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 (301458), CE</td>
<td>Operates on open-circuit voltage and arc voltage: 14-48 VDC/110 max. OCV</td>
<td>425 A at 60% duty cycle</td>
<td>1.3-19.8 mpm (50-780 ipm) dependent on arc voltage</td>
<td>Solid wire: 0.6-1.4 mm (.023-.052 in.) Fluarc-core: 0.8-2.0 mm (.030-.080 in.)</td>
<td>305 mm (12 in.) 20 kg (45 lb.)</td>
<td>H: 394 mm (15.5 in.) W: 229 mm (9 in.) D: 533 mm (21 in.)</td>
<td>15.9 kg (35 lb.)</td>
</tr>
<tr>
<td>FieldPro Smart Feeder (301177) Dinse, CE (300935) Tweco® (300935002) Tweco® w/flowmeter</td>
<td>Operates on open-circuit voltage and arc voltage: 14-48 VDC/110 max. OCV*</td>
<td>275 A at 60% duty cycle</td>
<td>50-500 ipm (1.3-12.7 mpm) dependent on arc voltage</td>
<td>.035-.045 in. (0.9-1.1 mm)</td>
<td>305 mm (12 in.) 15 kg (33 lb.)</td>
<td>H: 457 mm (18 in.) W: 330 mm (13 in.) D: 546 mm (21.5 in.)</td>
<td>23 kg (50 lb.)</td>
</tr>
</tbody>
</table>

*Welding with the Smart Feeder requires the PipeWorx 350 FieldPro to be hooked up to three-phase power.
**PipePro® XC Welding System**  
See literature PWSM/5.0

**Designed specifically to meet the rugged demands of pipeline applications. System is optimized to provide excellent arc performance using the Hobart® Fabshield® family of self-shielded FCAW filler metals.**

### Power source features

**PipeWorx 400XC power source** is able to perform simple stick (SMAW) welding to advanced RMD® welding. The arc performance and ease-of-use is optimized to provide quality and productivity, while simplifying welding training.

- **Temperature** — power source rating is based on 50°C ambient
- **Moisture** — meets IP23 standards. Horizontal control boards are potted
- **Shock and vibration** — the power source base is designed with shock mounts to reduce vibration when mounted on tractors
- **Dust** — Wind Tunnel Technology™ circulates air over components that require cooling (not electronic circuitry). Fan-On-Demand™ cooling system operates only when needed. This reduces the amount of airborne contaminants in the machine

Equipped with a memory card reader to provide new capabilities into the future.

- Stores weld parameters for all welding processes
- Enables the use of custom programs for future applications
- Provides range locks
- Provides Accu-Power (instantaneous power display)
- Provides diagnostic information and operational information in a text file format.

### Feeder features

**PipePro XC feeder** is uniquely designed to operate with the PipePro 400XC power source to perform the flux-cored self-shielded weld process for fill and cap pass welding on pipelines. This economical solution optimizes the weld process using the Hobart Fabshield family of self-shielded wires.

**PipePro XC RMD feeder** provides the most versatile welding solution when used with the PipePro 400XC power source. It can provide MIG and RMD (solid wire and metal-cored wire), and flux-cored (self-shielded or gas-shielded wires). All welding processes are optimized for pipe welding.

### Gun features

**Bernard PipePro Dura-Flux gun** is uniquely designed to perform self-shielded flux-cored with the PipePro 400XC system for onshore pipeline applications. The gun features a dual schedule switch to enable two sets of welding parameters — wire feed speed and voltage.

**Bernard PipeWorx 250-15 gun** is designed by welders to reduce fatigue and improve visibility of the puddle on the root pass.

**Bernard PipeWorx 300-15 gun** provides a heavy-duty solution to producing root, fill and cap welds on pipe.

### Processes

- Stick (SMAW) • MIG (GMAW) • Flux-cored (FCAW) • RMD

### Most popular accessories

- **Bernard** PipePro Dura-Flux™ Gun
  - 301011 3 m (10 ft.)
- **Bernard** PipeWorx™ Guns
  - 195399 4.6 m (15 ft.) 250-15
  - 195400 4.6 m (15 ft.) 300-15
- **Feeder Control Cable** (one required per system)
  - 300845 10 m (32 ft.)
  - 300846 20 m (64 ft.)
- **RHC-14 Remote Control**
  - 242211020 6 m (20 ft.)
  - 242211100 30.5 m (100 ft.)
- **Work Sense Lead**
  - 300947 5 m (16 ft.)
  - 300461 7.6 m (25 ft.)
  - 300462 15.2 m (50 ft.)

### Power Source/Stock Number

<table>
<thead>
<tr>
<th>Power Source/Stock Number</th>
<th>Welding Mode/Process</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output at 100% Duty Cycle</th>
<th>IP Rating</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>KVA 380 V 400 V</th>
<th>KW 380 V 400 V</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PipePro 400XC (907675)</td>
<td>CC: Stick</td>
<td>40–350 A</td>
<td>350 A at 34 VDC</td>
<td>IP23</td>
<td>23.5</td>
<td>15.7</td>
<td>15.9</td>
<td>13.2</td>
<td>13.2</td>
<td>56.7 kg</td>
</tr>
<tr>
<td></td>
<td>CV: MIG/flux-cored</td>
<td>10–39 V</td>
<td>400 A at 34 VDC</td>
<td>IP23</td>
<td>27.1</td>
<td>15.7</td>
<td>15.9</td>
<td>13.2</td>
<td>13.2</td>
<td>56.7 kg</td>
</tr>
</tbody>
</table>

### Wire Feeder/Stock Number

<table>
<thead>
<tr>
<th>Wire Feeder/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 Type and Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PipePro XC (300794), CE</td>
<td>24 VAC, 9 A</td>
<td>100 V, 500 A at 100% duty cycle</td>
<td>IP23</td>
<td>1.3–12.7 mm (50–500 ipm)</td>
<td>0.9–2.0 mm (.035–.078 in.)</td>
<td>15 kg (33 lb.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SuitCase XC RMD (300844), CE</td>
<td></td>
<td></td>
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</tbody>
</table>
PipeWorx 400 Welding System

Optimized for pipe fabrication shops.

PipeWorx 400 welding system shown. Filler metal and shielding gas sold separately.

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

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

Quick process changeover
- Simply push a process selection button to choose a welding process
- Eliminates 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

Power Source/Stock Number

<table>
<thead>
<tr>
<th>Power Source/Stock Number</th>
<th>Welding Mode/Process</th>
<th>Amperage/ Voltage Ranges</th>
<th>Rated Output at 100% Duty Cycle</th>
<th>KVA 380 V</th>
<th>KW 380 V</th>
<th>KVA 400 V</th>
<th>KW 400 V</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PipeWorx 400 (907534)</td>
<td>CC: Stick</td>
<td>40–400 A</td>
<td>400 A at 36 VDC</td>
<td>26.3</td>
<td>17.6</td>
<td>25.5</td>
<td>17.8</td>
<td>90 VDC</td>
<td>H: 724 mm</td>
<td>102 kg</td>
</tr>
<tr>
<td></td>
<td>CC/DC TIG</td>
<td>10–350 A</td>
<td>350 A at 24 VDC</td>
<td>19</td>
<td>12.4</td>
<td>18.1</td>
<td>12.5</td>
<td>9.8</td>
<td>W: 495 mm</td>
<td>(28.5 lb.)</td>
</tr>
<tr>
<td></td>
<td>CV: MIG/fux-cored</td>
<td>10–44 V</td>
<td>400 A at 34 VDC</td>
<td>27.1</td>
<td>18.0</td>
<td>25.7</td>
<td>18.0</td>
<td>15.5</td>
<td>D: 806 mm</td>
<td>(31.75 lb.)</td>
</tr>
</tbody>
</table>
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.
Thunderbolt® 160 and 210

**NEW!**

Best-in-class 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. It’s portable so it’s easier to carry and store.

More powerful — up to 85 more amps — compared to leading competitive machines 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.

Maxstar® 161 S

See literature DC/27.3

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

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

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

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

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

---

**Product Guide**

<table>
<thead>
<tr>
<th>Product/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>
</tr>
</thead>
<tbody>
<tr>
<td>Thunderbolt® 160</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>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>20–160</td>
<td>180 A at 30% duty cycle</td>
<td>27.8</td>
<td>91 VDC</td>
</tr>
<tr>
<td>Thunderbolt® 210</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>
</tr>
</tbody>
</table>

**Model/Stock Number**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907709)</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>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>20–180</td>
<td>160 A at 26.4 V, 20% duty cycle</td>
<td>22.6</td>
<td>5.4</td>
</tr>
</tbody>
</table>

**Process**

- **CC DC 1 Phase**

**Light industrial**

- Comes complete with:
  - 3 m (10 ft.) No. 4 electrode cable with heavy-duty electrode holder
  - 3 m (10 ft.) work cable with clamp
  - 2 m (6.5 ft.) power cord with MVP™ plugs for 120 V and 240 V (160 model)
  - OR 240 V plug (210 model)
  - Cable pouch

---

**Most popular accessories**

- Protective X-CASE™

**907709001 includes above plus**

- Protective X-CASE™ 301429

---

**See literature DC/27.3**
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.

*Sense voltage for stick and Lift-Arc TIG.

<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>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></td>
<td></td>
<td></td>
<td></td>
<td>120 V 208 V 240 V 480 V KVA KW</td>
<td>80 VDC (11 VDC*)</td>
<td>H: 346 mm (13.6 in.)</td>
<td>W: 219 mm (8.6 in.)</td>
</tr>
<tr>
<td>Stick 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</td>
<td>5.5 5.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>26 22 13 11</td>
<td>Single-phase</td>
<td>23 – – –</td>
<td>2.8 2.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120 V 5–100</td>
<td>90 A at 23.6 V, 60% duty cycle</td>
<td>Single-phase</td>
<td>–</td>
<td>14 12 7 6</td>
<td>5.2 4.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 20 12 10</td>
<td>Single-phase</td>
<td>22 – – –</td>
<td>2.6 2.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tig 208–480 V</td>
<td>1–210</td>
<td>210 A at 18.4 V, 60% duty cycle</td>
<td>Three-phase</td>
<td>–</td>
<td>15 13 8 6</td>
<td>5.5 5.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>26 22 13 11</td>
<td>Single-phase</td>
<td>–</td>
<td>2.8 2.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120 V 1–210</td>
<td>125 A at 15 V, 60% duty cycle</td>
<td>Single-phase</td>
<td>–</td>
<td>14 12 7 6</td>
<td>5.2 4.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 20 12 10</td>
<td>Single-phase</td>
<td>22 – – –</td>
<td>2.6 2.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gold Star® Series  See literature DC/8.1

Rugged, reliable performance and superior arc characteristics.

- **Hot Start™** makes it easy to start difficult stick electrodes such as E-6010 and E-7018.
- **Built-in arc control** lets you get in tight without sticking the electrode. An electrode compensation circuit ensures consistent arc control performance regardless of the electrode size.
- **Fan-On-Demand™** cooling system operates only when needed. Reduces contaminants drawn into the machine and excess noise in work areas.
- **14-pin receptacle** provides quick, direct connection to Miller® 14-pin remote controls and switches.
- **115-volt duplex receptacle** provides 15 amps of auxiliary power.
- **Power efficient** for exceptional value and return on your investment.
- **Thermal overload protection with light** indicates power shutdown. Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Amperage Range in CC Mode</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions (Includes lift eye and strain relief)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Star</td>
<td>452/602</td>
<td>20–590</td>
<td>450 A at 38 VDC, 60% duty cycle</td>
<td>102 89 45 36 35.5 23.3</td>
<td>72 VDC</td>
<td>H: 762 mm (30 in.) W: 585 mm (23 in.) D: 966 mm (38 in.)</td>
<td>183 kg (404 lb.)</td>
</tr>
<tr>
<td>Gold Star</td>
<td>652/852</td>
<td>50–850</td>
<td>650 A at 44 VDC, 60% duty cycle</td>
<td>– 124 62 50 49.4 36</td>
<td>72 VDC</td>
<td>229 kg (505 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

**Processes**
- Stick (SMAW) • TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (carbons—452: 7.9 mm [5/16 in.], 652: 9.5 mm [3/8 in.])
- Flux-cored (FCW)
- MIG spray transfer (GMAW) with voltage-sensing feeder

**Most popular accessories**
- Standard Running Gear 042886
- Standard Cylinder Rack 042887
- Remote Controls
- Digital volt and amp meters 300359 For models after KG283595 300321 For models after MF100119C
- Easy-to-install front-panel mount.
**CST™ 280**

See literature DC/29.55

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.

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

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

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

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

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

---

### Stock Number and Specifications

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>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>(907244) Dinse (907244011) Tweco® (907896) Tweco® with meter 220–230/460–575 V</td>
<td>Stick/TIG Three-phase 5–280</td>
<td>280 A at 31.2 V, 35% duty cycle</td>
<td>– 35.0 34.2 – 17.8 14.7 14.6 10.2</td>
<td>208 V</td>
<td>220 V</td>
<td>230 V</td>
<td>400 V</td>
<td>440 V</td>
</tr>
</tbody>
</table>

---

### CST™ 280 Racks

See literature DC/18.82

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

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

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

Top cover protects machines from falling debris.

Lift eye simplifies crane or overhead lifting device transport.

Lift truck fork pockets.

One main disconnect box with branched fusing for each machine.

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

Optional rack running gear available for moving the rack.

---

### Heavy Industrial

**Processes**

- Stick (SMAW)
- TIG (GTAW)

**Most popular accessories**

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

### Processes

- Stick (SMAW)
- TIG (GTAW)

**CST 280 Rack (for same polarity use only).**

---

### Model and Dimensions

<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>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Pack Rack</td>
<td>(907245) Dinse (907247) Tweco®</td>
<td>4 units</td>
<td>220–230/460–575 V, three-phase, 50/60 Hz. Note: CST 280 machines are factory-linked for 460–575 V. Dinse units include one set of male connectors; Tweco units do not. See above for information on CST 280.</td>
<td>137 134 79 72 70 57</td>
<td>58.4</td>
<td>40.8</td>
<td>H: 1.289 mm (50.75 in.) 4-pack W: 648 mm (25.5 in.) 8-pack W: 1.186 mm (46 in.) B: 673 mm (26.3 in.)</td>
<td>161 kg (355 lb.)</td>
</tr>
<tr>
<td>8-Pack Rack</td>
<td>(907365) Tweco®</td>
<td>8 units</td>
<td>–</td>
<td>274 268 158 145 140 114</td>
<td>118.8</td>
<td>81.6</td>
<td>Same as 4-pack rack</td>
<td>75 kg (166 lb.)</td>
</tr>
<tr>
<td>Empty Rack</td>
<td>(195051)</td>
<td>4 units</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Same as 8-pack rack</td>
<td>127 kg (280 lb.)</td>
</tr>
</tbody>
</table>

---

Note: For additional rack systems see Dimension™ 650, XMT™ and PipeWorx FieldPro™.
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.
**Easy-to-understand operator interface.** Power up, select material type, set material thickness range and start welding! **Inverter-based AC/DC power source** provides a more consistent welding arc while using less power. **HF arc starting** for non-contact arc initiation that reduces tungsten and material contamination. **Portable.** Easy to transport at 23 kg (50 lb.). *While idling.*

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

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

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

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

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

---

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

See literature DC/27.5

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

---

**TIG Welding Capability**

<table>
<thead>
<tr>
<th>Stock Number (907627)</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>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.)</td>
<td>23 kg (50 lb.)</td>
<td></td>
</tr>
<tr>
<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>W: 251 mm (9.875 in.)</td>
<td>21 kg (50 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

---

**Process** • TIG (GTAW)

Comes with:
- Power cord with MVP plugs for 120 V and 240 V
- 3.8 m (12.5 ft.) Weldcraft® A-150 TIG torch
- 3.7 m (12 ft.) work cable with clamp
- RFC-R45 remote foot control
- Flow gauge regulator with hose

---

**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.**

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

---

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

---

**Light industrial 1 Ph DC**

**Processes**
- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P) with STH model

Comes with:
- 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

---

**Most popular accessories**
- Running Gear/Cylinder Rack 301239
- Protective Cover 300579
- RCCS-R45 Remote Finger tip Control 301146
- RJ45 to 14-Pin Adapter Cord 300688
- Weldcraft® Flexible Torch Body Kits (requires handle 10525SR) A-125F (WP-9F) A-150F (WP-17F)
- TIG Torch Accessory Kit AK2C
Syncrowave® 210 Series
AC/DC TIG and Stick  See literature AD/4.6

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

**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

**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.)

**Easy to use.**
1. Turn power on.
2. Select the process.
3. Set amperage or voltage based on material thickness.
   Then weld! It’s easy as 1,2,3.

