

# WE BUILD™

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CELEBRATING  
**90**  
YEARS



2019 | INTERNATIONAL CATALOG

MILLERWELDS.COM



**Miller**

The Power of Blue®

# WE BUILD™

## Welding's Future

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

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

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

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

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

### About the Front Cover

#### Aaron Valencia

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

#### BarbieTheWelder

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

#### Chris Cramer

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



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# New from Blue

## 10 Millermatic® 255



## 20 Deltaweld® 350 Systems with Intellix™ feeders



## 27 20 Series feeders



## 31 MDX™ Series MIG guns



## 39 Multimatic® 220 AC/DC



## 40 Multimatic® 255



## 46 XMT® 350 FieldPro™ with Polarity Reversing



## 66 Weldcraft™ A-250 Series



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and attention**

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# Benefits of Blue Technologies and Innovations



Miller is committed to bringing forward-thinking technologies and solutions to the welding industry. We listen to your challenges and constantly seek to improve our products and services to better address them.

## Ease of use

### ArcConnect™

Next generation communication that utilizes high-speed signals to improve weld performance and allow point-of-use controls to be located at the feeder. Found on the Deltaweld 350 System.



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

#### MIG

Millermatic 255  
AlumaPower 350  
Invision 352  
Continuum  
Auto-Continuum

#### Multiprocess

Multimatic 255  
Dynasty  
XMT 350

#### Stick

Maxstar

#### TIG

Maxstar  
Syncrowave 210  
Dynasty

#### Plasma cutters

Spectrum

### MVP™ plugs and adapters

Allows connection to common 120- or 240-volt receptacles without the use of tools — just choose the plug/adaptor that fits the receptacle. Found on the following products:



#### MIG

Millermatic 211

#### Multiprocess

Multimatic 200/215/220 AC/DC

#### Stick

Thunderbolt 160

#### TIG

Diversion  
Syncrowave 210

#### Engine drives

Fusion

#### Plasma cutters

Spectrum 375/625



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.

### Auto-Set™

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

#### MIG

Millermatic 141/211/212 Auto-Set/  
255

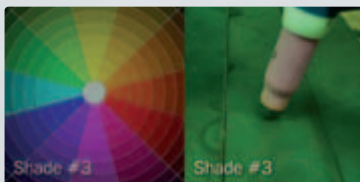
#### Multiprocess

Multimatic

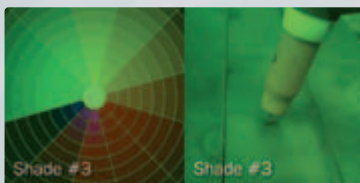
### ClearLight™

#### Lens Technology

Optimizes contrast and clarity in welding and light states. 1/1/1/2 optical clarity rating allows a lighter light state while not welding, providing versatility for varied applications. Found on T94, Digital Infinity, Digital Elite and Digital Performance welding helmets.



ClearLight lens technology



Traditional lens technology

### Pro-Set™

Provides speed, convenience and confidence of preset controls and eliminates guesswork when setting TIG weld parameters. Found on the following products:

#### Multiprocess

Multimatic 220 AC/DC  
Dynasty

#### TIG

Syncrowave 210  
Dynasty  
Maxstar (except 161)

### 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.

### X-Mode™

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



## Productivity

**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. Found on the following products:

### Multiprocess

Dimension 650 ArcReach  
XMT 350 FieldPro models  
XMT 450 CC/CV ArcReach

### Engine drives

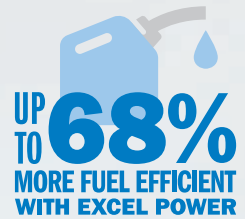
Trailblazer 325 with ArcReach  
Big Blue ArcReach models

### Auto-Speed™

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

### Excel™ power

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



### InfoTrack™

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

### 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.

## Optimization and performance

### Advanced welding processes

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

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

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

Advanced welding processes are found on the following products:

### MIG

Deltaweld 350 with IntellX Pro feeder (Accu-Pulse only)  
Continuum System  
Auto-Continuum System

### Engine drives (RMD only)

Trailblazer 325 with ArcReach\*  
Big Blue ArcReach models\*

### Multiprocess (RMD only)

XMT 350 FieldPro models\*  
PipeWorx 400 Welding System

*\*Requires an ArcReach Smart Feeder.*



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 a simplified, internet-based welding information solution that reports operator productivity and deposition, as well as weld parameter verification.

