For more than 90 years, dedicated Miller employees in Appleton, Wisconsin, have put expertise, ingenuity and work ethic into everything we build. And because we listen to the people who use our equipment, we’re always creating new solutions to meet your needs.

Whether you weld to build a project, a business or a dream, you can depend on Miller products to get the job done right. Because we work the way you work.
When you work with a Miller distributor, you’re working with a valued partner. You can depend on their in-depth knowledge and assistance to select a perfect Miller solution — and their support throughout your product’s long lifetime of service. Visit MillerWelds.com to find a Miller distributor near you.
**ArcConnect™**  
Next generation communication that utilizes high-speed signals to improve weld performance and allow point-of-fuse controls to be located at the feeder. Found on the Deltaweld® Systems.

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

**Stick**  
- Maxstar®  
- CST™  
- Syncrowave®  
- Dynasty®  
- Spectrum®

**Power Shift**  
Provides single-phase stick weld capability with the engine shut off by plugging into 120- or 240-volt wall power. Ideal for indoor or noise-sensitive environments. Found on the Fusion engine drive.

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

**MIG**  
- Millermatic® 255  
- AlumaPower™ 350  
- Continuum™  
- Auto-Continuum™

**TIG**  
- Maxstar®  
- Syncrowave® 210  
- Dynasty®

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

**MIG**  
- Millermatic® (except 252)  
- Multimatic®

**TIG**  
- Syncrowave® 210

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

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

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

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

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

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

**MIG**  
- Millermatic® 211  
- 200/215  
- 220 AC/DC  
- Thunderbolt® 160

**TIG**  
- Diversion™  
- Syncrowave® 210  
- Fusion  
- Plasma cutters  
- Spectrum® 375/625

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**Miller is committed to bringing forward-thinking technologies and solutions to the welding industry.**

*We listen to your challenges and constantly seek to improve our products and services to better address them.*
Advanced welding processes

**Versa-Pulse™** is a fast, low-heat, low-spatter process designed for materials up to 6.4 mm (1/4 in.) and is great for gap filling.

**Accu-Pulse®** is better for out-of-position welds, provides higher deposition rates and has the most adaptive arc on 16 gauge and thicker materials.

**RMD® (Regulated Metal Deposition)** is a modified-short-circuit process with the lowest heat and limited travel speed. Designed to fill gaps in thin-material applications, it provides a higher quality root pass, a calm stable arc and less spatter.

Advanced welding processes are found on the following products:

- **MIG**
  - Deltaweld® 350/500 with Intellix™ Pro feeder (Accu-Pulse only)
  - Continuum™ Systems
  - Auto-Continuum™ Systems
- **Multiprocess (RMD only)**
  - XMT® 350 FieldPro models with ArcReach Smart Feeder
  - Pipeworx 400 System

Augmented reality welding

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

**ClearLight™ Lens Technology**


**Dynamic Dig™**

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

**Insight**

**Welding Intelligence™**

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

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

Insight Welding Intelligence is found on the following products:

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

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

**Auto-Speed™**

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

**Excel™ power**

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

**Fan-On-Demand™**

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

**InfoTrack™**

Data monitoring technology tracks arc time and features a clock. Version 2.0 adds arc count. Found on the T94™ and Digital Infinity™ welding helmets.

**ZoneFlow™ technology**

Extended-capture weld fume extraction technology extends the capture zone up to 1.5 m (5 ft.) deep and 1.2 m (4 ft.) wide (versus up to 457 mm (18 in.) from conventional source capture extractors). The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity.

Found on the FILTAIR® Capture 5, and select FILTAIR® SWX and 4000–12000 models.
Millermatic® 141 and 211

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

Millermatic 211

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

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

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.

**Table of Specifications**

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

Light industrial • CV DC 11

**Processes**

- MIG (GMAW) • Flux-cored (FCAW)

**Comes complete with**

- 3 m (10 ft) 100-amp MDX-100 MIG gun
- 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
Millermatic® 252

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Min. Diameter (ga.)</th>
<th>Max. Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>0.8 mm (22 ga.)</td>
<td>0.9 mm (14 ga.)</td>
</tr>
<tr>
<td>Aluminum</td>
<td>1.9 mm (14 ga.)</td>
<td>9.5 mm (3/8 in.)</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

Recommended aluminum solution
Spoolmatic 15A (195156) or 30A (130831).

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

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

Questions? Hobart is here to help.
Millermatic® 255

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

Millermatic 255 comes complete with
- 4.5 m (15 ft.) 250-amp MDX™-250 MIG gun with Bernard® AccuLock™ S consumables
- 3 m (10 ft.) work cable with clamp
- 3 m (10 ft.) industrial power cord
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Chain to secure gas cylinder
- .035/.045 in. reversible V-groove drive rolls
- Extra contact tips and material thickness gauge (229895)

Most popular accessories
- MDX™-250 EZ-Select™ MIG Gun 1770047
- Spoolmatic® Spool Guns
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns
- EZ-Latch™ Single Cylinder Running Gear 301449
- EZ-Latch™ Dual Cylinder Rack and Cable Holder 301481
- Protective Cover 301521

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

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

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

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

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

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

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

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

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

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

Heavy-duty aluminum two-drive-roll system.

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

Stock Number
(907734) 208–240 V

<table>
<thead>
<tr>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Power Source Dimensions</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20–350</td>
<td>230 A at 25.5 V, 60% duty cycle</td>
<td>44.0</td>
<td>39.5</td>
<td>9.5</td>
<td>7.2</td>
<td>1.3–20 m/min. (50–800 ipm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stainless 0.6–1.2 mm (.023–.045 in.)</td>
<td>W: 349 mm (13.75 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flux-cored 0.8–1.2 mm (.030–.045 in.)</td>
<td>D: 667 mm (26.25 in.)</td>
<td></td>
</tr>
</tbody>
</table>
Millermatic® 355

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

Auto-Set® Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.
- Available for MIG and pulsed MIG processes with the ability to fine-tune your settings
- Set weld parameters by selecting wire and gas type, wire diameter and material thickness

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

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

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

Heavy-duty aluminum four-drive-roll system.

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

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

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

Recommended aluminum solution XR-Aluma-Pro® push-pull gun.
AlumaFeed® Synergic Aluminum Welding System

See literature DC/34.0 or visit MillerWelds.com

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

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

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

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

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

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

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

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

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

### Models

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

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Power</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
<th>KW</th>
<th>KVA</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlumaPower 350 MPa</td>
<td>Three-phase</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4 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>
</tr>
<tr>
<td>AlumaPower 450 MPa</td>
<td>Three-phase</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>60.8 54.6 29.7 24.5 19.9</td>
<td>11.7</td>
<td>11.2</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

### Accessories

- XR™ Push-Pull Guns
- MIGRunner™ Cart 195445
- Coolmate™ 3 043007
- Coolmate 3 043810
- Industrial MIG 4/0 Kits
- 1.6 mm (1/16 in.) Drive Roll Kit for Control Box 195591
- For gun and feeder remote options, see literature DC/34.0 or visit MillerWelds.com

- XR™ Push-Pull MIG Gun
- XR™-Pistol Grip Push-Pull MIG Gun
- Coolmate
- MIGRunner cart
- Industrial MIG 4/0 Kits
- Coolmate
- MIGRunner cart
- XR™ Push-Pull MIG Gun
- XR™-Pistol Grip Push-Pull MIG Gun
- Coolmate
- MIGRunner cart
Deltaweld® Systems  See literature DC/16.5

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

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

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

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

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

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

Deltaweld® Power Sources

Two power source choices

- **Deltaweld 350** has auxiliary power standard and optional 14-pin receptacle and meters for use with legacy feeders.

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

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

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

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

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

Deltaweld 350 System MIGRunner with single-wire Intellx Pro feeder shown.
Intellx Wire Feeders

Dedicated wire feeder options

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

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

- User-friendly interface makes the system easy to set up and adjust with minimal training.
- Rotatable drive assembly allows operator to rotate the drive, eliminating severe bends in the wire feed path. This extends gun-liner life and aids in feeding difficult wires.
- Balanced-pressure drive-roll design and tensioners feed wire in its truest and straightest form for consistent feedability and better welding performance.

Intellx Pro Swingarc

Single- and dual-wire models with 3.7 or 4.9 m (12 or 16 ft.) booms are sized to accommodate a variety of weld cell layouts (7.3 or 9.8 m [24 or 32 ft.] diameter work area).

- Counterbend design makes it easy to position boom and 360-degree rotation and 60-degree lift angle maximize work area.
- In-boom cable routing organizes hoses and cables for a cleaner work environment.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Intellx</th>
<th>Intellx Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital meters</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Remote voltage</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Wire feed speed</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Arc control</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Trigger hold</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Wire jog and purge</td>
<td>●</td>
<td>●</td>
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<td>Four drive rolls</td>
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<td>●</td>
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<td>Rotatable drive</td>
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<td>●</td>
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<tr>
<td>Up to 60 lb. spoil</td>
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<td>●</td>
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<tr>
<td>MIG process</td>
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<td>●</td>
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<tr>
<td>Dual-wire models</td>
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<td>●</td>
</tr>
</tbody>
</table>

Intellx Pro Swingarc Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (m)</th>
<th>Weight (kg)</th>
<th>Dimensions (H x W x D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7 m</td>
<td>12 ft.</td>
<td>20.3</td>
<td>77 lb.</td>
</tr>
<tr>
<td>3.7 m</td>
<td>12 ft.</td>
<td>20.3</td>
<td>115 lb.</td>
</tr>
<tr>
<td>3.7 m</td>
<td>12 ft.</td>
<td>49.6</td>
<td>227 lb.</td>
</tr>
<tr>
<td>3.7 m</td>
<td>12 ft.</td>
<td>77 lb.</td>
<td></td>
</tr>
</tbody>
</table>

Input Power: 50 VDC Input Welding Circuit Rating: 600 A at 113 VDC, 60% duty cycle Wire Feed Speed: 1.3-19.8 m/min. (50-780 ipm) Wire Diameter Capacity: 0.6-2.0 mm (0.023-0.078 in.) Maximum Spool Size Capacity: 457 mm (18 in.) Dimensions (H x W x D): 413 x 314 x 708 mm (16.25 x 12.38 x 27.88 in.) Not Weight: 20.3 kg (44.8 lb.)
Invision™ MPa Plus System

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

- **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)

- **Recommended Aluminum Solution**
  - Dedicated XR Plus guns work with MPa Plus feeders to coordinate wire feed speed of the gun and the feeder. This provides optimized aluminum feeding and welding performance.

- **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.**
  - **Model/Stock Number**: Invision 352 MPa (907431), 50/60 Hz (907431001) with auxiliary power, 50/60 Hz, CE
  - **Rated Output**: 350 A at 34 VDC, 60% duty cycle
  - **Amp/Volt Ranges**: 5–425 A, 10–38 V
  - **Amps Input at Rated Load Output**: 36.1 at 230 V, 20.6 at 400 V, 17.8 at 460 V, 14.1 at 575 V
  - **KIA**: 14.2
  - **KVA**: 13.6
  - **Max. Open-Circuit Voltage**: 75 VDC
  - **Dimensions**: H: 432 mm (17 in.), W: 318 mm (12.5 in.), D: 610 mm (24 in.)
  - **Net Weight**: 36.3 kg (80 lb.)

- **Invision 450 model is compatible with 400 V, three-phase.**
  - **Model/Stock Number**: Invision 450 MPa (907485) 230/460 V with auxiliary power, 60 Hz (907524) 400 V with auxiliary power, 50/60 Hz, CE
  - **Rated Output**: 450 A at 36.5 VDC, 100% duty cycle
  - **Amp/Volt Ranges**: 15–600 A, 10–38 V
  - **Amps Input at Rated Load Output**: 49.4 at 230 V, 27.2 at 400 V, 23.6 at 460 V, 21.6 at 575 V
  - **KIA**: 21.6
  - **KVA**: 18.3
  - **Max. Open-Circuit Voltage**: 90 VDC
  - **Dimensions**: H: 438 mm (17.25 in.), W: 368 mm (14.5 in.), D: 689 mm (27.125 in.)
  - **Net Weight**: 55.3 kg (122 lb.)

- **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.**

- **Invision 352 MPa with S-74 MPa Plus feeder shown.**
Continuum™ Systems

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

More power — better reliability

Up to 26 percent more welding output (than competitive models) for demanding industrial applications.

Power source design

Smart and powerful digital design has the fast response needed to deliver the most stable welding performance for better welding results.

Flexible to meet current and future needs with integrated expansion capabilities.

Welding Intelligence™: Increase productivity, improve quality and manage costs with Insight Core™ (standard) and Insight Centerpoint™ (optional) welding information management systems.

Feeder design

Tru-Feed™ technology provides precise feeding operation for stable arc performance.

• Low-inertia motor provides faster response for the best arc starts with the least amount of spatter

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

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

---

### 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 301214 Dual 301199010 Dual, CE 301199 Single 301195010 Single, CE 301214 Dual 301199010 Dual, CE 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 301219 2.4 m (8 ft.) 301220 3.7 m (12 ft.) 301221 3.9 m (16 ft.)
- Pipe Post 149838 1.2 m (4 ft.) 149839 1.8 m (6 ft.)

---

**Continuum Processes**

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

**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.

---

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

---

**Model**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>(907563) 230-575 V Machine only</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907645) 400 V</td>
<td>(907760) 230-575 V w/running gear</td>
</tr>
<tr>
<td>CE</td>
<td>CE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>(907640) 230-575 V Machine only</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907648) 400 V</td>
<td>(907640001) 230-575 V w/running gear</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Single-wire model</th>
</tr>
</thead>
<tbody>
<tr>
<td>(301199) Dual-wire model, CE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(301199010) Dual-wire model, CE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Max Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 VDC</td>
<td>500 A at 100% duty cycle</td>
<td>Standard: 1.3-25.4 m/min. (50-1000 RPM)</td>
<td>0-2.0 mm (.035-5/64 in.)</td>
<td>457 mm (18 in.), 72 kg (60 lb.)</td>
<td>H: 351 mm (13.812 in.), Single W: 414 mm (16.312 in.), Dual W: 432 mm (17 in.), D: 754 mm (29.687 in.)</td>
<td>Single 19.5 kg (43 lb.) Dual 27.9 kg (61.5 lb.)</td>
</tr>
</tbody>
</table>
Auto-Continuum™ Systems

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

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

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

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

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

Easy communication from robot to power source. Designed for easy integration from robot to power source.

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 based welding information solution that reports real-time feedback solution to ensure consistent weld quality and actively detects a bad weld when it happens, reducing rework costs and improving quality

• Insight Centerpoint™ (optional) is an advanced, real-time feedback solution to ensure consistent weld quality and actively detects a bad weld when it happens, reducing rework costs and improving quality

Note: As the technological advances offered by Auto-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.

*While idling.
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 the NEW! merged website for Bernard and Tregaskiss at Tregaskiss.com

1-855-MIGWELD (644-9353)

Maximizing throughput. Minimizing costs.

Automated welding applications require flexible, repeatable solutions that maximize production uptime and throughput while minimizing costs. This is why industrial manufacturers rely on Tregaskiss and its proven track record of delivering reliable and resilient robotic and fixed automatic MIG welding guns, peripherals and consumables.
Wire Feeders

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

## Product Guide

<table>
<thead>
<tr>
<th>Wire Feeders</th>
<th><strong>Product Guide</strong></th>
<th><strong>Class:</strong> Light Industrial</th>
<th><strong>Capability:</strong> Designed for this process</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ArcReach® SuitCase® 8/12</strong></td>
<td>CC/CV</td>
<td>0.6–2.0 mm (.023–5/64 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>ArcReach® Smart Feeder</strong></td>
<td>ArcReach equipped</td>
<td>0.9–1.1 mm (.035–.045 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>SuitCase® 12RC</strong></td>
<td>CV</td>
<td>0.6–2.0 mm (.023–5/64 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>20 Series (Basic and Digital)</strong></td>
<td>CV</td>
<td>0.6–2.0 mm (.023–5/64 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>70 Series (74S/74D) Singles and Duals</strong></td>
<td>CV</td>
<td>0.6–3.2 mm (.023–1/8 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>70 Series (74 MPa Plus) Singles and Duals</strong></td>
<td>CV</td>
<td>0.6–2.0 mm (.023–5/64 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>70 Series Swingarc™ Singles and Duals</strong></td>
<td>CV</td>
<td>0.6–2.0 mm (.023–5/64 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>70 Series Remote Configurations Singles and Duals</strong></td>
<td>CV</td>
<td>0.6–2.0 mm (.023–5/64 in.)</td>
<td></td>
</tr>
</tbody>
</table>

### Wire Types
- Flux-cored
- Dual-shld
- Self-shld
- Hard
- Alum.

### Power Source Required
- CC/CV
- CV

### Wire Diameter Capacity
- 0.6–2.0 mm (.023–5/64 in.)
- 0.9–1.1 mm (.035–.045 in.)
- 0.6–3.2 mm (.023–1/8 in.)

### Special Features
- Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on basic model)
- Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on 74S models)
- XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires
- 8, 12 and 16 ft. booms, four drive rolls, adjustable weld control
- Control box, cables and wire drive motor assemblies for generic booms or fixed automation

### Typical Applications
- Construction, site fabrication, field maintenance
- Process piping, refinery, petrochemical, power plants, HVAC, water pipe
- Field maintenance, site fabrication
- Manufacturing, fabrication
- Heavy and light manufacturing, fabrication
- Heavy and light manufacturing, fabrication
- Heavy and light manufacturing, fabrication

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

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

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

### SuitCase Series Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>ArcReach 8</th>
<th>ArcReach 12</th>
<th>Smart</th>
<th>12RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote voltage control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital meters</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<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>
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</tr>
</tbody>
</table>

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

### Setting the standard for performance

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

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

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

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

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

### Unique and durable case

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

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

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

### Extreme reliability

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

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

**Gas inlet recessed into back of case** is protected from incidental contact by the weld cable, ensuring consistent and contaminant-free shielding gas delivery to the gun. **Double-filtered gas valve** helps keep dirt from clogging and affecting gas flow.
**ArcReach® SuitCase® 8 and 12 and ArcReach Smart Feeder**

See literature M/6.55

---

**ArcReach** Remote control of the power source without a cord. With an ArcReach SuitCase feeder and ArcReach power source you can change output voltage at the feeder, and save a trip to the power supply. No extra control cable to purchase, maintain, string or unstring — saving time and money.

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

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

**Additional features of ArcReach Smart Feeder**

Delivers excellent synergic RMD® and pulsed MIG welding up to 61 meters (200 ft.) away from the power source with no control cords — twice the distance previously possible. RMD and pulsed MIG welding permits procedures with one wire and one gas to eliminate process switch-over time. RMD and pulsed MIG processes also help reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

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

**Standard remote voltage control with a control cord.** For applications where the feeder is within 30.5 meters (100 ft.) of the power source and control cords are acceptable. Requires power source with 14-pin connector.

---

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>IP Rating</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcReach SuitCase 8 (301457)</td>
<td>203 mm (8 in.)</td>
<td>IP23</td>
<td>330 A at 60% duty cycle</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (0.023–0.052 in.)</td>
<td>203 mm (6 in.)</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>1.3 kg (2 lb.)</td>
</tr>
<tr>
<td>ArcReach SuitCase 12 (301456)</td>
<td>305 mm (12 in.)</td>
<td>IP23</td>
<td>425 A at 60% duty cycle</td>
<td>Actual range in CC mode is dependent on arc voltage applied</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (0.023–0.052 in.)</td>
<td>203 mm (6 in.)</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>1.3 kg (2 lb.)</td>
</tr>
<tr>
<td>ArcReach Smart Feeder (301177)</td>
<td>XMT 350 FieldPro or PipeWorx 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive</td>
<td>IP23</td>
<td>275 A at 60% duty cycle</td>
<td>0.9–1.1 mm (.035–.045 in.)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (0.023–0.052 in.)</td>
<td>203 mm (6 in.)</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>1.3 kg (2 lb.)</td>
</tr>
<tr>
<td>SuitCase 12RC (301121)</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>IP23</td>
<td>425 A at 60% duty cycle</td>
<td>1.3–17.8 mpm (50–700 ipm)</td>
<td>Solid wire Flux-cored 0.6–1.4 mm (0.023–0.052 in.)</td>
<td>203 mm (6 in.)</td>
<td>1.3–19.8 mpm (50–780 ipm)</td>
<td>1.3 kg (2 lb.)</td>
</tr>
</tbody>
</table>

**Suggested power sources**

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

**For ArcReach SuitCase 8 and 12**

- Dynasty® 280 DX Multiprocess
- Dimension® 650 / 650 ArcReach®
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series
- Big Blue® Series
- XMT® 350 FieldPro (ArcReach models only)
- Big Blue® Series
- Big Blue® Series
- XMT® 350 FieldPro (requires three-phase power)
- Trailblazer® Series
- Big Blue® Series
- Big Blue® Series
- XMT® 350 FieldPro (requires power source with 14-pin connector)
- Dimension® 650
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series
- Bernard® Guns

**Most popular accessories**

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

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**Note:** DC power sources. See spec chart below for Smart Feeder requirements.

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### Language: English

**Processes**

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

**Suggested power sources**

For ArcReach SuitCase 8 and 12

- Dynasty® 280 DX Multiprocess
- Dimension® 650 / 650 ArcReach®
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series

For ArcReach Smart Feeder

- XMT® 350 FieldPro (requires three-phase power)
- Trailblazer® Series
- Big Blue® Series

**Suggested guns**

- Bernard® Guns

**Most popular accessories**

- Extension Cables (for SuitCase 12RC only, 1 required)
- Flowmeter Kit 300343
- Shielding Gas Filter 195189
- Dirse 70 Series 134460 Male 136600 Female
Designed for manufacturing, our popular bench feeders are available in two series with multiple models to fit your needs.

Feeders include a 3 m (10 ft.) interconnecting cord.

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

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

**20 Series Industrial Bench Feeders**

**70 Series Heavy-Industrial Bench Feeders**

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

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

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

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

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

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

Additional features for 70 Series feeders

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

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

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

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

Standard Optional Field option.

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

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

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

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

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

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

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

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

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

Adjustable run-in control for improved arc starts.

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

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

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

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

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

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

Accu-Mate™ properly seats the MIG gun power pin for proper seating.

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

Recommended aluminum solution.

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

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

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

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

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

**Note:** See literature M/3.0 for additional information.

<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>
</tr>
</thead>
<tbody>
<tr>
<td>70 Series</td>
<td></td>
<td>24 VAC, 3.5 A, 50/60 Hz</td>
<td>0.6-2.0 mm (.023-5/64 in.)</td>
<td>27 kg (60 lb.) coil with optional wire reel assembly (108008)</td>
<td>H: 406 mm (16 in.) W: 314 mm (12.375 in.) D: 708 mm (27.875 in.)</td>
<td>D: 889 mm (35 in.) W: 533 mm (21 in.) H: 356 mm (14 in.)</td>
<td>21 kg (46 lb.)</td>
</tr>
<tr>
<td>74D MPa Plus</td>
<td></td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>0.6-3.2 mm (.023-1/8 in.)</td>
<td>7 kg (60 lb.) coil with optional wire reel assembly (108008)</td>
<td>H: 356 mm (14 in.) W: 318 mm (12.5 in.) D: 711 mm (28 in.)</td>
<td>D: 711 mm (28 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>26 kg (58 lb.)</td>
</tr>
<tr>
<td>74S MPa Plus</td>
<td></td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>0.9-1.6 mm (.035-1/16 in.)</td>
<td>7 kg (60 lb.) coil with optional wire reel assembly (108008)</td>
<td>H: 356 mm (14 in.) W: 318 mm (12.5 in.) D: 711 mm (28 in.)</td>
<td>D: 711 mm (28 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>39.5 kg (87 lb.)</td>
</tr>
</tbody>
</table>

<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>
</tr>
</thead>
<tbody>
<tr>
<td>20 Series</td>
<td>Basic (301495), CE Digital (301499001), CE</td>
<td>24 VAC, 3.5 A, 50/60 Hz</td>
<td>0.6-2.0 mm (.023-5/64 in.)</td>
<td>27 kg (60 lb.) coil with optional wire reel assembly (108008)</td>
<td>H: 406 mm (16 in.) W: 314 mm (12.375 in.) D: 708 mm (27.875 in.)</td>
<td>D: 889 mm (35 in.) W: 533 mm (21 in.) H: 356 mm (14 in.)</td>
<td>21 kg (46 lb.)</td>
</tr>
<tr>
<td>70 Series</td>
<td>S-74S (300616), CE S-74D (300617), CE S-74S (300617001) w/high speed motor, CE S-74 MPa Plus (300577), CE</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>0.6-3.2 mm (.023-1/8 in.)</td>
<td>7 kg (60 lb.) coil with optional wire reel assembly (108008)</td>
<td>H: 356 mm (14 in.) W: 318 mm (12.5 in.) D: 711 mm (28 in.)</td>
<td>D: 711 mm (28 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>26 kg (58 lb.)</td>
</tr>
<tr>
<td>74D MPa Plus</td>
<td>D-74S (300619), CE D-74D (300629), CE D-74 MPa Plus (300578), CE</td>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>0.9-1.6 mm (.035-1/16 in.)</td>
<td>7 kg (60 lb.) coil with optional wire reel assembly (108008)</td>
<td>H: 356 mm (14 in.) W: 318 mm (12.5 in.) D: 711 mm (28 in.)</td>
<td>D: 711 mm (28 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>39.5 kg (87 lb.)</td>
</tr>
</tbody>
</table>

Optional Push-Pull Gun

(For MPa Plus feeders only)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>XR-Aluma-Pro Plus (Air-cooled)</td>
<td>(301575)</td>
<td>–</td>
<td>300 A at 100% duty cycle</td>
<td>Aluminum* 0.8-1.6 mm (.030-1/16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>D: 708 mm (27.875 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>1.1 kg (2.4 lb.)</td>
</tr>
<tr>
<td>XR-Aluma-Pro Plus (Water-cooled)</td>
<td>(301576), CE</td>
<td>–</td>
<td>400 A at 100% duty cycle</td>
<td>Aluminum* 0.8-1.6 mm (.030-1/16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>D: 708 mm (27.875 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>1.3 kg (2.9 lb.)</td>
</tr>
<tr>
<td>XR-Pistol Plus (Air-cooled)</td>
<td>(300753)</td>
<td>–</td>
<td>200 A at 100% duty cycle</td>
<td>Aluminum* 0.8-1.6 mm (.030-1/16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>D: 708 mm (27.875 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>1 kg (2.2 lb.)</td>
</tr>
<tr>
<td>XR-Pistol Plus (Water-cooled)</td>
<td>(300754)</td>
<td>–</td>
<td>400 A at 100% duty cycle</td>
<td>Aluminum* 0.8-1.6 mm (.030-1/16 in.)</td>
<td>H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)</td>
<td>D: 708 mm (27.875 in.) W: 314 mm (12.375 in.) H: 356 mm (14 in.)</td>
<td>1.1 kg (2.4 lb.)</td>
</tr>
</tbody>
</table>
Wire Feeders

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.