**TIG Welding Capability**

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

**Stock Number**

<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>(907596001) Runner</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: 800 mm (31.5 in.)</td>
<td>Runner package: 61 kg (133.5 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></td>
<td>W: 470 mm (18.5 in.)</td>
<td>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></td>
<td>D: 1092 mm (43 in.)</td>
<td></td>
</tr>
<tr>
<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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<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></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AC/DC**

**Auto-Set** 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.

**WIRELESS TECHNICAL HANDHELD COMPATIBLE**

**Back to Back**

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

**Easy to use.**
1. Turn power on.
2. Select the process.
3. Set amperage or voltage based on material thickness.
   Then weld! It’s easy as 1,2,3.

**TIG Welding Capability**

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**Stock Number**

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<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>
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<tr>
<td>(907596001) Runner</td>
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<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: 800 mm (31.5 in.)</td>
<td>Runner package: 61 kg (133.5 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></td>
<td>W: 470 mm (18.5 in.)</td>
<td>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></td>
<td>D: 1092 mm (43 in.)</td>
<td></td>
</tr>
</tbody>
</table>
Syncrowave® 250 DX and 350 LX
AC/DC TIG and Stick  See literature AD/4.2

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

Syncrowave 250

Syncrowave 350

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

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

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

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

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

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

Coolmate® 3CS cooler (shown in Complete package). Three-gallon cooling system features a flow indicator to visually indicate system is working and an external filter to stop objects from entering the water-cooled torch cable.

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

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

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

### TIG Welding Capability

<table>
<thead>
<tr>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>200 A at 28 V, 60% duty cycle</th>
<th>250 A at 30 V, 40% duty cycle</th>
<th>300 A at 32 V, 60% duty cycle</th>
<th>350 A at 34 V, 40% duty cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>230/460/575 V, 50/60 Hz</td>
<td>200 A at 28 V, 60% duty cycle</td>
<td>77</td>
<td>31</td>
<td>17.6</td>
<td>8.6</td>
</tr>
<tr>
<td>200/230/460 V, 50/60 Hz</td>
<td>250 A at 30 V, 40% duty cycle</td>
<td>96</td>
<td>38</td>
<td>22</td>
<td>11.8</td>
</tr>
<tr>
<td>220/400/520 V, 50/60 Hz</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>110</td>
<td>42</td>
<td>25</td>
<td>10.6</td>
</tr>
<tr>
<td>50/60 Hz, IEC</td>
<td>350 A at 34 V, 40% duty cycle</td>
<td>146</td>
<td>50</td>
<td>29.5</td>
<td>13.7</td>
</tr>
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</table>

### AC/DC

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>200 A at 28 V, 60% duty cycle</th>
<th>250 A at 30 V, 40% duty cycle</th>
<th>300 A at 32 V, 60% duty cycle</th>
<th>350 A at 34 V, 40% duty cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syncrowave 250 DX</td>
<td>230/460/575 V, 50/60 Hz, power source only (907195)</td>
<td>200 A at 28 V, 60% duty cycle</td>
<td>77</td>
<td>31</td>
<td>17.6</td>
<td>8.6</td>
</tr>
<tr>
<td>200/230/460 V, 50/60 Hz, power source only (907194)</td>
<td>250 A at 30 V, 40% duty cycle</td>
<td>96</td>
<td>38</td>
<td>22</td>
<td>11.8</td>
<td></td>
</tr>
<tr>
<td>220/400/520 V, 50/60 Hz, IEC</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>110</td>
<td>42</td>
<td>25</td>
<td>10.6</td>
<td></td>
</tr>
<tr>
<td>50/60 Hz, IEC</td>
<td>350 A at 34 V, 40% duty cycle</td>
<td>146</td>
<td>50</td>
<td>29.5</td>
<td>13.7</td>
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### Power Source

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>200 A at 28 V, 60% duty cycle</th>
<th>250 A at 30 V, 40% duty cycle</th>
<th>300 A at 32 V, 60% duty cycle</th>
<th>350 A at 34 V, 40% duty cycle</th>
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<tbody>
<tr>
<td>Syncrowave 350 LX</td>
<td>230/460/575 V, 50/60 Hz, power source only (907199)</td>
<td>200 A at 28 V, 60% duty cycle</td>
<td>77</td>
<td>31</td>
<td>17.6</td>
<td>8.6</td>
</tr>
<tr>
<td>200/230/460 V, 50/60 Hz, power source only (907198)</td>
<td>250 A at 30 V, 40% duty cycle</td>
<td>96</td>
<td>38</td>
<td>22</td>
<td>11.8</td>
<td></td>
</tr>
<tr>
<td>220/400/520 V, 50/60 Hz, IEC</td>
<td>300 A at 32 V, 60% duty cycle</td>
<td>110</td>
<td>42</td>
<td>25</td>
<td>10.6</td>
<td></td>
</tr>
<tr>
<td>50/60 Hz, IEC</td>
<td>350 A at 34 V, 40% duty cycle</td>
<td>146</td>
<td>50</td>
<td>29.5</td>
<td>13.7</td>
<td></td>
</tr>
</tbody>
</table>

### Power Source Dimensions

- H: 931 mm (36.5 in.)
- W: 572 mm (22.5 in.)
- D: 635 mm (25 in.)

### Power Source Net Weight

- 172 kg (378 lb.)
- 122 kg (268 lb.)
- 125 kg (276 lb.)
Maxstar® and Dynasty® 210 DX/280 DX

See literature DCM/37.0 UK (Maxstar 210 DX) and DCM/35.0 UK (Maxstar 280 DX), and literature ADM/11.0 UK (Dynasty 210 DX) and ADM/9.0 UK (Dynasty 280 DX).

**210 DX TIG Welding Capability**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<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>208 V 210 V 230 V 240 V 400 V 480 V 575 V KVA</td>
<td>80 VDC (11 VDC**)</td>
<td>Ht: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 495 mm (19.5 in.)</td>
<td>17.2 kg (38 lb.)</td>
</tr>
<tr>
<td>(90768)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22.7 kg (50 lb.)</td>
<td></td>
</tr>
<tr>
<td>Maxstar 210 DX</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-210</td>
<td>210 A at 18.4 V</td>
<td>208 V 210 V 230 V 240 V 400 V 480 V 575 V KVA</td>
<td>80 VDC (11 VDC**)</td>
<td>Ht: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 495 mm (19.5 in.)</td>
<td>17.2 kg (38 lb.)</td>
</tr>
<tr>
<td>(907684)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>22.7 kg (50 lb.)</td>
<td></td>
</tr>
<tr>
<td>Maxstar 280</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-280</td>
<td>235 A at 19.4 V*</td>
<td>280 V 300 V 350 V 400 V 450 V 500 V 575 V KVA</td>
<td>60 VDC (11 VDC**)</td>
<td>Ht: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 356 mm (14 in.)</td>
<td>25 kg (55 lb.)</td>
</tr>
<tr>
<td>(907539)</td>
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<td></td>
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<td></td>
<td>22.7 kg (50 lb.)</td>
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<tr>
<td>Maxstar 280 DX</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-280</td>
<td>235 A at 19.4 V*</td>
<td>280 V 300 V 350 V 400 V 450 V 480 V 575 V KVA</td>
<td>60 VDC (11 VDC**)</td>
<td>Ht: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 356 mm (14 in.)</td>
<td>25 kg (55 lb.)</td>
</tr>
<tr>
<td>(907540)</td>
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<td></td>
<td></td>
<td>22.7 kg (50 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

**Dynasty 280 DX with Insight**

Designed to deliver Welding Intelligence: The Dynasty 280 DX with Insight incorporates Insight Core (standard) and Insight Centerpoint (optional) welding information management systems into its capabilities. These systems help welding operations improve quality, retain weld records, increase productivity and manage costs.

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

**Comes with**
- 2.4 m (8 ft.) power cord (no plug)
- Two 50 mm Dinse-style connectors

**Most popular accessories**
- 2-Wheel Trolley Cart 300971
- Small Runner Cart 301318
- Coolmate™ 1.3 300972
- Coolant 043810
- Remote Controls 043888 RCCS-14 fingertip control 300429 Wireless Foot Control
- Contractor Kits 301311 w/ RCCS-14 finger control 301309 w/ RFCS-14 HD foot pedal
Maxstar® and Dynasty® 400 and 800

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

**TIG Welding Capability**

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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DC Maxstar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>208 V 230 V 400 V 460 V 575 V KVA KW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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>33 30 17 15 12 12.0 11.5</td>
<td>75 VDC (10–15 VDC*)</td>
<td>Ht: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>61 kg (135 lb.)</td>
</tr>
<tr>
<td>(907711), 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>
<td></td>
<td></td>
</tr>
<tr>
<td>(907716001), TIG Runner, CSA</td>
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<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>
<td>Ht: 876 mm (34.5 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>90 kg (198 lb.)</td>
</tr>
<tr>
<td>(907718), CSA</td>
<td></td>
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<td>(907718001) TIG Runner, CSA</td>
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<tr>
<td><strong>AC/DC Dynasty</strong></td>
<td></td>
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<td></td>
<td>208 V 230 V 400 V 460 V 575 V KVA KW</td>
<td></td>
<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>
<td>Ht: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>61 kg (135 lb.)</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>
<td></td>
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<tr>
<td>(907717002), TIG Runner, CSA</td>
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</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>
<td>Ht: 34.5 in. (876 mm) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>90 kg (198 lb.)</td>
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<tr>
<td>(907719), CSA</td>
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</tr>
</tbody>
</table>

**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 width 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.

**GTAW | TIG**

**Processes**

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P)
- Air carbon arc (CAC-A)

**400 models come with**

- 2.4 m (8 ft.) power cord (no plug)
- Two 50 mm Dinse-style Connectors (400)
- Setup video and reference guide

Note: Power cord is NOT included with 800 models.

**Most popular accessories**

- Runner® Cart 300244
- Coolmate® 3.5 300245
- Coolant 043810
- Remote Controls 043688 RCCS-14 fingertip control 194744 RFCS-14 HD foot control 300429 Wireless Foot Control

**Heavy industrial**

- CC% 3 1 Maxstar is DC only

**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.

**DC Power Management Technology**

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

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- **Processes**
  - TIG (GTAW) • Stick (SMAW)
  - Pulsed TIG (GTAW-P)
  - Air carbon arc (CAC-A)
- **400 models come with**
  - 2.4 m (8 ft.) power cord (no plug)
  - Two 50 mm Dinse-style Connectors (400)
  - Setup video and reference guide
  - **Most popular accessories**
    - Runner® Cart 300244
    - Coolmate® 3.5 300245
    - Coolant 043810
    - Remote Controls 043688 RCCS-14 fingertip control 194744 RFCS-14 HD foot control 300429 Wireless Foot Control
- **Heavy industrial**
  - **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.

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**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.
Synonymous with versatility and performance, Weldcraft TIG torches can handle the most intricate to the most demanding TIG welding challenges. From 125-amp hand-held MicroTIG® torches to 900-amp machine-held water-cooled models, there’s a Weldcraft torch for nearly every TIG application.

**Weldcraft™ Air-Cooled Torches**

Recommended for welding amperages under 200 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. For those hard-to-reach areas, the Micro Series torches provide access and superior maneuverability. The Modular Series torches allow for a quick change of many different torch styles for any joint configuration. If high amperage is your need, the W-500 torch is the answer.

**Weldcraft™ Automation Torches**

Ideal for mechanized applications, the Weldcraft Automation Series offers air-cooled and water-cooled torches designed for both high and low applications.

**Product Naming**

<table>
<thead>
<tr>
<th>Former Product Name</th>
<th>Product Line Descriptor</th>
<th>Air/Water and Amperage</th>
<th>Features Set Label</th>
<th>Current Product Name Breakdown</th>
<th>Current Product Name</th>
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<tbody>
<tr>
<td>WP-9FV</td>
<td>Weldcraft</td>
<td>A-125</td>
<td>Flex Valve</td>
<td>Weldcraft A-125 Flex Valve</td>
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<td>Weldcraft</td>
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<td>Weldcraft W-410</td>
<td></td>
</tr>
</tbody>
</table>

**Example**

Weldcraft A-125 Flex Valve

“Flex Valve” signifies additional feature

“125” signifies an amperage of 125

“A” signifies air-cooled

---

**Process**

- TIG (GTAW)

**Suggested power sources**

- Dynasty©/Maxstar® 210 (A-150, W-250)
- Dynasty©/Maxstar® 280 (A-200, W-280)
- Dynasty©/Maxstar® 350 (W-375)
- Dynasty©/Maxstar® 700 (W-400)

**Fingertip controls**

- RCC East/West Rotary 151086 14-pin
- RCCS North/South Rotary 195518 6-pin, 6 m (19.6 ft.) cord 195503 6-pin, 8 m (25.5 ft.) cord 043688 14-pin
- RMS Momentary Push Button 195269 6-pin 187208 14-pin
- RMLS Momentary/Maintained 129337 14-pin
- RPBS Two-Button Start/Stop 300666 14-pin
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>
</tr>
</thead>
<tbody>
<tr>
<td>2% Ceriated (EWCr-2)</td>
<td>WC040X7</td>
<td>1.0 (0.040)</td>
</tr>
<tr>
<td></td>
<td>WC116X7</td>
<td>1.6 (1/16)</td>
</tr>
<tr>
<td></td>
<td>WC332X7</td>
<td>2.4 (3/32)</td>
</tr>
<tr>
<td></td>
<td>WC018X7</td>
<td>3.2 (1/8)</td>
</tr>
<tr>
<td></td>
<td>WC032X7</td>
<td>4.0 (5/32)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Stock Number</th>
<th>Diameter mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure (ERP)</td>
<td>—</td>
<td>1.0 (0.040)</td>
</tr>
<tr>
<td></td>
<td>WP116X7</td>
<td>1.6 (1/16)</td>
</tr>
<tr>
<td></td>
<td>WP332X7</td>
<td>2.4 (3/32)</td>
</tr>
<tr>
<td></td>
<td>WP018X7</td>
<td>3.2 (1/8)</td>
</tr>
<tr>
<td></td>
<td>—</td>
<td>4.0 (5/32)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Stock Number</th>
<th>Diameter mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rare Earth (EWG)</td>
<td>—</td>
<td>1.0 (0.040)</td>
</tr>
<tr>
<td></td>
<td>W0116X7</td>
<td>1.6 (1/16)</td>
</tr>
<tr>
<td></td>
<td>W0332X7</td>
<td>2.4 (3/32)</td>
</tr>
<tr>
<td></td>
<td>W0018X7</td>
<td>3.2 (1/8)</td>
</tr>
<tr>
<td></td>
<td>—</td>
<td>4.0 (5/32)</td>
</tr>
</tbody>
</table>

2% Lanthanated (EWLa-2)

Provides excellent arc starting, arc stability and re-ignition, and less tip erosion in AC or DC welding. Can substitute for 2% Thoriated.

Weldcraft™ A-80 Series (Air-cooled)

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.

Combining the flexible neck and gas valve is ideal for optimal positioning and gas flow control (A-80 Flex Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-80</td>
<td>Rated Output</td>
</tr>
<tr>
<td>A-80 Flex</td>
<td>DC: 80 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-80 Flex Valve</td>
<td>AC: 50 A at 60% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range</td>
</tr>
<tr>
<td></td>
<td>0.5-2.4 mm</td>
</tr>
<tr>
<td></td>
<td>(.020-.3/32 in.)</td>
</tr>
</tbody>
</table>

Applications

• Shipbuilding • Motorsports
• Aerospace • Restricted areas

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, 1/4 in.
A53N25 #5, 5/16 in.
A53N27 #6, 3/8 in.

Most popular accessories

• Collet Body Wrench 53N20

Weldcraft™ A-125 Series (Air-cooled)

Formerly known as WP-9 Series

Air-cooled torches designed for optimal control while welding thin-gauge materials, especially in hard-to-reach places.

The lightweight body reduces fatigue and downtime, and increases operator comfort.

The pencil-style model without a back cap allows for superior access to confined areas (A-125 Pencil).

Combine the flexible neck and gas valve for welding limited-access joints using power sources without gas solenoids (A-125 Flex Valve).

For maximum versatility on multiple welding applications, without adding expenses, use the A-125 Flex Redhead and A-125 Flex Valve Redhead.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-125</td>
<td>Rated Output</td>
</tr>
<tr>
<td>A-125 Valve</td>
<td>DC: 125 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-125 Flex</td>
<td>AC: 100 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-125 Flex Valve</td>
<td></td>
</tr>
<tr>
<td>A-125 Pencil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electrode Range</td>
</tr>
<tr>
<td></td>
<td>0.5-3.2 mm</td>
</tr>
<tr>
<td></td>
<td>(.020-1/8 in.)</td>
</tr>
</tbody>
</table>
**Weldcraft™ A-150 Series (Air-cooled)**
Formerly known as WP-17 Series

Versatile and innovative air-cooled torches designed for maximum comfort in a variety of applications.