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

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

Insight Welding Intelligence is found on the following products:

### MIG (Core and Centerpoint)

Continuum  
Auto-Continuum

### Submerged Arc (Core with 14-pin module and adapter kit)

SubArc Digital Series

**NOTE: Insight Core** is compatible with many other 14-pin compliant Miller® power sources. See list at [MillerWelds.com/insight](http://MillerWelds.com/insight).

# Help Me Choose



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

## Process skill level

★ Low ★★ Moderate ★★★ High

## Metal type

<b>S</b>	Steel
<b>SS</b>	Stainless steel
<b>Ni</b>	Nickel alloys
<b>AL</b>	Aluminum
<b>CI</b>	Cast iron
<b>CB</b>	Copper/brass
<b>Ti</b>	Titanium
<b>Mg</b>	Magnesium alloys
<b>EC</b>	All electrically conductive

## 1 Pick the right process



### MIG (GMAW) ★ S SS Ni AL CB

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

### Pulsed MIG (GMAW-P) ★ S SS Ni AL CB

- Flexibility and productivity — nearly all metals can be welded in all positions
- Larger diameter electrode wires for higher deposition rates
- Virtually no spatter
- Welds thin to thick metals



### Flux-cored (FCAW) ★ S SS

- Can work as well as stick on dirty or rusty material
- Out-of-position welding
- Deep penetration for welding thick sections
- Increased metal deposition rate



### Plasma Arc (PAC) Cutting and Gouging ★

S SS Ni AL CI CB Ti Mg EC

- Use with any electrically conductive metals
- Small and precise cut
- Small heat-affected zone which helps prevent warping or paint damage



### Stick (SMAW) ★★ S SS Ni CI

- Well suited for windy, outdoor conditions
- More forgiving when welding on dirty or rusty metal



### TIG (GTAW) ★★★

AC AL Mg DC S SS Ni CB Ti

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

### Pulsed TIG (GTAW-P) ★★★

AC AL Mg DC S SS Ni CB Ti

- More control on thin metals
- Less heat distortion on thin metals



### Submerged Arc (SAW) ★★ S SS

- High deposition rates can enhance weld speed and production
- Excellent mechanical properties for high-quality code and X-ray requirements
- Improves welding operator comfort and appeal



### Oxy-fuel Cutting ★ S

- Cuts ferrous (containing iron) steels
- Requires no electricity
- Highly portable

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



### Air Carbon Arc (CAC-A) Cutting and Gouging ★★

AC CB DC S SS AL CI

- Wide variety of metals
- Removes discontinuities or inferior welds





# Millermatic® 141 and 211

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



Millermatic 141

Millermatic 211



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

## Mild Steel Welding Capability

Max.	4.8 mm (3/16 in.)	9.5 mm (3/8 in.)
Model	141	211
Min.	0.6 mm (24 ga.)	0.6 mm (24 ga.)

## Aluminum Welding Capability

Max.	1.9 mm (14 ga.)	9.5 mm (3/8 in.)
Model	141	211
Min.	1.2 mm (18 ga.)	1.2 mm (18 ga.)

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

## 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 4.6 m (15 ft.) M-150 MIG gun.

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

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

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

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

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

## Millermatic 211 model additional features

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

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

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

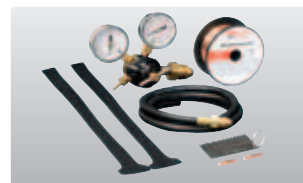
Light industrial • **CV DC 1** Phase

## Processes

- MIG (GMAW) • Flux-cored (FCAW)

## Comes complete with

- 3 m (10 ft.) M-100 MIG gun and cable assembly (248282)
- 3 m (10 ft.) work cable with clamp
- 2 m (6.5 ft.) power cord with plug (Millermatic 141) **OR** 2 m (6.5 ft.) power cord with MVP plugs for 120 V and 240 V (Millermatic 211)
- Quick Select™ drive roll for 0.6 mm (.024 in.) or 0.8/0.9 mm (.030/.035 in.) solid wire, and 0.8/0.9 mm (.030/.035 in.) flux-cored wire



- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> 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