<table>
<thead>
<tr>
<th>Single-wire control box</th>
<th>Motor control cable</th>
<th>Wire drive motor assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>300881 S-74S, CE</td>
<td>Standard: 11 conductor MPa Plus: 14 conductor</td>
<td>300904 Standard left-hand drive, CE</td>
</tr>
<tr>
<td>300882 S-74D, CE</td>
<td></td>
<td>300740001 MPa Plus left-hand drive, CE</td>
</tr>
<tr>
<td>300738001 S-74 MPa Plus, CE</td>
<td></td>
<td>MPa Plus drive can be used with push-only guns, or XR-Auma-Pro Plus and Pistol Plus push-pull guns.</td>
</tr>
</tbody>
</table>

Push-only wire drive motor assembly

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

Dual-wire control box

300886 D-74S, CE
300887 D-74D, CE
300739 D-74 MPa Plus, CE

Wire drive motor assembly

300904 Standard left-hand drive, CE
300740001 MPa Plus left-hand drive, CE
MPa Plus drive can be used with push-only guns, or XR-Auma-Pro Plus and Pistol Plus push-pull guns.

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.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<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>D-74S</td>
<td>SS-74MPa Plus-12</td>
<td>2.4 m (8 ft.) (300518)</td>
<td>S-74S (300881), CE</td>
<td>DS-74S</td>
<td>2.4 m (8 ft.) (300521)</td>
<td>D-74S (300887), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74DX12</td>
<td>2.4 m (8 ft.) (300518)</td>
<td>S-74D (300882), CE</td>
<td>DS-74DX8</td>
<td>2.4 m (8 ft.) (300521)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74MPa Plus-16</td>
<td>2.4 m (8 ft.) (300818)</td>
<td>S-74MPa Plus (300738), CE</td>
<td>DS-74MPa Plus-8</td>
<td>2.4 m (8 ft.) (300521)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74S</td>
<td>2.4 m (8 ft.) (300518)</td>
<td>S-74S (300881), CE</td>
<td>DS-74S</td>
<td>2.4 m (8 ft.) (300521)</td>
<td>D-74S (300887), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74DX8</td>
<td>2.4 m (8 ft.) (300518)</td>
<td>S-74D (300882), CE</td>
<td>DS-74DX8</td>
<td>2.4 m (8 ft.) (300521)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74MPa Plus-8</td>
<td>2.4 m (8 ft.) (300818)</td>
<td>S-74MPa Plus (300738), CE</td>
<td>DS-74MPa Plus-8</td>
<td>2.4 m (8 ft.) (300521)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74S Plus-12</td>
<td>3.7 m (12 ft.) (300519)</td>
<td>S-74S (300881), CE</td>
<td>DS-74S</td>
<td>3.7 m (12 ft.) (300522)</td>
<td>D-74S (300887), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74DX12</td>
<td>3.7 m (12 ft.) (300519)</td>
<td>S-74D (300882), CE</td>
<td>DS-74DX12</td>
<td>3.7 m (12 ft.) (300522)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74MPa Plus-16</td>
<td>3.7 m (12 ft.) (300819)</td>
<td>S-74MPa Plus (300738), CE</td>
<td>DS-74MPa Plus-12</td>
<td>3.7 m (12 ft.) (300522)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74S Plus-8</td>
<td>4.9 m (16 ft.) (300520)</td>
<td>S-74S (300881), CE</td>
<td>DS-74S</td>
<td>4.9 m (16 ft.) (300523)</td>
<td>D-74S (300887), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74DX16</td>
<td>4.9 m (16 ft.) (300520)</td>
<td>S-74D (300882), CE</td>
<td>DS-74DX16</td>
<td>4.9 m (16 ft.) (300523)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
<tr>
<td></td>
<td>SS-74MPa Plus-16</td>
<td>4.9 m (16 ft.) (300820)</td>
<td>S-74MPa Plus (300738), CE</td>
<td>DS-74MPa Plus-16</td>
<td>4.9 m (16 ft.) (300523)</td>
<td>D-74MPa Plus (300739), CE</td>
</tr>
</tbody>
</table>

Heavy industrial • CV DC

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 1.2 m (4 ft.) 149839 1.8 m (6 ft.)
- Single/Dual Spool Carrier (pipe post not included) 300353 For 1.2 m (4 ft.) post 300352 For 1.8 m (6 ft.) post Designed to put spool hub assembly at 914 mm (36 in.) from base for easier wire spool installation.

Wire Drive

Suggested power sources/guns
- Same as 70 Series

Most popular accessories
- Bernard™ BTB Gun
- Push-only wire drive motor assembly and wire drive motor assembly
- Single/Dual Spool Carrier
- In-boom cable routing
- Dual-wire control box
- Motor control cable
- Motor control cable
- Wire drive motor assembly

In-boom cable routing maximizes work area.

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.

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Wire Speed</th>
<th>Wire Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VAC, 10 A, 50/60 Hz</td>
<td>1.3 - 19.8 m/min. (50-780 IPM) Optional High Speed: 2.3 - 36.6 m/min. (92-1435 IPM)</td>
<td>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.</td>
<td>27 kg (60 lb.) coil</td>
</tr>
</tbody>
</table>
MIGmatic™ M-Series MIG Guns
See literature AV/15.0

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

AccuLock™ MDX™ Conversion Kit 1880269
Kit features a conversion diffuser to consolidate MIG nozzles and contact tips to AccuLock MDX. Includes diffuser (1070115), 12.7 mm (1/2 in.) flush nozzle (NS-M1200C), five 0.8 mm (.030 in.) contact tips (T-M030), five 0.9 mm (.035 in.) contact tips (T-M035) and a consumables storage box.

**Product Guide**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Cable Length</th>
<th>Rated Output</th>
<th>Rated Duty Cycle</th>
<th>Wire Diameter Capacity</th>
<th>Available Cable Lengths</th>
<th>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-100</td>
<td>(248282)</td>
<td>3 m (10 ft.)</td>
<td>100 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.6-1.2 mm (.023-.045 in.)</td>
<td>10 ft.</td>
<td>Light industrial steel fabrication</td>
</tr>
<tr>
<td>M-150</td>
<td>(249041)</td>
<td>4.6 m (15 ft.)</td>
<td>150 A</td>
<td>100% with CO₂ gas, 60% with mixed gas</td>
<td>0.6-1.2 mm (.023-.045 in.)</td>
<td>15 ft.</td>
<td>Light industrial steel fabrication</td>
</tr>
</tbody>
</table>

**Light industrial ●**

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

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

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

Allows MIGmatic M-100 and M-150 MIG guns to upgrade to AccuLock™ MDX™ nozzles and tips
MDX™ Series MIG Guns See literature AV/15.5

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

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

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

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

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

MDX™ Series MIG Guns Consumable Kits

For MDX-100 with AccuLock MDX
1880272 0.6 mm (.023 in)
1880273 0.8 mm (.030 in)
1880274 0.9 mm (.035 in)

For MDX-250 with AccuLock MDX
1880275 0.8 mm (.030 in)
1880276 0.9 mm (.035 in)
1880277 1.2 mm (.045 in)

For MDX-250 EZ-Select with AccuLock S
1880276 0.9 mm (.035 in)
1880277 1.2 mm (.045 in)

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

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

**Spoolmate 100**

See literature M/1.45

Light industrial gun for 4043 series aluminum wire rated at 135 amps at 30 percent duty cycle.

3.7 m (12 ft.) direct-connect cable with heavy-duty strain relief provides extended reach and accessibility to your work.

Dual V-knurled drive rolls with adjustable tension control for consistent feeding of different types of wire.

Clear spool canister protects the wire and allows easy view of spool. Includes carrying case, extra contact tips and nozzle.

**Spoolmate 150**

See literature M/1.46

Light industrial gun for 4000 or 5000 series aluminum wire rated at 150 amps at 60 percent duty cycle.

6 m (20 ft.) direct-connect cable with heavy-duty strain relief provides extended reach and accessibility to your work.

Heavy-duty head tube.

Dual V-knurled drive rolls with adjustable tension control for consistent feeding of different types of wire.

Clear spool canister protects the wire and allows easy view of spool.

**Spoolmate 200**

See literature M/1.47

Light industrial gun for 4000 or 5000 series aluminum wire rated at 160 amps at 60 percent duty cycle.

6 m (20 ft.) weld/control cables with strain relief and sheath provide extended reach and accessibility to your work.

Wire feed speed adjustment on the gun — not machine — for easy setup.

Easy access to drive assembly and drive rolls.

Two-stage trigger with built-in gas valve allows for gas preflow/postflow.

Toolless head tube removal allows easy replacement. Comes standard with heavy-duty head tube. Three optional head tubes available.

**Spoolmate 3035**

See literature M/1.5

Light industrial gun for 4000 or 5000 series aluminum wire rated at 150 amps at 60 percent duty cycle.

6 m (20 ft.) weld/control cables with strain relief and sheath provide extended reach and accessibility to your work.

Light weight and well balanced for operator comfort.

Clear spool canister protects the wire and allows easy view of spool.

Easy-to-remove head tube assembly.

<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 (300371)</td>
<td>135 A at 30% duty cycle</td>
<td>1.1-1.5 m/min. (6-25 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>W: 201 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 (301272)</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 0.8–0.9 mm (0.030–0.035 in.) Stainless 0.8–0.9 mm (0.030–0.035 in.)</td>
<td>102 mm (4 in.)</td>
<td>W: 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 (300457)</td>
<td>160 A at 60% duty cycle</td>
<td>1.8-22.2 m/min. (70–875 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>W: 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 3035 (195016)</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>W: 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 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.

---

### Spoolmatic

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Current Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Type and Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Gun Only Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoolmatic (195156) 4.5 m (15 ft.) cable (130831) 9 m (30 ft.) cable</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–22.2 m/min. (70–875 ipm) Wire speed dependent on control or Millermatic used</td>
<td>Aluminum* 0.8–1.6 mm (.030–1/16 in.)</td>
<td>102 mm (4 in.)</td>
<td>H: 260 mm (10.25 in.) W: 64 mm (2.5 in.) L: 384 mm (15.125 in.)</td>
<td>1.3 kg (2.9 lb.)</td>
</tr>
<tr>
<td>Spoolmatic Pro (301147) 4.5 m (15 ft.) cable (301148) 9 m (30 ft.) cable</td>
<td>200 A at 100% duty cycle</td>
<td>1.8–23 m/min. (70–900 ipm) Wire speed dependent on control or Millermatic used</td>
<td>Aluminum* 0.8–1.1 mm (.030–.045 in.)</td>
<td>H: 273 mm (10.75 in.) W: 64 mm (2.5 in.) L: 390 mm (15.375 in.)</td>
<td>1.4 kg (3.0 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

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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.

---

**Model** | **Cable Length** | **Welding Current Rating** | **Wire Feed Speed** | **Wire Type and Diameter Capacity** | **Dimensions** | **Gun Only Net Weight**
---|---|---|---|---|---|---
XR-Aluma-Pro Lite (Air-cooled) | 4.6 m (15 ft.) | 175 A at 60% duty cycle | 1.8–23 m/min. (70–900 ipm) | Aluminum 0.8–1.2 mm (.030–.047 in.) | H: 102 mm (4 in.) | 0.9 kg (2.0 lb.)
| 7.6 m (25 ft.) | | | | W: 48 mm (1.9 in.) | L: 381 mm (15 in.)
| 9 m (30 ft.) | | | | | |
| 10.6 m (35 ft.) | | | | | |
XR-Aluma-Pro (Air-cooled) | (301568) | 300 A at 100% duty cycle | 1.8–23 m/min. (70–900 ipm) | Aluminum 0.8–1.6 mm (.030–1/16 in.) | H: 127 mm (5 in.) | 1.1 kg (2.5 lb.)
| (301569) | (301570) | | | | |
| XR-Aluma-Pro (Water-cooled) | (301571), CE | 400 A at 100% duty cycle | 1.8–22.2 m/min. (70–875 ipm) | Aluminum 0.8–1.6 mm (.030–1/16 in.) | H: 177 mm (7.375 in.) | 1.1 kg (2.2 lb.)
| (301572), CE | (301573), CE | | | | |
| XR-Pistol (Air-cooled) | (198127), CE | 200 A at 100% duty cycle | 1.8–22.2 m/min. (70–875 ipm) | Aluminum 0.8–1.6 mm (.030–1/16 in.) | H: 187 mm (7.375 in.) | 1.1 kg (2.2 lb.)
| (198128), CE | (198130), CE | | | | |
| XR-Pistol (Water-cooled) | (198129), CE | 400 A at 100% duty cycle | 1.8–23 m/min. (70–900 ipm) | Aluminum 0.8–1.6 mm (.030–1/16 in.) | H: 270 mm (10.625 in.) | 1 kg (2.2 lb.)
| XR-Pistol Pro (Air-cooled) | (300782) | 200 A at 100% duty cycle | 1.8–23 m/min. (70–900 ipm) | Aluminum 0.8–1.6 mm (.030–1/16 in.) | H: 187 mm (7.375 in.) | 1.1 kg (2.2 lb.)
| (300783) | (300784) | | | | |
| XR-Pistol-Pro (Water-cooled) | (300786) | 400 A at 100% duty cycle | 1.8–23 m/min. (70–900 ipm) | Aluminum 0.8–1.6 mm (.030–1/16 in.) | H: 270 mm (10.625 in.) | 1 kg (2.2 lb.)
| (300787) | (300788) | | | | |

*Dependent on control box or Millermatic used. **Requires wire kit (230708) to run 1.6 mm (1/16 in.) wire.
## Multimatic® 200 and 215

**Welding Capability**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Model</th>
<th>Voltage</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Wire Feed Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimatic 200 (907518)</td>
<td>CV: MIG/flux-cored</td>
<td>120 V</td>
<td>30–140</td>
<td>90 A at 18.5 V, 60% duty cycle</td>
<td>18.0 – 2.2 – 2.0</td>
<td>1.8–10.8 m/min. (70–425 ipm)</td>
</tr>
<tr>
<td></td>
<td>CC: TIG</td>
<td>120 V</td>
<td>5–150</td>
<td>150 A at 16 V, 30% duty cycle</td>
<td>27.0 – 3.3 – 3.2</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>CC: Stick</td>
<td>120 V</td>
<td>20–100</td>
<td>100 A at 24 V, 35% duty cycle</td>
<td>24.0 – 2.9 – 2.8</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20–150</td>
<td>150 A at 26 V, 30% duty cycle</td>
<td>–</td>
<td>20.8 – 4.8 – 4.5</td>
<td>–</td>
</tr>
<tr>
<td>Multimatic 215 (907693)</td>
<td>CV: MIG/flux-cored</td>
<td>120 V</td>
<td>30–125</td>
<td>110 A at 19.5 V, 60% duty cycle</td>
<td>23.0 – 2.8 – 2.8</td>
<td>1.5–15.2 m/min. (60–600 ipm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>240 V</td>
<td>30–230</td>
<td>200 A at 24 V, 20% duty cycle</td>
<td>–</td>
<td>58 VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>240 V</td>
<td>20–210</td>
<td>190 A at 17.6 V, 20% duty cycle</td>
<td>18.0 – 6.7 – 6.7</td>
</tr>
<tr>
<td></td>
<td>CC: TIG</td>
<td>120 V</td>
<td>20–150</td>
<td>140 A at 15.6 V, 40% duty cycle</td>
<td>24.6 – 3.0 – 3.0</td>
<td>58 VDC</td>
</tr>
<tr>
<td></td>
<td>CC: Stick</td>
<td>120 V</td>
<td>30–100</td>
<td>90 A at 23.6 V, 40% duty cycle</td>
<td>22.7 – 2.7 – 2.7</td>
<td>D: 521 mm (20.5 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>240 V</td>
<td>30–200</td>
<td>190 A at 27.6 V, 20% duty cycle</td>
<td>–</td>
</tr>
</tbody>
</table>

**Light industrial**

- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra MIG contact tips, information/settings chart and material thickness gauge (229985) – Hobart® spool of 0.8 mm (.030 in.) solid wire and 0.8/0.9 mm (.030/.035 in.) flux-cored wire

**Most popular accessories**

- Spoolmate® Spool Guns 300371 Spoolmate 100 301272 Spoolmate 150
- Running Gear/Cylinder Rack 301239
- Protective Cover 301262 (for Multimatic 215 only)
- TIG Contractor Kits 301287 For Multimatic 200 301337 For Multimatic 215

**Processes**

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

**Comes complete with**

- 3 m (10 ft.) 250-amp MDX™-250 MIG gun (Multimatic 200) or 3 m (10 ft.) 100-amp MDX™-100 MIG gun (Multimatic 215)
- 4 m (13 ft.) cable with electrode holder and 25 mm Dinse-style connector
- 3 m (10 ft.) work cable with clamp and 25 mm Dinse-style connector
- Power cord with MVP plugs for 120 V and 240 V
- 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

**Multimatic® Elite**

- Designed for professional multi-process welding
- Offers unparalleled arc characteristics and a range of arc voltages

**Multimatic® 200 and 215**

- Weighing only 13 kg (29 lb.) (200) or 17 kg (38 lb.) (215), these lightweight MIG, stick and TIG welders provide portability on the job.
- Impact-resistant, flame-retardant case (200 only) provides strength and durability, while protecting components and welding wire from moisture, dust and other contaminants.
- Auto-Set™ Elite can be used on multiple materials and multiple processes with the ability to fine-tune your settings. Easy to set up and use!
- Excellent arc characteristics! Positive arc 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.

**Intuitive color LCD interface**

- Makes it quick and easy to adjust parameters.
- Angled cast-aluminum drive system provides smooth feeding and the ability to use 3, 3.7 or 4.6 m (10, 12 or 15 ft.) guns.

**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.
Multimatic® 220 AC/DC

See literature DC/12.65

Welding Capability

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

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

Innovative QuickTech™ technology makes setup and changing processes even easier.

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

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

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

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

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

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

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

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

---

**Processes**

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

**Comes complete with**

- 3 m (10 ft.) 100-amp MDX™-100 MIG gun
- 4 m (13 ft.) cable with electrode holder and 25 mm Dinse-style connector
- 3.8 m (12.5 ft.) Weldcraft™ A-150 (WP-17) TIG torch with 25 mm Dinse-style connector
- 3 m (10 ft.) work cable with clamp and 25 mm Dinse-style connector
- 2 m (6.5 ft.) power cord with MVP plugs for 120 V and 240 V
- RFCS-14 HD foot control with 6 m (20 ft.) cord
- Quick Select™ drive roll for 0.6 mm (.024 in.) or 0.8/0.9 mm (.030/.035 in.) solid wire, and 0.8/0.9 mm (.030/.035 in.) flux-cored wire
- Two flow gauge regulators and gas hoses for argon or Ar/CO₂ mix, extra contact tips, Hobart® spool of .030 in. solid wire, AK2C TIG torch accessory kit, hook-and-loop cord wraps and material thickness gauge (229895)

**Most popular accessories**

- Spoolmate™ Spool Guns 300371 Spoolmate 100 301272 Spoolmate 150
- Dual Cylinder Rack Cart
- Protective Cover 301524
- Wireless Remote Foot Control 300429
- Running Gear Cylinder Rack 301239
- Dual Cylinder Rack Conversion Kit 301454

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**Stock Number (907757)**

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Welding Mode/Process</th>
<th>Input Power</th>
<th>Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CV: MIG/flux-cored</td>
<td>120 V</td>
<td>30–125 A</td>
<td>105 A at 19.2 V, 60% duty cycle</td>
<td>23.3 – 2.8 2.8</td>
</tr>
<tr>
<td></td>
<td>240 V</td>
<td>30–230 A</td>
<td>200 A at 24 V, 20% duty cycle</td>
<td>– 27.2 4.8 4.8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 A at 24 V, 20% duty cycle</td>
<td>– 21.5 3.8 3.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC: TIG</td>
<td>120 V</td>
<td>20–140 A</td>
<td>130 A at 15.2 V, 40% duty cycle</td>
<td>24.0 – 2.9 2.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>240 V</td>
<td>20–210 A</td>
<td>210 A at 18.4 V, 20% duty cycle</td>
<td>– 22.4 5.4 5.4</td>
</tr>
<tr>
<td></td>
<td>CC: Stick</td>
<td>120 V</td>
<td>30–90 A</td>
<td>90 A at 23.6 V, 40% duty cycle</td>
<td>24.5 – 2.9 2.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>240 V</td>
<td>30–200 A</td>
<td>200 A at 28.4 V, 15% duty cycle</td>
<td>– 31.3 7.5 7.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wire Feed Speed</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H: 445 mm (17.5 in.)</td>
<td>W: 298 mm (11.25 in.)</td>
</tr>
<tr>
<td>1.5–15.2 m/min.</td>
<td>45 VDC</td>
<td>25.3 kg (55 lb.)</td>
<td></td>
</tr>
<tr>
<td>20 ft.</td>
<td>46 VDC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Light Industrial**
Multimatic® 235

Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel</td>
<td>0.6</td>
<td>6.4</td>
</tr>
<tr>
<td>Aluminum</td>
<td>1.2</td>
<td>9.5</td>
</tr>
</tbody>
</table>

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

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

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

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

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

Manual mode offers additional stick and TIG adjustments for increased control including adjustable DIG control for stick and 0.1–150 pulses per second for DC pulsed TIG.

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

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

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

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

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

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

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

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

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

Heavy-duty aluminum two-drive-roll system.