Diamond Grip™ head design (A-150 and A-150 Valve) has ergonomic contact points for thumb and fingers. Provides a more comfortable grip and reduces operator fatigue.

Improve control and comfort with the A-150 Flex and the flexible neck that allows access into hard-to-reach areas.

**Maximum versatility.** Utilize the Redhead® Series torches in a variety of welding applications without adding expenses.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-150</td>
<td>Rated Output</td>
</tr>
<tr>
<td>A-150 Valve</td>
<td>DC: 150 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-150 Flex</td>
<td>AC: 115 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-150 Flex Valve</td>
<td>Electrode Range</td>
</tr>
<tr>
<td>A-150 Flex Valve Redhead</td>
<td>0.5–3.2 mm (.020–1/8 in.)</td>
</tr>
<tr>
<td>A-150 Valve PSH*</td>
<td></td>
</tr>
</tbody>
</table>

*PSH = positive stop handle (threaded handle).

**Weldcraft™ A-200 Series (Air-cooled)**
Formerly known as WP-26 Series

Dependable, top-performing air-cooled torches designed for heavy-duty welding applications.

Eliminate the expense of a water-cooled system. The air-cooled capability pairs reliability with cost-effectiveness for all field applications.

Combining the flexible neck and gas valve advances capabilities with greater comfort and control (A-200 Flex Valve).

**Maximum versatility.** Utilize the Redhead Series torches in a variety of welding applications without adding expenses.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-200</td>
<td>Rated Output</td>
</tr>
<tr>
<td>A-200 Valve</td>
<td>DC: 200 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-200 Flex</td>
<td>AC: 150 A at 60% duty cycle</td>
</tr>
<tr>
<td>A-200 Flex Valve</td>
<td>Electrode Range</td>
</tr>
<tr>
<td>A-200 Flex Valve Redhead</td>
<td>0.5–4.0 mm (.020–5/32 in.)</td>
</tr>
<tr>
<td>A-200 Valve PSH*</td>
<td></td>
</tr>
</tbody>
</table>

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

**Most popular consumables**
- Collets  
  10N23 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, 3/8 in.  
  10N47 #7, 7/16 in.  
  10N46 #8, 1/2 in.

**Most popular accessories**
- Accessory Kit  
  AK-150MFC  
  Allows A-150 torch customization. Converts into 28 different torch styles while using existing cable. 
  Includes collets, collet bodies, nozzles, torch heads, handle and more.

**Applications**
- Fabrication • Maintenance and repair
- Manufacturing • Shipbuilding
- Vocational

**Most popular consumables**
- Collets  
  10N23 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, 3/8 in.  
  10N47 #7, 7/16 in.  
  10N46 #8, 1/2 in.

**Most popular accessories**
- Accessory Kit  
  AK-3C  
  Utilize the Redhead Series torches in a variety of welding applications without adding expenses.
### 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, 1/4 in.
  - A53N25, #5, 5/16 in.
  - A53N27, #6, 3/8 in.

#### Weldcraft™ W-180 (Water-cooled)
Formerly known as WP-24W

One of the smallest water-cooled TIG torches on the market and designed for welding in confined areas that require high amperage.

Use high amperage in confined areas for efficient welding. Superior maneuverability in limited-access locations with the compact torch body. Excellent weld capacity without increasing torch size, due to the efficient cooling system.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-180</td>
<td>Rated Output: DC: 180 A at 100% duty cycle AC: 115 A at 100% duty cycle</td>
<td>0.5–2.4 mm (.020–3/32 in.)</td>
</tr>
</tbody>
</table>

#### Weldcraft™ W-200 Pencil Flex (Water-cooled)
Formerly known as WP-25

Versatile water-cooled torch optimized for use in limited-access welding situations.

Pencil-style, flexible neck designed for both high-amperage applications and confined area access. Decreased downtime and longer trouble-free service due to overheating with the innovative cooling design. Comfort and control are increased with the lightweight, well-balanced body design.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-200 Pencil Flex</td>
<td>Rated Output: DC: 200 A at 100% duty cycle AC: 140 A at 100% duty cycle</td>
<td>0.5–3.2 mm (.020–1/8 in.)</td>
</tr>
</tbody>
</table>

#### Weldcraft™ W-225 Pencil (Water-cooled)
Formerly known as WP-20P

Water-cooled torch designed for long-term, trouble-free service with consistent welding performance in general applications.

Extend torch life and minimize downtime due to overheating with the efficient around-the-head cooling design. Pencil-style head allows for greater access into hard-to-reach joints. Comfort and control are increased with the lightweight, compact body design.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-225 Pencil</td>
<td>Rated Output: DC: 225 A at 100% duty cycle AC: 160 A at 100% duty cycle</td>
<td>0.5–3.2 mm (.020–1/8 in.)</td>
</tr>
</tbody>
</table>
### Applications
- Aerospace
- Aluminum fabrication
- Automotive
- Manufacturing
- Exotic material fabrication
- Precision metal fabrication
- Pressure vessel fabrication
- Shipbuilding
- Tool and die
- Tube and pipe
- Vocational

### Most popular consumables
- Insulator (non-gas lens and gas lens) (required) 598882
- Collets (non-gas lens and gas lens)
  - 13N20 0.5 mm (.020 in.)
  - 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
  - 13N25 0.5 mm (.020 in.)
  - 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
  - 45V41 0.5 mm (.020 in.)
  - 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, 1/4 in.
  - 13N09 #5, 5/16 in.
  - 13N10 #6, 3/8 in.
  - 13N11 #7, 7/16 in.
  - 13N12 #8, 1/2 in.
  - 13N13 #10, 5/8 in.
  - 53N58 #4, 1/4 in. (gas lens)
  - 53N59 #5, 5/16 in. (gas lens)
  - 53N60 #6, 3/8 in. (gas lens)
  - 53N61 #7, 7/16 in. (gas lens)
  - 53N61S #8, 1/2 in. (gas lens)
- Back Caps
  - 41V33 Short
  - 41V35 Medium
  - 41V24 Long

### Most popular accessories
- Accessory Kit AK-4C
  - Includes one long back cap, one of each size (#5, #6, #7) alumina nozzle, and one of each size (1.6, 2.4, 3.2 mm) of the following: collet, collet body, and 175 mm 2% ceriated tungsten electrode.

---

### Weldcraft™ W-250 Series (Water-cooled)
Formerly known as WP-20 Series

Water-cooled torch provides consistent performance and long-term trouble-free service with around-the-head water cooling.

Extend torch life and minimize downtime due to overheating with the efficient around-the-head cooling design.

**Reduce leakage** of gas and water through secure mechanical fittings and connections.

**Easy hose replacement** with the innovative mechanical fittings design (W-250 Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-250</td>
<td>Rated Output DC: 250 A at 100% duty cycle AC: 180 A at 100% duty cycle Electrode Range 0.5–3.2 mm (.020–1/8 in.)</td>
</tr>
</tbody>
</table>

### Weldcraft™ W-280 Super Cool™ (Water-cooled)
Formerly known as WP-280

Reliable water-cooled torch designed for demanding, high-amperage applications.

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

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

**Reduce leakage** of gas and water through secure mechanical fittings and connections.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-280 Super Cool</td>
<td>Rated Output DC: 280 A at 100% duty cycle AC: 195 A at 100% duty cycle Electrode Range 0.5–3.2 mm (.020–1/8 in.)</td>
</tr>
</tbody>
</table>

### Weldcraft™ W-375 Super Cool™ (Water-cooled)

Reliable water-cooled torch designed for demanding, high-amperage applications.

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

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

**Reduce leakage** of gas and water through secure mechanical fittings and connections.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-375 Super Cool</td>
<td>Rated Output DC: 375 A at 100% duty cycle AC: 265 A at 100% duty cycle Electrode Range 0.5–3.2 mm (.020–1/8 in.)</td>
</tr>
</tbody>
</table>
**Weldcraft™ W-350 Series (Water-cooled)**
Formerly known as WP-18 Series

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

Reduce downtime and costs by minimizing overheating with the unique cooling design engineered for operator comfort.

Reduce discomfort and fatigue using the comfortable handle design.

Superior gas flow control offered through the built-in fingertip gas control (W-350 Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-350</td>
<td>Rated Output DC: 350 A at 100% duty cycle</td>
</tr>
<tr>
<td>W-350 Valve</td>
<td>AC: 250 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 0.5-4.0 mm (.020-.5/32 in.)</td>
</tr>
</tbody>
</table>

**Applications**
- Fabrication • Manufacturing
- 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
  - 10N32 2.4 mm (3/32 in.)
  - 10N28 3.2 mm (1/8 in.)
  - 406488 4.0 mm (5/32 in.)
- Alumina Nozzles
  - 10N48 #6, 3/8 in.
  - 10N47 #7, 7/16 in.
  - 10N46 #8, 1/2 in.
  - 10N45 #10, 5/8 in.
  - 10N44 #12, 3/4 in.

**Weldcraft™ W-400 Super Cool™ (Water-cooled)**
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>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-400 Super Cool</td>
<td>Rated Output DC: 400 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>AC: 280 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 0.5-4.8 mm (.020-3/16 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.)
  - 18C36 4.8 mm (3/16 in.)
- Heavy-Duty Nose Collet Body (all sizes)
  - NCB-36
- Alumina Nozzles
  - 54N16 #6, 3/8 in.
  - 54N15 #7, 7/16 in.
  - 54N14 #8, 1/2 in.
- Back Caps
  - 57Y04 Short
  - 300M Medium

**Weldcraft™ W-410 (Water-cooled)**
Formerly known as CS410

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

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

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-410</td>
<td>Rated Output DC: 410 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>AC: 310 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 0.5-4.0 mm (.020-5/32 in.)</td>
</tr>
</tbody>
</table>

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

**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
  - 10N32 2.4 mm (3/32 in.)
  - 10N28 3.2 mm (1/8 in.)
  - 406488 4.0 mm (5/32 in.)
- Alumina Nozzles
  - 10N46 #8, 1/2 in.
  - 10N45 #10, 5/8 in.
  - 10N44 #12, 3/4 in.
Weldcraft™ W-125 Micro Series (Water-cooled)
Formerly known as WP-125 Series

Water-cooled MicroTig® torches designed for limited-access joints.
Low-profile nozzle fits into holes as small as 16 mm 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>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-125 Medium Micro</td>
<td>Rated Output DC: 125 A at 100% duty cycle</td>
</tr>
<tr>
<td>W-125 Long Micro</td>
<td>AC: 80 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 1.0-2.4 mm (.040-3/32 in.)</td>
</tr>
</tbody>
</table>

Applications
- Aerospace • Food/beverage industry
- HVAC • Automotive • Petro/chemical
- Precision fabrication

Most popular consumables
- 90° Chucks
  - 125C40-90 1.0 mm (.040 in.)
  - 125C116-90 1.6 mm (1/16 in.)
  - 125C332-90 2.4 mm (3/32 in.)
- 90° Glass Nozzle (all sizes) 125N90
Other nozzles are available.

Most popular accessories
- Accessory Kit AK-125C
  Includes one of each size (180°, 45°, 90°, 90° short) glass nozzle, and one of each size (1.0, 1.6 mm) of the following: 180° chuck, 45° chuck, 90° chuck, and 175 mm 2% ceriated tungsten electrode.

Weldcraft™ W-500 (Water-cooled)
Formerly known as WP-12

Dependable water-cooled torch designed for high-capacity, demanding applications.
Comfort and reduced downtime due to the sealed water chamber that minimizes torch overheating.
Heavy-duty components provide reliable welding performance, even after continuous and demanding use.
100-percent-copper construction ensures maximum thermal conductivity.

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

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

Most popular consumables
- Insulator (required) 125G
- Collets
  - 85Z17 4.0 mm (5/32 in.)
  - 85Z18 4.8 mm (3/16 in.)
  - 85Z19 6.4 mm (1/4 in.)
- Collet Body (all sizes) 11WP65
- Alumina Nozzles
  - #6, 3/8 in.
  - #7, 7/16 in.
  - #8, 1/2 in.
  - #10, 5/8 in.
  - #12, 3/4 in.

Weldcraft™ Modular Series

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, and minimize downtime for torch changeover.
Gas valve provides greater shielding gas flow control (A-150 Modular Valve and A-200 Modular Valve).

<table>
<thead>
<tr>
<th>Model</th>
<th>Specs (Torch head dependent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-150 Modular Valve</td>
<td>Rated Output DC: 150 A at 60% duty cycle</td>
</tr>
<tr>
<td></td>
<td>AC: 105 A at 60% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 0.5-3.2 mm (.020-1/8 in.)</td>
</tr>
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<td>Rated Output DC: 200 A at 60% duty cycle</td>
</tr>
<tr>
<td></td>
<td>AC: 150 A at 60% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 0.5-4.0 mm (.020-5/32 in.)</td>
</tr>
<tr>
<td>W-225 Modular Valve</td>
<td>DC: 225 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>AC: 160 A at 100% duty cycle</td>
</tr>
<tr>
<td></td>
<td>Electrode Range 0.5-4.0 mm (.020-5/32 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™

Water-cooled MicroTig® torches designed for limited-access joints.
Low-profile nozzle fits into holes as small as 16 mm 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>
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<th>Model</th>
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<tr>
<td>W-125 Medium Micro</td>
<td>Rated Output DC: 125 A at 100% duty cycle</td>
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<td>AC: 80 A at 100% duty cycle</td>
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Applications
- Aerospace • Food/beverage industry
- HVAC • Automotive • Petro/chemical
- Precision fabrication

Most popular consumables
- 90° Chucks
  - 125C40-90 1.0 mm (.040 in.)
  - 125C116-90 1.6 mm (1/16 in.)
  - 125C332-90 2.4 mm (3/32 in.)
- 90° Glass Nozzle (all sizes) 125N90
Other nozzles are available.

Most popular accessories
- Accessory Kit AK-125C
  Includes one of each size (180°, 45°, 90°, 90° short) glass nozzle, and one of each size (1.0, 1.6 mm) of the following: 180° chuck, 45° chuck, 90° chuck, and 175 mm 2% ceriated tungsten electrode.

Weldcraft™ W-500 (Water-cooled)
Formerly known as WP-12

Dependable water-cooled torch designed for high-capacity, demanding applications.
Comfort and reduced downtime due to the sealed water chamber that minimizes torch overheating.
Heavy-duty components provide reliable welding performance, even after continuous and demanding use.
100-percent-copper construction ensures maximum thermal conductivity.

<table>
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<td>W-500</td>
<td>Rated Output DC: 500 A at 100% duty cycle</td>
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<td>AC: 350 A at 100% duty cycle</td>
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Choose the Right Welding Intelligence System

**ArcAgent for Insight Core**
- Brand-neutral solution now available.

### Complete coverage for any application.

- **Aerospace**
- **Manufacturing**
- **Pipe and vessel**
- **Automation**
- **Submerged arc**

### Choose the Right Welding Intelligence System

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Insight Core™</th>
<th>Insight Centerpoint™</th>
<th>Insight Pipe and Vessel</th>
<th>Insight ArcAgent™</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Use With</td>
<td>Factory-Installed</td>
<td>Field-Installed/Activated</td>
<td>PipeWox 400</td>
<td>ANY welding power source (old or new)</td>
</tr>
<tr>
<td>Requirements</td>
<td>• Continuum™/Auto-Continuum™/Dynasty™/280 DX</td>
<td>• 14-pin compliant power source (see MillerWelds.com/insight)</td>
<td>• PC and Ethernet connection</td>
<td>• ANY brand</td>
</tr>
<tr>
<td></td>
<td>• Internet connection (wired/wireless)</td>
<td></td>
<td></td>
<td>• ANY welding process</td>
</tr>
<tr>
<td>What Capability Do You Need?</td>
<td>• Productivity monitoring</td>
<td>• Prevent/detect missed welds</td>
<td>• Real time contract, spool, joint documentation</td>
<td>• Brand-neutral solution for use with Insight Core or Insight Centerpoint</td>
</tr>
<tr>
<td></td>
<td>• Weld parameter verification</td>
<td>• Minimize overwelding/underwelding</td>
<td>• Enterprise resource planning system integration (ERP)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Simplicity/basic monitoring</td>
<td>• Electronic work instructions</td>
<td>• Productivity/quality metrics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Goal setting</td>
<td>• Measure overall equipment effectiveness (OEE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Analytic tools</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Storage</td>
<td>• Cloud based</td>
<td>• Local server or PC</td>
<td>• Local PC</td>
<td>• See Insight Core/Insight Centerpoint requirements</td>
</tr>
</tbody>
</table>

**Welding Intelligence™**

Transform data into actionable information that drives continuous improvement.