Model/Stock Number	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	Wire Feed Speed	Wire Type and Diameter Capacity	Power Source Dimensions	Power Source Net Weight
Millermatic 141 (907612)	120 V	30-140	90 A at 18.5 VDC, 20% duty cycle	20 — 3.0 2.45	0.4-9.1 m/min. (15-360 ipm)	<b>Solid steel</b> 0.6-0.8 mm (.023-.030 in.) <b>Stainless</b> 0.6-0.8 mm (.023-.030 in.) <b>Flux-cored</b> 0.8-0.9 mm (.030-.035 in.)	H: 318 mm (12.5 in.) W: 286 mm (11.25 in.) D: 521 mm (20.5 in.)	23.1 kg (51 lb.)
Millermatic 211 (907614)	120 V	30-130	115 A at 19.8 VDC, 20% duty cycle	24.3 — 2.9 2.9	1.5-15.2 m/min. (60-600 ipm)	<b>Solid steel</b> 0.6-0.9 mm (.023-.035 in.) <b>Stainless</b> 0.6-0.9 mm (.023-.035 in.) <b>Flux-cored</b> 0.8-1.2 mm (.030-.045 in.)		17.2 kg (38 lb.)
	240 V	30-230	150 A at 21.5 VDC, 40% duty cycle	— 16.6 4.0 4.0				

# Millermatic® 212 Auto-Set™

See literature DC/12.46

## Welding Capability

Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)
Mild Steel	Aluminum
Min. 0.8 mm (22 ga.)	Min. 1.9 mm (14 ga.)

Aluminum welding uses optional Spoolmate 200 spool gun.

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

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

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

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

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

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



**Recommended aluminum solution**  
Spoolmate 200 (300497).

Light industrial ● CV DC 1 Phase

## Processes

• MIG (GMAW) • Flux-cored (FCAW)

## Comes complete with

- 4.5 m (15 ft.), 250-amp M-25 gun
- 3 m (10 ft.) work cable with clamp
- 2.1 m (7 ft.) power cord with plug
- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> mix
- Factory-installed lowered running gear/cylinder rack
- 0.8/0.9 mm (.030/.035 in.) reversible dual-groove drive rolls
- Extra contact tips and material thickness gauge (229895)

## Most popular accessories

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

Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz				Wire Feed Speed	Wire Type and Diameter Capacity			Dimensions	Net Weight
			200 V	230 V	KVA	KW						
(907405) 200(208)/230 V	30-210	160 A at 24.5 VDC, 60% duty cycle	31	28	6.2	5.2	1.3-17.8 m/min. (50-700 ipm)	Solid steel 0.6-0.9 mm (.023-.035 in.) Stainless 0.6-0.9 mm (.023-.035 in.) Flux-cored 0.8-1.2 mm (.030-.045 in.)			H: 762 mm (30 in.) W: 483 mm (19 in.) D: 1,016 mm (40 in.)	83 kg (183 lb.)

# Millermatic® 252

See literature DC/12.49

## Welding Capability

Max. 13 mm (1/2 in.)	Max. 9.5 mm (3/8 in.)
Mild Steel	Aluminum
Min. 0.8 mm (22 ga.)	Min. 1.9 mm (14 ga.)

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).

Industrial ● CV DC 1 Phase

## Processes

• MIG (GMAW) • Flux-cored (FCAW)

## Comes complete with

- 4.5 m (15 ft.), 250-amp M-25 gun
- 3 m (10 ft.) work cable with clamp
- 3 m (10 ft.) industrial power cord (and plug on 200/230 V model)
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> mix
- Factory-installed lowered running gear/cylinder rack
- 0.8/0.9 mm (.030/.035 in.) reversible dual-groove drive rolls
- Extra contact tips

## Most popular accessories

- Spoolmate™ 200 and Spoolmatic® Spool Guns
- XR™ Air-Cooled Push-Pull Guns
- Dual EZ-Change™ Low Cylinder Rack 300337
- Elevated Gun and Cable Rack 300335
- Protective Cover 195142

Model/Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz				Wire Feed Speed	Wire Type and Diameter Capacity			Dimensions	Net Weight
			200 V	230 V	460 V	575 V						
(907321) 200(208)/230 V	30-300	200 A at 28 VDC, 60% duty cycle	48	42	—	—	1.3-17.8 m/min. (50-700 ipm)	Solid steel 0.6-1.2 mm (.023-.045 in.) Stainless 0.6-1.2 mm (.023-.045 in.) Flux-cored 0.8-1.2 mm (.030-.045 in.)			H: 762 mm (30 in.) W: 483 mm (19 in.) D: 1,016 mm (40 in.)	94 kg (205 lb.)
(907322) 230/460/575 V		250 A at 28 VDC, 40% duty cycle	—	46	23	18						

# NEW! Millermatic® 255

See literature DC/12.8



Millermatic 255 with running gear package shown.