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

Welding Capability

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

Multimatic 255 comes complete with

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

Most popular accessories

- MDX™-250 EZ-Select™ MIG Gun 1770047
- Spoolmatic® Spool Guns
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns
- EZ-Latch™ Single Cylinder Running Gear 301449
- EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack 301481
- Protective Cover 301521
- Multimatic 255 TIG Kit 301518
- 10-Pin to 14-Pin Adapter Cord 273873

Industrial

Processes

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

Multimatic 255

Rated Output

230 A at 25.5 V, 60% duty cycle
200 A at 28 V, 60% duty cycle
275 A at 21 V, 60% duty cycle

Power Source

Dimensions

Net Weight

Stock Number (907728) 208–575 V

Welding Mode/Process Amperage Range Rated Output Amps Input at Rated Output, 50/60 Hz Wire Feed Speed Max. Open-Circuit Voltage Power Source Dimensions Power Source Net Weight

CV: MIG/flux-cored 20–350 230 A at 25.5 V, 60% duty cycle 34.7 29.7 17.1 14.3 8.2 8.2

21.9/680 ipm

81 VDC H: 489 mm (19.24 in.) W: 349 mm (13.75 in.) D: 667 mm (26.25 in.) 38 kg (84 lb.)

CC: Stick

30–275

200 A at 28 V, 60% duty cycle

33.5 29 16.4 13.6 7.8 7.8

CC: DC TIG

5–275

275 A at 21 V, 60% duty cycle

34.1 29.9 17 14.1 8.1 8.1

-
Maxstar 280 Multiprocess
Dynasty® 280 DX Multiprocess

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

**Processes**
- AC/DC TIG (GTAW) • Pulsed TIG (GTAW-P)
- MIG (GMAW) • Flux-cored (FCAW)
- Stick (SMAW) • Air carbon arc (CAC-A)

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

**Maxstar 280 Multiprocess**
- Model/Stock Number: Maxstar 280 Multiprocess (907552001) Power source only

**Dynasty 280 DX Multiprocess**
- Model/Stock Number: Dynasty 280 DX Multiprocess (907514007) Power source only and CE

**Most popular accessories**
- ArcReach® SuitCase® Feeders
- Small Runner™ Cart
- Coolmate™
- Contractor Kits
- Weldcraft™ Water-Cooled Torch Kits
- Remote Controls

**Dynasty 280 DX Multiprocess with accessories shown.**

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

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

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

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

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

<table>
<thead>
<tr>
<th>350 Amp</th>
<th>450 Amp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td><strong>Input Power</strong></td>
</tr>
<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
</tr>
<tr>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td>XMT 350 MPa</td>
<td>XMT 450 CC/CV</td>
</tr>
<tr>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td><strong>Primary Operating Range</strong></td>
<td><strong>Primary Operating Range</strong></td>
</tr>
<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
</tr>
<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
</tr>
<tr>
<td>3-phase</td>
<td>3-phase</td>
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<tr>
<td><strong>Weld Output</strong></td>
<td><strong>Weld Output</strong></td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
</tr>
<tr>
<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>
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<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
</tr>
<tr>
<td>450 A at 38 VDC (3-phase input power at 100% duty cycle)</td>
<td>UPGRADE</td>
</tr>
<tr>
<td><strong>Carbon Arc Gouging</strong></td>
<td><strong>Carbon Arc Gouging</strong></td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
</tr>
<tr>
<td>Rated: 6 mm</td>
<td>UPGRADE</td>
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<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
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<tr>
<td>UPGRADE</td>
<td>Rated: 7.9 mm</td>
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<td><strong>Net Weight</strong></td>
<td><strong>Net Weight</strong></td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
</tr>
<tr>
<td>36.3 kg (80 lb.)</td>
<td>36.3 kg (80 lb.)</td>
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<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
</tr>
<tr>
<td>55.3 kg (122 lb.)</td>
<td>1/2 in. stud</td>
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<tr>
<td><strong>Output Connector</strong></td>
<td><strong>Output Connector</strong></td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
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<tr>
<td>Dinse</td>
<td>Dinse</td>
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<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
</tr>
<tr>
<td>Dinse</td>
<td>1/2 in. stud</td>
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<tr>
<td><strong>Pulsed MIG</strong></td>
<td><strong>Pulsed MIG</strong></td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
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<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
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<tr>
<td>UPGRADE</td>
<td>Yes</td>
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<td><strong>14-pin Compliant</strong></td>
<td><strong>14-pin Compliant</strong></td>
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<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
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<td>Yes</td>
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<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
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<tr>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Insight Core Capable (requires Insight Core 14-pin module)</strong></td>
<td><strong>Insight Core Capable (requires Insight Core 14-pin module)</strong></td>
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<tr>
<td>XMT 350 CC/CV</td>
<td>XMT 350 CC/CV</td>
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<tr>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>XMT 425 CC/CV</td>
<td>XMT 450 CC/CV</td>
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<tr>
<td>Yes</td>
<td>Yes</td>
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</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® SuitCase® feeder.

Synergic pulsed MIG. As you increase/decrease the wire feed speed, the pulse parameters increase/decrease, matching the right amount of power output to match the wire speed, eliminating the need to make additional adjustments.

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

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

*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).

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</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 CC/CV (Dinse) (907161)</td>
<td>208-575 V, 50/60 Hz</td>
<td>5–425 A 10–38 V</td>
<td>350 A at 34 VDC, 60% duty cycle</td>
<td>40.4</td>
<td>35 VDC</td>
<td>432 mm (17 in.)</td>
<td>36.3 kg (80 lb.)</td>
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<tr>
<td>XMT 350 MPa (Dinse except where noted) (907366)</td>
<td>208-575 V, 50/60 Hz</td>
<td>5–425 A 10–38 V</td>
<td>300 A at 32 VDC, 60% duty cycle</td>
<td>60.8</td>
<td>35 VDC</td>
<td>438 mm (17.25 in.)</td>
<td>55.3 kg (122 lb.)</td>
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<tr>
<td>XMT 425 CC/CV (907386)</td>
<td>230–575 V, 50/60 Hz</td>
<td>15–600 A 10–38 V</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>51</td>
<td>400 V</td>
<td>318 mm (12.5 in.)</td>
<td>43 kg (94.8 lb.)</td>
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<tr>
<td>XMT 450 CC/CV (907481)</td>
<td>230–575 V, 60 Hz</td>
<td>400 V w/auxiliary power*, 50/60 Hz, CE</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>51</td>
<td>–</td>
<td>27.6</td>
<td>23.6</td>
<td>21.6</td>
<td>18.3</td>
<td>400 V</td>
<td>–</td>
<td>27.6</td>
<td>23.6</td>
<td>21.6</td>
<td>18.3</td>
</tr>
</tbody>
</table>

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

*Only XMT MPa models.

Most popular accessories
• XR-AlumaFeed®
• SuitCase® Feeders
• 70 Series Feeders
• XR® Control
• Universal Running Gear
• MIGRunner™ Cart 195445
• Running Gear Cylinder Rack 300408
• Coolmate™ Coolant System
• Industrial MIG 4/0 Kits 300405 (Dinse) 300390 (Lugs)
• Gas Valve Kit 195286 XMT 350/425 300928 XMT 450

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.
XMT® 350 FieldPro™ Systems

See literature DC/18.96

**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.

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

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

**Exceptional arc performance**

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

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

**Increased uptime**

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

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

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

**Improved jobsite safety**

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

**Maximum fleet compatibility**

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

**More operator control**

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

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

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

Decrease the chance of an incorrect weld process being used because Auto-Process Select™ automatically sets the power source to the correct weld process based on the polarity applied to the weld accessory.

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

Top row left to right: ArcReach SuitCase 12 feeder, XMT 350 FieldPro power source, XMT 350 FieldPro with Polarity Reversing power source, and ArcReach Smart Feeder. Bottom row left to right: ArcReach Stick/TIG Remote and ArcReach Stick/TIG Remote with Polarity Reversing.
Auto-Process Select™: System automatically changes to MIG/FCAW (with gas) if electrode positive polarity is detected or FCAW (no gas) if electrode negative polarity is detected, when ArcReach communication is established between the feeder and the XMT reducing the need to access the power supply.

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

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

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

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

XMT® 450 CC/CV ArcReach® See literature DC/18.94

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

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

XMT® Racks

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

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

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

### Model/Stock Number

**Input Power**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power</th>
<th>Amperage/ Voltage Ranges</th>
<th>IR Rating</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMT 350 FieldPro Power Source only (907730) 208–575 V with Tweco® (907730002) 208–575 V with Dinse (907730001) 208–400 V with Dinse, CE</td>
<td>3-phase: 5–425 A 10–38 V 1-phase: 5–425 A 10–38 V</td>
<td>IP23</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.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)</td>
<td>42.2 kg (93 lb.)</td>
<td></td>
</tr>
<tr>
<td>XMT 350 FieldPro Polarity Reversing Power Source only (907731) 208–575 V with Tweco® (907731002) 208–575 V with Dinse (907731001) 208–400 V with Dinse, CE</td>
<td>3-phase: 5–425 A 10–38 V 1-phase: 5–425 A 10–38 V</td>
<td>IP23</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.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)</td>
<td>42.2 kg (93 lb.)</td>
<td></td>
</tr>
<tr>
<td>XMT 450 CC/CV ArcReach (1/2 in. stud) (907481093) 240/460 V (907481094) 240/460 V w/auxiliary power*</td>
<td>3-phase: 15–600 A 10–38 V</td>
<td>IP23</td>
<td>450 A at 38 VDC, 100% duty cycle</td>
<td>51 27.6 24.4 22 18.9</td>
<td>90 VDC</td>
<td>H: 438 mm (17.25 in.) W: 369 mm (14.5 in.) D: 689 mm (27.125 in.)</td>
<td>55.3 kg (122 lb.)</td>
<td></td>
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</tbody>
</table>

### Wire Feeder

<table>
<thead>
<tr>
<th>Wire Feeder Model/Stock Number</th>
<th>Input Power</th>
<th>Input Welding Circuit 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>ArcReach Suitcase 8 (301457) Tweco®, 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 mm (50–780)</td>
<td>Solid wire 0.6–1.4 mm (.023–.052 in.) Flux-cored 0.8–2.0 mm (.030–.054 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) Tweco®, 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 mm (50–780)</td>
<td>Solid wire 0.6–1.4 mm (.023–.052 in.) Flux-cored 0.8–2.0 mm (.030–.054 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/flownometer</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 lpm (1.3–12.7)</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>
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.

ArcReach

Every year, outdated welding equipment wastes hundreds of productive work hours — and thousands of dollars in profit — by forcing operators to make numerous walks from the weld joint to the welder. Welding systems with ArcReach technology let operators adjust welding parameters right at the weld joint without a control cord using the wire feeder or remote — maximizing arc-on time, improving safety and impacting the bottom line. Don’t walk. Weld! Learn more at MillerWelds.com/arcreach

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

Don’t walk. Weld!

Learn more at MillerWelds.com/arcreach

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

Processes

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

Most popular accessories

• Dimension 650 ArcReach Rack
907701  4-pack rack
Rack comes assembled with four Dimension 650 ArcReach power sources fused for 460 V.

• ArcReach® SuitCase® Feeders
  8  301457
  12  301456
• SuitCase®12RC  301121
• 70 Series Feeders
• ArcReach Stick/TIG Remote
  301325 (Tweco®)
• Bernard™ MIG Guns
• Running Gear Cylinder Rack
  300408
• Industrial MIG 4/0 Kit (with lug connectors)  300390
• Extension Cables
  242208025  7.6 m (25 ft.)
  242208050  15 m (50 ft.)
  242208080  24.4 m (80 ft.)

Multiprocess

Dimension 650
(907617) 380/460 V power source only
(907618) 380/400 V, CE

Dimension 650 ArcReach
(907617001) 380/460 V power source only

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output</th>
<th>IP Rating</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Power Source Dimensions (Includes Lift Eye)</th>
<th>Power Source Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension 650</td>
<td>CC mode: 10–815 A</td>
<td>650 A at 44 VDC, 100% duty cycle</td>
<td>923</td>
<td>53.2</td>
<td>34</td>
<td>30.7</td>
<td>H: 716 mm (28.187 in.) W: 424 mm (16.687 in.) D: 803 mm (31.625 in.)</td>
</tr>
<tr>
<td></td>
<td>CV mode: 10–44 V</td>
<td>43.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAW mode: 10–65 V</td>
<td>42.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension 650 ArcReach</td>
<td></td>
<td>380 V</td>
<td>460 V</td>
<td>KVA</td>
<td>KW</td>
<td>87 VDC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC mode: 10–815 A</td>
<td>650 A at 44 VDC, 100% duty cycle</td>
<td>923</td>
<td>53.2</td>
<td>34</td>
<td>30.7</td>
<td>H: 716 mm (28.187 in.) W: 424 mm (16.687 in.) D: 803 mm (31.625 in.)</td>
</tr>
</tbody>
</table>
The more they walk
the more it costs.

**ARCReach Plug-in Power Sources**

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

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

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

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

**ARCReach Engine-Driven Power Sources**

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

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

**ARCReach Wire Feeders**

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

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

**ARCReach Stick/TIG Remotes**

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

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

**ARCReach Heating Systems**

Allows economical, insourced weld preheating.

**ARCReach Heater Air-Cooled Induction System**

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

---

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

**Does not support the Cable Length Compensation (CLC) and Adjust While Welding (AWW) features.

***ONLY Dimension 650 machines manufactured after 3/16/2021 are compatible. Compatible models have on faceplate.
Stay up to date on the latest news and trends in pipe welding. Educational and entertaining, BEVEL TALK features exciting dialogues and unique perspectives from elite professionals in the pipe welding industry.

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alumaNATION – Tips, projects and technical information for anyone who welds aluminum.

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Multiprocess

PipeWorx 400 Welding System

Optimized for pipe fabrication shops.

Simple process setup
• The front panel was designed by welders for welders
• Requires just a few basic steps to set up a new welding 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

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).

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

Advanced Technologies of PipeWorx FieldPro System

Power Source/Stock Number

<table>
<thead>
<tr>
<th>Welding Mode/Process</th>
<th>Amperage/Voltage Ranges</th>
<th>Rated Output at 100% Duty Cycle</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>KVA 380 V</th>
<th>KW 380 V</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<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>16.5</td>
<td>90 VDC</td>
<td>H: 724 mm (28.5 in.)</td>
<td>W: 495 mm (19.5 in.)</td>
</tr>
<tr>
<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>9.7</td>
<td>100 V, 230 VDC</td>
<td>H: 724 mm (28.5 in.)</td>
<td>W: 495 mm (19.5 in.)</td>
</tr>
<tr>
<td>CV: MIG/flux-cored</td>
<td>10–44 V</td>
<td>400 A at 34 VDC</td>
<td>27.1</td>
<td>18.0</td>
<td>15.5</td>
<td>380 V, 400 V</td>
<td>H: 546 mm (21.5 in.)</td>
<td>W: 483 mm (19 in.)</td>
</tr>
</tbody>
</table>

Wire Feeder/Stock Number

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Input Welding Circuit Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Maximum Spool Size Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VAC, 11 A</td>
<td>100 V, 750 A at 100% duty cycle</td>
<td>1.3-19.8 m/min. (50-780 ipm)</td>
<td>0.9-1.6 mm (.035-.062 in.)</td>
<td>27 kg (60 lb.)</td>
<td>H: 356 mm (14 in.)</td>
<td>W: 483 mm (19 in.)</td>
</tr>
</tbody>
</table>

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

Most popular accessories
• Bernard™ PipeWorx™ Guns 195399 4.6 m (15 ft.) 250-15
195400 4.6 m (15 ft.) 300-15

PipeWorx 400 Insight Module 301304
• Composite Cable Kit 300454 7.6 m (25 ft.)
300456 15.2 m (50 ft.)

PipeWorx Cooler 300370
• Foot Control Bracket 300676
• DSS-9 Dual Schedule Switch 071833
• RFCS-14 HD 194744

PipeWorx 400 Welding System shown. Filler metal and shielding gas sold separately.

Optimized for pipe fabrication shops.
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  See literature DC/37.0

Dependable, portable, powerful stick welder.

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

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

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

Thunderbolt 160 includes multi-voltage plug (MVP™) which allows for connection to 120- or 240-volt receptacles without tools. Choose the plug that fits the receptacle and connect it to the power cord.

Thunderbolt 160 shown.

Maxstar® 161 S  See literature DC/27.3

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

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

Adaptive Hot Start™ for stick arc starts.

Stick-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.

Maxstar 161 S with X-CASE shown.

Product Guide

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

Note: See the TIG section for Maxstar 161 SFL and SFR. *Sense voltage for stick.

Light industrial

Process • Stick (SMAW)

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

Maxstar 161 S with X-CASE shown.

Industrial

Process • Stick (SMAW)

Comes complete with
• 2 m (6.5 ft.) power cords for 120 V and 240 V
• 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

907709001 includes above plus
• Protective X-CASE™
• Most popular accessories
• Protective X-CASE™ 301429
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.
**CST™ 282** See literature DC/29.6

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.

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

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

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

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

**Universal connector system** allows the machine to be quickly configured to either Tweco®, Dinse- or Universal connector system of high frequency.

**Remote Controls**

**CST 282 Rack** (see below)

**Remote Controls**

**Universal Connector Kits**

**For TIG torches see literature DC/29.6**

---

**CST 282 Racks** See literature DC/29.6

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

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

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

**Top cover** protects machines from falling debris.

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

**Lift truck fork pockets.**

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

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

---

### CST™ 282 Stock Numbers

<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>KVA</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions (H x W x D)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(907770) Tweco®</td>
<td>Stick Three-phase</td>
<td>30-280</td>
<td>280 A at 31.2 V, 35% duty cycle</td>
<td>29.63</td>
<td>26.65</td>
<td>15.71</td>
<td>13.92</td>
<td>12.08</td>
<td>12</td>
<td>10.2</td>
</tr>
<tr>
<td>(907810) Dinse</td>
<td>Stick Three-phase</td>
<td>30-280</td>
<td>200 A at 28 V, 100% duty cycle</td>
<td>18.86</td>
<td>17.09</td>
<td>10.6</td>
<td>9.37</td>
<td>8.02</td>
<td>8</td>
<td>6.4</td>
</tr>
<tr>
<td>(907812) Cam-Lok®</td>
<td>TIG Single-phase</td>
<td>5-280</td>
<td>150 A at 26 V, 100% duty cycle</td>
<td>23.07</td>
<td>20.59</td>
<td>12.97</td>
<td>11.15</td>
<td>8.64</td>
<td>4.5</td>
<td>230 V</td>
</tr>
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### CST 282 Racks Dimensions

<table>
<thead>
<tr>
<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 (H x W x D)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-pack rack</td>
<td>208–575 V, three-phase</td>
<td>106.5</td>
<td>56</td>
<td>48.5</td>
<td>48</td>
<td>40.8</td>
</tr>
<tr>
<td>8-pack rack</td>
<td>208–575 V, three-phase</td>
<td>213</td>
<td>112</td>
<td>97</td>
<td>96</td>
<td>81.6</td>
</tr>
<tr>
<td>Empty Rack</td>
<td>301610</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Same as 8-pack rack above</td>
</tr>
</tbody>
</table>
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.

**Applications, e.g.:**
- Oil, gas & petrochemical industry
- Power generation industry
- Off-shore

**Tools for industrial applications, e.g.:**
- NEW DynaPrep MDSF split frames for heavy duty form tooling & pipe weld preparation
- HDSF heavy duty split frames - built for big jobs in the field
- TRAV-L-CUTTER portable milling machines
- LCSF low clearance split frames
- EP 424 ID mount end prep machines
- SDB / FF small diameter bevelers & flange facers

**Portable weld prep machine tools for industrial applications, e.g.:**
- **HDSF**
- **LCSF**
- **EP 424**
- **SDB / FF**
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E6010/11</td>
<td>E6013</td>
<td>E7018</td>
<td>E7024</td>
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</tr>
<tr>
<td>Maxstar 161</td>
<td>5/32 in.</td>
<td>1/8 in.</td>
<td>1/8 in.</td>
<td>3/32 in.</td>
<td>.020–3/16 in.</td>
<td>5–160 A</td>
<td>5.9 kg (13 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0–150 pps (STH model)</td>
<td>5.3 kW</td>
<td></td>
</tr>
<tr>
<td>Maxstar 210</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>5/32 in.</td>
<td>3/32 in.</td>
<td>.002–1/4 in.</td>
<td>1–210 A</td>
<td>17.2 kg (38 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1–250 pps (base model)</td>
<td>9 kW</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1–600 pps (DX model)</td>
<td>(38 lb.)</td>
<td></td>
</tr>
<tr>
<td>Maxstar 280</td>
<td>7/32 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>.004–3/8 in.</td>
<td>1–280 A</td>
<td>21.3 kg (47 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1–250 pps (base model)</td>
<td>11 kW</td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>0.1–600 pps (DX model)</td>
<td>(47 lb.)</td>
<td></td>
</tr>
<tr>
<td>Maxstar 400</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>1/4 in.</td>
<td>1/4 in.</td>
<td>.012–5/8 in.</td>
<td>3–400 A</td>
<td>61 kg (134 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1–5,000 pps</td>
<td>20 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(134 lb.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1–500 pps (D X model)</td>
<td>(47 lb.)</td>
<td></td>
</tr>
<tr>
<td>Maxstar 800</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>3/8 in.</td>
<td>.020–1 in.</td>
<td>5–800 A</td>
<td>90 kg (198 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1–5,000 pps</td>
<td>45 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(198 lb.)</td>
<td></td>
</tr>
<tr>
<td>Diversen® 180</td>
<td></td>
<td>5/32 in.</td>
<td>1/8 in.</td>
<td>1/8 in.</td>
<td>.020–1/4 in.</td>
<td>5–210 A</td>
<td>23 kg (50 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>5–150 pps</td>
<td>6 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(50 lb.)</td>
<td></td>
</tr>
<tr>
<td>Syncrowave® 210</td>
<td></td>
<td>5/32 in.</td>
<td>1/8 in.</td>
<td>1/8 in.</td>
<td>.015–3/8 in.</td>
<td>5–300 A</td>
<td>45.8 kg (101 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–150 pps</td>
<td>6 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(101 lb.)</td>
<td></td>
</tr>
<tr>
<td>Syncrowave® 300</td>
<td></td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>.015–3/8 in.</td>
<td>5–400 A</td>
<td>59.4 kg (131 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–150 pps</td>
<td>14 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(131 lb.)</td>
<td></td>
</tr>
<tr>
<td>Syncrowave® 400</td>
<td></td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>.012–1/4 in.</td>
<td>2–210 A</td>
<td>21.3 kg (47 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–500 pps</td>
<td>9 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(47 lb.)</td>
<td></td>
</tr>
<tr>
<td>Dynasty® 210</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>5/32 in.</td>
<td>5/32 in.</td>
<td>.012–1/4 in.</td>
<td>2–210 A</td>
<td>23.6 kg (52 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–500 pps</td>
<td>12.5 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(52 lb.)</td>
<td></td>
</tr>
<tr>
<td>Dynasty® 280</td>
<td>7/32 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>3/16 in.</td>
<td>.012–3/8 in.</td>
<td>2–280 A</td>
<td>61 kg (134 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–500 pps</td>
<td>20 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(134 lb.)</td>
<td></td>
</tr>
<tr>
<td>Dynasty® 400</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>1/4 in.</td>
<td>1/4 in.</td>
<td>.015–5/8 in.</td>
<td>3–400 A</td>
<td>61 kg (134 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–500 pps</td>
<td>20 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(134 lb.)</td>
<td></td>
</tr>
<tr>
<td>Dynasty® 800</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>5/16 in.</td>
<td>3/8 in.</td>
<td>.020–1 in.</td>
<td>5–800 A</td>
<td>90 kg (198 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(aluminum/steel)</td>
<td>0.1–5,000 pps</td>
<td>50 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(base model)</td>
<td>(198 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

**Product Key**

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

*For more detailed information, visit MillerWelds.com/tig*

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

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

- **HF arc starting** for more consistent welding arc while using less power.
- **Inverter-based AC/DC power source** and start welding!
- **select material type, set material thickness range** and start welding.
- **Portable.** Easy to transport at 23 kg (50 lb.).

*While idling.

---

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

**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.).

---

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

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

- **Two models available.**
  - **STL:** DC TIG/stick with Lift-Arc™ starting without high frequency.
  - **STH:** DC TIG/stick with high frequency and Lift-Arc™ starting, plus built-in pulsing from 0–150 pulses per second.

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

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

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

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

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

---

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

<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&quot;)</td>
<td>3.1 (.1&quot;)</td>
<td>3.0 (.03&quot;)</td>
<td>80 VDC</td>
<td>w: 251 mm (9.875 in.) h: 433 mm (17 in.) d: 608 mm (23.875 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&quot;)</td>
<td>3.7 (.1&quot;)</td>
<td>3.6 (.03&quot;)</td>
<td>75 VDC</td>
<td>w: 251 mm (9.875 in.) h: 433 mm (17 in.) d: 608 mm (23.875 in.)</td>
<td>20 kg (44 lb.)</td>
<td></td>
</tr>
</tbody>
</table>

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

---

**Maxstar 161 STL TIG/stick package with remote fingertip control (907711002) shown — includes X-CASE.**

---

**Light industrial **

**Process • 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

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

---

**Maxstar 161 STL TIG/stick package with remote fingertip control (907711002) shown — includes X-CASE.**

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**Light industrial **

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

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**Light industrial **

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- Protective X-CASE™ (301429)
- Fan gauge regulator with hose
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Syncrowave® 210  
AC/DC TIG, Stick and MIG (with Spool Gun)  
See literature AD/4.6

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

**TIG Welding Capability**

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

**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
  Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (1, 1.6, 2.4 mm [.040, 1/16, 3/32 in.]) of the following: collet, collet body, and 178 mm (7 in.) 2% ceriated tungsten electrode.
- TIG Torch 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.
- Spoolmate™ 150 spool gun  301272

**AC/DC TIG, Stick and MIG (with Spool Gun)**

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.

**Auto-Line® Technology**

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

**Multi-voltage plug (MVP)**

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

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

**Pro-Set™ (TIG/stick)**

eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls.

**HF arc starting**

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

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eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls.

**HF arc starting**

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

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

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

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

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

**Auto-Set™ (MIG)** automatically sets your welder to the proper parameters. Simply set the wire size, material thickness, and shielding gas and you’re ready to weld. (TIG/MIG complete package only.)

**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>(907596) TIG/Stick System</td>
<td>115 V</td>
<td>DC TIG</td>
<td>5–125 A</td>
<td>95 A at 13.8 V, 60% duty cycle</td>
<td>17.4 (.58 while idling)</td>
<td>47 VDC</td>
<td>H: 800 mm (31.5 in.)</td>
<td>61 kg (133.5 lb.)</td>
</tr>
<tr>
<td></td>
<td>230 V</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>
Bernard semi-automatic MIG guns and consumables have been used and trusted for decades by top companies in agriculture, shipbuilding and fabrication. This is why Miller not only recommends Bernard MIG guns but also pairs these guns with many of their industrial wire feeders and power sources.