NEW! ArcAgent for Insight Core
brand-neutral solution
now available.
Simplified, Internet-based welding information solution to report operator productivity and deposition, as well as weld parameter verification.

**Insight Core dashboard descriptions**

1. **Asset tree.** A list of power sources within your fleet — organized by building, department or machine — showing real-time activity status icons and active operators.

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

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

4. **Goals dashboard.** Shows progress toward continuous improvement goals you set for improving arc-on time, deposition rates and arc starts.

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

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

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

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

**How it works**

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

- **Factory installed** on Continuum™/Auto-Continuum™ and Dynasty® 280 DX power sources.

- **Compatible with Miller® 14-pin compliant power sources.** See MillerWelds.com/insight for a list of 14-pin compatible power sources.

**NEW!** ArcAgent for Insight Core brand-neutral solution now available.

**Standard data storage:** 90 days plus current month stored in cloud. Extended data options now available (see below).

<table>
<thead>
<tr>
<th>Type</th>
<th>Continuum Model/Stock Number*</th>
<th>Miller 14-Pin Compliant Power Sources</th>
<th>Optional Extended Data Storage per Location (Time Period of Data Storage/Number of Devices)</th>
<th>High-Data Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory-Installed Insight Core</td>
<td></td>
<td></td>
<td>(301501) 12 months/under 50 devices (301501001) 12 months/51-100 devices (301501002) 12 months/each 100 units over 100 devices</td>
<td></td>
</tr>
<tr>
<td>Power Sources</td>
<td>Continuum 350 (907636)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Continuum 500 (907640)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto-Continuum 350 (907656)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto-Continuum 500 (907657)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field-Installed Insight Core</td>
<td></td>
<td>(301072) Insight Core 14-pin module**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module or ArcAgent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Additional stock numbers are available – visit MillerWelds.com/insight.

**SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit (301295).**
**Insight Centerpoint™**

Most established, advanced solution in the industry, providing PC-based operator feedback to detect missed welds, verify proper weld sequence and provide weld defect detection — all in real time.

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

**Software features**

**Part Tracking™** provides real time operator feedback to ensure accurate weld sequence, prevent missed welds and ensure proper weld parameters.

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

**Workflow™** enables you to present electronic work instructions for pre/intra/post weld activities (using video, pdf, and more) to ensure consistent standardized production for every operator.

**Optional reporting software**

**Insight Reporter™** provides preconfigured management charts and reports that provide a wide range of information about weld process, productivity and business metrics, stored in an SQL server database.

*Additional stock numbers are available — visit MillerWelds.com/insight.  **Insight Centerpoint requires BOTH software license AND annual software maintenance.*

<table>
<thead>
<tr>
<th>Type</th>
<th>Factory-Installed Insight Centerpoint Power Sources</th>
<th>Brand-Neutral Power Sources</th>
<th>Software Activation</th>
<th>Insight Centerpoint Software Site License**</th>
<th>Optional Insight Reporter</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Continuum 350 (907636) Continuum 500 (907640) Auto-Continuum 350 (907656) Auto-Continuum 500 (907657)</td>
<td>ArcAgent Manual Series (301342) Manual, CE (301343) Manual with front panel Part Tracking controls, CE (301345) Manual with Insight torch capability, CE ArcAgent Auto (301346), CE</td>
<td>(301490) (301485) Software (301486) Software Single License**</td>
<td>(300709) Single license (1 required per PC) (300710) SQL database (1 required per facility)</td>
<td>Insight LTD Gun (Q4015153EML) For Continuum Insight LTD Remote (301383) M12/RJ45 Ethernet Cables (300734) 3 m (9.8 ft.) (300735) 5 m (16.4 ft.) (300736) 10 m (32.8 ft.) Field Application Support (195480) Miller field support (contact distributor for details)</td>
<td></td>
</tr>
</tbody>
</table>

**How it works**

- Manual welding
- Fixed automation
- Flexible automation

**Site License**
- 10–25 devices (301490) Software (301485) Software (301486) Maintenance
- 26–50 devices (301490) Software (301485) Software (301486) Maintenance
- 51–100 devices (301490) Software (301485) Software (301486) Maintenance

*www.millerwelds.com*
Premium data acquisition tools that enable both Insight Core™ and Insight Centerpoint™ solutions to integrate with any brand of welding power source.

**Models**

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

**NEW! ArcAgent for Insight Core.**

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

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

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

**Typical ArcAgent for Insight Core**

Typical ArcAgent Manual or ArcAgent Auto welding installation for Insight Centerpoint

**Voltage monitoring**

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

**Current monitoring**

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

**Wire feed speed monitoring**

- Wire Speed Sensor 301350
- Wire Speed Sensor Cable 301368 7.6 m (25 ft.)

**Gas flow monitoring**

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

**Travel speed monitoring**

- Travel Speed Encoder 301362
  - Requires Auxiliary Sensor Module and Travel Speed Wheel.
- Auxiliary Sensor Module (24 VDC) 301374
  - Allows for use of travel speed sensors as well as two analog inputs.
- Travel Speed Wheel 301360 152.4 mm (6 in.)
- Travel Speed Encoder Mounting Bracket 301363
- Travel Speed Encoder Cable 301376 7.6 m (25 ft.)

For a complete accessory list see literature WI/1.0.

---

**ArcTimer** (301349), CE

**ArcAgent Manual** (301342) Manual, CE

**ArcAgent Manual** with front panel Part Tracking controls, CE

**ArcAgent Manual** with Insight torch capability, CE

**ArcAgent Auto** (301346), CE
Fusion 160

The Fusion 160 delivers a smooth, stable arc from either engine power or 120/240-volt utility power, providing a unique combination of versatility and productivity in a lightweight package.

**Work anywhere convenience.** PowerShift technology provides weld capabilities using either the Fusion 160 gasoline engine or 120/240-volt utility power. You’ll have the confidence of knowing that you can weld virtually anywhere — outdoors and indoors — with just one machine. The multi-voltage plug (MVP®) makes it easy to connect the welder to either 120- or 240-volt power.

**Easier to transport.** The Fusion 160 welder/generator weighs 101 kg (222 lb). That’s up to 31.7 kg (70 lb.) less than similar machines, so moving the Fusion 160 is easier and faster. Less time is spent waiting, and more work can get done.

**Less rework.** The Fusion 160 uses inverter technology to deliver 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.

### Specifications

<table>
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<tr>
<th>Feature</th>
<th>Details</th>
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<tr>
<td><strong>Power</strong></td>
<td>13.4 hp at 3,600 rpm</td>
</tr>
<tr>
<td><strong>Engine Type</strong></td>
<td>One-cylinder, four-cycle, OHV, air-cooled</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Lifting Eye 195353, Running Gear 301246, Twist Lock Adapter Cord 301489, Protective Cover 301245</td>
</tr>
</tbody>
</table>

### Dimensions

- **H**: 629 mm (24.75 in.)
- **W**: 510 mm (20.125 in.)
- **D**: 794 mm (31.25 in.)

### Net Weight

- **Recoil**: 101 kg (222 lb.)
- **Electric**: 110 kg (242 lb.)

---

Blue Star® 185

Reliable outdoor portable power! Great for farm, ranch, maintenance, construction and hobbyist.

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

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

**Stick and TIG capable.**

**Accu-Rated® peak generator power** is usable for maximum generator loads such as plasma cutting, 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.

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### Dimensions

- **H**: 639 mm (25.125 in.)
- **W**: 524 mm (20.625 in.)
- **D**: 794 mm (31.25 in.)

### Net Weight

- **Gasoline**: 63 kg (139 lb.)
- **Electric**: 134 kg (296 lb.)

---
Bobcat™ 200 Air Pak™ See literature ED/4.35

The industry-leading power solution for increasing your capabilities, reducing expenses, and boosting profitability and efficiency.

Maximize available payload. Reduce weight by up to 249 kg (550 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. Save up to $50,000 over ten years from increased fuel efficiency, decreased maintenance costs and increased asset life.

Industrial rotary-screw air compressor. Easily outperforms and outlasts reciprocating compressors. Many air tools can be powered by the compressor including most 19 mm (3/4 in.) impact wrenches. Immediately supplies 0.79 m³/min. (28 cfm) at 175 psi, 100 percent duty cycle, continuous air output.

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

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

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

**Process**
- Stick (SMAW)

**Gasoline engine**
- Kohler CH730 with eChoke™:
  - 23.5 hp at 3,600 rpm
  - Twin-cylinder, four-cycle, overhead valve, industrial, air-cooled
  - Note: Engine is warranted separately by engine manufacturer.

**Most popular accessories**
- Spectrum® 375 X-TREME™
- Multi-Terrain Running Gear 301460
- Full KVA Adapter Cord 300517
- Protective Cover 301475 Without running gear
- 301476 With running gear
- HWY-Mid Frame Trailer 301438
- 25 ft. Battery Charge/Jump Cables with Plug 300422
- Air Compressor Oil Heater 301448
- Auxiliary Fuel Tank Pump 301450
- GFCI Panel Mount 120 VAC Duplex Kit 300975
- Spark Arrestor Kit 300924

**Gasoline**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Process</th>
<th>Output Ranges</th>
<th>Rated Weld Output at 40°C (104°F)</th>
<th>Single-Phase Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907706) Kohler</td>
<td>DC stick</td>
<td>50–210 A</td>
<td>150 A at 26 V, 100% duty cycle</td>
<td>Continuous/peak: 5,500 watts</td>
<td>H: 604 mm (23.76 in.)</td>
<td>253 kg (558 lb.)</td>
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<tr>
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<td></td>
<td></td>
<td>180 A at 27 V, 60% duty cycle</td>
<td></td>
<td>H: 756 mm (29.78 in.) to top of exhaust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>210 A at 25 V, 20% duty cycle</td>
<td></td>
<td>W: 508 mm (20 in.)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D: 1,185 mm (46.64 in.)</td>
<td></td>
</tr>
</tbody>
</table>

**Air Compressor**

<table>
<thead>
<tr>
<th>Features</th>
<th>Free Air Delivery</th>
<th>Working Pressure</th>
<th>Duty Cycle</th>
<th>Oil Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary screw with auto idle, oil change intervals of 500 hours</td>
<td>0.79 m³/min. (28 cfm) at 3,600 rpm</td>
<td>80–175 psig</td>
<td>100%</td>
<td>1.89 L (2 qt.)</td>
</tr>
</tbody>
</table>
Bobcat™ Series
Gas, LP and Diesel

Bobcat engine-driven welder/generators are the top selling in their class because they are engineered to be reliable, powerful and durable. Their multiprocess capabilities make them ideal for maintenance trucks where reduced size and weight are essential.

Cleaner and stronger generator power
11,000 watts (12,000 on Bobcat 250 with EFI) of clean, truly usable generator power that is Accu-Rated™, not inflated — tested to deliver uninterrupted peak output for a minimum of 30 seconds for big loads, so you can get more jobs done.

Advanced generator technology virtually eliminates power spikes and other electrical imperfections so welds are cleaner and jobsite tools can run without interruption, maximizing quality, productivity and profit.

More portable, uses less truck space
Smaller and lighter — 17 percent less cubic space and weighing up to 100 pounds less than the competition — means moving Bobcat welder/generators is faster and easier, for maximum productivity. And because they take up less space, they let work trucks carry more equipment and gear so your work crews can meet weight limits and be ready for anything.

Easier maintenance
Easy-to-read front panel maintenance displays show engine hours and hours left before an oil change is due. This intuitive design makes maintenance fast and easy.

• Oil checks from the top by the front panel
• Toolless panels that allow for quick access
• Single-side fuel fill and oil drain/filter

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

Versatile AC and DC welding
Provides AC and DC welding output for greater versatility and quality welds on all types of metals. DC is smooth and easy to run while AC stick is used when arc blow occurs.

Bobcat 250 EFI shown.
Gas or LP

*Recommended for operation at altitudes above 5,000 feet.

2.4, 3.2 and 4 mm (3/32, 1/8 and 5/32 in.). Very easy to set.

Convenient front panel fuel gauge.

More precise amperage settings with wider range for optimal stick/flux-cored welding.

Features four AC/DC stick/TIG controls and two wire ranges for output control. Stick ranges designed for 2.4, 3.2, 4 and 4.8 mm (3/32, 1/8, 5/32 and 3/16 in.). Very easy to set.

Add optional electronic fuel injection (EFI) — improved fuel efficiency for maximum productivity and profitability

Adding EFI to your Bobcat 250 welder/generator provides multiple benefits. With EFI you’ll get faster, more reliable starts in any weather — no choke adjustments needed. EFI-equipped Bobcat 250 machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you’ll spend more of your time welding, improving productivity.

Most popular accessories

• SuitCase® X-TREME™ Feeders
• Dynasty® 210 Series
• Spectrum® 625 X-TREME™
• Multi-Terrain Running Gear
• Off-Road Running Gear
• Protective Cage with Cable Holders
• Hose and LP Tank Mounting Assembly
• Remote Oil Drain/Filter Kit
• All-Purpose Running Gear
• Full KVA Adapter Cord 300517
• Protective Cover
• HWY-Mid Frame Trailer 301438
• GFCI Panel Mount 120 VAC Duplex Kit 300975
• Electric Fuel Pump Kit* (gas models only) 300976
• Spark Arrestor Kit (gas models only) 300924

Gas: Kohler CH730
23.5 hp at 3,600 rpm

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

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

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

EPA Tier 4 Final Diesel: Kubota D722
19 hp at 3,600 rpm

Three-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

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

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

Bobcat 225 (Gas) See literature ED/4.4

Bobcat 3 Phase (Gas) See literature ED/4.33

Designed for farm and ranch owners in need of single- and three-phase power to run 480-volt three-phase pivot irrigation systems or to provide backup power for home, farm and/or ranch.

Bobcat 250 (Gas, LP or Diesel) See literature ED/4.4 (Gas/LP) and ED/4.34 (Diesel)

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

Convenient front panel fuel gauge.

More precise amperage settings with wider range for optimal stick/flux-cored welding.

Features four AC/DC stick/TIG controls and two wire ranges for output control. Stick ranges designed for 2.4, 3.2, 4 and 4.8 mm (3/32, 1/8, 5/32 and 3/16 in.). Very easy to set.
Trailblazer® Series
Gas, LP and Diesel  See literature 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. The Trailblazer exclusive Auto-Speed™ technology delivers superior runtimes, increased fuel efficiency, and improved welder/generator performance.

Unbeatable arc performance
Wide amperage output with better welding deposition rates means you can get jobs done faster, saving time and money. The Trailblazer also has precise arc control, which allows you to fine-tune the arc to match your personal preferences and quickly dial in the perfect parameters to optimize weld quality and maximize productivity across a variety of applications and welding processes.

Auto-Speed technology
Get the welding power you need — plus reduced fuel consumption and lower noise levels for a more-profitable, safer jobsite. Unlike competitive machines that operate at 3,600 rpm (max) under any load, Miller-exclusive Auto-Speed technology responds to weld requirements by automatically adjusting engine speed to one of four rpm levels 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.

Cleaner and stronger generator power
Combines a 25 hp engine and 12,000 watts of clean, truly usable generator power that is Accu-Rated®, not inflated — tested to deliver uninterrupted peak output for a minimum of 30 seconds for big loads, so you can get more jobs done.

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

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

IT WOULD TAKE 7 TRAILBLAZERS TO EQUAL THE SOUND OUTPUT OF 1 COMPETITOR MACHINE.
Options to Maximize Your Trailblazer 325 Performance

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

Add Excel power to your Trailblazer with EFI, and you’ll have the most fuel-efficient compact welder/generator available.

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

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

ArcReach® remote control technology
Remote control of the power source without a control cord. An ArcReach system allows you to change weld settings from your ArcReach feeder or remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs. Learn more at MillerWelds.com/arcreach

Battery charge/crank assist (gas models)
Reduce downtime with battery charge/crank assist capability. Designed and recommended for mechanics or anyone else responsible for a fleet of trucks or equipment. By using your Trailblazer to charge dead batteries or jump a stubborn engine, you’ll keep your crew working and the fleet up and running. Provides up to 75 amps of DC current to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 350 amps of crank assist.

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

*Recommended for operation at altitudes above 1,524 m (5,000 ft.).
**For LP models order Hose and LP Tank Mounting Assembly (301458) separately.