## Welding Capability

Max. 13 mm (1/2 in.)	Max. 13 mm (1/2 in.)
Mild Steel	Aluminum
Min. 0.6 mm (24 ga.)	Min. 1.2 mm (18 ga.)

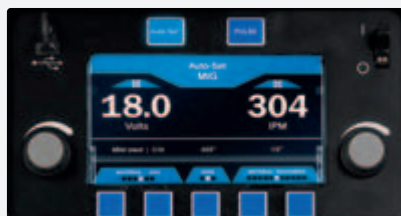
Aluminum welding uses optional XR-Aluma-Pro push-pull gun.

## Recommended aluminum solution

XR-Aluma-Pro™ push-pull gun



With NEW! MDX Series MIG 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 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-LINE™ TECHNOLOGY** 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.

Industrial ●  DC 1 Phase

## Processes

- 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/CO<sub>2</sub> 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

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

Stock Number (907734) 208–240 V	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Wire Type and Diameter Capacity				Power Source Dimensions	Power Source Net Weight
	20–350	230 A at 25.5 V, 60% duty cycle	208 V	240 V	KVA	KW							
			44.0	39.5	9.5	7.2	1.3–20 m/min. (50–800 ipm)	Solid steel 0.6–1.2 mm (.023–.045 in.) Stainless 0.6–1.2 mm (.023–.045 in.) Aluminum 0.9–1.2 mm (.035–.047 in.) Flux-cored 0.8–1.2 mm (.030–.045 in.)				H: 489 mm (19.24 in.) W: 349 mm (13.75 in.) D: 667 mm (26.25 in.)	38 kg (84 lb.)



# Millermatic® 350P Aluminum

See literature DC/12.56



## Welding Capability

Max. 13 mm (1/2 in.)

Aluminum

Min. 1.2 mm (18 ga.)

Aluminum welding uses optional Aluma-Pro push-pull gun. Not compatible with standard MIG gun.

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

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

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

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

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

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

**Trigger hold** reduces operator fatigue on extended welds.

**Standard jog and purge.**

Industrial ● CV DC 3 1 Phase Phase

## Processes

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

## Comes complete with

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

## Most popular accessories

- XR™ Air-Cooled Push-Pull Guns
- Dual Cylinder Rack 195299
- Protective Cover 195142

Model/Stock Number	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz 200 V 230 V 460 V KVA KW	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
Millermatic 350P Aluminum (gun NOT included) (907474) 200/230/460 V standard unit	Three-phase	25-400	300 A at 32 VDC, 60% duty cycle	34 30 15 11.6 11.5	Optional spool gun/ push-pull gun 1.3-20 m/min. (50-800 ipm)	0.9-1.2 mm (.035-.047 in.)	H: 863 mm (34 in.) W: 483 mm (19 in.) D: 1,041 mm (41 in.)	82 kg (181 lb.)
	Single-phase			69 61 30 13.1 11.2				

# Migmatic® 175

See literature DCM/13.0

Must be purchased from ITW Italy



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

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

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

**Traditional tapped design and laminated inductor** provide a stable, smooth arc for consistent weld quality.

Light industrial ● CV DC 1 Phase

## Processes

- MIG (GMAW) • Flux-cored (FCAW)

## Comes complete with

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


## Most popular accessories

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

Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output 230 V	Max. Open-Circuit Voltage	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
(029015550) 230 V, 50/60 Hz, CE	30-150	150 A at 21 VDC, 30% duty cycle	21	34	1.8-18 mpm (70-708 ipm)	<b>Solid steel</b> 0.6-0.8 mm (.023-.030 in.) <b>Aluminum</b> 0.8-1.0 mm (.030-.040 in.) <b>Flux-cored</b> 0.6-0.8 mm (.023-.030 in.)	H: 561 mm (22.1 in.) W: 447 mm (17.6 in.) D: 769 mm (30.25 in.)	43.3 kg (95.5 lb.)

# Migmatic® 220/220DX and 250/250DX

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

Must be purchased  
from ITW Italy 



Migmatic 220 and 220DX shown.