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

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

Maximizing throughput. Minimizing costs.

Automated welding applications require flexible, repeatable solutions that maximize production uptime and throughput while minimizing costs. This is why industrial manufacturers rely on Tregaskiss and its proven track record of delivering reliable and resilient robotic MIG welding guns and peripherals.

Visit Tregaskiss.com for more information or to configure a robotic gun for your welding application today.
Syncrowave® 300 and 400
AC/DC TIG and Stick

See literature AD/4.25 (300) and AD/4.28 (400)

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

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

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

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

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

For Syncrowave 400 refer to owner’s manual for 208 V output rating and duty cycle.

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

See literature AD/4.25 and AD/4.28 for Complete package dimensions and weight.

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

See literature AD/4.25 and AD/4.28 for Complete package dimensions and weight.

### Table: Welding Process and Input Power

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output1</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>Power Source Dimensions3</th>
<th>Power Source Net Weight3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syncrowave 300</td>
<td>TIG (includes cooler power draw)</td>
<td>3-phase</td>
<td>5-300</td>
<td>210 A at 18.4 V, 60% duty cycle</td>
<td>16 14 8.2 7.9 7 5.9 5.5</td>
<td>H: 746 mm (29.4 in.) W: 381 mm (15 in.) D: 625 mm (24.6 in.)</td>
<td>45.8 kg (101 lb.)</td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>3-phase</td>
<td>5-230</td>
<td>160 A at 24.6 V, 60% duty cycle</td>
<td>9 11 8.7 8.2 5 5.7 5.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syncrowave 400</td>
<td>TIG (includes cooler power draw)</td>
<td>3-phase</td>
<td>5-400</td>
<td>300 A at 22 V, 60% duty cycle</td>
<td>25 23 13.7 12.4 11 9.1 8.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>3-phase</td>
<td>5-300</td>
<td>250 A at 30 V, 60% duty cycle</td>
<td>27 24 14.7 13.3 12 9.8 9.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 For Syncrowave 400 refer to owner’s manual for 208 V output rating and duty cycle.

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

3 See literature AD/4.25 and AD/4.28 for Complete package dimensions and weight.
Maxstar® and Dynasty® 210/280 Series
DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

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

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

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

- **AUTO-LINE®** technology allows for any input voltage hookup (210 models: 120–480 V, 280 models: 208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

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

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

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

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

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

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

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

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

*Refer to owner’s manual for 208-volt output ratings and duty cycle.

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

![Maxstar 210 Series](image1)  (Maxstar 210 shown).

![Dynasty 280 DX](image2)

### DC Masstar

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>IP Rating</th>
<th>Rated Output at 60% Duty Cycle</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 210 (907683)</td>
<td>TIG</td>
<td>3-phase</td>
<td>1-210</td>
<td>IP23</td>
<td>210 A at 18.4 V</td>
<td>-- 14 -- 12 7 -- 6 -- 5.2 4.9</td>
</tr>
<tr>
<td>Maxstar 210 DX (907684)</td>
<td>TIG</td>
<td>1-phase</td>
<td>1-210</td>
<td></td>
<td>210 A at 18.4 V</td>
<td>-- 24 -- 20 12 -- 10 -- 4.9 4.9</td>
</tr>
<tr>
<td></td>
<td>TIG</td>
<td>1-phase (120 V)</td>
<td>1-150</td>
<td></td>
<td>125 A at 15 V</td>
<td>-- 22 -- -- -- -- -- 2.6 2.6</td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>3-phase</td>
<td>5-210</td>
<td></td>
<td>160 A at 26.4 V</td>
<td>-- 15 -- 13 8 -- 6 -- 5.5 5.2</td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>1-phase</td>
<td>5-210</td>
<td></td>
<td>160 A at 26.4 V</td>
<td>-- 26 -- 22 13 -- 11 -- 5.3 5.3</td>
</tr>
<tr>
<td></td>
<td>Stick</td>
<td>1-phase (120 V)</td>
<td>5-100</td>
<td></td>
<td>90 A at 23.6 V</td>
<td>-- 23 -- -- -- -- -- 2.8 2.8</td>
</tr>
</tbody>
</table>

### 210 Series TIG Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Max. Open-Circuit Voltage</th>
<th>Max. 6.4 mm (1/4 in.)</th>
<th>Min. 0.05 mm (0.002 in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>20 V 80 V 120 V 180 V 208 V 230 V 240 V</td>
<td>-- 14 -- 12 7 -- 6 -- 5.2 4.9</td>
<td>--</td>
</tr>
<tr>
<td>Aluminum</td>
<td>575 V 460 V 400 V 300 V</td>
<td>-- 24 -- 20 12 -- 10 -- 4.9 4.9</td>
<td>2.6</td>
</tr>
</tbody>
</table>

### 280 Series TIG Welding Capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Max. Open-Circuit Voltage</th>
<th>Max. 9.5 mm (3/8 in.)</th>
<th>Min. 0.1 mm (0.004 in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>80 V 60 V 460 V 400 V 300 V</td>
<td>-- 21 -- 19 11 9 -- 7 7.6 7.3</td>
<td>--</td>
</tr>
<tr>
<td>Aluminum</td>
<td>575 V 460 V 400 V 300 V</td>
<td>-- 25 -- 35 18 16 -- 13 7.3 7.1</td>
<td>9.9 9.6</td>
</tr>
</tbody>
</table>

### Net Weight

- **Maxstar 210 Series (Maxstar 210 shown).**
- **Dynasty 280 DX**

- **Max. Open-Circuit Voltage**

- **Dimensions**

- **Net Weight**
Dynasty welders add AC TIG capabilities and the following AC features (limited on base model):

**Waveforms** for advanced squarewave, soft squarewave, sine wave and triangular wave.

**Balance** control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. DX models provide extended ranges.

**Frequency** controls the width of the arc cone and can improve directional control of the arc.

---

*Refer to owner’s manual for complete ratings.

**Sense voltage for low OCV stick and Lift-Arc™ TIG.**
Maxstar® and Dynasty® 400 and 800
DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

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

### TIG Welding Capability

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Process</th>
<th>Input Power</th>
<th>Welding Amp Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dynasty</strong> 800</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 75 VDC (10–15 VDC*)</td>
<td>629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>61 kg (135 lb.)</td>
<td></td>
</tr>
<tr>
<td><strong>Maxstar</strong> 400</td>
<td>TIG/stick</td>
<td>1-phase</td>
<td>3–400</td>
<td>225 A at 30 V, 60% duty cycle</td>
<td>41 37 – 19 15 8.6 8.2</td>
<td>876 mm (34.5 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>90 kg (198 lb.)</td>
<td></td>
</tr>
<tr>
<td><strong>Dynasty</strong> 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>629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>61 kg (135 lb.)</td>
<td></td>
</tr>
<tr>
<td><strong>Maxstar</strong> 800</td>
<td>TIG/stick</td>
<td>1-phase</td>
<td>3–400</td>
<td>225 A at 30 V, 60% duty cycle</td>
<td>47 43 – 21 17 9.8 9.1</td>
<td>629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)</td>
<td>61 kg (135 lb.)</td>
<td></td>
</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.

### 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.

### Auto-Line Technology

- **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 ofpostflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

### Notes

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Voltage</th>
<th>Product Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 400</td>
<td>1-phase</td>
<td>10,000 hours</td>
</tr>
<tr>
<td>Dynasty 800</td>
<td>3-phase</td>
<td>10,000 hours</td>
</tr>
</tbody>
</table>

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

---

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)
- Setup video and reference guide

**Most popular accessories**
- Runner™ Cart. 300244
- Coolmate™ 3.5 300245
- Coolant 043810
- Remote Controls 043688 RFCS-14 fingertip control 194744 RFCS-14 HD foot control 300429 Wireless Foot Control
- Dinse-style connector, Male 50 mm 134460

**Dimensions**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 400</td>
<td>539 mm (21 in.)</td>
</tr>
<tr>
<td>Dynasty 800</td>
<td>610 mm (24 in.)</td>
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</tbody>
</table>

**Net Weight**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxstar 400</td>
<td>61 kg (135 lb.)</td>
</tr>
<tr>
<td>Dynasty 800</td>
<td>90 kg (198 lb.)</td>
</tr>
</tbody>
</table>

**Net Weight**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
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<tbody>
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<tr>
<td>Dynasty 800</td>
<td>90 kg (198 lb.)</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>DC Maxstar</th>
<th>AC/DC Dynasty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maxstar 400</strong></td>
<td>90771602, CE (90771601) TIGRunner, CSA</td>
</tr>
<tr>
<td><strong>Dynasty 800</strong></td>
<td>90771902, CE (90771901) TIGRunner, CSA</td>
</tr>
</tbody>
</table>

---

- 'DC Maxstar'
- 'AC/DC Dynasty'
- 'GTAW TIG'
Weldcraft™ Series TIG Torches

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

W-250 (Automation)

A-150 (Air Cooled)

W-250 (Water-Cooled)

W-125 (Specialty)

Setting the standard for performance

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

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

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

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

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

Extreme reliability

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

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

Reduce leakage of gas and water through secure mechanical fittings.

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

TIG Torch Configurator

Our TIG Torch Configurator is a simple way to make sure you are using the right torch and consumables for your application.

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

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

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

**Weldcraft™ Water-Cooled Torches**

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

**Weldcraft™ Specialty Torches**

Specialty torches are designed to fit best in unique applications. If high amperage is your need, the W-500 torch is the answer. The Modular Series torches allow for a quick change to many different torch styles for any joint configuration. For those hard-to-reach areas, the Micro Series torches provide access and superior maneuverability.

**Weldcraft™ Automation Torches**

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

**Weldcraft™ A-80 Series**

Formerly known as WP-24 Series

Innovative air-cooled torches designed for intricate welding applications, especially in limited-access areas and on thin-gauge materials.

*Featherweight torch body* is well balanced to improve operator comfort and control.

*Minimize discontinuities.* Insulating gasket on torch body minimizes gas leakage and minimizes weld discontinuities.

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

**Process**
- TIG (GTAW)

**Suggested power sources**
- Multimatic® 200/215 (A-150)
- Multimatic® 220 AC/DC (A-150)
- Multimatic® 255 (A-150)
- Dynasty® 280 DX Multiprocess (A-200, A-250, W-280)
- XMT Series (A-200, A-250)
- CST™ 280 (A-250)
- Maxstar® 161 STL/STH (A-150)
- Syncrowave® 210 (A-150)
- Dynasty®/Maxstar® 210 (A-150, W-250)
- Dynasty®/Maxstar® 280 (A-200, A-250, W-280)
- Dynasty®/Maxstar® 400 (W-375)
- Dynasty®/Maxstar® 800 (W-400)
- Syncrowave® 250 DX (W-375)
- Syncrowave® 350 LX (W-375)

**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, 6.4 mm (1/4 in.)
  - A53N25 #5, 7.9 mm (5/16 in.)
  - A53N27 #6, 9.5 mm (3/8 in.)

**Most popular accessories**
- Collet Body Wrench 53N20

---

**Rubber**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-80 Flex</td>
<td>WP-24F-12-R</td>
<td>Air-cooled</td>
<td>DC: 80 A at 60% duty cycle</td>
<td>0.5-2.4 mm (.020-3/32 in.)</td>
</tr>
<tr>
<td>A-80 Flex Valve</td>
<td>WP-24FV-12-R</td>
<td>Air-cooled</td>
<td>AC: 50 A at 60% duty cycle</td>
<td>0.5-2.4 mm (.020-3/32 in.)</td>
</tr>
</tbody>
</table>

---

**Weldcraft**

™

Specialty Torches designed to fit best in unique applications. If high amperage is your need, the W-500 torch is the answer. The Modular Series torches allow for a quick change to many different torch styles for any joint configuration. For those hard-to-reach areas, the Micro Series torches provide access and superior maneuverability.

**Weldcraft**

™

Air-Cooled Torches

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

**Weldcraft**

™

Water-Cooled Torches

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

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™

Specialty Torches

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**Weldcraft**

™

Automation Torches

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

**Weldcraft**

™

A-80 Series

Formerly known as WP-24 Series

Innovative air-cooled torches designed for intricate welding applications, especially in limited-access areas and on thin-gauge materials.

*Featherweight torch body* is well balanced to improve operator comfort and control.

*Minimize discontinuities.* Insulating gasket on torch body minimizes gas leakage and minimizes weld discontinuities.

*Combined flexible neck and gas valve* is ideal for optimal positioning and gas flow control (A-80 Flex Valve).
Weldcraft™ A-125 Series
Formerly known as WP-9 Series

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

Lightweight body reduces fatigue and downtime, while increasing operator comfort.

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

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

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

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

Most popular accessories
- Accessory Kit  AK1C

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

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

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

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

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

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
  10N27 1.6 mm (1/16 in.)
  10N28 2.4 mm (3/32 in.)
  10N29 3.2 mm (1/8 in.)
- Alumina Nozzles
  10N48 #6, 9.5 mm (3/8 in.)
  10N47 #7, 11.1 mm (7/16 in.)
  10N46 #8, 12.7 mm (1/2 in.)

Most popular accessories
- Accessory Kit  AK150MC

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>2-Piece Rubber</th>
<th>Type</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-125</td>
<td>WP-9-12-R</td>
<td>WP-9-12-2</td>
<td>Air-cooled DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle</td>
<td>0.5–3.2 mm (.020–.080 in.)</td>
</tr>
<tr>
<td>A-125 Valve</td>
<td>WP-9V-12-R</td>
<td>WP-9V-12-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-125 Flex</td>
<td>WP-9F-12-R</td>
<td>WP-9F-12-2</td>
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<tr>
<td>A-125 Flex Valve</td>
<td>WP-9FV-12-R</td>
<td>WP-9FV-12-2</td>
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<td></td>
</tr>
<tr>
<td>A-125 Pencil</td>
<td>WP-9P-12-R</td>
<td>WP-9P-12-2</td>
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</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber</th>
<th>2-Piece Rubber</th>
<th>Type</th>
<th>Electrode Range</th>
</tr>
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<tbody>
<tr>
<td>A-150</td>
<td>WP-17-12-R</td>
<td>WP-17-12-2</td>
<td>Air-cooled DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle</td>
<td>0.5–3.2 mm (.020–.080 in.)</td>
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<tr>
<td>A-150 Valve</td>
<td>WP-17V-12-R</td>
<td>WP-17V-12-2</td>
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<tr>
<td>A-150 Flex</td>
<td>WP-17F-12-R</td>
<td>WP-17F-12-2</td>
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<tr>
<td>A-150 Flex Valve</td>
<td>WP-17FV-12-R</td>
<td>WP-17FV-12-2</td>
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<tr>
<td>A-150 Flex Valve Redhead</td>
<td>WP-R17FV-12-R</td>
<td>WP-R17FV-12-2</td>
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</tr>
</tbody>
</table>
Weldcraft™ A-200 Series  
Formerly known as WP-26 Series

See literature AY/24.0

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

Eliminate the expense of a water-cooled system. The air-cooled capability of the A-200 Series pairs reliability with cost-effectiveness for all field applications.

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

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

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
  10N47 #7, 11.1 mm (7/16 in.)
  10N46 #8, 12.7 mm (1/2 in.)
  10N45 #10, 15.9 mm (5/8 in.)

Most popular accessories
- Gas Lens Kit AK3GL
  Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.

- Accessory Kit AK3C
  Includes one short back cap, one of each size (#5, #6, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

<table>
<thead>
<tr>
<th>Model</th>
<th>Rubber 3.8 m (12.5 ft.)</th>
<th>2-Piece Rubber 3.8 m (12.5 ft.)</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-200 Valve</td>
<td>WP-26-12-R</td>
<td>WP-26V-12-R</td>
<td>Air-cooled</td>
<td>DC: 200 A at 60% duty cycle</td>
<td>0.5–4.0 mm (.020–5/32 in.)</td>
</tr>
<tr>
<td>A-200 Flex Valve</td>
<td>WP-26F-12-R</td>
<td>WP-26FV-12-R</td>
<td>Air-cooled</td>
<td>AC: 150 A at 60% duty cycle</td>
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</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-250 Valve</td>
<td>Air-cooled</td>
<td>DC: 250 A at 60% duty cycle</td>
<td>0.5–4.0 mm (.020–5/32 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AC: 188 A at 60% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

Weldcraft™ A-250 Series

See literature AY/24.5

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

Eliminate the expense of a water-cooled system. The air-cooled capability of the A-250 Series pairs reliability with cost-effectiveness for all field applications.

Robust performance. The heavy copper construction delivers optimal welding capacity for rugged fieldwork.

Effortless adjustments. Gas control valve ensures quick and easy adjustment of shielding gas flow (A-250 Valve).

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

Visit now at MillerWelds.com
Applications
- Aerospace • Manufacturing
- Food/beverage industry • Shipbuilding
- Maintenance and repair
- Petro/chemical • Precision fabrication

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

Applications
- Aerospace • Aluminum fabrication
- Automotive • Manufacturing
- Exotic material fabrication
- Precision metal fabrication
- Pressure vessel fabrication
- Shipbuilding • Tool and die

Most popular consumables
- Insulator (non-gas lens and gas lens) (required) 598882
- Collets (non-gas lens and gas lens)
  - 13N21 1.0 mm (.040 in.)
  - 13N22 1.6 mm (1/16 in.)
  - 13N23 2.4 mm (3/32 in.)
  - 13N24 3.2 mm (1/8 in.)
- Collet Bodies
  - 13N26 1.0 mm (.040 in.)
  - 13N27 1.6 mm (1/16 in.)
  - 13N28 2.4 mm (3/32 in.)
  - 13N29 3.2 mm (1/8 in.)
- Gas Lens
  - 45V42 1.0 mm (.040 in.)
  - 45V43 1.6 mm (1/16 in.)
  - 45V44 2.4 mm (3/32 in.)
  - 45V45 3.2 mm (1/8 in.)
- Alumina Nozzles
  - A13N08 #4, 6.4 mm (1/4 in.)
  - A13N09 #5, 7.9 mm (5/16 in.)
  - A13N10 #6, 9.5 mm (3/8 in.)
  - A13N11 #7, 11.1 mm (7/16 in.)
  - A13N12 #8, 12.7 mm (1/2 in.)
  - A13N13 #10, 15.9 mm (5/8 in.)
  - 53N58 #4, 6.4 mm (1/4 in.)
  - 53N59 #5, 7.9 mm (5/16 in.)
  - 53N60 #6, 9.5 mm (3/8 in.)
  - 53N61 #7, 11.1 mm (7/16 in.)
  - 53N61S #8, 12.7 mm (1/2 in.)
- Alumina Nozzles (gas lens)
  - 53N58 #4, 6.4 mm (1/4 in.)
  - 53N59 #5, 7.9 mm (5/16 in.)
  - 53N60 #6, 9.5 mm (3/8 in.)
  - 53N61 #7, 11.1 mm (7/16 in.)
  - 53N61S #8, 12.7 mm (1/2 in.)

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

Weldcraft™ W-180
Formerly known as WP-24W

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

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

Weldcraft™ W-200 Pencil Flex
Formerly known as WP-25

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

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

Weldcraft™ W-250 Series
Formerly known as WP-20 Series

Water-cooled torches that provide consistent performance and long-term trouble-free service with around-the-head water cooling.

Extend torch life and minimize downtime due to overheating with the efficient around-the-head cooling design.
Reduce leakage of gas and water through secure mechanical fittings and connections.
Easy hose replacement with the innovative mechanical fittings design (W-250 Valve).

Table:
<table>
<thead>
<tr>
<th>Model</th>
<th>Braided Rubber</th>
<th>Vinyl</th>
<th>Type</th>
<th>Rated Output</th>
<th>Electrode Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-180</td>
<td>WP-24W-12-R</td>
<td>WP-24W-12</td>
<td>Water-cooled</td>
<td>DC: 180 A at 100% duty cycle</td>
<td>0.5–2.4 mm (.020–.032 in.)</td>
</tr>
<tr>
<td>W-200</td>
<td>WP-25-12-R</td>
<td>WP-25-12</td>
<td>Water-cooled</td>
<td>DC: 200 A at 100% duty cycle</td>
<td>0.5–3.2 mm (.020–.032 in.)</td>
</tr>
<tr>
<td>W-250</td>
<td>WP-20-12-R</td>
<td>WP-20-12</td>
<td>Water-cooled</td>
<td>DC: 250 A at 100% duty cycle</td>
<td>0.5–3.2 mm (.020–.032 in.)</td>
</tr>
</tbody>
</table>

Other Tables:
Model | Braided Rubber | Vinyl | Type | Rated Output | Electrode Range |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WP-250</td>
<td>WP-20W-V</td>
<td>WP-20W-12</td>
<td>Water-cooled</td>
<td>DC: 180 A at 100% duty cycle</td>
<td>0.5–3.2 mm (.020–.032 in.)</td>
</tr>
</tbody>
</table>

Model | Braided Rubber | Vinyl | Type | Rated Output | Electrode Range |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WP-250 Valve</td>
<td>–</td>
<td>–</td>
<td>Water-cooled</td>
<td>DC: 180 A at 100% duty cycle</td>
<td>0.5–3.2 mm (.020–.032 in.)</td>
</tr>
</tbody>
</table>
Weldcraft™ W-280 Super Cool™
Formerly known as WP-280

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

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

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

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

Model | Braided Rubber 3.8 m (12.5 ft.) | 7.6 m (25 ft.) | Braided Rubber with 50 mm Dinse 7.6 m (25 ft.) | Type | Rated Output | Electrode Range
--- | --- | --- | --- | --- | --- | ---
W-280 Super Cool | 301251012 | 301251025 | 301251001 | Water-cooled | DC: 280 A at 100% duty cycle AC: 195 A at 100% duty cycle | 0.5–3.2 mm (.020–1/8 in.)

Applications
• Aerospace • Aluminum fabrication
• Automotive • Manufacturing
• Exotic material fabrication
• Metal fabrication
• Pressure vessel fabrication
• Tool and die
• Tube and pipe • Vocational

Most popular consumables
• Insulator (non-gas lens and gas lens) (required) 598882
• Collets (non-gas lens and gas lens) 13N21 1.0 mm (.040 in.)
13N22 1.6 mm (1/16 in.)
13N23 2.4 mm (3/32 in.)
13N24 3.2 mm (1/8 in.)
• Collet Bodies 13N26 1.0 mm (.040 in.)
13N27 1.6 mm (1/16 in.)
13N28 2.4 mm (3/32 in.)
13N29 3.2 mm (1/8 in.)

Weldcraft™ W-375 Super Cool™
See literature AV/32.5

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.

Model | Braided Rubber 3.8 m (12.5 ft.) | 7.6 m (25 ft.) | Braided Rubber with 50 mm Dinse 7.6 m (25 ft.) | Type | Rated Output | Electrode Range
--- | --- | --- | --- | --- | --- | ---
W-375 Super Cool | 301253012 | 301253025 | 301253001 | Water-cooled | DC: 375 A at 100% duty cycle AC: 265 A at 100% duty cycle | 0.5–3.2 mm (.020–1/8 in.)

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 #8, 9.5 mm (3/8 in.)
10N47 #7, 11.1 mm (7/16 in.)
10N46 #8, 12.7 mm (1/2 in.)
10N45 #10, 15.9 mm (5/8 in.)
10N44 #12, 19 mm (3/4 in.)

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

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

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

Reduce discomfort and fatigue using the comfortable handle design.

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

Model | Rubber 3.8 m (12.5 ft.) | 7.6 m (25 ft.) | Vinyl 3.8 m (12.5 ft.) | 7.6 m (25 ft.) | Type | Rated Output | Electrode Range
--- | --- | --- | --- | --- | --- | --- | ---
W-350 | WP-18-12-R | WP-18-25-R | WP-18-12 | WP-18-25 | Water-cooled | DC: 350 A at 100% duty cycle AC: 250 A at 100% duty cycle | 0.5–4.0 mm (.020–5/32 in.)
Weldcraft™ W-400 Super Cool™
Formerly known as WP-18SC

Water-cooled torch designed to endure some of the most demanding applications while minimizing overheating.

Extend torch and consumable life with the full-flow water chamber that provides around-the-head cooling.

Improve gas coverage and cooling capacity with gas lens usage with heavy-duty stubby collet body.

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

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

Most popular consumables
- Heavy-Duty Collets
  - 10N25HD 3.2 mm (1/8 in.)
  - 54N20HD 4.0 mm (5/32 in.)
  - 18C36 4.8 mm (3/16 in.)
- Heavy-Duty Nose Collet Body (all sizes)
  - 58C36
- Alumina Nozzles
  - 54N16 #6, 9.5 mm (3/8 in.)
  - 54N15 #7, 11.1 mm (7/16 in.)
  - 54N14 #8, 12.7 mm (1/2 in.)
- Back Caps
  - 57Y04 Short
  - 300M Medium

Model | Rubber, 7.6 m (25 ft.) | Vinyl, 7.6 m (25 ft.) | Type | Rated Output | Electrode Range |
--- | --- | --- | --- | --- | --- |
W-400 Super Cool | WP-18SC-25-R | WP-18SC-25 | Water-cooled | DC: 400 A at 100% duty cycle, AC: 280 A at 100% duty cycle | 0.5-4.8 mm (.020-3/16 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, minimizing downtime for torch changeover.