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 4.8 mm [3/16 in.] carbons)

Engines
Gas: Kohler CH730
23.5 hp at 3,600 rpm
EFI gas: Kohler ECH730
23 hp at 3,600 rpm
LP: Kohler PCH740
Vapor withdrawal LP system
25 hp at 3,600 rpm
Twin-cylinder, four-cycle, overhead valve, industrial, air-cooled
EPA Tier 4 Final Diesel: Kubota D902
24.8 hp at 3,600 rpm
Three-cylinder, industrial, liquid-cooled

Most popular accessories
- SuitCase® X-TREME™ 12VS
- ArcReach® SuitCase® 8/12
- ArcReach® Stick/TIG Remote 301325
- Spoolmatic® 30A / WC-24 Control
- Multi-Terrain Running Gear
- Off-Road Running Gear
- Protective Cage with Cable Holders
- Hose and LP Tank Mounting Assembly
- All-Purpose Running Gear
- Full KVA Adapter Cord
- Protective Cover
- HWY-Mid Frame Trailer
- Electric Fuel Pump Kit (for gas models only) 300976

Recommended for operation at altitudes above 1,524 m (5,000 ft.).
7.6 m (25 ft.) Battery Charge/Jump Cables with plug (for Trailblazer 325 EFI 907754003 only) 300422

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Welding Mode</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 104°F (40°C)</th>
<th>Single-Phase Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas or LP</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Trailblazer 325</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>(907753) Kohler</td>
<td>CC/DC</td>
<td>10–325 A</td>
<td>325 A at 28 V, 100% duty cycle</td>
<td>Peak: 12,000 watts, 11,800 watts (LP) Continuous: 10,500 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>Gas 209 kg (460 lb.)</td>
</tr>
<tr>
<td>(90775001) Koeller with GFCI</td>
<td>CV/DC</td>
<td>MIG/FCAW 10–35 V</td>
<td>325 A at 28 V, 100% duty cycle</td>
<td>Excel power (optional) 2,400 watts 20 A at 120 V, 60 Hz pure generator power at idle speed and while welding.</td>
<td>H: 832 mm (32.75 in.) to top of exhaust D: 1,029 mm (40.5 in.)</td>
<td>LP 215 kg (479 lb.)</td>
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<tr>
<td>(90775002) Koeller with electric fuel pump*</td>
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<tr>
<td>(907754) EFI Kohler</td>
<td>CC/DC</td>
<td>10–325 A</td>
<td>325 A at 28 V, 100% duty cycle</td>
<td>Peak: 12,000 watts, 11,800 watts (LP) Continuous: 10,500 watts</td>
<td>H: 711 mm (28 in.)</td>
<td></td>
</tr>
<tr>
<td>(907754001) EFI Kohler with Excel power</td>
<td>CV/DC</td>
<td>MIG/FCAW 10–35 V</td>
<td>325 A at 28 V, 100% duty cycle</td>
<td>Excel power (optional) 2,400 watts 20 A at 120 V, 60 Hz pure generator power at idle speed and while welding.</td>
<td>H: 832 mm (32.75 in.) to top of exhaust D: 1,029 mm (40.5 in.)</td>
<td></td>
</tr>
<tr>
<td>(907754002) EFI Koeller with GFCI, Excel power and ArcReach</td>
<td></td>
<td></td>
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<tr>
<td>(907754003) EFI Koeller with GFCI, Excel power and battery charge/crank assist</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>(907727***) EFI LP Koeller with GFCI</td>
<td>CV/DC</td>
<td>10–35 V</td>
<td>325 A at 28 V, 100% duty cycle</td>
<td></td>
<td>H: 711 mm (28 in.)</td>
<td></td>
</tr>
<tr>
<td>(907727001***) EFI LP Koeller with GFCI and Excel power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Diesel</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Trailblazer 325 Diesel</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(907755) Kubota</td>
<td>CC/DC</td>
<td>10–325 A</td>
<td>325 A at 33 V, 100% duty cycle</td>
<td>Peak: 12,000 watts, 11,800 watts (LP) Continuous: 10,500 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>Gas 209 kg (460 lb.)</td>
</tr>
<tr>
<td>(907755001) Kubota with GFCI</td>
<td>CV/DC</td>
<td>MIG/FCAW 10–35 V</td>
<td>325 A at 33 V, 100% duty cycle</td>
<td>Excel power (optional) 2,400 watts 20 A at 120 V, 60 Hz pure generator power at idle speed and while welding.</td>
<td>H: 876 mm (34.5 in.) to top of exhaust D: 1,156 mm (45.5 in.)</td>
<td>LP 215 kg (479 lb.)</td>
</tr>
<tr>
<td>(907755002) Kubota with GFCI and Excel power</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(907755003) Kubota with GFCI, Excel power and ArcReach</td>
<td></td>
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<tr>
<td>(907755007) Kubota with International Receptacles, Excel power, ArcReach and XX18 stick mode at 1800 RPM</td>
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</tr>
</tbody>
</table>
**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.

---

**Gasoline**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Weld Output at 40°C (104°F)</th>
<th>Single-Phase Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907549001) Kohler</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>10-300 A</td>
<td>280 A at 32 V, 100% duty cycle</td>
<td>Peak: 13,000 watts</td>
<td>H: 711 mm (28 in.)&lt;br&gt;W: 876 mm (34.5 in.)</td>
<td>350 kg (771 lb.)</td>
</tr>
<tr>
<td>(907549002) Kohler with GFCI and electric fuel pump*</td>
<td>CC/AC</td>
<td>Stick/TIG</td>
<td>10-225 A</td>
<td>200 A at 25 V, 60% duty cycle</td>
<td></td>
<td>H: 1,514 mm (59.625 in.)</td>
<td></td>
</tr>
</tbody>
</table>

**Features**

- Rotary screw with electric clutch for on/off, oil change intervals of 500 hours
- Working Pressure Constant: 80-160 psig
- Duty Cycle: 100%
- Oil Capacity: 1.7 L (1.75 qt.)

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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.

**ArcReach™**

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

**Tailored arc control (DIG)** allows arch 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.

---

**Diesel**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Single-Phase Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907732010) Kubota, CE</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>20-400 A</td>
<td>300 A at 32 V, 100% duty cycle</td>
<td>Peak: 12,000 watts</td>
<td>H: 813 mm (32 in.)&lt;br&gt;W: 667 mm (26.25 in.)</td>
<td>456 kg (1,003 lb.)</td>
</tr>
<tr>
<td>(907732011) Kubota w/ArcReach, CE (907738) CAT, CE</td>
<td>CC/DC</td>
<td>MIG/CAW</td>
<td>14-40 V</td>
<td>400 A at 24 V, 100% duty cycle</td>
<td></td>
<td>H: 1,422 mm (56 in.)</td>
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</table>

**Processes**

- **AC/DC stick (SMAW) • MIG (GMAW)**
- **Flux-cored (FCAW)**
- **ARC™/DC TIG (GTAW)**
- **Air carbon arc cutting and gouging (CAC-A)**
- **with wire feeder.**
- **Two-piece TIG torch recommended.**

**Gasoline engine**

- **Kohler CH750**: 27 hp at 3,600 rpm
  - V-twin-cylinder, four-cycle, overhead valve, industrial, air-cooled
  - Note: Engine is warranted separately by engine manufacturer.

**Most popular accessories**

- **SuitCase™ X-TREME™ 12VS**
- **SPOOLMATIC® 30A Aluminum Spool Gun / WC-24 Control**
- **HW-Mid Frame Trailer 301438**
- **7.6 m (25 ft.) Battery Charge/Jump Cables with Plug 300422**

---

**Heavy industrial**

**Processes**

- **Stick (SMAW) • MIG (GMAW)**
- **Flux-cored (FCAW) • DC TIG (GTAW)**
- **ARC™/DC TIG (GTAW)**
- **Air carbon arc cutting and gouging (CAC-A)**
- **ArcReach™ Smart Feeder.**
- **Dynasty® 210 Series.**
- **Protective Cover 195301**
- **For ArcReach models only.**

**Diesel engines**

- **Kubota V1505S**: 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
- **Note: Engines are warranted separately by engine manufacturer.**

**Most popular accessories**

- **ArcReach™ SuitCase™ Feeders**
- **ArcReach™ Smart Feeder**
- **ArcReach™ Stick/TIG Remote**
- **Dynasty® 210 Series**
- **Protective Cover 195301**

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

**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.

**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.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>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>(907761) Perkins with ArcReach, CE</td>
<td>CC/DC</td>
<td>DC stick/TIG</td>
<td>20-500 A</td>
<td>400 A at 36 V, 100% duty cycle 450 A at 33 V, 80% duty cycle 500 A at 30 V, 40% duty cycle</td>
<td>Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>14–50 V</td>
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</tbody>
</table>
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.

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)</td>
<td>Deutz D2011L03i</td>
<td>DC, Stick/TIG</td>
<td>55-500 A</td>
<td>400 A at 36 V (14.4 kW), 100% duty cycle</td>
<td>Peak: 5500 watts Continuous: 4000 watts, 34/17 A, 120/240 VAC, 50/60 Hz while welding</td>
<td>907185: 728 kg (1604 lb.)</td>
</tr>
<tr>
<td></td>
<td>(907187), CE</td>
<td>Perkins 404.22, CE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>907187: 732 kg (1614 lb.)</td>
</tr>
<tr>
<td>Big Blue 600 X CC</td>
<td>(907193)</td>
<td>Deutz D2011L04i</td>
<td></td>
<td>65-600 A</td>
<td>500 A at 40 V (20 kW), 100% duty cycle</td>
<td>Peak: 5500 watts Continuous: 4000 watts, 34/17 A, 120/240 VAC, 50/60 Hz while welding</td>
<td>Deutz: 769 kg (1695 lb.)</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.

Heavy industrial

Processes
- Stick (SMAW) • MIG (GMAW)
- Flux-cored (FCAW) • TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (C/C-A) (rated 9.5 mm (3/8 in.) carbons)
- RMD • Pulsed MIG (GMAW-P) with ArcReach Smart Feeder

Diesel engine Deutz D2011L04i:
48.6 HP at 1800 RPM
Four-cylinder, industrial, air/oil-cooled

Most popular accessories
- SuitCase® X-TREME™ 8VS/12VS
- ArcReach® SuitCase® 8: 301457 / 12: 301456
- ArcReach® Smart Feeder 300935
- ArcReach® Stick/TIG Remote 301325
- Wireless Remote Hand Control/Wireless Antenna Kit 300430/300749
- Spectrum® 875
- Adapter Cord, Full KVA 300517
- Full KVA Plug Kit: 1-Phase 119172 3-Phase 254140
- Protective Cover 194683
- HWY-225 Trailer 301338
- Engine Filter Kit 246988
- Engine Filter Kit 246988

Don’t Walk WELD™

LESS WALKING MEANS BIGGER SAVINGS

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

With ArcReach® technology, weld parameters can be adjusted remotely without a control cable, saving weld operators multiple walks back and forth from the power supply. You can increase productivity, improve weld quality and keep them safer — all while maximizing your profits.

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

**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.

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).

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

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

*Welder track specific models available — visit MillerWelds.com or your distributor.

**Improve!** Now with ArcReach.
SubArc Digital Series

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.*

*While idling.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage Range (CC Mode)</th>
<th>Voltage Range (Sub Arc Mode)</th>
<th>Rated Output</th>
<th>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</td>
<td>380 V 90 V 50</td>
<td>75 Vpk</td>
<td>H: 762 mm (30 in.) W: 584 mm (23 in.) D: 965 mm (38 in.)</td>
</tr>
<tr>
<td>SubArc DC 800 Digital, 50 Hz (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</td>
<td>380 V 128 V 50</td>
<td>68 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
</tr>
<tr>
<td>SubArc AC/DC 1000 Digital (907620)</td>
<td>300–1,250 A</td>
<td>20–44 V</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>179</td>
<td>460 V 176 V 50</td>
<td>93 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
</tr>
</tbody>
</table>
SubArc Interface Control

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 Remote Operator Interface

Point-of-use installation. Remote Pendant can be handheld or secured at point of use to improve operation.

Remote installation. Motor Control can be remotely installed, resulting in reduced cables at the operator workstation.

Side handles on Remote Pendant provides option for handheld operation with full functionality of a traditional SubArc Interface.

SubArc Wire Drive Assemblies

SubArc Strip Drive 100 Digital Low Voltage

SubArc Strip Drive 100 is a heavy-duty, right-angle drive assembly designed for automated strip clad applications.

SubArc Wire Drive 400 Low Voltage

SubArc Wire Drive 400 is a right-angle drive assembly with standard speed.
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.

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

External Cladding Head

Cost-efficient means of depositing stainless steel and Ni-alloy materials to create corrosion- or wear-resistant overlays on large non- or low-alloyed steel components.

Designed for both submerged arc and electroslag strip cladding applications.

Flexible external cladding head accommodates strip widths from 30 to 90 mm.

Individually adjustable spring-loaded contact jaws provide optimal current transfer, reducing risk of cladding failures.

Stock Number | Rated Output | Strip Width Range | Cooling Method | Dimensions | Net Weight
---|---|---|---|---|---
External Cladding Head 30–90 mm (301157) | 3,000 A at 100% duty cycle | 30–90 mm | Coolant | H: 379 mm (14.92 in.)
W: 223 mm (8.76 in.)
D: 226 mm (8.9 in.) | 17.5 kg (38.5 lb.)

SubArc Flux Hopper

Improved flux delivery system. Our SubArc Flux Hopper Digital Low Voltage utilizes a flux valve mechanism that assures continuous delivery of flux to the arc.

Sight glass allows the weld operator to visually monitor the remaining flux in the hopper.

Versatile opening is sized to allow hook-up of any flux-hopper-mounted recovery system.

Includes slag screen to capture fused slag particles from entering the flux hopper.

Input Power | Input Power Cord | Flux Capacity | Net Weight
---|---|---|---
SubArc Flux Hopper Digital Low Voltage (300942) | 12 VDC (PWM signal from SubArc Interface) | 3.3 m (11 ft.) | 11 kg (25 lb.) | 5 kg (11 lb.)

Most popular accessories

- SubArc Strip Drive 100 Digital Low Voltage 300940
- Coolant Flow Switch Kit 195461
- Coolmate™ 3
  - 043007  115 V
  - 043008  230 V
- Water Hose Extensions
  - 40V76R6  1.8 m (6 ft.)
  - 40V76R  3.8 m (12.5 ft.)
  - 40V76LR  7.6 m (25 ft.)
- Water Coupler 11N18
- Quick-Release Water Kit QRW
SubArc 3-Wheel Tractor

**Required system components**

- 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

**Most popular accessories**

- SubArc Control Cables
- Contact Tips
- Drive Rolls

---

**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 new digital series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated providing a high level of protection for harsh environments.

---

**Submerged Arc**

- **SubArc 3-Wheel Tractor**
- **SubArc Control Cables**
- **Contact Tips**
- **Drive Rolls**

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**Innovation**
Focused on optimizing quality, ease-of-use and cost

**Collaboration**
Partnering to meet customer needs

**Trusted source**
Deep product and application expertise to deliver success

Visit HobartBrothers.com for more information.

More than just filler metal... SOLUTIONS for your business.
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 — Three Basic Induction Heating Configurations

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

Liquid-Cooled Cables  See literature IN/15.0

Preheat applications up to 788°C (1,450°F).

• A highly versatile tool for preheating, stress relieving, hydrogen bake out, post weld heat treat 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 set up and movement for maintaining and adhering to preheat and interpass temperatures
• It enables the benefits of rolled pipe welding while also addressing some of the concerns associated with other popular heating methods, such as open flame and resistance heating

Air-Cooled Blankets  See literature IN/14.0

Preheating applications up to 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
Spectrum® Series

Plasma Cutters

Our Spectrum line of plasma cutters provides big cutting power in portable packages and with features like flexible cables and Auto-Refire technology they are better than ever. Step up to Spectrum 625 X-TREME™ or 875/875 Auto-Line™ models to add Ultra-Quick Connect hand-held torches and machine torch capabilities.

Models/packages

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 Rated Cutting Capacity

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

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

Spectrum 625 X-TREME and 875/875 Auto-Line hand-held and machine torches

Ultra-Quick Connect™ hand-held torches with flexible cables.

XT40 (625 X-TREME) and XT60 (875 models) hand-held torches feature quick torch connection, ergonomic handles to help prevent operator fatigue and flexible cables that make maneuvering easier.

Machine torch capable.

625 X-TREME and both 875 models can be ordered with a machine torch or can be converted to use a machine torch with optional automation kits.

Long and short body machine torches. XT40M (625 X-TREME) and XT60M (875 models) machine torches are available in long or short body configurations. XT60M is also available in 7.6 or 15.2 m (25 or 50 ft.) cable lengths.