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

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

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

**Professional wire drive motor** withstands even the most demanding applications.

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

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

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

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

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

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

## Light industrial ●

<b>CV</b>	<b>DC</b>	<b>1</b>	220/220DX
<b>CV</b>	<b>DC</b>	<b>3</b>	250/250DX

### Processes

- MIG (GMAW) • Flux-cored (FCAW)

### Comes complete with

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


### Most popular accessories

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

Model/Stock Number	Rated Output	Max. Open-Circuit Voltage	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
<b>Migmatic 220 (CE)</b> (029015520) 220/240 V, 50/60 Hz	220 A at 28 VDC, 25% duty cycle	40	1.0–20 mpm (39–787 ipm)	<b>Solid steel</b> 0.6–1.2 mm (.023–.047 in.)	H: 712 mm (28 in.) W: 480 mm (18.88 in.) D: 920 mm (36.19 in.)	66 kg (152 lb.)
<b>Migmatic 220DX (CE)</b> (029015521) 220/240 V, 50/60 Hz				<b>Stainless</b> 0.8–1.0 mm (.030–.040 in.) <b>Aluminum</b> 0.8–1.2 mm (.030–.047 in.) <b>Flux-cored</b> 0.9–1.2 mm (.035–.047 in.)		
<b>Migmatic 250 (CE)</b> (029015524) 230/380–400 V, 50/60 Hz	240 A at 26 VDC, 35% duty cycle	43	1.0–20 mpm (39–787 ipm)	<b>Solid steel</b> 0.6–1.2 mm (.023–.047 in.)		73 kg (161 lb.)
<b>Migmatic 250DX (CE)</b> (029015525) 230/380–400 V, 50/60 Hz				<b>Stainless</b> 0.8–1.0 mm (.030–.040 in.) <b>Aluminum</b> 0.8–1.2 mm (.030–.047 in.) <b>Flux-cored</b> 0.9–1.2 mm (.035–.047 in.)		

# Migmatic® 300/300DX and 380/380DX

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

Must be purchased  
from ITW Italy 



Migmatic 380 and 380DX shown.

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

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

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

**Professional wire drive motor** withstands even the most demanding applications.

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

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

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

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

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

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

Industrial • **CV DC 3**  
Phase

## Processes

▪ MIG (GMAW) ▪ Flux-cored (FCAW)

## Comes complete with

- Power cord with plug
- Work cable with clamp
- Running gear/bottle rack
- 1.0/1.2 mm drive rolls

## Most popular accessories

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

Model/Stock Number	Rated Output	Amps Input at Rated Output		Max. Open-Circuit Voltage	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
<b>Migmatic 300</b> (029015545) 230/400 V, 50 Hz, CE (029015540) 400 V, 50 Hz, CE	300 A at 28 VDC, 35% duty cycle	35	20	43	1.3-26 mpm (51-1,024 ipm)	<b>Solid steel</b> 0.6-1.2 mm (.023-.047 in.) <b>Stainless</b> 0.8-1.0 mm (.030-.040 in.) <b>Aluminum</b> 0.8-1.2 mm (.030-.047 in.) <b>Flux-cored</b> 0.9-1.4 mm (.035-.055 in.)	H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)	88 kg (194 lb.)
<b>Migmatic 300DX</b> (029015541) 400 V, 50 Hz, CE								
<b>Migmatic 380</b> (029015547) 380-400 V, 50 Hz, CE (029015542) 400 V, 50 Hz, CE	350 A at 29 VDC, 35% duty cycle	27	16	43	1.3-26 mpm (51-1,024 ipm)	<b>Solid steel</b> 0.6-1.2 mm (.023-.047 in.) <b>Stainless</b> 0.8-1.0 mm (.030-.040 in.) <b>Aluminum</b> 0.8-1.2 mm (.030-.047 in.) <b>Flux-cored</b> 0.9-1.4 mm (.035-.055 in.)	H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)	102.6 kg (227 lb.)
<b>Migmatic 380DX</b> (029015548) 230/380-400 V, 50 Hz, CE (029015543) 400 V, 50 Hz, CE								



# XPS Series

See literature DCM/42.0 UK

Must be purchased  
from ITW Italy



Industrial ● CV DC 3  
Phase



XPS 450 shown.

## Traditional tapped transformer power source.

Simple and precise with 30 (XPS 350) or 40 (XPS 450) voltage steps, provides the operator with a superior range and arc performance for even the most demanding applications.