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

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

Model | Rubber, 7.6 m (25 ft.) | Vinyl, 7.6 m (25 ft.) | Type | Rated Output | Electrode Range |
--- | --- | --- | --- | --- | --- |
A-150 Modular | WP-150-12-R | WP-150-25-R | Air-cooled | DC: 150 A at 60% duty cycle, AC: 105 A at 60% duty cycle | 0.5-3.2 mm (.020-1/8 in.)
A-150 Modular Valve | WP-150V-12-R | WP-150V-25-R | Air-cooled | DC: 150 A at 60% duty cycle, AC: 105 A at 60% duty cycle | 0.5-3.2 mm (.020-1/8 in.)
W-225 Modular | WP-225-12-R | WP-225-25-R | Water-cooled | DC: 225 A at 100% duty cycle, AC: 160 A at 100% duty cycle | 0.5-4.0 mm (.020-5/32 in.)

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

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

Small 5-inch torch body designed for limited-access joints.

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

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

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

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

Most popular consumables
- 90° Chucks
  - 125C10 1.0 mm (.040 in.)
  - 125C16 1.6 mm (5/32 in.)
  - 125C22 2.2 mm (3/32 in.)
  - 125C28 2.8 mm (7/32 in.)
  - 125C34 3.4 mm (1/8 in.)
  - 125C40 4.0 mm (5/32 in.)
  - 125C46 4.6 mm (3/16 in.)
  - 125C52 5.2 mm (9/32 in.)
- 90° Glass Nozzle (all sizes)

Model | Braided Rubber, 7.6 m (25 ft.) | Vinyl, 7.6 m (25 ft.) | Type | Rated Output | Electrode Range |
--- | --- | --- | --- | --- | --- |
W-125 Long Micro | WP-125L-12-R | WP-125L-25-R | Water-cooled | DC: 125 A at 100% duty cycle, AC: 80 A at 100% duty cycle | 1.0-2.4 mm (.040-3/32 in.)
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 (EWCe-2)</td>
<td></td>
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</tr>
<tr>
<td>WC040X7</td>
<td>1.0 (0.040)</td>
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</tr>
<tr>
<td>WC116X7</td>
<td>1.6 (1/16)</td>
<td></td>
</tr>
<tr>
<td>WC332X7</td>
<td>2.4 (3/32)</td>
<td></td>
</tr>
<tr>
<td>WC018X7</td>
<td>3.2 (1/8)</td>
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</tr>
<tr>
<td>WC532X7</td>
<td>4.0 (5/32)</td>
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<tr>
<td>Pure (EWP)</td>
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<tr>
<td>WC040X7</td>
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<tr>
<td>WC116X7</td>
<td>1.6 (1/16)</td>
<td></td>
</tr>
<tr>
<td>WC332X7</td>
<td>2.4 (3/32)</td>
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<td>WC018X7</td>
<td>3.2 (1/8)</td>
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<tr>
<td>WC532X7</td>
<td>4.0 (5/32)</td>
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<tr>
<td>Rare Earth (EWG)</td>
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</tr>
<tr>
<td>WL2040X7</td>
<td>1.0 (0.040)</td>
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<tr>
<td>WL2116X7</td>
<td>1.6 (1/16)</td>
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</tr>
<tr>
<td>WL2332X7</td>
<td>2.4 (3/32)</td>
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</tr>
<tr>
<td>WL2018X7</td>
<td>3.2 (1/8)</td>
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</tr>
<tr>
<td>WL2532X7</td>
<td>4.0 (5/32)</td>
<td></td>
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<tr>
<td>2% Lanthanated (EWLa-2)</td>
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<td></td>
</tr>
<tr>
<td>WL2040X7</td>
<td>1.0 (0.040)</td>
<td></td>
</tr>
<tr>
<td>WL2116X7</td>
<td>1.6 (1/16)</td>
<td></td>
</tr>
<tr>
<td>WL2332X7</td>
<td>2.4 (3/32)</td>
<td></td>
</tr>
<tr>
<td>WL2018X7</td>
<td>3.2 (1/8)</td>
<td></td>
</tr>
<tr>
<td>WL2532X7</td>
<td>4.0 (5/32)</td>
<td></td>
</tr>
<tr>
<td>2% Thoriated (EWTh-2)</td>
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</tr>
<tr>
<td>WL2040X7</td>
<td>1.0 (0.040)</td>
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</tr>
<tr>
<td>WL2116X7</td>
<td>1.6 (1/16)</td>
<td></td>
</tr>
<tr>
<td>WL2332X7</td>
<td>2.4 (3/32)</td>
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</tr>
<tr>
<td>WL2018X7</td>
<td>3.2 (1/8)</td>
<td></td>
</tr>
<tr>
<td>WL2532X7</td>
<td>4.0 (5/32)</td>
<td></td>
</tr>
</tbody>
</table>

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

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

AK125C
For W-125 Micro Series. Includes one long back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (0.020-1/8 in., 1/8-3/16 in.) gas lens. collet, and one of each size (1/16, 3/32, 1/8 in.) of the following: 180-degree chuck, 45-degree chuck, 90-degree chuck, and 7-inch 2% ceriated tungsten electrode.

AK18C
For W-400 Super Cool. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (3/32, 1/8 HD, 5/32 HD) collet body, and one of each size (3/32, 1/8, 5/32 inch) 7-inch 2% ceriated tungsten electrode.

AK3G
For A-150, A-200 and A-250. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

AK1C
For A-125 Series. Includes one long back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

AK2C
For A-150 Series. Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

AK3C
For A-200 Series, A-250 Series and A-350 Series. Includes one short back cap, one of each size (#5, #6, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

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

**AK3G**
Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

**Quick Connects**

**QRG**
Allows for quick connection and removal of torch shielding gas hoses.

**QRW**
Allows for quick connection and removal of torch coolant hoses.

**Cable Covers**

**WC-3-10**
3 m (10 ft.)

**WC-3-22**
6.7 m (22 ft.)

**WC-3-48**
14.6 m (48 ft.)

Cable covers protect the welding cables from the day-to-day wear and tear of common welding environments. Available in 10-foot, 22-foot, and 48-foot lengths, these covers can help prevent the frequent replacement of expensive welding cable.

**Remote Controls**

See Accessories section for more information.

- **East/west rotary-motion**
  fingertip current/contactor controls.

- **North/south rotary-motion**
  fingertip current/contactor controls.

- **Foot pedal current/contactor controls.**

- **Miniature hand current/contactor controls.**

- **Momentary- and**
  maintained-contact rocker switch for contactor control.

- **Momentary-contact switch**
  for contactor control.

- **Remote on/off control.**
Insight Welding Intelligence™: The Total Welding Data Solution
With an Insight weld monitoring system you can get more done, produce higher-quality welds and control costs.

Choose the Right Welding Intelligence System

<table>
<thead>
<tr>
<th>For Use With</th>
<th>Factory-Installed</th>
<th>Field-Installed/Activated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insight Core™</strong></td>
<td>• Continuum™/Auto-Continuum™ (standard)</td>
<td>• 14-pin compliant power source (see MillerWelds.com/insight)</td>
</tr>
<tr>
<td><strong>Insight Centerpoint™</strong></td>
<td>• Continuum™/Auto-Continuum™ (optional)</td>
<td></td>
</tr>
<tr>
<td><strong>Insight ArcAgent™</strong></td>
<td>• ANY welding power source (old or new)</td>
<td>• ANY welding process</td>
</tr>
</tbody>
</table>

**Requirements**
- Internet connection (wired/wireless)
- PC and Ethernet connection
- See Insight ArcAgent literature WI/1.0

**What Capability Do You Need?**
- Productivity monitoring
- Weld parameter verification
- Goal setting
- Analytic tools
- Ensure quality welds
- Reduce missed welds
- Minimize overwelding/underwelding
- Electronic work instructions
- Universal solution for use with Insight Core or Insight Centerpoint

**Data Storage**
- Cloud based
- Local server or PC
- See Insight ArcAgent literature WI/1.0
**Insight Core™**

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

**How it works**

Simple, cloud-based welding information management solution that reports operator productivity and deposition — by location, work cell, power source or operator.

- **How it works**
  - Internet Connection
  - Any Device with an Internet Browser
  - No mandatory subscription fees
  - Uses standard web browsers; no software or applications to install or maintain
  - Onboard memory for those times when internet connections go down
  - Innovative USB setup support for quick installation, easy data transfer and fast firmware updates

**Software features**

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

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

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

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

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

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

**Universal brand capability**

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

---

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

---

**Type**

<table>
<thead>
<tr>
<th>Factory-Installed Insight Core</th>
<th>Field-Installed Insight Core</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Sources</strong></td>
<td><strong>Power Sources</strong></td>
</tr>
<tr>
<td>Deltaweld® 350 (907747002) 208/230/460 V</td>
<td>—</td>
</tr>
<tr>
<td>Deltaweld® 500 (907785002) 208/230/460 V</td>
<td>—</td>
</tr>
<tr>
<td>Continuum 350 (907636)</td>
<td>—</td>
</tr>
<tr>
<td>Continuum 500 (907640)</td>
<td>—</td>
</tr>
<tr>
<td>Auto-Continuum 350 (907656)</td>
<td>—</td>
</tr>
<tr>
<td>Auto-Continuum 500 (907657)</td>
<td>—</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th><strong>14-Pin Compliant Power Sources</strong></th>
<th><strong>14-Pin Compliant Power Sources</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Miller 14-Pin Compliant Power Sources</td>
<td>Miller 14-Pin Compliant Power Sources</td>
</tr>
<tr>
<td>Requires Insight Core 14-pin module™ (301072), CE</td>
<td>Requires Insight Core 14-pin module™ (301072), CE</td>
</tr>
</tbody>
</table>

**ArcAgent for Insight Core**

(301351) Stud current sensor 600 A (301364) Stud sensor cable 7.6 m
(301516) Dinse volt sense cable 7.6 m (3011496) Dinse ArcAgent, CE

(301357) Dinse current sensor 600 A (301367) Dinse sensor cable 7.6 m
(301516) Dinse volt sense cable 7.6 m (3011496) Dinse ArcAgent, CE

---

1 Additional stock numbers are available — visit MillerWelds.com/insight.
2 SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit (301295).
3 TIG applications require TIG Filter (301359) to monitor voltage.
Advanced, real-time operator feedback solution to prevent missed welds, enforce proper weld sequences and ensure consistent weld quality.

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

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

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

**Job tracking.** A browser-based user interface eliminates the need for a PC in the workstation, allowing an operator to easily record everything that goes into creating a part.

---

**Benefits for everyone in your operation**
- Create a full record of every weld on every part
- Present welders with step-by-step instructions
- Have confidence that parts are properly welded

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

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

---

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

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

---

1 Additional stock numbers are available — visit MillerWelds.com/insight.

---

**Type** | **Power Sources** | **Universal Adaptability (works with ALL brands/models of power sources)** | **Insight Centerpoint Software** | **Accessories**
--- | --- | --- | --- | ---
Optional Factory-Installed Insight Centerpoint | Deltaweld® 350 (907747002) Deltaweld® 500 (907785002) Continuum 350 (907636) Continuum 500 (907640) Auto-Continuum 350 (907656) Auto-Continuum 500 (907657) | | Software activation (Serial number required)
Field-Installed Insight Centerpoint | – | – | –

Requires ArcAgent Manual or Auto (301345) Manual with Insight torch capability, CE (301346) Auto, CE

--

**Server Running Centerpoint Central Station**

**Operations Manager**

**Quality Manager**

**Weld Supervisor**

**How it works**

---

**For more information:**
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---

1 Additional stock numbers are available — visit MillerWelds.com/insight.
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 110 kg (242 lb.). That’s up to 20 kg (45 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.

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.
Bobcat™/Trailblazer® Gas Model Comparison – Which is Right for You?

<table>
<thead>
<tr>
<th>Sound Levels (at 23 feet)</th>
<th>Bobcat 225</th>
<th>Bobcat 260</th>
<th>Trailblazer 325</th>
</tr>
</thead>
<tbody>
<tr>
<td>At Maximum Load / At 150 Amps</td>
<td>73.5 dB / 72 dB</td>
<td>72.5 dB / 72 dB</td>
<td>74 dB / 65 dB</td>
</tr>
<tr>
<td>Fuel System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Typical Runtime per 12-Gallon Tank*</td>
<td>13 hours</td>
<td>13 / 15.5 hours with EFI</td>
<td>Up to 21 hours with options</td>
</tr>
<tr>
<td>Efficiency</td>
<td>Good</td>
<td>Good / Very good with EFI</td>
<td>Excellent</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline</td>
<td>Gasoline or LP</td>
<td>Gasoline or LP</td>
</tr>
<tr>
<td>Delivery</td>
<td>Carburetor</td>
<td>Carburetor or EFI available</td>
<td>Carburetor or EFI available</td>
</tr>
<tr>
<td>Generator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peak Watts</td>
<td>11,000 watts</td>
<td>11,000 / 12,000 watts with EFI</td>
<td>12,000 watts</td>
</tr>
<tr>
<td>Clean Power Quality</td>
<td>Very good / Excellent</td>
<td>Very good / Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Power While Welding</td>
<td>Fair / Good – With voltage control set near maximum</td>
<td>Good – Easier to fine-tune with arc voltage control near maximum</td>
<td>Independent weld and generator power with no interaction between tools and welding arc</td>
</tr>
<tr>
<td>Excel™ Power Generator (120 V, 60 Hz at all engine speeds)</td>
<td></td>
<td></td>
<td>Excel power available (EFI models)</td>
</tr>
<tr>
<td>Weld Performance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stick</td>
<td>Good / Very good</td>
<td>Very good</td>
<td>Excellent</td>
</tr>
<tr>
<td>MIG — Wire (solid / FCAW), Steel</td>
<td>Fair (0.035 in.)</td>
<td>Good (0.035 – 0.16 in.)</td>
<td>Excellent (0.023 – 0.16 in.)</td>
</tr>
<tr>
<td>MIG — Wire, Aluminum with Spool Gun</td>
<td>Fair / Good (add WC-115A with contactor)</td>
<td>Very good (add WC-115A with contactor)</td>
<td>Excellent (add WC-24)</td>
</tr>
<tr>
<td>DC TIG (steel)</td>
<td>Good</td>
<td>Very good</td>
<td>Excellent</td>
</tr>
<tr>
<td>AC Weld</td>
<td>60 – 160 amps</td>
<td>40 – 260 amps</td>
<td>Add Dynasty®</td>
</tr>
<tr>
<td>Carbon Arc Gouging</td>
<td></td>
<td></td>
<td>Very good</td>
</tr>
<tr>
<td>Key Features</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Meters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance Displays</td>
<td>Hours / Oil change</td>
<td>Hours / Oil change / Fuel</td>
<td>Hours / Oil change / Fuel / rpm</td>
</tr>
<tr>
<td>Battery Charge / Crank Assist</td>
<td></td>
<td></td>
<td>12 / 24-volt available</td>
</tr>
<tr>
<td>14-pin Receptacle</td>
<td></td>
<td></td>
<td>With Auto Remote Sense®</td>
</tr>
<tr>
<td>ArcReach</td>
<td></td>
<td></td>
<td>ArcReach technology available</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Compressed Air</th>
<th>Bobcat 200 Air Pak</th>
<th>Trailblazer 302 Air Pak</th>
<th>Big Blue 800 Duo Air Pak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobcat 200 Air Pak</td>
<td>28 cfm, 175 psi</td>
<td>31 cfm, 160 psi</td>
<td>60 cfm, 100 psi</td>
</tr>
<tr>
<td>Battery Charge / Crank Assist</td>
<td>12 / 24-volt</td>
<td>12 / 24-volt</td>
<td>12 / 24-volt</td>
</tr>
<tr>
<td>Generator Power</td>
<td>Single-phase Peak: 5,500 watts Continuous: 5,500 watts</td>
<td>Peak: 13,000 watts Continuous: 11,000 watts</td>
<td>Peak: 15,000 watts Continuous: 12,000 watts</td>
</tr>
<tr>
<td></td>
<td>Three-phase</td>
<td></td>
<td>Peak: 27,000 watts Continuous: 20,000 watts</td>
</tr>
<tr>
<td>Weld Output Range</td>
<td>50 – 210 amps (CC/DC)</td>
<td>10 – 300 amps (CV/DC, CC/DC, CC/AC)</td>
<td>Single weld mode: 40 – 800 amps Dual weld mode: 20 – 400 amps (CV/DC, CC/DC)</td>
</tr>
<tr>
<td>Fuel Type</td>
<td>Gas</td>
<td>Gas</td>
<td>Diesel</td>
</tr>
<tr>
<td>Size</td>
<td>23.76 x 20 x 46.64 in.</td>
<td>28 x 20 x 59.625 in.</td>
<td>46 x 28.5 x 69.5 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>558 lb.</td>
<td>771 lb.</td>
<td>2,095 lb.</td>
</tr>
<tr>
<td>ArcReach</td>
<td></td>
<td></td>
<td>ArcReach technology standard</td>
</tr>
</tbody>
</table>
Bobcat™ 200 Air Pak™

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

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

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

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

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

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

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

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

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

---

**Engine-Driven**

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

1With voltage-sensing feeder.
2Two-piece TIG torch recommended.

**Engines**
- EFI gas: Kohler ECH730
  23.5 hp at 3,600 rpm
  Twin-cylinder, four-cycle, overhead valve, industrial, air-cooled
- EPA Tier 4 Final Diesel: Kubota D722
  19 hp at 3,600 rpm
  Three-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

**Most popular accessories**
- ArcReach® SuitCase® Feeders
- Spoolmate™ 200  300497
- Spoolmatic® 30A  13083
- Spectrum® 375 X-TREME™
- Multi-Terrain Running Gear 301460
- Full KVA Adapter Cord 300517
- Protective Cover
  - 301475  Gas without running gear
  - 301476  Gas with running gear
  - 301531  Diesel without running gear
  - 301532  Diesel with running gear
- HWY-Mid Frame Trailer 301438
- 25 ft. Battery Charge/Jump Cables with Plug  300422
- Air Compressor Oil Heater  301448
- Air Dryer Kit  301488
- Spool Gun Extension Hose and Cable Kit 132228
- HWY-Mid Frame Trailer 301438
- 25 ft. Battery Charge/Jump Cables with Plug 300422
- Air Compressor Oil Heater 301448
- Air Dryer Kit 301488
- Spool Gun Extension Hose and Cable Kit 132228

---

**Technical Specifications**

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Welding Mode</th>
<th>Welding 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>Bobcat 200 Air Pak (907771) Kohler</td>
<td>CC/DC</td>
<td>DC stick/TIG</td>
<td>30–210 A</td>
<td>120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle</td>
<td>Peak: 8,000 watts Continuous: 6,500 watts</td>
<td>H: 616 mm (24.25 in.) W: 508 mm (20 in.) D: 756 mm (29.78 in.)</td>
<td>233 kg (514 lb.)</td>
</tr>
<tr>
<td>Bobcat 200 Air Pak Diesel (907760) Kubota</td>
<td>CC/DC</td>
<td>DC stick/TIG</td>
<td>30–210 A</td>
<td>120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle</td>
<td>Peak: 8,000 watts Continuous: 6,500 watts</td>
<td>H: 734 mm (28.875 in.) W: 508 mm (20 in.) D: 756 mm (29.75 in.)</td>
<td>280 kg (618 lb.)</td>
</tr>
<tr>
<td>Rotocomp Air Compressor</td>
<td>Features</td>
<td>Free Air Delivery</td>
<td>Working Pressure</td>
<td>Duty Cycle</td>
<td>Oil Capacity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
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<td>-----------------</td>
<td>-----------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Rotary screw with electric clutch for on/off, oil change intervals 500 hours</td>
<td>0.85 m³/min. (30 cfm) at 3,600 rpm</td>
<td>80-175 psig</td>
<td>100%</td>
<td>1.89 L (2 qt.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
New Remote Solutions for Miller® Engine Drives

Remote Start/Stop

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

Wireless Interface Control

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

Remote Output Panel Kit

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

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

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

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

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

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

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

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

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

Compact design
Bobcat welder/generators can easily be moved around and take up less space, leaving more room on your truck for other equipment and tools.
Bobcat™ 225 (Gas) See literature ED/4.41

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

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

Bobcat™ 3 Phase (Gas) See literature ED/4.33

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

Bobcat™ 260 (Gas, LP or Diesel) See literature ED/4.42

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

Convenient front panel fuel gauge.

Precise amperage settings with wide range for optimal stick/flux-cored welding.

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

---

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

Adding EFI to your Bobcat 260 welder/generator provides multiple benefits. With EFI you’ll get faster, more reliable starts in any weather – no choke adjustments needed. EFI-equipped Bobcat 260 machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you’ll spend more of your time welding, improving productivity.

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobcat 225</td>
<td>(907791001)</td>
<td>Kohler</td>
<td>CC/AC</td>
<td>150 A at 25 V, 100% duty cycle</td>
<td>Single-phase Peak: 11,000 watts Continuous: 9,500 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>220 kg (485 lb.)</td>
</tr>
<tr>
<td></td>
<td>(907791) Kohler with GFCI</td>
<td>CC/DC</td>
<td>225 A at 25 V, 100% duty cycle</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td></td>
<td>D: 1,029 mm (40.5 in.)</td>
<td>225 kg (495 lb.)</td>
</tr>
<tr>
<td></td>
<td>(907790) Kohler</td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>19-28 V</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobcat 3 Phase</td>
<td>(9077905)</td>
<td>Kohler with GFCI</td>
<td>CC/AC</td>
<td>200 A at 25 V, 100% duty cycle</td>
<td>Single-phase/three-phase Peak: 11,000 watts Continuous: 9,500/10,000 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>220 kg (485 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CC/DC</td>
<td>210 A at 25 V, 100% duty cycle</td>
<td></td>
<td>D: 1,029 mm (40.5 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>19-28 V</td>
<td>200 A at 20 V, 100% duty cycle</td>
<td></td>
</tr>
<tr>
<td>Bobcat 260</td>
<td>(907792001)</td>
<td>Kohler with GFCI</td>
<td>CC/AC</td>
<td>260 A at 25 V, 60% duty cycle</td>
<td>Single-phase Peak: 11,000 watts Continuous: 9,500 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>227 kg (501 lb.)</td>
</tr>
<tr>
<td></td>
<td>(9077922)</td>
<td>Kohler with electric fuel pump*</td>
<td>CC/DC</td>
<td>260 A at 25 V, 60% duty cycle</td>
<td></td>
<td>D: 1,029 mm (40.5 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(907792002)</td>
<td>Kohler with EFI</td>
<td>CV/DC</td>
<td>275 A at 25 V, 60% duty cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>17-28 V</td>
<td>260 A at 25 V, 60% duty cycle</td>
<td></td>
</tr>
<tr>
<td>Bobcat 260 Diesel</td>
<td>(907790)</td>
<td>Kubota with GFCI</td>
<td>CC/AC</td>
<td>260 A at 25 V, 100% duty cycle</td>
<td>Single-phase Peak: 11,000 watts Continuous: 9,500 watts</td>
<td>H: 711 mm (28 in.)</td>
<td>289 kg (638 lb.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CC/DC</td>
<td>275 A at 25 V, 60% duty cycle</td>
<td></td>
<td>D: 1,153 mm (45.375 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>17-28 V</td>
<td>260 A at 25 V, 60% duty cycle</td>
<td></td>
</tr>
</tbody>
</table>

---

*Electric fuel pump recommended for operation at altitudes above 1524 m (5,000 feet).
**For LP model order Hose and LP Tank Mounting Assembly (300917) separately.
Trailblazer® Series Gas, LP and Diesel

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

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

**Auto-Speed™ technology**

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

**Unbeatable arc performance**

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

**Increased performance at high altitude**

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

**More productive jobsites**

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

**ArcReach® remote control technology**

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

An ArcReach system allows you to change weld settings from your ArcReach feeder or remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs. Learn more at MillerWelds.com/arcreach.
## Options to Maximize Your Trailblazer® 325 Performance

### Electronic fuel injection (EFI) (gas models)

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

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

### Excel® power

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

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

### Battery charge/crank assist (gas models)

Reduce downtime with battery charge/crank assist capability. Designed and recommended for mechanics or anyone responsible for a fleet of trucks or equipment. By using your Trailblazer to charge dead batteries or jump a stubborn engine, you’ll keep your crew working and the fleet up and running. Provides up to 75 amps 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.

### Processes

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

1. With wire feeder.
2. Two-piece TIG torch recommended.
3. ArcReach models only with ArcReach Smart Feeder.

### Engines

**Gas**
- Kohler CH730T 23.5 hp at 3,600 rpm
- EFI gas: Kohler ECH730T 23 hp at 3,600 rpm
- LP: Kohler CH730LP 23.5 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

Note: Engines are warranted separately by engine manufacturer.