Models/ packages

<table>
<thead>
<tr>
<th>Model</th>
<th>Hand-Held Torch Packages</th>
<th>Long Body Machine Torch Packages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum 375 X-TREME</td>
<td>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>(907579)</td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>(907579)</td>
<td>—</td>
</tr>
<tr>
<td>Spectrum 875 Auto-Line</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
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.

625 X-TREME model includes XT30 hand-held torch with ergonomic design and flexible cable.

375 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.

375 X-TREME shown.

Includes Ultra-Quick Connect® XT60 hand-held torch with ergonomic design and flexible cable; or XT60M 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.

Includes Ultra-Quick Connect® XT60 hand-held torch with ergonomic design and flexible cable; or XT60M long body or short body machine torch.

375 X-TREME packages come complete with:
- XT30 hand-held torch with 3.7 m (12 ft.) cable
- XT40M long body or short body machine torch with 7.6 m (25 ft.) cable
- XT40 hand-held torch with 3.7 m (12 ft.) cable

625 X-TREME packages come complete with:
- XT40 hand-held torch with 3.7 m (12 ft.) cable
- XT60M long body or short body machine torch with 7.6 m (25 ft.) cable

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
- XT60M long body or short body machine torch with 7.6 m (25 ft.) or 15.2 m (50 ft.) cable
- XT40M long body or short body machine torch with 7.6 m (25 ft.) cable

Most popular accessories:
- Automation Kits
- Cables and Cable Covers
- Cutting Guides
- Filters
- Plugs and Cords
- Protective Covers/Cases
- Torches
- Torch Consumables
Spectrum® Automation-Ready Machines

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

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

Long and short body machine torches. XT40M (for 625 X-TREME) and XT60M (for 875 models) machine torches can be ordered separately and are available in long or short body configurations. XT60M is also available in 7.6 or 15.2 m (25 or 50 ft.) cable lengths.

Note: Machine torch packages above are shown with long body torches.

Automation kits

Converts hand-held torch packages to add machine torch capabilities. Machine torches are NOT included in automation kits and must be ordered separately.

• Spectrum 625 X-TREME Automation Kit 301158
  Note: Requires a Spectrum 625 X-TREME with Ultra-Quick Connect™ feature for unit to be converted for use with long or short body machine torches.

• Spectrum 875 Automation Kit 301156

• Spectrum 875 Auto-Line Automation Kit 301157
  Includes remote pendant control for manual on/off.

Spectrum 625 X-TREME™ machine torch package (907579002) shown.

Spectrum 875 Auto-Line™ machine torch package (907584002) shown. Spectrum 875 machine torch package also available (without remote pendant control).
Your welders select the Bernard gun handles, triggers and necks that are the most comfortable and effective for accessing their welds.

Management enjoys the resulting increase in productivity, longer gun life, and a reduced parts inventory with consumables designed to work across all of your welding guns.

BernardWelds.com 1-855-MIGWELD (644-9353)

Engineered for Simplicity. Built for Durability.

Finding the right filler metal solution for your welding needs is critical in an industry that is about getting the job done right. Filler metals are more than just a component of welding—they are the tie that binds science and people. The right solutions. Solutions to make our world more secure. More dynamic. More of what you need.

Every day, every project, every weld is another opportunity for Hobart to earn and secure your trust by helping you find the right filler metal solution.

That kind of help and finding your welding solutions is our passion.

Visit HobartBrothers.com for more information.

Find Your Solution. Today.
All of our products are designed and built to protect the welder behind the hood and their environment — because that’s what we know. By listening to welders and working with them side-by-side, we understand their pain points and have developed products that offer protection from the unique physical dangers and health risks prevalent within welding applications. Miller’s complete line of Head and Face, Hand and Body, and Weld Fume protection is designed to protect and perform in demanding welding, cutting and grinding applications.

Welding Helmets

<table>
<thead>
<tr>
<th>Viewing Area</th>
<th>T94™</th>
<th>T94™</th>
<th>Digital Infinity™</th>
<th>Digital Elite™</th>
<th>Digital Performance™</th>
<th>Classic Series VSI™</th>
<th>Classic Series VS</th>
<th>Classic Series FS#10 Flip-Up</th>
</tr>
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<tbody>
<tr>
<td>9.0 sq. in.</td>
<td>9.0 sq. in.</td>
<td>13.4 sq. in.</td>
<td>9.2 sq. in.</td>
<td>7.2 sq. in.</td>
<td>5.9 sq. in.</td>
<td>5.2 sq. in.</td>
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<td>Auto-Darkening</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ClearLight™ Lens Technology</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Integrated Grind Shield</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tr>
<tr>
<td>Auto-on</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Sensors</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
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<tr>
<td>TIG Rating</td>
<td>3 amps</td>
<td>3 amps</td>
<td>5 amps/below</td>
<td>5 amps/below</td>
<td>5 amps</td>
<td>5 amps/below</td>
<td>20 amps</td>
<td>20 amps</td>
</tr>
<tr>
<td>Switching Speed</td>
<td>1/20,000</td>
<td>1/20,000</td>
<td>1/20,000</td>
<td>1/20,000</td>
<td>1/20,000</td>
<td>1/10,000</td>
<td>1/3,600</td>
<td></td>
</tr>
<tr>
<td>Digital Controls</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Premium Headgear</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>InfoTrack™</td>
<td>Yes - 2.0</td>
<td>Yes - 2.0</td>
<td>Yes - 1.0</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Weight</td>
<td>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>673 g (24 oz.)</td>
<td>454 g (16 oz.)</td>
<td>396 g (14 oz.)</td>
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<tr>
<td>Warranty</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>2 years</td>
<td>2 years</td>
<td>2 years</td>
<td></td>
</tr>
</tbody>
</table>

See chart above for feature availability.

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

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

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

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

InfoTrack™ data monitoring technology tracks arc time and features a clock. Version 2.0 adds arc count.

T94™ Series

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

ClearLight™ Lens Technology optimizes contrast and clarity in welding and light states.

Silver finish reflects ambient heat, keeping the user cooler.

InfoTrack™ 2.0 monitors arc time and arc count.

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

Best-in-class comfort for all-day wearability

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.
Digital Infinity™ Series  Industry's largest viewing area maximizes visibility.  See literature AY/42.0

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

Digital Performance™ Series  See literature AY/44.0  Lightweight helmet with superior headgear for increased efficiency.

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

Classic Series  Helmets for the value-minded welder.  See literature AY/45.0
**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-resistant 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 (8 oz.), virtually eliminates neck strain

**Weld-Mask 2 280982**
- Ideal for industrial or construction environments — can be worn under a hard hat with a Miller® Half Mask Respirator and select safety glasses
- Shades 5–13 for use with MIG, TIG, stick, and gas welding and cutting
- X-Mode™ electromagnetically senses the weld to eliminate sunlight interference and continuously detects the arc even if sensors are blocked
- Wide, singular lens provides unmatched auto-darkening range of visibility

---

**Helmet Accessories**

**Gen II Headgear 256174**
- Extensive adjustability settings and a pivoting top for better fit and comfort

**Gen III Headgear 271325**
- Oversized comfort cushion provides extensive adjustability, settings, and enhanced support

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

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

**Hard Hat Adapter 213110 XL and XLi 222003 Elite, Performance, Classic, MP-10, Titanium, Pro-Hobby, XLi**
- 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**
- Shade 8
- Shade 9
- Shade 10
- Shade 11

**Helmet Bib 252882**
- Flame-resistant WeldR™ material provides additional neck coverage for the Infinity, Elite, Performance, Classic and MP-10 Series helmets

**Helmet Bib 279078**
- Flame-resistant material provides additional neck coverage for the T94™ Series helmets

**Helmet Cape 279080**
- Flame-resistant material provides additional head and back-of-the-neck coverage for the T94™ Series 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 inches)

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

**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 Series helmets

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

**Hard Hat Cape 279080**
- Flame-resistant material provides additional head and back-of-the-neck coverage for the T94™ Series helmets

**Safety Glasses**  See literature AY/46.0

- Anti-fog coating and high-quality optics
- Form-fitting orbital eye coverage
- Shatterproof polycarbonate lenses
- Wrap-around designs meet ANSI side shield requirements
- ANSI Z87.1+ compliant
- I/O (indoor/outdoor) lenses feature light shading with a mirrored finish
- Smoke lenses provide shade protection in outdoor applications
- Shade 3 and 5 green IR lenses are for cutting, brazing or soldering

**Safety and Cutting Glasses Chart**

<table>
<thead>
<tr>
<th>Frame Style/Color</th>
<th>Clear</th>
<th>I/O</th>
<th>Smoke</th>
<th>Shade 3</th>
<th>Shade 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic</td>
<td>272187</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classic with Strap</td>
<td>272188</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spark*</td>
<td>272190</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spatter* - Black</td>
<td>272191</td>
<td></td>
<td>272195</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spatter* - White</td>
<td>272198</td>
<td></td>
<td>272199</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slag* - Black</td>
<td>272201</td>
<td>272202</td>
<td>272203</td>
<td>272204</td>
<td>272205</td>
</tr>
<tr>
<td>Slag* - White</td>
<td>272206</td>
<td>272207</td>
<td>272208</td>
<td>272196</td>
<td>272209</td>
</tr>
<tr>
<td>Gen I - Black</td>
<td>235697</td>
<td></td>
<td>235656</td>
<td>235662</td>
<td>235658</td>
</tr>
</tbody>
</table>
**Welding Apparel**  See literature AY/47.5

### Grain Leather Jacket
*(See size chart)*
- Top-grain pigskin leather
- Expandable leather strategically placed for optimal mobility
- Flame-resistant inside cuff
- Satin lining
- Tapered, athletic cut
- Sewn entirely with Kevlar® thread, adding structural durability at each seam

### Split Leather Jacket
*(See size chart)*
- Premium pig split leather
- Expanded rear tail for additional protection
- Expandable leather strategically placed for optimal mobility
- Mesh lining
- Sewn entirely with Kevlar® thread, adding structural durability at each seam

### WeldX® Jacket
*(See size chart)*
- 7-ounce WeldX front and flame-resistant navy cotton back
- Lightweight exclusive material with extreme flame-resistant properties
- Vented back/extended rear tail
- Zipper closure with hook-and-loop fastened flap
- Chromium free

### Combo Jacket
*(See size chart)*
- 9-ounce Indura® flame-resistant cotton
  (flame resistance guaranteed for life of jacket)
- Top grain leather
- Pre-shrunk fabric
- Allows for patented bib/apron attachment

### Indura® Cloth Jacket
*(See size chart)*
- 9-ounce Indura® flame-resistant cotton
  (flame resistance guaranteed for life of jacket)
- Pre-shrunk fabric
- Nomex® flame-resistant thread

### Classic Cloth Jacket
*(See size chart)*
- 9-ounce flame-resistant navy cotton
- Pre-shrunk fabric
- Fold-in sleeve snaps
- Finished hems and reinforced stitching

### Classic Cloth Apron 247149
- 35-inch length
- Fold-in sleeve snaps
- One-handed cinch closure

### Welding Apparel Size Chart

<table>
<thead>
<tr>
<th>Apparel</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>2X-Large</th>
<th>3X-Large</th>
<th>4X-Large</th>
<th>5X-Large</th>
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</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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<tr>
<td>WeldX Jacket</td>
<td>247114</td>
<td>247115</td>
<td>247116</td>
<td>247117</td>
<td>247118</td>
<td>247119</td>
<td>247120</td>
<td>247121</td>
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<tr>
<td>Combo Jacket</td>
<td>–</td>
<td>–</td>
<td>231082</td>
<td>231083</td>
<td>231084</td>
<td>–</td>
<td>–</td>
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<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>
<td>Classic Cloth Jacket</td>
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<td>244751</td>
<td>244752</td>
<td>244754</td>
<td>244755</td>
<td>244756</td>
<td>244758</td>
</tr>
</tbody>
</table>

**Welding Safety & Health**
Welding Gloves

Performance — unprecedented comfort and performance with exceptional dexterity and flexibility.

**Heavy-Duty MIG/Stick**
- Strategically placed patches on palm and back for extended glove life
- Double-layered insulated palm and back
- Pig grain leather palm provides extreme durability and protection

**MIG (Lined)**
- Dual-padded palm
- Fleece insulated palm, foam insulated back
- Cow grain palm, pig split back and goat grain inner fingers provide exceptional dexterity and comfort

**TIG**
- Completely unlined for heightened feel and dexterity
- Triple-padded palm for added comfort
- Goat grain leather offers superior flexibility and dexterity

**TIG/Multitask**
- Dual-padded palm for added comfort
- Wool back provides ultimate insulation
- Goat grain leather offers superior flexibility and dexterity

**Work**
- Dual-padded palm for added durability
- Fleece back provides ultimate insulation
- Cow grain leather offers superior durability and abrasion resistance

**Metalworker**
- Durable top grain leather and spandex back for enhanced durability and dexterity
- Neoprene wrist with hook-and-loop closure increases fit and support
- Padded, reinforced palm and thumb saddle for extended wear

**Classic Gloves**

**Heavy-Duty MIG/Stick**
- Reflective insulation on back reduces heat impact
- Moisture-wicking fleece and foam insulation
- Pig grain palm, pig split back and cuff

**MIG (Pigskin)**
- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Pig split leather palm, back and cuff

**MIG (Cowhide)**
- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Cow split palm, pig split back and cuff

**TIG**
- Thin internal padding for added comfort
- Unlined palm for precise dexterity
- Sheep grain palm, cow split back and cuff

---

**Welding Gloves**

See literature AY/47.0

---

**Welding Glove Size Chart**

*All asterisked stock numbers are sold as one pair. All others are sold as six packs (six pairs).*

<table>
<thead>
<tr>
<th>Performance Gloves</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>2X-Large</th>
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</thead>
<tbody>
<tr>
<td>Heavy-Duty MIG/Stick</td>
<td>—</td>
<td>—</td>
<td>263339</td>
<td>263340</td>
<td>269615*</td>
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<tr>
<td>MIG (Lined)</td>
<td>—</td>
<td>263332</td>
<td>263333</td>
<td>263334</td>
<td>269618*</td>
</tr>
<tr>
<td>TIG</td>
<td>263346</td>
<td>263347</td>
<td>263348</td>
<td>263349</td>
<td>—</td>
</tr>
<tr>
<td>TIG/Multitask</td>
<td>263352</td>
<td>263353</td>
<td>263354</td>
<td>263355</td>
<td>—</td>
</tr>
<tr>
<td>Work</td>
<td>—</td>
<td>260041*</td>
<td>260042*</td>
<td>260043*</td>
<td>—</td>
</tr>
<tr>
<td>Metalworker</td>
<td>—</td>
<td>251066</td>
<td>251067</td>
<td>251068</td>
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</table>

<table>
<thead>
<tr>
<th>Classic Gloves</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty MIG/Stick</td>
<td>—</td>
<td>271877*</td>
<td>271887*</td>
</tr>
<tr>
<td>MIG (Pigskin)</td>
<td>—</td>
<td>271888*</td>
<td>271889*</td>
</tr>
<tr>
<td>MIG (Cowhide)</td>
<td>—</td>
<td>271890*</td>
<td>271891*</td>
</tr>
<tr>
<td>TIG</td>
<td>271892*</td>
<td>271893*</td>
<td>271894*</td>
</tr>
</tbody>
</table>
Respiratory

PAPR Powered Air-Purifying Respirator  See literature AY/4.1

Available packages:

<table>
<thead>
<tr>
<th>Description</th>
<th>Item Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>With T94i-R&quot; helmet (integrated clear grind shield)</td>
<td>264575</td>
</tr>
<tr>
<td>With T94-R&quot; helmet (external grind control)</td>
<td>264573</td>
</tr>
<tr>
<td>With Titanium 9400i&quot; helmet (integrated clear grind shield)</td>
<td>264877</td>
</tr>
<tr>
<td>With Titanium 9400&quot; helmet (external grind control)</td>
<td>264879</td>
</tr>
<tr>
<td>With hard hat and Titanium 9400i&quot; helmet (integrated clear grind shield)</td>
<td>261659</td>
</tr>
<tr>
<td>With hard hat and Titanium 9400&quot; helmet (external grind control)</td>
<td>259385</td>
</tr>
</tbody>
</table>

- HEPA filter provides 99.97 percent filtration of airborne particles, specifically: hexavalent chromium, zinc oxide, manganese, aluminum, cadmium and lead
- NIOSH 42 CFR 84 certified, assigned protection factor of 25

Designed for comfort

Well-balanced design reduces torque on neck, increasing all-day wear.

Patent-pending Dualtec™ manifold system optimizes helmet balance and sound, while six-point air distribution system maximizes cooling through targeted air placement.

Ergonomic headgear provides secure fit without the need for over-tightening.

Lightweight low-profile blower assembly with integrated shoulder straps reduces lower back strain and fatigue.