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

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

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

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

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

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

## Processes

- MIG (GMAW) • Flux-cored (FCAW)

## Comes complete with

- Industrial power cord
- Work cable with clamp
- Factory-installed running gear/twin bottle rack

## Most popular accessories

- ST®-44 Series Wire Feeders  
029007406 Base model  
029007404 Digital model
- Hydracool® 1 028042103

Model	Stock Number	Rated Output	IP Rating	Amps Input at Rated Output, 50 Hz		Max. Open-Circuit Voltage	Dimensions	Net Weight
				230 V	400 V			
XPS 350	(029015531) 400 V, 50 Hz, CE (029015528) 400 V, 50 Hz with aux power, digital meters and Fan-On-Demand, CE	350 A at 32 VDC, 45% duty cycle	IP22	—	23	38	H: 930 mm (37 in.) W: 570 mm (22.5 in.) D: 860 mm (34 in.)	125 kg (275 lb.)
XPS 450	(029015535) 230/400 V, 50 Hz with aux power, digital meters and Fan-On-Demand, CE (029015532) 400 V, 50 Hz with aux power, CE (029015529) 400 V, 50 Hz with aux power, digital meters and Fan-On-Demand, CE	450 A at 37 VDC, 45% duty cycle	IP22	56	32	47		153 kg (337 lb.)

**Miller recommends**



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

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

**Questions? Hobart is here to help.**

# Choose the Right Industrial Aluminum MIG Solution

For additional aluminum MIG solutions, see spool guns, push-pull guns and controls.

## Millermatic® 350P Aluminum Push-Pull Gun System



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

Cost-effective industrial all-in-one MIG/pulsed MIG solution with easy-to-use interface for aluminum welding on material up to 13 mm (1/2 in.) thick. Features built-in running gear for mobility.

## AlumaFeed® Synergic Aluminum Welding System



AlumaPower 450 MPa and XR-AlumaFeed with XR-Aluma-Pro gun shown.

Dedicated heavy-industrial-fabrication solution for aluminum welding, with advanced features that can handle larger weldments. Its lightweight push-pull feeder can easily be carried up to 30.4 m (100 ft.) from the power source.

## Invision™ MPa Plus System



Invision 352 MPa and D-74 MPa Plus feeder with XR-Aluma-Pro and Bernard® BTB Gun 400 A guns shown.

Versatile heavy-industrial advanced system for large, high-duty-cycle aluminum and steel weldments. Features push and/or push-pull bench feeder for easy switchover between solid, aluminum and tubular wires.