### Most popular accessories

- SuitCase® Feeders
- ArcReach Smart Feeder
- ArcReach® Stick/TIG Remote
- ArcReach® Heater
- Spoolmatic® 30A/WC-24 Control
- Running Gear
- Protective Cage with Cable Holders
- Hose and LP Tank Mounting Assembly
- Full KVA Adapter Cord
- Protective Cover
- Remote Output Panel Kit 951850
- HWY-Mid Frame Trailer
- Electric Fuel Pump Kit 300976 (gas models only, recommended for operation at altitudes above 1,524 m (5,000 ft.))
- 7.6 m (25 ft.) Battery Charge/Jump Cables with Plug 300422 (Trailblazer 325 EFI 907798004 only)
- Wireless Interface Control Screen Protectors 287594 (5 pack)

4. For ArcReach models only.

### Weight

**Gas or LP**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Welding Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Single-Phase Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailblazer 325</td>
<td>(907787) Kohler</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>10–325 A (Gas)</td>
<td>325 A at 28 V, 100% duty cycle (Gas)</td>
<td>Peak: 12,000 watts, 10,500 watts (LP)</td>
<td>Continuous: 10,500 watts, 10,000 watts (LP)</td>
<td>H: 711 mm (28 in.), H: 832 mm (32.75 in.)</td>
</tr>
<tr>
<td></td>
<td>(907790001) Kohler with GFCI</td>
<td>CV/DC</td>
<td>MIG/FCAW</td>
<td>10–35 V</td>
<td></td>
<td>Excel power (optional) 2,400 watts</td>
<td>20 A at 120 V, 60 Hz pure generator power @ 100% duty cycle</td>
<td>215 kg (475 lb.)</td>
</tr>
</tbody>
</table>

**Diesel**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Welding Mode</th>
<th>Welding Process</th>
<th>Amp/Volt Ranges</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Single-Phase Generator Power at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailblazer 325 Diesel</td>
<td>(907799) Kubota</td>
<td>CC/DC</td>
<td>Stick/TIG</td>
<td>10–325 A</td>
<td>325 A at 33 V, 100% duty cycle</td>
<td>Peak: 12,000 watts, 10,500 watts (LP)</td>
<td>Continuous: 10,500 watts, 10,000 watts (LP)</td>
<td>H: 711 mm (28 in.), H: 876 mm (34.5 in.)</td>
</tr>
</tbody>
</table>
**Trailerblazer® 302 Air Pak™** See literature ED/4.78

**Powerful all-in-one tool designed for repair and construction with multiprocess weld quality,**
**generator power, air compressor and battery charge/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 independent of weld settings — can power a Spectrum® 875 plasma cutter, and provide air for plasma cutting at the same time (rated 13 mm [1/2 in.]) mild steel).

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

**Battery charge/crank assist.** Provides selectable 12- or 24-volt battery charging with up to 450 amps of battery crank assist capability. Convenient front panel access.

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

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**Big Blue® 400X Pro** See literature ED/5.7

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 arc characteristics to be changed for specific applications and electrodes. Smooth running 7018 or stiffer, more penetrating 6010.

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

**10,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc! **Quiet operation.** Only 71.6 decibels (96 Lwa) under full load. Improves jobsite communication and safety.

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

**Processes**
- AC/DC stick (SMAW)
- MIG (GMAW)®
- Flux-cored (FCAW)®
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)
- With wire feeder.
- With Dynasty® 210 Series.
- 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® Feeders
- Spoolmatic® 30A Aluminum Spool Gun / WC-24 Control
- HWF-Mid Frame Trailer 301438
- 7.6 m (25 ft.) Battery Charge/Jump Cables with Plug, 300422

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

**Welding Mode**
- CC/DC
- CV/DC
- CC/AC

**Process**
- Stick/TIG
- MIG/FCAW
- Stick/TIG

**Amp/Volt Ranges**
- 20–400 A
- 14–40 V
- 10–225 A
- 10–300 A
- 13–35 V
- 350 A
- 350 A
- 350 A
- 32 V

**Rated Weld Output at 40°C (104°F)**
- 300 A at 32 V
- 300 A at 32 V, 100% duty cycle
- 350 A at 32 V
- 350 A at 32 V, 100% duty cycle
- 200 A at 25 V
- 11,000 watts
- 40°C (104°F)

**Single-Phase Generator Power at 40°C (104°F)**
- Peak: 13,000 watts
- Continuous: 11,000 watts

**Dimensions**
- H: 711 mm (28 in.)
- W: 508 mm (20 in.)
- D: 876 mm (34.5 in.) to top of exhaust

**Net Weight**
- 350 kg (771 lb.)

---

**Processes**
- Stick (SMAW) • MIG (GMAW) • Flux-cored (FCAW) • AC/DC TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)
- *ArcReach models only with ArcReach Smart Feeder.

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

**CAT C1.5:**
- 21.7 hp at 1,800 rpm
- Four-cylinder, industrial, 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.**
Big Blue® 500X Pro  See literature ED/11.0

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

**ArcReach**

Remote control of the power source without a control cord.

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.

**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 8 mm carbons)

*ArcReach models only with ArcReach Smart Feeder.

**Diesel engine**

Deutz D2011L03i

3-cylinder, industrial, air/oil-cooled

Note: Engines are warranted separately by engine manufacturer.

**Most popular accessories**

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

**For ArcReach models only.**

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**Engine Specifications**

**Rated Output at 40°C (104°F)**

- 400 A at 36 V, 100% duty cycle
- 450 A at 33 V, 60% duty cycle
- 500 A at 30 V, 40% duty cycle

**Generator Power at 40°C (104°F)**

- Three-phase
  - Peak: 27,000 watts
  - Continuous: 20,000 watts
- Single-phase
  - Peak: 15,000 watts
  - Continuous: 12,000 watts

**Dimensions**

- H: 1,067 mm (42 in.)
- W: 724 mm (28.5 in.)
- D: 1,654 mm (65.1 in.)

**Net Weight**

- 694 kg (1,530 lb.)
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.

Big Blue® 500X CC and 600X CC

See literature ED/10.11

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

Diesel engines
- 500X – Deutz D2011L03i
  3-cylinder, industrial, air/oil-cooled
- 500X – Perkins 404D-22
  4-cylinder, industrial, liquid-cooled
- 600X – Deutz D2011L04i
  4-cylinder, industrial, air/oil-cooled

Note: Engines are warranted separately by engine manufacturer.

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

Big Blue® 500X CC and 600X CC

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

Big Blue 600 X CC (907193) | (907193001) | Deutz D2011L04i with auto idle, V-A meters and battery meter | | 65-600 A | 500 A at 40 V (20 kW), 100% duty cycle 550 A at 34 V (18.7 kW), 60% duty cycle 600 A at 30 V (18 kW), 40% duty cycle | | Deutz: 769 kg (1695 lb.)
### Big Blue® 450 Duo CST™

Durable dual-operator welder/generator delivers proven CST stick/TIG performance with two superior arcs in one compact package, for maximum productivity and efficiency.

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

**Quiet operation.** At 72.1 decibels (97 Lwa) under full load, it’s quieter than most single-operator models. Improves jobsite communication and safety.

**Vandalism lockout kit** (not shown). Lockable hinged steel panel protects front control panels and ignition switch.

**Simple-to-operate process selector knob** automatically sets proper DIG setting on E6010 and E7018 electrodes for superior stick performance.

**Lift-Arc™** start for TIG starts without the use of high frequency.

**Remote amperage control** permits the use of standard and wireless amperage control devices.

**Increased efficiency.** More arcs and better fuel economy equal increased profits for your business. Estimated savings are up to 34 percent with a dual-operator unit versus two single-operator units.

#### Technical Specifications

<table>
<thead>
<tr>
<th>Stock Number (907477)</th>
<th>Process</th>
<th>Output Mode</th>
<th>Amperage Range</th>
<th>Rated Output at 50°C (122°F)</th>
<th>Single-Phase Generator Power at 50°C (122°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diesel</strong></td>
<td>Mitsubishi</td>
<td>DC stick/TIG</td>
<td>Separate (dual outputs)</td>
<td>5-225 (each side)</td>
<td>175 A at 27 V, 100% duty cycle</td>
<td>Continuous: 10,000 watts</td>
<td>H: 813 mm (32 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paralleled (combined)</td>
<td>10-450</td>
<td>350 A at 27 V, 100% duty cycle</td>
<td></td>
<td></td>
<td>W: 667 mm (26.25 in.)</td>
</tr>
</tbody>
</table>

**Engine**

**Diesel engine**

- **EPA Tier 4 Final**
- **Mitsubishi S4L2:** 24.7 hp at 1,800 rpm
- Four-cylinder, industrial, liquid-cooled
- Note: Engine is warranted separately by engine manufacturer.

**Most popular accessories**

- Full KVA Adapter Cord 300517
- Single-Phase Full KVA Plug Kit 119172
- **Protective Cover** 195301
- HWY-Mid Frame Trailer 301438
- Spark Arrestor Kit 195012

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### 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.

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

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.

#### Technical Specifications

<table>
<thead>
<tr>
<th>Stock Number (907762)</th>
<th>Welding Mode/Process</th>
<th>Output Mode</th>
<th>Amp Range</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Generator Output Rated at 40°C (104°F)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diesel</strong></td>
<td>Deutz with ArcReach and Parallel Switch</td>
<td>CC/DC (Stick/TIG)</td>
<td>Separate (dual outputs)</td>
<td>20-400 A (each side)</td>
<td>300 A at 28 VDC, 100% duty cycle 400 A at 36 VDC, 40% duty cycle</td>
<td>Three-Phase: 20,000 watts continuous or Single-Phase: 12,000 watts continuous 380/400V Three-Phase Auxiliary Power</td>
<td>H: 1,092 mm (43 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Separated (combined)</td>
<td>500 A at 34 VDC, 100% duty cycle 700 A at 24 VDC, 60% duty cycle</td>
<td></td>
<td></td>
<td></td>
<td>W: 724 mm (28.5 in.)</td>
</tr>
<tr>
<td></td>
<td>CV/DC (MIG/FCAW)</td>
<td>Separate (dual outputs)</td>
<td>14-50 V (each side)</td>
<td>300 A at 28 VDC, 100% duty cycle 400 A at 34 VDC, 40% duty cycle</td>
<td></td>
<td></td>
<td>D: 1,654 mm (65.125 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Parallel (combined)</td>
<td>500 A at 34 VDC, 100% duty cycle 700 A at 24 VDC, 60% duty cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Engine**

**Diesel engine Deutz D2011L04i:**

- **Heavy industrial**
- **Spectrum® 875**
- **ArcReach® SuitCase®**
- **ArcReach® Stick/TIG Remote 301325**
- **Wireless Remote Hand Control/Wireless Antenna Kit 300430/300749**
- **Engine Filter Kit 246988**
- **Protective Cover 194683**
- **HWY-225 Trailer 301338**
- **Engine Plug Kit 246988**

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### Additional Features

- **ArcReach Smart Feeder 300935**
- **Spark Arrestor Kit 195012**
- **HWY-225 Trailer 301338**
- **Engine Filter Kit 246988**
Big Blue® 800X Duo Air Pak™ See literature ED/13.0

The most powerful diesel welder/generator in the industry. Robust output for welding and power generation, and ideal for dual-operator applications on labor intensive jobsites, or jobsites with limited space.

Multi-arc welding. One dependable engine — two independent arcs with up to 400 amps each. Or plug in additional inverters for a true multioperator work platform! Example: Two additional XMT machines equals four operators, up to 200 amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multioperator welding has never been easier or more versatile.

Increased efficiency. More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.

Simple paralleling switch makes switching from a single operator to dual operators a breeze. Weld up to 400 amps per side when set up in dual-operator mode, or up to 800 amps in single-operator mode.

Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing. Air Pak model adds air pressure and compressor hours displays.

Multi-arc welding. One dependable engine — two independent arcs with up to 400 amps each. Or plug in additional inverters for a true multioperator work platform! Example: Two additional XMT machines equals four operators, up to 200 amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multioperator welding has never been easier or more versatile.

Increased efficiency. More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.

Simple paralleling switch makes switching from a single operator to dual operators a breeze. Weld up to 400 amps per side when set up in dual-operator mode, or up to 800 amps in single-operator mode.

Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing. Air Pak model adds air pressure and compressor hours displays.

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

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

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

Standard features include digital meters with SunVision,™ automatic idle, 120-volt block heater and vandalism lockout (protects control panel and receptacles, see photo at right).

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

Stock Number*  Welding Mode/Process  Output Mode  Amp/Volt Ranges  Rated Output at 100% Duty Cycle at 40°C (104°F)  Generator Power at 40°C (104°F)  Dimensions  Net Weight
(907763) Deutz with ArcReach CC/DC (Stick/TIG)  Separate (dual outputs)  20–400 A  400 A at 36 V (each side)  Three-phase  Peak: 27,000 watts  Continuous: 20,000 watts  380/400V Three-phase auxiliary power  Single-phase  Peak: 15,000 watts  Continuous: 12,000 watts  H: 1,188 mm (46 in.)  W: 724 mm (28.5 in.)  D: 1,765 mm (69.5 in.)  968 kg (2,095 lb.)

Ingersoll Rand CESS G1 Air Compressor  Features  Free Air Delivery  Working Pressure Constant  Duty Cycle  Oil Capacity
Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours  Idle: 1.13 m³/min (40 cfm)  Weld: 1.70 m³/min (60 cfm)  100 psig (7 bar)  100%  3.79 L (4 qt.)
Miller offers an array of versatile submerged arc components, including power sources, controls, wire drives, torches, tractors and a variety of other accessories.

## SubArc Digital Series

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.

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

### Most popular accessories
- 14-pin Insight Core™ Module 301072
- ArcAgent™ Auto 301346
- 4.6 m (15 ft.) SubArc Parallel Cable 260775015
- 4.6 m (15 ft.) SubArc Tandem Cable 260878015

### SubArc DC Series

See literature AD/7.3

![SubArc Digital Series](image)

Two DC power source models and one AC/DC power source model. Power sources have sufficient power capacity to cover applications from traditional DC single-arc to multi-wire tandem welding. In the case of electroslag welding or other high-current demand, two or more power sources can easily be paralleled (both DC and AC/DC machines).

Low-voltage accessory operation and improved environmental protection. The Digital Series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated providing a high level of protection for harsh environments.

Easy to integrate. Our SubArc power sources are easy to integrate by using a standard Modbus® connection.

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

---

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Amperage Range (CC Mode)</th>
<th>Voltage Range (Sub Arc Mode)</th>
<th>Rated Output</th>
<th>IP Rating</th>
<th>Amps Input at Rated Output, 50 Hz KVA</th>
<th>Max Open-Circuit Voltage</th>
<th>Dimensions (Includes lift eye, but not strain relief)</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc DC 650 Digital (907622)</td>
<td>50–815 A</td>
<td>20–44 V</td>
<td>650 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>95 90 83 50 34.8</td>
<td>75 Vpk</td>
<td>H: 762 mm (30 in.) W: 584 mm (23 in.) D: 965 mm (38 in.)</td>
<td>269 kg (593 lb.)</td>
</tr>
<tr>
<td>SubArc DC 800 Digital (907623)</td>
<td>380/400/440 V, 50 Hz, CE</td>
<td>100–1,250 A</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>135 128 117 73 53</td>
<td>68 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
<td>309 kg (682 lb.)</td>
</tr>
<tr>
<td>SubArc AC/DC 1000 Digital (907624)</td>
<td>230/460/575 V, 60 Hz</td>
<td>100–1,250 A</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>179 176 – 122 67</td>
<td>93 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
<td>538 kg (1,187 lb.)</td>
</tr>
<tr>
<td>SubArc AC/DC 1000 Digital (907620)</td>
<td>460 V, 60 Hz</td>
<td>300–1,250 A</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>179 176 – 122 67</td>
<td>93 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
<td>538 kg (1,187 lb.)</td>
</tr>
<tr>
<td>SubArc AC/DC 1250 Digital (907621)</td>
<td>380/400 V, 50 Hz, CE</td>
<td>300–1,250 A</td>
<td>1,000 A at 44 V, 100% duty cycle</td>
<td>IP23</td>
<td>179 176 – 122 67</td>
<td>93 Vpk</td>
<td>H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)</td>
<td>538 kg (1,187 lb.)</td>
</tr>
</tbody>
</table>

*While idling.
SubArc Interface Control

See literature AD/7.3

**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.

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power from Welding Power Source</th>
<th>Welding Power Source Type</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc Interface Digital (300936), CE</td>
<td>24 VAC, 1-phase, 25 A, 50/60 Hz</td>
<td>Constant voltage (CV), AC or DC, with remote contactor and output control capabilities</td>
<td>H: 292 mm (11.5 in.) W: 305 mm (12 in.) D: 178 mm (7 in.)</td>
<td>7.2 kg (15.8 lb.)</td>
</tr>
</tbody>
</table>

SubArc Remote Operator Interface

See literature AD/7.3

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

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

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

<table>
<thead>
<tr>
<th>Model/Stock Number</th>
<th>Input Power from Welding Power Source</th>
<th>Welding Power Source Type</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc Motor Control Digital (301425), CE (requires SubArc Remote Pendant Digital below and Continuum control/motor cable)</td>
<td>24 VAC, 1-phase, 25 A, 50/60 Hz</td>
<td>Constant voltage (CV), AC or DC, with remote contactor and output control capabilities</td>
<td>H: 292 mm (11.5 in.) W: 305 mm (12 in.) D: 178 mm (7 in.)</td>
<td>5.9 kg (13 lb.)</td>
</tr>
<tr>
<td>SubArc Remote Pendant Digital (301424), CE (requires SubArc Motor Control Digital above and Continuum control/motor cable)</td>
<td>24 VAC, 1-phase, 25 A, 50/60 Hz</td>
<td>Constant voltage (CV), AC or DC, with remote contactor and output control capabilities</td>
<td>H: 279 mm (11 in.) W: 270 mm (10.63 in.) D: 80 mm (3.125 in.)</td>
<td>1.4 kg (3 lb.)</td>
</tr>
</tbody>
</table>

SubArc Wire Drive 400 Digital Low Voltage

See literature AD/7.3

**SubArc Wire Drive 400 Digital Low Voltage**

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Stock Number</th>
<th>Input Power</th>
<th>Input Power Cord</th>
<th>Rating</th>
<th>Wire Feed Speed</th>
<th>Wire Diameter Capacity</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubArc Wire Drive 400 Digital Low Voltage</td>
<td>(300938) Standard speed, CE</td>
<td>38 VDC</td>
<td>1.2 m (4 ft.)</td>
<td>1/5 hp, 85 rpm</td>
<td>0.6-10.2 mm (30-400 ipm)</td>
<td>2.4-4.8 mm (3/32-3/16 in.)</td>
<td>11.8 kg (26 lb.)</td>
</tr>
</tbody>
</table>
**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.

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**SubArc 3-Wheel Tractor**

*See literature AD/7.7*

**Easy-to-use foot- or hand-operated clutch** allows for easy engagement of tractor drive and disengagement to move tractor into position.

**Flexible mast configuration** allows torch to be positioned in multiple weld zones and adapts to your weld application.

**SubArc Tractor Interface Digital** provides easy-to-operate single control for power source and tractor operation.

**Regulated travel speed** ensures your actual and set travel speeds are consistent, improving weld quality.

**Locking front wheel** can be set in place to desired travel path.

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

**Low-voltage operation and improved environmental protection.** The 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.

---

**Model/Stock Number**

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

---

**SubArc Torches**

*See literature AD/7.3*

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**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
**Submerged Arc**

### SubArc Flux Hopper
See literature AD/7.3

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

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

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

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

---

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

---

### SubArc Portable Welding System
See literature AD/7.6

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

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

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

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

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

---

<table>
<thead>
<tr>
<th>Stock Number (301133004) Column and Boom only with International packing</th>
<th>Supply Voltage</th>
<th>Column Stroke</th>
<th>Column Travel</th>
<th>Boom Stroke</th>
<th>Boom Travel</th>
<th>Base Rotation</th>
<th>Overall Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120 V, 1-phase, 60 Hz</td>
<td>1,117 mm (44 in.)</td>
<td>Constant speed</td>
<td>787 mm (31 in.)</td>
<td>Manual</td>
<td>360°</td>
<td>2,590 mm (102 in.)</td>
</tr>
</tbody>
</table>

---

**Most popular accessories**

- Flux Hopper Extension Cables
  - 260623010 3 m (10 ft.)
  - 260623025 7.6 m (25 ft.)
  - 260623065 19.8 m (65 ft.)

- SubArc DC 650 Digital portable system shown.
**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

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

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

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

### Liquid-Cooled Cables
See literature IN/15.0

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

- A highly versatile tool for preheating, stress relieving, hydrogen bakeout, post weld heat treatment and shrink fit in a variety of pipe diameters and flat plate
- Designed with flexibility in mind, the ProHeat liquid-cooled induction heating cables can be wrapped into coils of various shapes and sizes to fit almost any induction heating application

### Liquid-Cooled Rolling
See literature IN/13.0

Preheat of moving parts up to 315°C (600°F).

- Ideal for preheating rolling pipe and moving parts, with easy and time-saving setup and movement for maintaining and adhering to preheat and interpass temperatures
- Enables the benefits of rolled pipe welding while also addressing some of the concerns associated with other popular heating methods, such as open flame and resistance heating
- Optional infrared temperature sensor can read the temperature on the moving part from 100–400°C (212–750°F)
- Optional travel detect system can be used for setting different heating rates/ramps based on workpiece speed travel — when no movement is detected the system turns off the output preventing damage to workpiece and rolling inductor

### Air-Cooled Blankets
See literature IN/14.0

Preheating applications up to 204°C (400°F).

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

### Air-Cooled Cables
See literature IN/14.0

Preheating applications up to 200°C (392°F).

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

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

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

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

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

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

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

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

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

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

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

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

Preheat and bakeout programs can be manually entered or loaded via USB drive.

Heating data is automatically recorded and can be used in quality control and documentation needs.

**Stock Number**

(301390) Heater only (requires ArcReach Heater extension cable to operate)

(301591) Heater only, CE

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Output Power</th>
<th>Source Current</th>
<th>Output Frequency</th>
<th>Rated Output</th>
<th>Heater Dimensions</th>
<th>Heater Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operates on open-circuit voltage: 50–70 V provided by an XMT® 350 FieldPro or ArcReach-equipped engine drive</td>
<td>200 A</td>
<td>300 V</td>
<td>33 A</td>
<td>5–30 kHz</td>
<td>7.8 kW at 100% duty cycle</td>
<td>20 kg (43 lb.)</td>
</tr>
</tbody>
</table>

**Process**

- Induction heating

**Suggested power sources**

- XMT® 350 FieldPro
- Trailblazer® Series
  
  (ArcReach models only)

- Big Blue® Series
  
  (ArcReach models only)

**Most popular accessories**

- ArcReach Heater Extension Cable
  
  301451 3 m (10 ft.)

- Air-Cooled Quick Wrap 301452

- Air-Cooled Cable
  
  301453030 9.1 m (30 ft.)
  
  301453050 15.2 m (50 ft.)

- Cable Cover
  
  204611 9.1 m (30 ft.)
  
  204614 15.2 m (50 ft.)
  
  204620 24.4 m (80 ft.)

- Preheat Insulation
  
  204669 1.3 x 41 x 305 cm (1/2 x 16 x 120 in.)

- Preheat Insulation w/Cable Harness
  
  301334 1.3 x 41 x 305 cm (1/2 x 16 x 120 in.)

- Series Cable Adapter 195437

- High-Temperature Rope 194965

- Temperature Measurement
  
  (two options available)

  Contact Thermocouple Sensor (Probe) 301517 OR welded on thermocouples which requires 152 m (500 ft.) Thermocouple Wire 194999, Thermocouple Connectors (10 pack) 195098, and Thermocouple Attachment Unit 194959
### Spectrum® Series Plasma Cutters

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

#### Spectrum Features

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

#### Steel/Stainless/Aluminum Rated Cutting Capacity

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

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

#### Steel/Stainless/Aluminum Rated Cutting Capacity

<table>
<thead>
<tr>
<th>Material</th>
<th>Spectrum 375 X-TREME</th>
<th>Spectrum 625 X-TREME</th>
<th>Spectrum 875 Auto-Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel/S</td>
<td>9.5 mm (3/8 in.)</td>
<td>15.9 mm (5/8 in.)*</td>
<td>22.2 mm (7/8 in.)</td>
</tr>
<tr>
<td>Stainless</td>
<td>12.7 mm (1/2 in.)</td>
<td>15.9 mm (5/8 in.)*</td>
<td>22.2 mm (7/8 in.)</td>
</tr>
</tbody>
</table>

#### Models/ packages

- **Spectrum 375 X-TREME**
- **Spectrum 625 X-TREME**
- **Spectrum 875**
- **Spectrum 875 Auto-Line**

### Power factor correction (PFC)

Uses less energy by utilizing input power more efficiently and increases productivity by reducing nuisance circuit breaker trips.

### 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

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.
Spectrum® 375 X-TREME™/625 X-TREME™

- **Auto-Line Technology**

   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.

---

**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.

---

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

625 X-TREME model includes Ultra-Quick Connect™ XT40 hand-held torch with ergonomic design and flexible cable; or XT40M long body or short body machine torch.