Superior visibility

ClearLight™ Lens Technology optimizes contrast and clarity in welding and light states, easing eye strain.

Shade 5.0 side windows and oversized clear grind shield maximize downward and peripheral visibility, improving sense of surroundings.

Half-shade lens adjustability provides fine shade adjustment for optimized comfort and vision.

Improved productivity

Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.

Low-profile breathing-tube attachment eases on/off process while flexible tube material eliminates breathing tube snags in work cell.

Two lightweight lithium-ion batteries included with each system eliminate downtime.

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

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML00894</td>
<td>Respirator with P100 filters (small/medium)</td>
</tr>
<tr>
<td>ML00895</td>
<td>Respirator with P100 filters (medium/large)</td>
</tr>
<tr>
<td>ML00994</td>
<td>Respirator with P100 nuisance level OV relief filters (small/medium)</td>
</tr>
<tr>
<td>ML00995</td>
<td>Respirator with P100 nuisance level OV relief filters (medium/large)</td>
</tr>
</tbody>
</table>

Filters and accessories

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA00818</td>
<td>P100 filters (one pair)</td>
</tr>
<tr>
<td>SA00819</td>
<td>P100 nuisance level OV relief filters (one pair)</td>
</tr>
<tr>
<td>261086</td>
<td>Quantitative fit-test kit adapter</td>
</tr>
</tbody>
</table>

- Low-profile design fits under most welding helmets and provides maximum field of vision
- P100 filters provide 99.97 percent filtration of airborne particles, specifically: hexavalent chromium, zinc oxide, manganese, aluminum, cadmium and lead
- NIOSH 42 CFR 84 certified, assigned protection factor of 10

N95 Disposable Mask Respirator  See literature AY/4.8

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>267334</td>
<td>Respirator (10 pack)</td>
</tr>
<tr>
<td>267335</td>
<td>Respirator with nuisance level OV relief (10 pack)</td>
</tr>
<tr>
<td>267334-2</td>
<td>Respirator (2 pack)</td>
</tr>
<tr>
<td>267335-2</td>
<td>Respirator with nuisance level OV relief (2 pack)</td>
</tr>
</tbody>
</table>

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

A complete system includes blower assembly, HEPA filter, prefilters (6), spark guard, breathing tube, breathing tube cover, padded belt, comfortable shoulder straps, lithium-ion batteries (2), battery charger, flowmeter, tool bag and helmet assembly (see available packages at left).
LiveArc™ System
Welding Performance Management System

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

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

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

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

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

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

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

SmartStinger extends training capabilities to the SMAW process. LiveArc guides pre-weld positioning for travel and work angles via the display panel in the system’s computer case.

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

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

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

Stack Number | Input Power | Processes | Positions | Multi-Pass | Rated Output | Electrode Diameter | Computer | Monitor | Dimensions | Net Weight
---|---|---|---|---|---|---|---|---|---|---
(907714) LiveArc GMAW/FCAW system | 120 V, 60 Hz Compatible with Miller wire feed power sources | GMAW, GMAW-S, GMAW-P, FCAW-G | 2F-4F, 1G-4G | Groove and fillet up to 25 mm (1 in.) plate | SmartGun 400 A at 60% duty cycle (mixed gases) | SmartGun Up to 2.0 mm (5/64 in.) | Intel core i7, 128 GB SSD, fanless cooling, HDMI port supports most secondary monitors (not included) | 21.5 HD LCD touch screen display | H: 1,969 mm (77.5 in) | 218 kg (480 lb) | GMAW/FCAW system
(907714001) LiveArc GMAW/FCAW/SMAW system | 120 V, 60 Hz Compatible with Miller wire feed power sources | GMAW, GMAW-S, GMAW-P, FCAW-G | 2F-4F, 1G-4G | Limited groove applications | SmartStinger 250 A at 60% duty cycle | SmartStinger Up to 3.2 mm (1/8 in.) | Intel core i7, 128 GB SSD, fanless cooling, HDMI port supports most secondary monitors (not included) | 21.5 HD LCD touch screen display | H: 1,969 mm (77.5 in) | 239 kg (527 lb) | GMAW/FCAW/SMAW system
(301391) LiveArc stick upgrade module | Only available at authorized training distributors

Only available at authorized training distributors!

LiveArc GMAW/FCAW/ SMAW system (907714001) shown.

LiveArc GMAW/FCAW system comes complete with
• SmartGun with 4.6 m (15 ft.) cable
• Calibration tool
• Two table clamps
• C-clamp assembly
• Removable arm extension for right- and left-hand applications
• Extra Bernard consumables

LiveArc GMAW/FCAW/SMAW system includes above plus
• SmartStinger with 3.7 m (12 ft.) cable
• Router box
• Software update for SMAW applications

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

Intuitive user interface

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

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

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

Stock Number | Input Power | Processes | Positions | Multi-Pass | Rated Output | Electrode Diameter | Computer | Monitor | Dimensions | Net Weight
---|---|---|---|---|---|---|---|---|---|---
(907714) LiveArc GMAW/FCAW system | 120 V, 60 Hz Compatible with Miller wire feed power sources | GMAW, GMAW-S, GMAW-P, FCAW-G | 2F-4F, 1G-4G | Groove and fillet up to 25 mm (1 in.) plate | SmartGun 400 A at 60% duty cycle (mixed gases) | SmartGun Up to 2.0 mm (5/64 in.) | Intel core i7, 128 GB SSD, fanless cooling, HDMI port supports most secondary monitors (not included) | 21.5 HD LCD touch screen display | H: 1,969 mm (77.5 in) | 218 kg (480 lb) | GMAW/FCAW system
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Only available at authorized training distributors!

LiveArc GMAW/FCAW/ SMAW system (907714001) shown.
### Automated MIG

For adapters and drive motors, visit MillerWelds.com.

#### Coolant Flow Switch

**195461**

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

### Cable Connectors and Adapters

**Also see Torch and Weld Cable Connectors in TIG Accessories.**

For AlumaFeed system, *Invision* 352 MPa, *XMT* 304/350, *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.

### Load Banks

**94**

### MIG Accessories

- **Machine and Gun Accessory Kits**
- **Protective Covers**

#### Plasma Cutter Accessories

- **95**
  - **Automation Kits**
  - **Cables and Cable Covers**
  - **Cutting Guides**
  - **Filters**
  - **Plugs and Cords**
  - **Protective Covers**
  - **Torches**

### Polarity Switches/Controls

**96**

### Remote Controls and Wireless Remote Controls

**96-98**

### Stick Accessory Kits

**96**

#### Submerged Arc Accessories

- **96**
  - **Cables**
  - **Torch Accessories**
  - **Wire Drive Assembly Accessories**

#### TIG Accessories

**97-98**

- **Kits**
- **Protective Covers**
- **Remote Controls**
- **Torch and Weld Cable Connectors**

### Wire Feeder Accessories

**99**

#### Extensions for Dinse-Style Cable Connectors

- **191981** Accepts #1/0 to #2/0 AWG cable. Kit includes one Tweco-style male plug which attaches to the work and/or weld cables and plugs into the Tweco-style receptacles on the power source.

#### Dinse/Tweco® Adapter

**042465**

- Dinse/Cam-Lok Adapter

**042466**

- One-piece adapter with Dinse-style male plug (to power source) on one end and Tweco or Cam-Lok female receptacle (for weld cable connection) on other end.

- **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

**91-92**

#### Coolant Systems

**92**

#### Engine Drive Accessories

**93-94**

#### MIG Accessories

**94**

- **Wire Drive Assembly Accessories**

#### Plasma Cutter Accessories

**95**

#### Remote Controls and Wireless Remote Controls

**96-98**

### Universal Cart and Cylinder Rack

**042934**

- For *Invision* 352 MPa, *XMT* 304/350, *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.

#### Running Gear / Cylinder Rack

**301239**

- For Millermatic 141/211, *Multimatic* and *Diversion*. Heavy-duty construction with 8-inch rubber rear wheels. Convenient front handles, cable holders and plastic consumable box. For gas cylinders no greater than 178 mm (7 in.) in diameter or 29.5 kg (65 lb.) in weight.

#### Dual Cylinder Rack Conversion Kit and Tool Holder

**301454**

- Converts Running Gear / Cylinder Rack (301239) from a single cylinder cart to a dual cylinder cart. Top bracket is able to hold a variety of tools including a welper, adjustable wrench, screwdrivers, shipping hammer, wire brush and filter rod.

#### 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. Gun and cable rack keeps cables off the floor and tangle free.

#### Elevated Gun and Cable Rack

**300335**

- For Millermatic 212 *Auto-Set* /252 and *Syncrowave* 210. For use with single-cylinder rack. (Included with Dual EZ-Change® Low Cylinder Rack.)

#### Dual Cylinder Rack

**195299**

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

See literature AY/7.2

### Coolmate™ 1.3 300972 120 V, CE

*For Maxstar 210/280 and Dynasty 210/280. Light industrial, 4.9 L (1.3 gal.) cooler designed for water-cooled torches on power sources rated up to 280 amps.*

### Coolmate™ 3 043007 120 V, CE 043008 240 V, CE

Economical, 11.4 L (3 gal.) cooler designed for water-cooled torches rated up to 500 amps.

### 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.*

### Coolmate™ 4 042288 120 V

Best performer in its class — industrial, 15 L (4 gal.) cooler designed for water-cooled torches rated up to 600 amps.

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Input Voltage</th>
<th>Maximum Current Draw</th>
<th>Maximum Cooling Capacity</th>
<th>IEC Cooling Capacity</th>
<th>Tank Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolmate 1.3, CE</td>
<td>115 V, 60 Hz</td>
<td>4.7 A (60 Hz)</td>
<td>3,400 W (11,000 Btu/hr)</td>
<td>1,330 W (4,540 Btu/hr)</td>
<td>4.9 L (1.3 gal.)</td>
<td>H: 296 mm (11.25 in.)</td>
<td>20 kg (43 lb.)</td>
</tr>
<tr>
<td>Coolmate 3, CE</td>
<td>115 V, 50/60 Hz</td>
<td>5.9 A (50 Hz), 4.7 A (60 Hz)</td>
<td>3,820 W (13,000 Btu/hr)</td>
<td>1,420 W (4,840 Btu/hr)</td>
<td>11.4 L (3 gal.)</td>
<td>H: 337 mm (13.25 in.)</td>
<td>18 kg (40 lb.)</td>
</tr>
<tr>
<td></td>
<td>230 V, 50/60 Hz</td>
<td>2.5 A (50 Hz), 3.0 A (60 Hz)</td>
<td>4.0 L (14,000 Btu/hr)</td>
<td>11 L/min. (1.1 qt./min.)</td>
<td></td>
<td>H: 584 mm (23.25 in.)</td>
<td></td>
</tr>
<tr>
<td>Coolmate 3.5, CE</td>
<td>115 V, 50/60 Hz</td>
<td>5.9 A (50 Hz), 4.7 A (60 Hz)</td>
<td>4,140 W (14,000 Btu/hr)</td>
<td>1,660 W (5,660 Btu/hr)</td>
<td>13.2 L (3.5 gal.)</td>
<td></td>
<td>29 kg (64 lb.)</td>
</tr>
<tr>
<td>Coolmate 4</td>
<td>115 V, 50/60 Hz</td>
<td>5.9 A (50 Hz), 4.7 A (60 Hz)</td>
<td>5,500 W (18,000 Btu/hr)</td>
<td>1,780 W (6,070 Btu/hr)</td>
<td>15 L (4 gal.)</td>
<td>H: 413 mm (16.25 in.)</td>
<td>17 kg (38 lb.)</td>
</tr>
</tbody>
</table>

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

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**Coolant**

Sold in multiples of four in 1-gallon recyclable plastic bottles. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -38°C (-37°Fahrenheit) or boiling to 108°C (227°Fahrenheit).

**Low-Conductivity Coolant (clear, pre-mixed) 043810**

For TIG and MIG applications. NOT for use in push-pull systems or systems where aluminum is in coolant path/circuit.

**Aluminum-Protecting Coolant (green, pre-mixed) 043809**

Primarily used in push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.
**Engine Drive Accessories**
*Also see Trailers.*

**Big Blue Accessories**

**Cable Holder**
43946
For Big Blue 500 Pro/600 Series/800 Series.

**Vandalism Lockout Kit**
399802 Field
For Big Blue 500 Pro/600 Series. Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.

**Blue Star Accessories**

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

**Running Gear**
301246
For Fusion and Blue Star. Compact and balanced, lightweight wheelbarrow-style running gear provides easy onsite mobility.

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

**Multi-Terrain Running Gear**
301460
For Bobcat Air Pak. Includes two heavy-duty Never Flat™ 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.

**Multi-Terrain Running Gear**
300913 Inner tubes
300914 Never Flat™ tires
For gas/LP Bobcat and Trailblazer (except Air Pak models). Includes two heavy-duty 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**
300909 Inner tubes
300910 Never Flat™ tires
For gas/LP Bobcat and Trailblazer (except Air Pak models). Includes four heavy-duty 381 mm (15 in.) tires and a rugged handle to provide maximum maneuverability.

**Gas Cylinder Mounting Assembly**
300918
For gas Bobcat and Trailblazer (except Air Pak models). Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.

**Remote Oil Drain and Filter Kit**
300923 Field
For gas/LP Bobcat and Trailblazer (except Air Pak models). Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite. Works with Running Gear, Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.

**Hose and LP Tank Mounting Assembly**
300917
For LP Bobcat. Designed for use with Running Gear, Protective Cage, or by itself. Includes bracket and clamp to mount 15 and 19.5 kg (33 and 43 lb.) tanks horizontally, and hose with fittings to converter.

**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.

**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.

**Protective Covers**

**Protective Covers (300919) and (195301) shown.**

**Protective Covers**
Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of the welder.
301245 For Fusion and Blue Star.
301475 For Bobcat 200 Air Pak without Running Gear.
301476 For Bobcat 200 Air Pak with Running Gear.
300919 For gas Bobcat and Trailblazer (except Air Paks) without Protective Cage or Running Gear.
300920 For gas Bobcat and Trailblazer (except Air Paks) with Protective Cage or Running Gear.
301099 For diesel Bobcat and Trailblazer without Protective Cage or Running Gear.
300379 For Trailblazer 302 Air Pak.
195301 For Big Blue 400 Pro/400 PipePro/450 Duo CST.
301495 For Big Blue 500 Pro/600 Pro with Kubota.
301113 For Big Blue 600 Air Pak/800 Series with Deutz.
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 902084
Designed to load test the output of transformer-type, engine- or motor-driven generator welding power sources. This unit can be used to test AC or DC welder outputs, and to demonstrate welding equipment to customers.

MIG Accessories

Machine and Gun Accessory Kits

Aluminum Conversion Kit 172136
For M-25 gun. Allows 3 m (10 ft.) guns to feed 1.2 mm (3/64 in.) aluminum wire.

Industrial MIG 4/0 Kit 300390
For single feeders.
300957 For dual 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 Connectors 300405
For single feeders.
300956 For dual feeders.
Same as above except weld and work cables have Dinse-style connector on one end instead of lug.

MIegrmatic™ M-Series Gun Consumable Kits

For M-100 and M-150 guns

234607 0.6 m (.023 in.) wire
234608 0.8 m (.030 in.) wire
234609 0.9 m (.035 in.) wire
For M-25 gun
234610 0.8 m (.030 in.) wire
234611 0.9 m (.035 in.) wire
234612 1.2 m (.045 in.) wire
M-100/M-150 kits include 10 contact tips, 1 tip adapter and 76 mm (3 in.) lunette eye in one reversible assembly.

M-25 kits add 1 nozzle adapter.

Protective Covers

301262 For Millermatic 141/211 and Multimatic 215.

Trailer accessories

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

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

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

2-in-1 Document/Fire Extinguisher Holder 301236
For HWY-Mid Frame and HWY-225. Stores documents and holds a 2.3 kg (5 lb.) fire extinguisher.

Note: Holder shown mounted on trailer. Fire extinguisher not included.