	Millermatic 350P Aluminum (all-in-one)	AlumaPower™ 350 MPa or 450 MPa	Invision 352 MPa or 450 MPa
<b>Power Source</b>	Millermatic 350P Aluminum (all-in-one)	AlumaPower™ 350 MPa or 450 MPa	Invision 352 MPa or 450 MPa
<b>Feeder</b>	All-in-one — built-in running gear with cylinder rack is easily maneuverable from area to area	Single-wire XR-AlumaFeed — portable feeder can be carried up to 100 feet from power source	Single- or dual-wire 74 MPa Plus — stationary feeders can be mounted up to 30.4 m from power source
<b>Input Voltage</b>	Single- or three-phase	Single- or three-phase (450 MPa is three-phase only)	Single- or three-phase (450 MPa is three-phase only)
<b>Rated Output</b>	300 A at 60% duty cycle	350 MPa: 350 A at 60% duty cycle 450 MPa: 450 A at 100% duty cycle	352 MPa: 350 A at 60% duty cycle 450 MPa: 450 A at 100% duty cycle
<b>Primary Connection</b>	Auto-Link® — Automatically links the power source to primary voltage being applied. Auto-link is used to link to 208 or 230 V and manually moving a link board is required to link to 460 V	350 MPa: Auto-Line™ — Allows for any primary input voltage (208–575 V, single- or three-phase, 50 or 60 Hz) with no manual linking. Also adjusts for voltage spikes within the entire range. 450 MPa: 230/460 V manual linking	352 MPa: Auto-Line™ — Allows for any primary input voltage (208–575 V, single- or three-phase, 50 or 60 Hz) with no manual linking. Also adjusts for voltage spikes within the entire range. 450 MPa: 230/460 V manual linking or 400 V
<b>Aluminum Wire Diameters</b>	0.9–1.2 mm (.035–.047 in.)	0.9–1.6 mm (.035–1/16 in.)	0.9–1.6 mm (.035–1/16 in.)
<b>Gun Capability</b>	XR-Aluma-Pro™, XR-Aluma-Pro™ Lite, or XR™-Pistol	XR-Aluma-Pro™, XR-Aluma-Pro™ Lite, or XR™-Pistol	XR-Aluma-Pro™ Plus, XR™-Pistol Plus or standard MIG gun
<b>MIG Modes</b>			
<b>Profile Pulse™</b>	—	Yes — achieve a “stacked dime” appearance quickly and easily without gun manipulation	Yes — achieve a “stacked dime” appearance quickly and easily without gun manipulation
<b>Synergic Pulsed MIG</b>	Yes — “one-knob” control, only need to change wire feed speed to weld different material thicknesses	Yes — “one-knob” control, only need to change wire feed speed to weld different material thicknesses	Yes — “one-knob” control, only need to change wire feed speed to weld different material thicknesses
<b>MIG</b>	Spray transfer MIG — for aluminum wires	Spray transfer MIG — for aluminum wires	Conventional MIG — modes for aluminum, steel and other wires
<b>Features</b>			
<b>Built-In Pulsed Programs</b>	Aluminum	Aluminum	Aluminum, steel, stainless and others
<b>Portability</b>	Built-in running gear with cylinder rack — easily maneuverable from area to area	Lightweight, portable feeder with handle — can be carried up to 100 feet from power source	Stationary feeder — can be mounted up to 100 feet from power source
<b>Trigger Hold</b>	Yes — reduces operator fatigue from holding trigger	Yes — reduces operator fatigue from holding trigger	Yes — reduces operator fatigue from holding trigger
<b>Trigger Schedule Select</b>	Yes — allows operator to switch between two preset weld conditions by tapping the trigger	Yes — allows operator to switch between two preset weld conditions by tapping the trigger	Yes — allows operator to switch between two preset weld conditions by tapping the trigger
<b>Program Locks</b>	—	Yes — prevents unintended changes to the welding program weld parameters	Yes — prevents unintended changes to the welding program weld parameters
<b>Flow Meter</b>	—	Yes — allows flow to be set at feeder even when gas supply is a long distance away	—

# Millermatic® 350P

See literature DC/12.51

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



Recommended  
aluminum solution  
XR-Aluma-Pro push-pull gun.

## Welding Capability

Max. 13 mm (1/2 in.)	Max. 13 mm (1/2 in.)
Mild Steel	Aluminum
Min. 0.6 mm (24 ga.)	Min. 1.2 mm (18 ga.)

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

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

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

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

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

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

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

## Millermatic® 350P Auto Body Aluminum Repair System

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



## Welding Capability

Max. 13 mm (1/2 in.)	Max. 13 mm (1/2 in.)
Mild Steel	Aluminum
Min. 0.6 mm (24 ga.)	Min. 0.8 mm (22 ga.)

Aluminum welding uses Bernard BTB Gun 200 A aluminum MIG gun.

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

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

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

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

Industrial ● CV DC 3 1  
Phase Phase

## Processes

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

## Millermatic 350P comes complete with

- 4.5 m (15 ft.) Bernard™ BTB Gun 300 A with Centerfire™ consumables
- 3 m (10 ft.) work cable with clamp
- 3 m (10 ft.) industrial power cord (without plug) for single- or three-phase
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> mix
- Factory-installed, low-mounted running gear/cylinder rack
- 0.9/1.2 mm (.035/.045 in.) reversible V-groove drive rolls (order U-groove drive rolls for aluminum welding)
- Extra contact tips

## Millermatic 350P Auto Body Aluminum Repair System comes complete with

- 3.7 m (12 ft.) Bernard™ BTB Gun 200 A aluminum MIG gun
- 3 m (10 ft.) work cable with clamp
- 3 m (10 ft.) industrial power cord (without plug) for single- or three-phase
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> mix
- Factory-installed, low-mounted running gear/cylinder rack
- 1.2 mm (.047 in.) U-groove drive rolls
- 1.2 mm (.047 in.) aluminum Centerfire™ contact tips (T-047AL)
- 203 mm (8 in.), 2.7 kg (6 lb.) spool of Hobart 1.2 mm (.047 in.) 5554 aluminum wire