---

**Plasma Cutting**

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

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

625 X-TREME packages come complete with

- XT40 hand-held torch with 3.7 m (12 ft.) or 6.1 m (20 ft.) cable
- XT40M long body or short body machine torch with 7.6 m (25 ft.) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 3 m (12 ft.) power cord with 240 V, L6-30P twist lock plug
- MVP adapters with 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A) plugs
- X-CASE for protection and storage
- Shoulder strap
- Consumables box with two electrodes, two 40 A tips and one 30 A tip, 30 A drag shield, deflector and air fitting
- Machine torch packages include corresponding automation kit

875 and 875 Auto-Line packages come complete with

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

**Most popular accessories**

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

---

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Power</th>
<th>Rated Output at 40°C (104°F)</th>
<th>Amps Input at Rated Output</th>
<th>KVA</th>
<th>KW</th>
<th>Compressor Requirement</th>
<th>Dimensions</th>
<th>Net Weight with Torch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrum 375</td>
<td>X-TREME 120–240 V, 50/60 Hz</td>
<td>120 V (15 A): 20 A at 88 VDC, 35% duty cycle</td>
<td>18.1</td>
<td>2.2</td>
<td>2.1</td>
<td>142 L/min. (5.0 cm) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.)</td>
<td>6.8 kg (15 lb.)</td>
</tr>
<tr>
<td>Spectrum 375</td>
<td>X-TREME 120–240 V, 60 Hz</td>
<td>120 V (20 A): 27 A at 91 VDC, 20% duty cycle</td>
<td>25.6</td>
<td>3.1</td>
<td>3.0</td>
<td>170 L/min. (6.0 cm) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.)</td>
<td>6.2 kg (14 lb.)</td>
</tr>
<tr>
<td>Spectrum 375</td>
<td>X-TREME 240 V: 30 A at 92 VDC, 35% duty cycle</td>
<td>13.6</td>
<td>3.3</td>
<td>3.1</td>
<td>160 L/min. (6.0 cm) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.)</td>
<td>5.7 kg (13 lb.)</td>
<td></td>
</tr>
<tr>
<td>Spectrum 625</td>
<td>X-TREME 120–240 V, 60 Hz</td>
<td>120 V (15 A): 20 A at 88 VDC, 35% duty cycle</td>
<td>18.1</td>
<td>2.2</td>
<td>2.1</td>
<td>160 L/min. (6.0 cm) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.)</td>
<td>7.6 kg (17 lb.)</td>
</tr>
<tr>
<td>Spectrum 625</td>
<td>X-TREME 120–240 V, 60 Hz</td>
<td>120 V (20 A): 27 A at 91 VDC, 20% duty cycle</td>
<td>25.6</td>
<td>3.0</td>
<td>2.9</td>
<td>160 L/min. (6.0 cm) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.)</td>
<td>6.2 kg (14 lb.)</td>
</tr>
<tr>
<td>Spectrum 625</td>
<td>X-TREME 240 V: 40 A at 140 VDC, 50% duty cycle</td>
<td>13.6</td>
<td>6.4</td>
<td>6.3</td>
<td>160 L/min. (6.0 cm) at 621 kPa (90 psi)</td>
<td>H: 229 mm (9 in.)</td>
<td>5.7 kg (13 lb.)</td>
<td></td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>208/230 V, 50/60 Hz</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>208 V: 47</td>
<td>9.9</td>
<td>9.8</td>
<td>191 L/min. (6.75 cm) at 621 kPa (90 psi)</td>
<td>H: 343 mm (13.5 in.)</td>
<td>6.1 kg (13.5 lb.)</td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>208/230 V, 50/60 Hz</td>
<td>230 V: 60 A at 140 VDC, 50% duty cycle</td>
<td>230 V: 42</td>
<td>9.9</td>
<td>9.8</td>
<td>191 L/min. (6.75 cm) at 621 kPa (90 psi)</td>
<td>D: 470 mm (18.5 in.)</td>
<td>6.1 kg (13.5 lb.)</td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>375/625 Auto-Line 208–575 V, 50/60 Hz</td>
<td>208 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>208 V: 27.5</td>
<td>9.9</td>
<td>9.4</td>
<td>191 L/min. (6.75 cm) at 621 kPa (90 psi)</td>
<td>H: 343 mm (13.5 in.)</td>
<td>6.1 kg (13.5 lb.)</td>
</tr>
<tr>
<td>Spectrum 875</td>
<td>375/625 Auto-Line 208–575 V, 50/60 Hz</td>
<td>230 V: 60 A at 140 VDC, 40% duty cycle</td>
<td>230 V: 27.5</td>
<td>9.9</td>
<td>9.4</td>
<td>191 L/min. (6.75 cm) at 621 kPa (90 psi)</td>
<td>D: 470 mm (18.5 in.)</td>
<td>6.1 kg (13.5 lb.)</td>
</tr>
</tbody>
</table>

**Ready-to-work plasma cutting machines**...
Respiratory

Designed for comfort
Well-balanced design reduces torque on neck, increasing all-day wear.
Patent-pending Dualtec™ manifold system optimizes helmet balance and sound, while six-point air distribution system maximizes cooling through targeted air placement.
Ergonomic headgear provides secure fit without the need for over-tightening.
Lightweight low-profile blower assembly with integrated shoulder straps (PAPR) reduces lower back strain and fatigue.
Lightweight versatile C50 air regulator (SAR) can be positioned horizontally or vertically to naturally align with body movements.

Superior visibility
ClearLight™ Lens Technology optimizes contrast and clarity in welding and light states, easing eye strain.
Shade 5.0 side windows and oversized clear grind shield maximize downward and peripheral visibility, improving sense of surroundings.
Half-shade lens adjustability provides fine shade adjustment for optimized comfort and vision.

Improved productivity
Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.
Low-profile breathing-tube attachment eases on/off process while flexible tube material reduces breathing tube snags in work cell.
Two lightweight lithium-ion batteries (PAPR) included with each package eliminate downtime.
C50 air regulator (SAR) supplies down to 28°C (50°F) Grade-D air under your hood, heightening productivity and relieving heat stress. Performance under different applications may vary. 360-degree swivel air hose connection alleviates hose coiling, reducing potential trip hazards.

PAPR Powered Air-Purifying Respirator
See literature AY/4.1
Available packages:
With T94-R™ helmet (external grind control)
264573 With auto-darkening lens assembly
264575 With auto-darkening lens assembly
T94-R™ helmet upgrade kit (for use with existing PAPR system)
279870 Includes T94-R helmet assembly, breathing tube, breathing tube cover and flowmeter
T94i-R™ helmet upgrade kit (for use with existing SAR system)
279871 Includes T94i-R helmet assembly, breathing tube, breathing tube cover and flowmeter

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

- HEPA filter provides up to 99.97 percent filtration of airborne particles
- NIOSH 42 CFR 84 certified, assigned protection factor of 25

SAR Supplied Air Respirator
See literature AY/4.3
Available packages:
With T94i-R™ helmet (integrated clear grind shield)
264871 With auto-darkening lens assembly (air hose not included)
T94i-R™ helmet upgrade kit (for use with existing SAR system)
279870 Includes T94i-R helmet assembly, breathing tube, breathing tube cover and flowmeter

A complete SAR system consists of C50 air regulator, belt assembly, flowmeter, breathing tube, breathing tube cover, tool bag, T94i-R helmet assembly and air hose (see available packages at left).

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

Also available
BreatheAir™ Portable Box
275983 Two person, 10 ppm alarm
275985 Four person, 10 ppm alarm
Supplies Grade-D breathing air while monitoring for CO.

Monitor Calibration Kit
275988 10 ppm

Also available
Coiled air hose
Straight air hose
Respiratory

Face Shield PAPR
Powered Air Purifying Respirator
See literature AY/4.2

288356 Complete System
This system consists of blower assembly, HEPA filter, prefilters (6), spark guard, breathing tube, breathing tube cover, padded belt, comfortable shoulder straps, lithium-ion batteries (2), battery charger, flowmeter, tool bag and face shield assembly with clear shield.

- HEPA filter provides up to 99.97 percent filtration of airborne particulate
- System is NIOSH 42 CFR 84 certified, assigned protection factor of 25 with standard head seal

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

Patent-pending Dualtec™ manifold system optimizes 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.

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

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

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

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

LPR-100™ OV Half Mask Respirator See literature AY/4.5
ML00996 Respirator with P100 organic vapor filters (small/medium)
ML00997 Respirator with P100 organic vapor filters (medium/large)

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

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

LPR-100™ Half Mask Respirator See literature AY/4.5
ML00894 Respirator with P100 filters (small/medium)
ML00895 Respirator with P100 filters (medium/large)
ML00994 Respirator with P100 nuisance level OV relief filters (small/medium)
ML00995 Respirator with P100 nuisance level OV relief filters (medium/large)

Filters and accessories
SA00818 P100 filters (one pair)
SA00819 P100 nuisance level OV relief filters (one pair)
283374 Protective hard carrying case
261086 Quantitative fit-test kit adapter

- Low-profile design fits under T94™, Digital Elite™ and Classic welding helmets and provides maximum field of vision
- P100 filters provide up to 99.97 percent filtration of airborne particulates
- P100 filters provide up to 99.97 percent filtration of airborne particles
- Nuisance level OV relief filters are designed for use with organic vapor concentrations not exceeding OSHA’s PELs or other applicable government occupational exposure limits, whichever is lower
- NIOSH 42 CFR 84 certified, assigned protection factor of 10

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

VISIT NOW AT MillerWelds.com
Serious dependability backed with a three-year warranty.

### Welding Helmets

<table>
<thead>
<tr>
<th>Feature</th>
<th>T94™</th>
<th>T94i™</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viewing Area</strong></td>
<td>9 sq. in.</td>
<td>9 sq. in.</td>
</tr>
<tr>
<td><strong>Auto-Darkening</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>ClearLight™ Lens Technology</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>AutoSense™</strong></td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Shades</strong></td>
<td>Cut 5:8, Weld 8:13, Flip grind</td>
<td>Cut 5:8, Weld 8:13, Flip grind</td>
</tr>
<tr>
<td><strong>Integrated Grind Shield</strong></td>
<td>Yes</td>
<td>—</td>
</tr>
<tr>
<td><strong>Auto-on</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Sensors</strong></td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>TIG Rating</strong></td>
<td>3 amps</td>
<td>3 amps</td>
</tr>
<tr>
<td><strong>Switching Speed</strong></td>
<td>1/20,000 second</td>
<td>1/20,000 second</td>
</tr>
<tr>
<td><strong>Digital Controls</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Premium Headgear</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>InfoTrack™</strong></td>
<td>Yes - 2.0</td>
<td>Yes - 2.0</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>737 g (26 oz.)</td>
<td>599 g (21 oz.)</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>3 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

See chart above for feature availability.

- **ClearLight™ Lens Technology** provides high-definition optics for precision arc recognition.
- **AutoSense™** reduces issues related to setting helmet sensitivity by allowing the welder to push and hold the AutoSense button to automatically set the helmet sensitivity for their environment.
- **X-Mode.™** Electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked.
- **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

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

- **Four operating modes** for ultimate versatility: weld, cut, grind and X-Mode.™
- **Half-shade settings** for precise lens adjustment.
- **Simplistic digital lens interface** allows for easy adjustment with or without gloves.
- **Shade 5.0 side windows** enhance peripheral vision, amping up sense of surroundings.

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

- **Gen IV premium headgear** with four-point flexible design provides a secure fit, while avoiding major pressure points within the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.
- **InfoTrack™ 2.0** monitors arc time and arc count.

Best-in-class comfort for all-day wearability

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

- **4% LIGHTER** for reduced fatigue
- **14% BETTER BALANCE** for elevated comfort
- **17% LESS TORQUE** for reduced neck strain

Statistics above compare T94i to previous model.

Helmet Lighting Accessory

FS#10 Flip-Up

- Provides additional lighting in low-light environments for T94 welding helmets
- Includes two lights (one for each side) and all required mounting hardware
Digital Infinity™ Series  Largest viewing area maximizes visibility.  See literature AY/42.0

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

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

Classic Series  Helmets for the value-minded welder.  See literature AY/45.5 (VS) and AY/45.0 (VSi and FS#10 Flip-Up)

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

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

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

Magnifying Lens 212235 0.75 magnification
- 212236 1.00 magnification
- 212237 1.25 magnification
- 212238 1.50 magnification
- 212239 1.75 magnification
- 212240 2.00 magnification
- 212241 2.25 magnification
- 212242 2.50 magnification
- 4.25 x 2 x 5/23 inch lens for all Miller® helmets

Helmet Hook 251018
- Holds welding helmets, grinding shields or other helmets with a headgear
- Silicone strap secures the helmet in place

Jobsite Tool Bag 228028
- Over twenty separate pockets
- Opening of 305 x 470 mm (12 x 18.5 in.)

Weld-Mask 267370
- Shades 5, 7, 9, 11 and 13 for use with MIG, TIG, stick, and gas welding and cutting
- Extremely lightweight (227 g [8 oz.]), virtually eliminates neck strain

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

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

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

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

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

Compact auto-darkening lenses allow users to weld in spaces where access with traditional welding helmets is limited. Close-fitting soft eye covering provides total darkness for precision welding. Face shield and flame-retardant head cover provide coverage for UV/IR rays and applications with limited spatter.

Safety Glasses

See literature AY/46.0

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

Safety and Cutting Glasses Chart

<table>
<thead>
<tr>
<th>Frame Style (Color)</th>
<th>Clear Lenses</th>
<th>I/O Lenses</th>
<th>Shade 3 Lenses</th>
<th>Shade 5 Lenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic (Black)</td>
<td>272187</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Spatter™ (Black)</td>
<td>272191</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Spark™ (Black/Blue)</td>
<td>272190</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Slag™ (Black)</td>
<td>272201</td>
<td>272202</td>
<td>–</td>
<td>272205</td>
</tr>
<tr>
<td>Gen I (Black)</td>
<td>–</td>
<td>–</td>
<td>235662</td>
<td>235668</td>
</tr>
</tbody>
</table>
Welding Gloves  See literature AY/47.0

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

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

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

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

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

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

Classic—traditional design for the value-minded welder.

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

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

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

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

NEW! Cut-resistant—exceptional comfort, performance and protection.

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

<table>
<thead>
<tr>
<th>Performance</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>2X-Large</th>
<th>Classic</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>Cut-Resistant</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>X-Large</th>
<th>2X-Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hvy-Duty MIG/Spit</td>
<td>—</td>
<td>—</td>
<td>263339</td>
<td>263340</td>
<td>269615*</td>
<td>Hvy-Duty MIG/Spit</td>
<td>—</td>
<td>271877*</td>
<td>271887*</td>
<td>290412*</td>
<td>290413*</td>
<td>290414*</td>
<td>290415*</td>
<td>290416*</td>
<td></td>
</tr>
<tr>
<td>MIG (Lined)</td>
<td>263332</td>
<td>263333</td>
<td>263334</td>
<td>269618*</td>
<td>—</td>
<td>MIG (Pigskin)</td>
<td>—</td>
<td>279875*</td>
<td>279876*</td>
<td>290401*</td>
<td>290402*</td>
<td>290403*</td>
<td>290404*</td>
<td>290411*</td>
<td></td>
</tr>
<tr>
<td>TIG</td>
<td>263346</td>
<td>263347</td>
<td>263348</td>
<td>263349</td>
<td>—</td>
<td>MIG (Cowhide)</td>
<td>—</td>
<td>271890*</td>
<td>271891*</td>
<td>290401*</td>
<td>290402*</td>
<td>290403*</td>
<td>290404*</td>
<td>290411*</td>
<td></td>
</tr>
<tr>
<td>TIG/Multitask</td>
<td>263352</td>
<td>263353</td>
<td>263354</td>
<td>263355</td>
<td>—</td>
<td>TIG</td>
<td>279897*</td>
<td>279898*</td>
<td>279899*</td>
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<td>290402*</td>
<td>290403*</td>
<td>290404*</td>
<td>290411*</td>
<td></td>
</tr>
<tr>
<td>Metalworker</td>
<td>251066</td>
<td>251067</td>
<td>251068</td>
<td>—</td>
<td>—</td>
<td>Work</td>
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<td>266042*</td>
<td>266043*</td>
<td>290401*</td>
<td>290402*</td>
<td>290403*</td>
<td>290404*</td>
<td>290411*</td>
<td></td>
</tr>
</tbody>
</table>

Face Shield Series  See literature AY/47.0

Face Shield
- HDV technology for a sharp detailed view at any angle without distortion
- Impact-resistant shield for increased durability and protection
- Lightweight design for all-day wear and comfort
- Clear + Anti-Fog lens coating prevents fogging for enhanced visibility
- Shade 3 and 5 lenses provide protection for cutting, brazing or soldering applications
- Made of polycarbonate material that provides 99.9 percent UVA/UVB/UVC protection to help prevent eye damage
- ANSI Z87.1 compliant

Cut-Resistant
- ANSI A5 cut rating, level 4 puncture and abrasion rating, and level 3 heat rating
- Designed with pre-curved fingers for ergonomic fit and exceptional comfort
- Ergonomic wrist design for additional comfort
- Goat grain palm, cow split back and cuff, with Kevlar® flame-resistant thread
- 2-millimeter foam lining and mylar back for additional protection (MIG)
- Drag patch for enhanced durability (TIG)
Welding Apparel

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

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

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

Combo Jacket
(See size chart)
- 9-ounce Indura® flame-resistant cotton (flame resistance guaranteed for life of jacket)
- Top-grain leather
- Pre-shrunk fabric

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

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

Combination Sleeves
- 231096
- Indura® flame-resistant cotton/top-grain leather
- .5 m (21 in.) length

Leather Bib/Apron
- 231125
- Attaches to combo jacket with snaps across the chest as a bib or along the bottom as an apron

Leather Bib/Apron
- .46 m (18 in.) length
- Fold-in sleeve snaps
- Upper arm elastic band

Classic Cloth Apron
- 247149
- .9 m (35 in.) length with accessible front pocket
- Adjustable drawstring ensures a good fit

Welding 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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<td>Grain Leather Jacket</td>
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<tr>
<td>Split Leather Jacket</td>
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<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>231081</td>
<td>231082</td>
<td>231083</td>
<td>231084</td>
<td>–</td>
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<tr>
<td>Indura Cloth Jacket</td>
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<td>258098</td>
<td>258099</td>
<td>258100</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Classic Cloth Jacket</td>
<td>244749</td>
<td>244750</td>
<td>244751</td>
<td>244752</td>
<td>244754</td>
<td>244755</td>
<td>244756</td>
<td>244758</td>
</tr>
</tbody>
</table>
Workstations

Count on Miller to design the perfect workbench to make welding projects faster and easier. The ArcStation is the first-ever, all-in-one workstation designed for welding and metalworking. It’s versatile, affordable and just the right height to work comfortably. You can organize equipment, tools, and raw materials into one convenient workspace.

**ArcStation™ 60SX Fully Loaded**

The 60SX Fully Loaded is perfect for the welder who needs a tough workbench for the fab shop or the home garage.

- .76 x 1.52 m (30 x 60 in.) size tabletop provides double the work surface of the 30FX.
- 9.5 mm (3/8 in.) X-pattern steel tabletop allows trouble-free clamping.
- Durable 3.2 mm (1/8 in.) steel frame with cross bar and heavy-duty tabletops provide a sturdy area for welding or metalworking.
- Adjustable leveling feet keep workbench rock-steady.
- Comes customized with a wide range of handy accessories to make this the ultimate workbench (see at right for replacement accessories).

**ArcStation™ 30FX**

When portability or space-savings is a concern, the ArcStation 30FX is your solution.

- Wheels, handle, and fold-up design make unit easy to take to the jobsite or move around the shop.
- Compact size makes storing unit a breeze. Unit folds down to 152 x 737 x 1219 mm (6 x 29 x 48 in.).
- .76 x.76 m (30 x 30 in.) size tabletop provides plenty of work surface.
- 4.8 mm (3/16 in.) X-pattern steel tabletop allows trouble-free clamping.
- 38.1 mm (1.5 in.) diameter steel tube frame provides strength and durability.
- Includes removable gun holder.
- Add optional 152 mm (6 in.) X-clamp (300613) to make this the ultimate portable workbench.

---

**ArcStation 60SX accessories**

Miller® ArcStation accessories allow you to get the most out of your ArcStation.

1. 6-inch X-clamp 300613
2. Side Shelf 300680
3. Tool Chest with ball-bearing slides 300610
4. 5-inch Quick-Remove Vise with mount 300611
5. Weld Curtain 300686
6. Casters 300849

Convenience Kit 300614
Includes the following:
- Gun holder
- Tool holder
- Clamp bar

**Popular system components**

- Steel frame 1.52 m (60 in.) 300604
- Dust tray 300605
- Table top solid .76 x.76 m (30 x 30 in.) 300606
- Table top X pattern .76 x.76 m (30 x 30 in.) 300607

---

**Model/Stock Number**

<table>
<thead>
<tr>
<th></th>
<th>Model/Stock Number</th>
<th>Steel Top</th>
<th>Load Capacity</th>
<th>Dimensions</th>
<th>Weight</th>
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<tbody>
<tr>
<td>60SX</td>
<td>60SX</td>
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</tr>
<tr>
<td>30FX (300837)</td>
<td>(1) 737 x 737 x 4.8 mm (29 x 29 x 3/16 in.) X-pattern</td>
<td>227 kg (500 lb.)</td>
<td>889 x 737 x 889 mm (35 x 29 x 35 in.)</td>
<td>34 kg (74 lb.)</td>
<td></td>
</tr>
</tbody>
</table>
MobileArc™ Augmented Reality Welding System

An affordable and easy-to-use MIG welding simulation tool designed to attract, engage and introduce students to welding through a hands-on augmented reality experience.

**Highly portable, lightweight design** allows for easy transport for remote learning and recruiting events.

**Easy setup and simple user interface** allows for students to work independently, helping to increase instructor efficiency.

**Real-time feedback** is provided on users’ technique to help correct errors, reinforce proper welding practices and accelerate skill advancement, prior to actual live arc welding in a lab.

**Reduce overall training time** compared to traditional methods with the realistic welding simulation of the MobileArc.

**Minimize material cost** by saving wire, gas and workpieces in this simulation environment, while allowing students to refine their welding skills before beginning live arc welding.

**The output can be streamed to an external display** for a more collaborative learning environment.

---

**Comes complete with**
- Mobile device with case
- Black Classic helmet with mobile device mount
- MIG welding gun with AR nozzle
- Mobile device gun mount
  - Workpiece (configurable base plate and top plate)
  - 1.50 magnifying lens
  - 2.00 magnifying lens
- Mobile device charger
- Travel bag

---

**OpenBook provides** FREE interactive online training resources, educational materials and tracking tools. These materials allow welding instructors to assign and deliver welding content, create quizzes, download welding labs, monitor student participation, and assess and report student progress and performance. Visit OpenBook.MillerWelds.com for details.

---

**Customize your classroom**
- Implement materials that fit your curriculum and learning objectives, including:
  - e-Learning modules
  - Weld lab activities
  - Course builder
  - Quiz builder
  - Lab builder
  - Customizable certificates of completion
- Miller® and Hobart® pre-defined courses with certificates of completion
- Track individual student progress
- All material aligns with AWS standards

**Motivate and engage students**
- Interactive, stimulating learning includes videos and activities
- Quick, digestible segments
- Mobile friendly
  - Easy to access homework from anywhere
  - Students can check grades and status
- Ideal for high school and post-secondary welding programs

---

**Stock Number**
(907817) Only available at approved distributors!

**Battery Life**
Mobile device (internal rechargeable battery): 3 hours of continuous simulation (will run indefinitely when powered through USB charging port)
Welding gun (9-volt battery): 70 hours of continuous use

**Process**
GMAW

**Welding Positions**
2F, 1G

**Multi-Pass**
T-joint, butt joint, lap joint

**Net Weight**
System with travel bag: 3.2 kg (7 lb.)
Welding helmet with mobile device: 709 g (25 oz.)
The AugmentedArc augmented reality welding system allows students and trainees to experience the most realistic multiprocess welding simulation available — and then seamlessly transition to the industry’s most complete live arc experience in the LiveArc welding performance management system.

Delivering unbeatable advantages
- Optimize instructor efficiency
- Deliver real-time feedback
- Reduce overall training time
- Assess weld operator skills and performance
- Minimize material cost
- Enhance job candidate recruiting and screening
- Build a larger, more-skilled welding workforce
AugmentedArc® Augmented Reality Weld Training

The highly realistic multiprocess welding simulation solution for classroom training.

Optimize instructor efficiency by using the Teacher software to create a virtual classroom with customized curriculum, quizzes and weld exercises.

Real-time feedback is provided on users’ technique to help correct errors, reinforce proper welding practices and accelerate skill advancement prior to actual live arc welding in a lab.

Reduce overall training time. Compared to traditional methods, AugmentedArc significantly reduces the amount of time needed to teach students.

Minimize material cost by saving wire, gas and workpieces in this simulation environment, while allowing students to refine their welding skills before live arc welding.