Trailers

See literature AY/20.0

HWY-Mid Frame Trailer 301438
For Bobcat, Trailblazer, and Big Blue 400 Pro/400 PipePro/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.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Gross Axle Weight Rating</th>
<th>Gross Vehicle Weight Rating</th>
<th>Net Payload</th>
<th>Height of Bed</th>
<th>Road Clearence</th>
<th>Track (Center to Center of tires)</th>
<th>Standard Tires (Standard Rating or P-size Rating)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWY-Mid Frame</td>
<td>726 kg (1,605 lb.)</td>
<td>646 kg (1,424 lb.)</td>
<td>646 kg (1,424 lb.)</td>
<td>485 mm (15.5 in.)</td>
<td>203 mm (8 in.)</td>
<td>1,168 mm (46 in.)</td>
<td>ST175/80D-13 Load Range C</td>
<td>L: 2,565 mm (101 in.) W: 1,397 mm (55 in.)</td>
<td>82 kg (181 lb.)</td>
</tr>
<tr>
<td>HWY-225</td>
<td>1,588 kg (3,500 lb.)</td>
<td>1,360 kg (2,999 lb.)</td>
<td>1,225 kg (2,700 lb.)</td>
<td>483 mm (19 in.)</td>
<td>191 mm (7.5 in.)</td>
<td>1,270 mm (50 in.)</td>
<td>ST175/80R-13 Load Range D</td>
<td>L: 2,680 mm (105.5 in.) W: 1,435 mm (65.5 in.)</td>
<td>127 kg (280 lb.)</td>
</tr>
<tr>
<td>4 West</td>
<td>907 kg/axle (2,000 lb./axle)</td>
<td>1,361 kg (3,000 lb.)</td>
<td>1,157 kg (2,550 lb.)</td>
<td>540 mm (21.25 in.)</td>
<td>203 mm (8 in.)</td>
<td>1,403 mm (55.25 in.)</td>
<td>BT8-13</td>
<td>L: 2,311 mm (91 in.) W: 1,556 mm (61.25 in.)</td>
<td>191 kg (420 lb.)</td>
</tr>
</tbody>
</table>

Dimensions:

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<thead>
<tr>
<th>Track Width (mm)</th>
<th>Track Length (m)</th>
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<tbody>
<tr>
<td>W: 1,556 mm</td>
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</table>

Height:

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<th>Bed Height (mm)</th>
<th>Bed Length (m)</th>
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<td>W: 1,556 mm</td>
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<tr>
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</tr>
<tr>
<td>W: 1,397 mm</td>
<td>L: 2,565 mm</td>
</tr>
</tbody>
</table>

Track (Center to Center of Tires):

<table>
<thead>
<tr>
<th>Track Width (mm)</th>
<th>Track Length (m)</th>
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</thead>
<tbody>
<tr>
<td>W: 1,556 mm</td>
<td>L: 2,311 mm</td>
</tr>
<tr>
<td>W: 1,435 mm</td>
<td>L: 2,680 mm</td>
</tr>
<tr>
<td>W: 1,397 mm</td>
<td>L: 2,565 mm</td>
</tr>
</tbody>
</table>

Standard Tires:

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<tr>
<th>Tire Size</th>
<th>Rating</th>
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<tbody>
<tr>
<td>ST175/80D-13</td>
<td>Load Range C</td>
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<tr>
<td>ST175/80R-13</td>
<td>Load Range D</td>
</tr>
<tr>
<td>215/80R-13</td>
<td>Load Range B</td>
</tr>
</tbody>
</table>

Standard Rating or P-size Rating:

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Rating</th>
</tr>
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<tbody>
<tr>
<td>ST175/80D-13</td>
<td>Load Range C</td>
</tr>
<tr>
<td>ST175/80R-13</td>
<td>Load Range D</td>
</tr>
<tr>
<td>215/80R-13</td>
<td>Load Range B</td>
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Standard Width and Length:

<table>
<thead>
<tr>
<th>Model</th>
<th>Width (m)</th>
<th>Length (m)</th>
</tr>
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<tbody>
<tr>
<td>HWY-Mid Frame</td>
<td>1,556 mm</td>
<td>2,311 mm</td>
</tr>
<tr>
<td>HWY-225</td>
<td>1,435 mm</td>
<td>2,680 mm</td>
</tr>
<tr>
<td>4 West</td>
<td>1,397 mm</td>
<td>2,565 mm</td>
</tr>
</tbody>
</table>
Plasma Cutter Accessories

Automation Kits

Automation Kit for Spectrum 375 X-TREME  301158
Upgrades quick-connect hand-held torch packages to add machine torch capabilities. Includes front panel with built-in remote control cable receptacle. Machine torches are NOT included in kits and must be ordered separately.

Automation 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.

Plasma Circle-Cutting Guides  253055
For XT30/XT30/XT40/XT60 torches. Cut straight lines or circles up to 305 mm (12 in.) in diameter.

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.

Cable Covers  239642 6.1 m (20 ft.)
231867 7.6 m (25 ft.)
231868 15.2 m (50 ft.)

Cutting Guides

Plasma Circle-Cutting Guides  253055
For XT30/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.

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).

For Spectrum 375 X-TREME, Millennium 211, Multimatic, Thunderbolt 160, Diversion, Syncrowave 210 and Fusion. Allows connection of machine to 115/120 V or 230/240 V receptacles without tools—just choose the plug that fits.

MVP® Adapters

254328
For connection to 6-50P receptacle (240 V, 50 A).

254330
For connection to 5-15P receptacle (120 V, 15 A).

254331
For connection to 5-20P receptacle (120 V, 20 A).

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

Protective Covers

Protective Cover  300388
For Spectrum 875.TM

X-CASE  300184
For Spectrum 375 X-TREME/625 X-TREME.
301429
For Maxstar 161 models.

Torches

See your Miller® distributor for complete information on the following XT plasma torches and their consumables:

Spectrum Plasma Cutter Machine Torches

For Spectrum 375 X-TREME 249949 3.7 m (12 ft.) XT30
For Spectrum 625 X-TREME 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 375 X-TREME/625 X-TREME
259305 7.6 m (25 ft.) short body XT40M
257462 7.6 m (25 ft.) short body XT40M
For Spectrum 875 and 875 Auto-Line
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.

Plasma Torch Consumable Kits

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

### Polarity Switches/Controls

**Polarity Control** 042871

This dual-function control is designed for use with dual wire feeders or any application where electrical isolation and/or polarity reversing of weld current is required. Both functions can be used at the same time.

**Process Selector Control** 042872

For CC, CV or CC/CV welding power source. Provides easy way to change welding process. Also includes features of Polarity Control.

### Remote Controls

*Also see Remote Controls in TIG Accessories.*

**PRHC-14 Hand Control** 195511

For all solid-state power sources after serial number JK674521. Complete current or voltage control brings 120 volts of GFCI power to work area in a single cord. Housed in a durable and light aluminum case and includes 38 m (125 ft.) cord with plugs.

**Remote On/Off Control** 242197025

Allows you to turn power source on or off from a distance of 7.6 m (25 ft.). This is useful if power source is up in a mezzanine.

### Stick Accessory Kits

**No. 2 Stick Cable Sets**

195196 4.6 m (15 ft.)

300836 15.2 m (50 ft.)

Consists of either 4.6 or 15.2 m electrode cable with holder and work cable with clamp. 200 A, 100% duty cycle.

**2/0 Stick Cable Set**

173851 15.2 m (50 ft.), 350 A

043952 30/15 m (100/50 ft.), 300 A

Consists of either 15.2 or 30 m 2/0 electrode cable with holder and 15.2 m work cable with clamp. 100% duty cycle.

**Weld Cables**

195457 2/0 cable with electrode holder, 400 A

195458 2/0 cable with work clamp, 400 A

301387 1/0 cable with electrode holder, 250 A

Consists of a stud/Tweco® adapter and 3 m (10 ft.) weld cable with a Tweco male connector and either an electrode holder or work clamp.

### Submerged Arc Accessories

#### Cables

**SubArc Control Cables**

260622030 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.)

260622200 61.0 m (200 ft.)

Cable between SubArc Interface or Motor Control and power source.

**Flux Hopper Extension Cables**

260623010 3 m (10 ft.)

260623025 7.6 m (25 ft.)

260623065 19.8 m (65 ft.)

Cable between SubArc Interface or Motor Control and flux hopper.

**Continuum Motor/Control Cables**

263368015 4.6 m (15 ft.)

263368020 6.1 m (20 ft.)

263368025 7.6 m (25 ft.)

263368050 15.2 m (50 ft.)

263368080 24.4 m (80 ft.)

263368100 30.5 m (100 ft.)

Cable between SubArc Motor Control and SubArc Remote Pendant.

**SubArc Parallel Cable**

260775015 4.6 m (15 ft.)

**SubArc Tandem Cable**

260878015 4.6 m (15 ft.)

### Wire Drive Assembly Accessories

**Drive Rolls**

132955 1.6 mm (1/16 in.)

132960 2.0 mm (5/64 in.)

132961 2.4 mm (3/32 in.)

132962 2.8 mm (7/64 in.)

132963 3.2 mm (1/8 in.)

193700 4.0 mm (5/32 in.)

193701 4.8 mm (3/16 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 Straighteners**

301160 Single adjustment

301162 Double/separate adjustment

For 1200-amp twin-wire torch only.

**Manual Single Slide** 301137

Provides smooth and accurate movement of the welding heads. Allows for 200 mm (7.87 inch) travel adjustment with load capacity of 100 kg (220 pounds) at 500 mm (1.64 feet). *Not recommended for tandem.*

**Wire Reel** 108008

Supports 27 kg (60 lb.) coil of wire. Requires Spool Support Assembly (119438).

### 2/0 Weld Cable Extensions

195456 15.2 m (50 ft.)

195455 30.5 m (100 ft.)

Extends weld cables (195457, 195458 and 301387).

### Torches

**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).

**OBT Torch Contact Tips**

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>OBT 600</th>
<th>OBT 1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6 mm (1/16 in.)</td>
<td>192701</td>
<td>199026</td>
</tr>
<tr>
<td>2.0 mm (5/64 in.)</td>
<td>192702</td>
<td>192142</td>
</tr>
<tr>
<td>2.4 mm (3/32 in.)</td>
<td>192703</td>
<td>200771</td>
</tr>
<tr>
<td>2.8 mm (7/64 in.)</td>
<td>192704</td>
<td>192143</td>
</tr>
<tr>
<td>3.2 mm (1/8 in.)</td>
<td>192705</td>
<td>192144</td>
</tr>
<tr>
<td>4.0 mm (5/32 in.)</td>
<td>192706</td>
<td>192136</td>
</tr>
<tr>
<td>4.8 mm (3/16 in.)</td>
<td>192707</td>
<td></td>
</tr>
</tbody>
</table>

**Flux Hopper Extensions**

195456 30.5 m (100 ft.)

2/0 Weld Cable Extensions

195455 15.2 m (50 ft.)

195458 30.5 m (100 ft.)
TIG Accessories

Kits

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

TIG Contractor Kit
301287 For Multimatic 200.
301337 For Multimatic 215.
Kit comes with Weldcraft™ A-150 TIG torch with Dinse-style connector, either a RFCS-6M foot control (Multimatic 200 kit) OR RFCS-RJ45 foot control (Multimatic 215 kit), flow gauge regulator with 3.7 m (12 in.) gas hose, and AK2C torch accessory kit.

Weldcraft® Water-Cooled Torch Kits
300185 250 A, W-250 (WP-20)
300090 280 A, W-280 (WP-280)
301268 375 A, W-375
300186 400 A, W-400 (WP-18SC)
For Maxstar (except 161 models), Dynasty, and Syncrowave 250 DX/350 LX. Kit comes with 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.

Protective Covers

Protective covers (300579) and (195478) shown.
301429 X-CASE for Maxstar 161 models.
300579 For Diversion.
301381 For Maxstar 210.
301382 For Maxstar 280 and Dynasty 210/280.
195320 For Syncrowave 250 DX/350 LX.
195478 For XMT 304/350.

Remote Controls

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.

RCC-6M (6-pin plug)
301118 4 m (13.25 ft.) cord with plug
For Maxstar 161 STL/STH and Multimatic 200.
RCC-14 (14-pin plug)
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.

RCCS-6M (6-pin plug)
195184 4 m (13.25 ft.) cord with plug
195503 8 m (26.5 ft.) cord with plug
For Maxstar 161 STL/STH and Multimatic 200.
RCCS-RJ45 (6-pin plug)
301146 4 m (13.25 ft.) cord with plug
For Diversion and Multimatic 215.
RCCS-14 (14-pin plug)
043688 8 m (26.5 ft.) cord with plug
North/south rotary-motion fingertip current/contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for applications that require a finer amperage control.

RHC-14 (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)
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.
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.
Wireless Remote Foot and Hand Controls

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

**Increases productivity, saves money, improves safety and easy to use.**

- Improves productivity and maneuverability by eliminating cord tangles. Reduces clean up time and work area cord clutter.
- Improves safety by eliminating control cord and reducing potential trip hazard.
- Improves reliability by eliminating control cord failure.
- Multiple frequency sharing allows up to 20 systems to operate in a 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.)

**Foot control**

Foot control is designed specifically for TIG welding in manufacturing, fabrication and plant applications, allowing operator to adjust amperage at point of use without the limitations of remote cord.

- **Auto on** feature extends the battery life up to 250 hours of welding without turning the pedal on and off.
- **Easy-Glide Wear Pads** glide across concrete, making it easy to reposition the pedal for comfort and speed.

*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.

**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 amperage and voltage while welding.

**TIG Accessories (continued)**

### Torch and Weld Cable Connectors

#### Air-Cooled TIG (GTAW) Torch Connectors

- **273483**
  - For Maxstar 161 and Multimatic.
  - 25 mm (small) Dinse-style gas thru for one-piece air-cooled torches.

- **194723** A-200 (WP26)
- **194722** All others
  - For Syncrowave 210, 50 mm Dinse-style gas thru for one-piece air-cooled torches.

- **195379** A-200 (WP26)
- **195378** All others
  - For CST, Maxstar 210/280/400, Dynasty 210/280/400, and Syncrowave 250 DX/350 LX.
  - 50 mm Dinse-style for one-piece air-cooled torches.

#### Water-Cooled TIG (GTAW) Torch Connectors

- **50 mm Dinse-Style Flow Thru 195380**
  - For Syncrowave 210. Used with all Weldcraft™ water-cooled torches.

- **50 mm Dinse-Style with Water Return Line 195377**
  - For Maxstar 210/280/400, Dynasty 210/280/400, and Syncrowave 250 DX/350 LX. Used with all Weldcraft™ water-cooled torches.

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

**Extension Cables (14-Pin)**

<table>
<thead>
<tr>
<th>8-Conductor Cables</th>
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<tbody>
<tr>
<td>242208025 7.6 m (25 ft.)</td>
<td></td>
<td></td>
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<tr>
<td>242208050 15.2 m (50 ft.)</td>
<td></td>
<td></td>
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<tr>
<td>242208080 24.4 m (80 ft.)</td>
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</tbody>
</table>

For XR-Control, SuitCase 12RC feeder, 20 Series feeders, and 70 Series (except MPa Plus) feeders. For 14-pin remote controls/24 VAC wire feeders. 14-pin plug to a 14-pin socket. (Not for 115-volt XR or 50 Series 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, MPa Plus feeders, and 60M feeders. Eleven conductors to support contactor control and remote voltage control on all Miller® electronic 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.)|                          |                          |
| 242205080 24.4 m (80 ft.)|                          |                          |

For HDC and WC-115 weld controls, XR Control prior to serial number KK309906, and 50 Series feeders. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

**Power Supply Adapter**

**PSA-2 Control** 141604

Required when using SuitCase 12RC, 20 Series, and 70 Series feeders with power sources having only 115-volt power available. Control is equipped with a 14-pin receptacle and a 3 m (10 ft.) interconnecting cable with Hubbell connections for older-style power sources. Can also be used with competitive power sources requiring a contact closure for contactor control.

**PSA-2 Extension Cord** 047813

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.

**WC-115A Weld Control**

137 546

Without contactor

137546011

With contactor

Operates on 115-volt power and designed primarily for constant-current DC power sources. Can also be used with constant-voltage power sources or DC engine drives supplying 115 volts. Used with a CC source, the control circuit functions in a voltage-sensing mode and with a CV source, it functions as a constant-speed circuit. Includes wire run-in and drive motor acceleration controls which ensure optimum arc starting performance.

**WC-24 Weld Control** 137549

For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Easily mounts on power source. Designed for use with Miller CV power sources with 14-pin receptacles and supplying 24 VAC.

**Spool Gun Extension Hose and Cable Kits**

132228 7.6 m (25 ft.)

132229 15.2 m (50 ft.)

For Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

**Turntable Assembly**

146236

Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

**Wire Straightener**

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

141581 For 1.6–3.2 mm (1/16–1/8 inch) wire.

**Engineered for Simplicity. Built for Durability.**

Design the perfect MIG guns for all your welds!

Improve welding productivity by choosing the neck length and angle, handle shape and trigger style that allows welders to comfortably and efficiently reach all your welds.

Plus, longer gun life and shared parts and consumables will help to simplify inventory and minimize costs across your shop.

**For additional information, please contact your local welding distributor.**

**To request a catalog, please call or complete our online request form.**

BernardWelds.com

1-855-MIGWELD (644-9353)