Build a larger, more-skilled welding workforce when computer-savvy individuals are drawn to welding education programs that increase their success.

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

Optional components
- TIG Foot Pedal Kit
  Includes TIG foot pedal, connection cable and adapter cable
- AugmentedArc Controller
  For multiple system connectivity
- Heavy-duty Transportation Cases
  Protects complete system during transportation or storage — one case holds the simulator and the other holds accessories

LiveArc™ Welding Performance Management System

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

Better and more cost effective training with faster results. Benefit from both weld simulation and the real-world experience of live arc welding with instant, valuable feedback on welding technique to quickly help build skills.

Motion-tracking technology measures the operator’s adherence to preset technique parameters. Cameras track the movement of LEDs embedded in the MIG SmartGun and SMAW SmartStinger during pre-weld simulations and live welds; the system then delivers visual feedback on the operator’s performance via the LiveArc system’s main display.

LiveArc GMAW/FCAW system comes complete with
- Computer with Intel core i7, 128 GB SSD, fanless cooling, and HDMI port for connection to most secondary monitors (not included)
- 21.5 HD LCD touch screen monitor
- SmartGun with 4.6 m (15 ft.) cable
- Calibration tool
- Two table clamps
- Removable arm extension with C-clamp assembly for out-of-position right- and left-hand applications
- Extra Bernard® consumables

LiveArc GMAW/FCAW/SMAW system includes above plus
- SmartStinger with 3.7 m (12 ft.) cable
- 4.6 m (15 ft.) D russe-style cable
- Router box
- Software update for SMAW applications
**Cable Connectors and Adapters**

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

For AlumaFeed system, Invision 352 MPa, XMT 350, CST, Maxstar, Dynasty and Syncrowave. These power sources are equipped with Dinse- or Tweco-style connectors for secondary connections. Power sources are shipped with 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.

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.

**Universal Cart and Cylinder Rack 042934**

For Invision 352 MPa, XMT 350, CST, Diversion, Maxstar 210/280 and Dynasty 210/280. Also accommodates a single gas cylinder up to 1,422 mm (56 in.) high measuring 152 to 229 mm (6 to 9 in.) in diameter. Provides storage for auxiliary items such as electrodes, helmets and gloves.

**Running Gear/Cylinder Rack 301239**

For Millermatic 141/211, Multimatic 200/215 and Diversion. Heavy-duty construction with 203 mm (8 in.) 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.

**EZ-Latch® Single Cylinder Running Gear 301449**

For Millermatic 255 and Multimatic 255. Running gear with a single-cylinder rack and storage compartment. Machine is secured to cart by latches that rotate to disengage machine for easy portability.

**EZ-Latch® Dual Cylinder Rack Running Gear**

EZ-Latch Dual Cylinder Rack with Elevated Gun and Cable Rack (301481) for use with EZ-Latch Single Cylinder Running Gear above.

**Dual EZ-Change™ Low Cylinder Rack with Elevated Gun and Cable Rack 300337**

For Millermatic 212 Auto-Set/252 and Syncrowave 210. Allows operators to easily roll cylinders on and off the rack with no lifting and keeps cables off the floor and tangle free. Elevated Gun and Cable Rack (300335) is also available separately for use with factory-installed single-cylinder rack.
Coolmate 3.5
Coolmate 4
Coolmate 1.3, CE
Coolmate 3, CE
Coolmate 1.3, CE

Running Gear Cylinder Rack 300408
For Invision, Dimension 650, and XMT with single- or dual-wire feeders. Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

Deltaweld 350/500 Running Gear 301523
For Deltaweld 350/500. Features small footprint, dual-cylinder rack, chains for gas cylinders, ergonomic handle design and lockable front casters with two torch holders, and storage area below.

Coolmate 3.5
Coolmate 4
Coolmate 1.3, CE
Coolmate 3, CE

Running Gear Cylinder Rack 300408
For Invision, Dimension 650, and XMT with single- or dual-wire feeders. Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

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Coolmate 1.3, CE
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Coolmate 4
Coolmate 1.3, CE
Coolmate 3, CE

Running Gear Cylinder Rack 300408
For Invision, Dimension 650, and XMT with single- or dual-wire feeders. Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

Deltaweld 350/500 Running Gear 301523
For Deltaweld 350/500. Features small footprint, dual-cylinder rack, chains for gas cylinders, ergonomic handle design and lockable front casters with two torch holders, and storage area below.

Coolmate 3.5
Coolmate 4
Coolmate 1.3, CE
Coolmate 3, CE

Running Gear Cylinder Rack 300408
For Invision, Dimension 650, and XMT with single- or dual-wire feeders. Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.

Deltaweld 350/500 Running Gear 301523
For Deltaweld 350/500. Features small footprint, dual-cylinder rack, chains for gas cylinders, ergonomic handle design and lockable front casters with two torch holders, and storage area below.
Engine Drive Accessories
Also see Trailers.

Big Blue Accessories

Cable Holder 043946
For Big Blue 500 Pro/600 Series/800 Series.

Vandalism Lockout Kit
399802 Field
For Big Blue 500 Pro/600 Series. Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.

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 200 Air Pak. Includes two heavy-duty Never Flat™ 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.

Off-Road Running Gear with Protective Cage and Never Flat™ Tires 300912
For gas/LP Bobcat and Trailblazer (except Air Pak models). Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.

Protective Cage with Cable Holders 300921
For gas/LP Bobcat and Trailblazer (except Air Pak models). Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.

Vandalism Lockout Kit
300473
For Trailblazer 302 Air Pak. Rugged cage with cable holders protects your investment. Works with Running Gear, Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.

Gas Cylinder Mounting Assembly 300918
For gas Bobcat and Trailblazer (except Air Pak models). Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.

Remote Oil Drain and Filter Kit 300923 Field
For Fusion and Blue Star. Designed for use with Running Gear, Protective Cage or Running Gear. Not recommended for use with Gas Cylinder Mounting Assembly or with Protective Cover. Not for use with Gas Cylinder Mounting Assembly.

Hose and LP Tank Mounting Assembly 300917
For LP Bobcat and Trailblazer. Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle 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.

Full KVA Adapter Cord 300517
For Bobcat, Trailblazer and Big Blue models. NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

Full KVA Plug Kit 119172
1-phase, 120/240 V, 50 A plug (NEMA 14-50P). For Bobcat, Trailblazer and Big Blue models.

165963
3-phase, 480 V, 30 A plug (NEMA L16-30P). For Bobcat 3 Phase.

254140
3-phase, 240 V, 50 A plug (NEMA 15-50P). For Big Blue 500 Pro/600 Series/800 Series.

Generator Accessories

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 gas Bobcat 200 Air Pak without Running Gear.
301476 For gas Bobcat 200 Air Pak with Running Gear.
301531 For diesel Bobcat 200 Air Pak without Running Gear.
301532 For diesel Bobcat 200 Air Pak with Running Gear.
300919 For gas Bobcat and Trailblazer (except Air 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 250 and Trailblazer 325 without Protective Cage or Running Gear.
300379 For Trailblazer 302 Air Pak.

301501 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.
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.

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.

MIG Accessories

Machine and Gun Accessory Kits

Industrial MIG 4/0 Kit (with lugs) 300390
For single-wire feeders.
300957
For dual-wire feeders.

Industrial MIG 4/0 Kit (with Dinse-style connectors) 300405
For single-wire feeders.
300956
For dual-wire feeders.

Same as above except weld and work cables have Dinse-style connector on one end instead of lug.

MIGmatic™ M-Series Gun Consumable Kits
234607
0.6 m (0.203 in.) wire
234608
0.8 m (0.300 in.) wire
234609
0.9 m (0.305 in.) wire

For M-100/M-150 guns. Kits include ten contact tips, one tip adapter, one standard nozzle and a consumable storage box.

Protective Covers

301262
For Millermatic 141/211 and Multimatic 215.

301524
For Multimatic 220 AC/DC.

301521
For Millermatic 255 and Multimatic 255. Features side pocket.

195142
**Plasma Cutter Accessories**

**Automation Kits**

Automation Kits for Spectrum 875 and 875 Auto-Line

301156 For Spectrum 875.
301157 For Spectrum 875 Auto-Line.

Upgrades hand-held torch packages to add machine torch capabilities. Automation kit for Spectrum 875 Auto-Line (301157) includes a remote pendant control for manual on/off. Machine torches are NOT included in kits and must be ordered separately.

**Plasma Standoff Roller Guide**

Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

**Plasma Circle-Cutting Guides**

For XT30/XT40/XT60 torches. Cut straight lines or circles up to 305 mm (12 in.) in diameter.

**Filters**

In-Line Air Filter Kit 228926

RTI Filter and Bracket 300491
For Spectrum 875/875 Auto-Line. Dryer will remove water, dirt and oil as small as one micron with 99.9 percent efficiency. Can be mounted on plasma cutter or on wall. Install as close as possible to point of air consumption. Replaceable filter element (212771).

**Plugs and Cords**

MVP* Plugs

219258 For 6-50P power cable (230/240 V, 50 A).
219261 For 5-15P power cable (115/120 V, 15 A).
219259 For 5-20P power cable (115/120 V, 20 A).


MVP* Adapters

254328 For connection to 6-50P receptacle (240 V, 50 A).
254330 For connection to 5-15P receptacle (120 V, 15 A).
254331 For connection to 5-20P receptacle (120 V, 20 A).

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

**Protective Case**

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

**Torches**

See your Miller® distributor for complete information on the following XT plasma torches and their consumables:

**Plasma Torch Consumable Kits**

253520 For XT30 torch. Includes five electrodes, five tips, one swirl ring, one retaining cup, one o-ring and silicone grease.
253521 For XT40 torch. Includes five electrodes, five 40-amp tips, three 30-amp tips, one 40-amp drag shield, two 30-amp drag shields, one deflector, one o-ring, one swirl ring, one retaining cup, one 40-amp gauge tip, one gauge shield and silicone grease.
256033 For XT60 torch. Includes three standard electrodes, three standard tips, one drag shield, one deflector, one o-ring, one swirl ring, one retaining cup, one gauge tip, one gauge shield and silicone grease.

**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.)

For Spectrum 375 X-TREME/625 X-TREME/875 and 875 Auto-Line.

**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.

**Full KVA Adapter Cord**

300517
NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

**230-Volt Extension Cord**

770644
6.1 m (20 ft.) NEMA 6-50P to NEMA 6-50R heavy-duty extension cord. 8-gauge cord has lighted ends that show power is on and a molded integrated strain relief.

**RTI Filter and Bracket**

219258 For XT30 torch.
219261 For XT40 torch.
219259 For XT60 torch.

Empty consumable storage box.

Each consumable kit includes a storage box.
### Accessories

#### Polarity Switches/Controls

**Polarity Control**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>042871</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Process Selector Control**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>042872</td>
<td>For CC, CV or CC/CV welding power source. Provides easy way to change welding process. Also includes features of Polarity Control.</td>
</tr>
</tbody>
</table>

#### Remote Controls

**Remote Controls**

*Also see Remote Controls in TIG Accessories.*

**PRHC-14 Hand Control**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>195511</td>
<td>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.</td>
</tr>
</tbody>
</table>

#### Stick Accessory Kits

**No. 2 Stick Cable Sets**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>195196</td>
<td>15 ft. (4.6 m)</td>
</tr>
<tr>
<td>300836</td>
<td>50 ft. (15 m)</td>
</tr>
</tbody>
</table>

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 Sets**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>173851</td>
<td>15.2 m (50 ft.), 350 A</td>
</tr>
<tr>
<td>043952</td>
<td>30/15 m (100/50 ft.), 300 A</td>
</tr>
</tbody>
</table>

Consists of either 15.2 or 30 m 2/0 electrode cable with holder and 5.2 m work cable with clamp. 100% duty cycle.

#### 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.

- **Motor Extension Cables**
  - 254232005: 1.5 m (5 ft.)
  - 254232010: 3 m (10 ft.)
  - 254232025: 7.6 m (25 ft.)
  - 254232065: 19.8 m (65 ft.)

  Cable between SubArc Motor Control and drive motor.

- **Continuum Motor/Control Cables**
  - 253368015: 4.6 m (15 ft.)
  - 253368025: 7.6 m (25 ft.)
  - 253368050: 15.2 m (50 ft.)
  - 253368080: 24.4 m (80 ft.)
  - 253368100: 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.)

- **SubArc Tandem Cable**
  - 260878015: 4.6 m (15 ft.)

- **SubArc Parallel Cable**
  - 260775015: 4.6 m (15 ft.)

**Torch Accessories**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>043967</td>
<td>25.4 mm (1 inch)</td>
</tr>
<tr>
<td>043969</td>
<td>50.8 mm (2 inch)</td>
</tr>
<tr>
<td>043973</td>
<td>101.6 mm (4 inch)</td>
</tr>
<tr>
<td>043975</td>
<td>152.4 mm (6 inch)</td>
</tr>
</tbody>
</table>

**OBT 1200 Torch Body Extension**

Overall length with extension is 228.6 mm (9 inches). Actual length of extension is 215.9 mm (8.5 inches).

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>192700</td>
<td>192141: 1.6 mm (1/16 in.)</td>
</tr>
<tr>
<td>192701</td>
<td>199026: 2.0 mm (5/64 in.)</td>
</tr>
<tr>
<td>192702</td>
<td>192142: 2.4 mm (3/32 in.)</td>
</tr>
<tr>
<td>192703</td>
<td>200771: 2.8 mm (7/64 in.)</td>
</tr>
<tr>
<td>192704</td>
<td>192143: 3.2 mm (1/8 in.)</td>
</tr>
<tr>
<td>192705</td>
<td>192144: 4.0 mm (5/32 in.)</td>
</tr>
</tbody>
</table>

**1200-Amp Twin-Wire Torch Contact Tips**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>264595</td>
<td>1.2 mm (3/64 in.)</td>
</tr>
<tr>
<td>264596</td>
<td>1.6 mm (1/16 in.)</td>
</tr>
<tr>
<td>264597</td>
<td>2.0 mm (5/64 in.)</td>
</tr>
<tr>
<td>264588</td>
<td>2.4 mm (3/32 in.)</td>
</tr>
</tbody>
</table>

**Wire Drive Assembly Accessories**

**Drive Rolls**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>132960</td>
<td>2.0 mm (5/64 in.)</td>
</tr>
<tr>
<td>132961</td>
<td>2.4 mm (3/32 in.)</td>
</tr>
<tr>
<td>132962</td>
<td>2.8 mm (7/64 in.)</td>
</tr>
<tr>
<td>132963</td>
<td>3.2 mm (1/8 in.)</td>
</tr>
<tr>
<td>193700</td>
<td>4.0 mm (5/32 in.)</td>
</tr>
</tbody>
</table>

**Single-Wire Straightener**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>199733</td>
<td>For OBT 600 and OBT 1200 single-wire torches. For 1.6–4.8 mm (1/16-3/16 inch) wire.</td>
</tr>
</tbody>
</table>

**Twin-Wire Straightener**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301160</td>
<td>For 1200-amp twin-wire torch only. Single adjustment.</td>
</tr>
</tbody>
</table>

**Manual Single Slide**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301137</td>
<td>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). <em>Not recommended for tandem.</em></td>
</tr>
</tbody>
</table>

**Wire Reel**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>108008</td>
<td>Supports 27 kg (60 lb.) coil of wire. Requires Spool Support Assembly (119438).</td>
</tr>
</tbody>
</table>

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**Submerged Arc Accessories**

**Weld Cables**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>195457</td>
<td>2/0 cable with electrode holder, 400 A</td>
</tr>
<tr>
<td>195458</td>
<td>2/0 cable with work clamp, 400 A</td>
</tr>
<tr>
<td>301387</td>
<td>1/0 cable with electrode holder, 250 A</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>195456</td>
<td>15.2 m (50 ft.)</td>
</tr>
<tr>
<td>195455</td>
<td>30 m (100 ft.)</td>
</tr>
</tbody>
</table>

Extends weld cables (195457, 195458 and 301387).
TIG Accessories

Kits

Contractor Kit

301309 A-150 with RFCS-14 HD foot pedal
301311 A-150 with RCCS-14 fingertip
301549 A-200 with RFCS-14 HD foot pedal
301550 A-200 with RCCS-14 fingertip

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

301518 Multimatic 215 kit shown.

400-amp kit), torch cable cover, work clamp with 4.6 m (15 ft.) cable [3.7 m (12 ft.) cable on 400-amp kit], flowmeter regulator with gas hose, and torch accessory kit.

TIG 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 ft.) gas hose, and AK2C torch accessory kit.

301518 Multimatic 215 kit shown.

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.

10-Pin to 14-Pin Adapter Cord 301545 For Multimatic 255. Allows standard 14-pin TIG remote controls to be used with the Multimatic 255.

RCCS-6M (6-pin plug)
301118 4 m (13.25 ft.) cord with plug
For Maxstar 161 STL/STH and Multimatic 200.

RCCS-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 HD (6-pin plug)
300579 For Diversion.
301381 For Maxstar 210.
301382 For Maxstar 280 and Dynasty 210/280.

Protective Case/Covers

X-CASE 301429 For Maxstar 161 models.

Protective covers (300579) and (301382) shown.

Remote Controls

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

RFCS-6M HD (6-pin plug)
195183 4 m (13.25 ft.) cord with plug
195504 6.1 m (20 ft.) cord with plug
For Maxstar 161 STL/STH and Multimatic 200.

RFCS-14 HD (14-pin plug)
194744 6.1 m (20 ft.) cord with plug
Heavy-duty foot pedal current/contactor control provides increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility.

RHC-14 (14-pin plug)
242211020 6.1 m (20 ft.) cord with plug
242211100 30.5 m (100 ft.) cord with plug
Miniature hand current/contactor control. Dimensions: 102 x 102 x 82 mm (4 x 4 x 3.25 inches).

RMLS-14 (14-pin plug) 129337 Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 8 m (26.5 ft.) cord with plug.

RMS-6M (6-pin plug) 195269 For Maxstar 161 STL/STH.
RMS-14 (14-pin plug) 187208 Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 8 m (26.5 ft.) cord with plug.

RPBS-14 (14-pin plug) 300666 Attaches to the TIG torch to remotely start and stop the TIG welding process. Includes 7.6 m (25 ft.) cord with plug.

Weldcraft® Water-Cooled Torch Kits

300185 250 A, W-250 (WP-20)
300990 280 A, W-280 (WP-280)
301268 375 A, W-375
300186 400 A, W-400 (WP-185C)

For Maxstar (except 161 models), Dynasty, and Syncrowave 300. Kit comes with 7.6 m (25 ft.) TIG torch with Dinse-style connector (thread-lock on 400-amp kit), torch cable cover, work clamp with 4.6 m (15 ft.) cable [3.7 m (12 ft.) cable on 400-amp kit], flowmeter regulator with gas hose, and torch accessory kit.

ArcReach® Stick/TIG Remote

301325 (Tweco®) for ArcReach power sources
Wireless Remote Foot and Hand Controls
See literature AV/6.5 (Foot) and AV/6.6 (Hand)

Increases productivity, saves money, improves safety and is easy to use.

Foot control
Foot control is designed specifically for TIG welding in manufacturing, fabrication and plant applications, allowing operator to adjust amperage at point of use without the limitations of a remote cord.

Auto on feature extends the battery life up to 250 hours of welding without turning the pedal on and off.

Easy-Glide Wear Pads™ glide across concrete, making it easy to reposition the pedal for comfort and speed.

Hand control
Hand control is designed for stick, TIG, MIG and flux-cored welding, allowing operator to adjust parameters for different joint configurations, electrodes and wire types/sizes at the point of use instead of walking back to the machine.

Increases productivity and maneuverability by eliminating cord tangles. Reduces clean up time and work area cord clutter.

Improves reliability and safety by eliminating control cord failures and reducing potential trip hazard.

Multiple frequency sharing allows up to 20 systems to operate in a 27.4 m (90 ft.) radius with accuracy and precision – and without delay, system interference, or crosstalk.

Easy-to-install receiver plugs directly into the 14-pin receptacle of Miller® machines.

Easily programmable. Control can be quickly and easily paired with any other Miller® 14-pin wireless receiver. Control is preprogrammed when purchased with the receiver.

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

Bluetooth® communication technology provides consistent and reliable connection, allowing precise control of the amperage.

Torch and Weld Cable Connectors

Air-Cooled TIG (GTAW) Torch Connectors

50 mm Dinse-Style Flow Thru 195380
For Syncrowave 210. Used with all Weldcraft™ water-cooled torches.

50 mm Dinse-Style with Water Return Line 195377
For Syncrowave 300/400, Maxstar 210/280/400 and Dynasty 210/280/400. Used with all Weldcraft™ water-cooled torches.

Water-Cooled TIG (GTAW) Torch Connectors

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

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

Wireless Accessories (continued)

Wireless Foot Control System (301580), CE
Foot control (transmitter) Three AA batteries 250 hours 27.4 m (90 ft.) -25° to +70°C (-13° to +158°F) 2.4 GHz (ISM band) <3 mW Internal H: 152 mm (6 in.) W: 146 mm (5.75 in.) D: 292 mm (11.5 in.) 1.4 kg (3 lb.) w/batteries

Wireless Hand Control System (301582), CE
Hand control (transmitter) Three AA batteries 250 hours 91 m (300 ft.) -25° to +70°C (-13° to +158°F) 2.4 GHz (ISM band) <3 mW Internal H: 127 mm (5 in.) W: 70 mm (2.75 in.) D: 35 mm (1.375 in.) 0.27 kg (0.6 lb.) w/batteries

Suggested power sources

Look throughout this catalog for the icon above signifying compatibility with a wireless remote.

TIG processes

- TIG (GTAW) • Pulsed TIG (GTAW-P)
- Stick (SMAW) • MIG (GMAW) 1,2
- Flux-cored (FCAW) 1,2

1With wireless hand control only.
2Only with voltage-sensing feeder.

Comes complete with

- Wireless foot control (301580) OR hand control (301582) transmitter
- Wireless 14-pin receiver (301584)
- Four AA batteries
- Four Easy-Glide Wear Pads™ (foot control only – sold individually, 248274)
- Carabiner clip (hand control only, 285341)

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

Extension Cables (14-Pin)

8-Conductor Cables
242208025 7.6 m (25 ft.)
242208050 15.2 m (50 ft.)
242208080 24.4 m (80 ft.)
For SuitCase 12RC feeder, 20 Series feeders, and 70 Series (except MPa Plus) feeders. For 14-pin remote controls and 24 VAC wire feeders. 14-pin plug to a 14-pin socket. Not for 115-volt XR feeders.

11-Conductor Cables
247831025 7.6 m (25 ft.)
247831050 15.2 m (50 ft.)
247831080 24.4 m (80 ft.)
For XR-AlumaFeed and MPa Plus feeders. Eleven conductors to support contactor control and remote voltage control on all Miller® electronic constant-voltage (CV) 14-pin power sources. Additional functions supported when using the Invision MPa or XMT MPa power sources include synergic pulsed MIG, remote process select and side select capabilities.

14-Conductor Cables
242205025 7.6 m (25 ft.)
242205050 15.2 m (50 ft.)
For HDC and WC-115 weld controls. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

Euro Gun Adapter
164902

Power Supply Adapter

PSA-2 Control 141604
Required when using SuitCase 12RC, 20 Series, and 70 Series feeders with power sources having only 115-volt power available. Control is equipped with a 14-pin receptacle and a 3 m (10 ft.) interconnecting cord with Hubbell connections for older-style power sources. Can also be used with competitive power sources requiring a contact closure for contactor control.

PSA-2 Extension Cord 047813
7.6 m (25 ft.) cord extends 3 m (10 ft.) cord supplied with PSA-2 control (4-pin to 4-pin connection).

Spool Adapter
047141
For use with 6.4 kg (14 lb.) spool of Hobart or Lincoln self-shielding wire.

Spool Gun Controls and Kits

For more information see literature M/1.5, M/1.73 and M/1.76.

SGA 100 043856
Required to connect Spoolmate 3035 spool gun to any Millermatic 141/211. Also allows connection to virtually any similar MIG welder — Miller or other brands. Includes 3 m (10 ft.) 115-volt power cable with plug, 1.8 m (6 ft.) interconnecting cable, and 1.5 m (5 ft.) gas hose.

SGA 100C 043857
SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like the Miller Bobcat. Includes 3 m (10 ft.) 115-volt power cable with plug, 1.8 m (6 ft.) interconnecting cable, and 1.5 m (5 ft.) gas hose.

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 (CV) power sources or DC engine drives supplying 115 volts. Used with a constant-current (CC) source the control circuit functions in a voltage-sensing mode, and with a CV source it functions as a constant-speed circuit. Includes wire run-in and drive motor acceleration controls which ensure optimum arc starting performance.

WC-24 Weld Control 137549
For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Easily mounts on power source. Designed for use with Miller® constant-voltage (CV) power sources with 14-pin receptacles and supplying 24 VAC.

Spool Gun Extension Hose and Cable Kits
132228 7.6 m (25 ft.)
132229 15.2 m (50 ft.)
For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

Turntable Assembly
146236
Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

Wire Straightener

141580 For 0.9–1.1 mm (.035–.045 inch) wire.
141581 For 1.6–3.2 mm (1/16–1/8 inch) wire.

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