## Most popular accessories

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

Model/ Stock Number	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz					Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
				200 V	230 V	460 V	KVA	KW				
Millermatic 350P (907300) 200/230/460 V	Three- phase	25-400	300 A at 32 VDC, 60% duty cycle	34	30	15	11.6	11.5	MIG gun 1.3-17.8 m/min. (50-700 ipm)	Solid steel 0.6-1.2 mm (.023-.045 in.) Stainless 0.8-1.2 mm (.030-.045 in.) Aluminum 0.9-1.2 mm (.035-.047 in.) Metal-cored 0.9-1.3 mm (.035-.052 in.) Flux-cored 0.8-1.3 mm (.030-.052 in.)	H: 863 mm (34 in.) W: 483 mm (19 in.) D: 1,041 mm (41 in.)	82 kg (181 lb.)
Millermatic 350P Auto Body Aluminum Repair System (907300002) 200/230/460 V	Single- phase			69	61	30	13.1	11.2	Optional spool gun/push-pull gun 1.3-20 m/min. (50-800 ipm)			



# AlumaFeed<sup>®</sup> Synergic Aluminum Welding System

See literature DC/34.0

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



AlumaPower 350 MPa and XR-AlumaFeed with XR-Aluma-Pro gun air-cooled system shown.

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

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

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

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

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



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

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

**Heavy industrial** • **CV DC 3** Phase

## Processes

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

## AlumaFeed System consists of the following (sold separately)

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

## Most popular accessories

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

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

Model/Stock Number	Amp/Volt Ranges	Rated Output	Amps Input at Rated Load Output, 50/60 Hz				KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
			230 V	400 V	460 V	575 V					
<b>AlumaPower 350 MPa (907420)</b> 208–575 V <b>(907420001)</b> 208–575 V with auxiliary power	5–425 A 10–38 V	350 A at 34 VDC, 60% duty cycle	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)	36.3 kg (80 lb.)
<b>AlumaPower 450 MPa (907483)</b> 230/460 V with auxiliary power	15–600 A 10–38 V	450 A at 36.5 VDC, 100% duty cycle	49.4	—	27.2	23.6	21.6	18.3	90 VDC	H: 438 mm (17.25 in.) W: 368 mm (14.5 in.) D: 689 mm (27.125 in.)	55.3 kg (122 lb.)
<b>XR-AlumaFeed Wire Feeder (300509), CE</b> 14-pin compliant, but only operates synergically w/MPa power sources	<b>Input Power</b>	<b>Input Welding Circuit Rating</b>	<b>Wire Feed Speed</b>		<b>Wire Diameter Capacity</b>			<b>Maximum Spool Size Capacity</b>		<b>Dimensions</b>	<b>Net Weight</b>
	24 VAC, 5 A, 50/60 Hz	400 A at 100% duty cycle System duty cycle is limited to gun rating	1.3–22.9 mpm (50–900 ipm)		0.9–1.6 mm (.035–1/16 in.) Requires wire kit (230708) for gun and drive roll kit (195591) for control box to run 1.6 mm (1/16 in.) wire.			305 mm (12 in.)		H: 406 mm (16 in.) W: 241 mm (9.5 in.) D: 540 mm (21.25 in.)	19.2 kg (42.5 lb.)

# Deltaweld® Series

See literature DC/16.2

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



Deltaweld 602 shown with optional S-74D wire feeder and standard running gear with cylinder rack.

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

**Fan-On-Demand™** cooling system operates only when needed. Reduces contaminants drawn into the machine and excess noise in work areas.

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

**Remote control capability** allows operators fine tuning capability at an extended distance.

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

**Thermal overload protection** light indicates power shutdown. Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

**Material specific output studs** provide the flexibility to produce the optimal arc characteristics for aluminum, stainless steel and all other materials.

Industrial ● 302 model  
Heavy industrial ● 452/652 models



## Processes

- MIG (GMAW) • Flux-cored (FCAW)
- Air carbon arc gouging (CAC-A)  
(Deltaweld 452: 6.4 mm [1/4 in.] carbons)  
(Deltaweld 652: 9.5 mm [3/8 in.] carbons)

## Most popular accessories

- 70 Series Feeders
- Standard Running Gear 042886
- Standard Cylinder Rack 042887
- Extension Cables  
242208025 7.6 m (25 ft.)  
242208050 15 m (50 ft.)  
242208080 24.4 m (80 ft.)
- Remote On/Off Control 042869

\*Includes lift eye and strain relief.

Model	Stock Number	Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions*	Net Weight
Deltaweld 302/402	(#903 392) 230/460/575 V, Machine only (#907 357) 380/400/440 V, 50/60 Hz, CE	10-32	300 A at 32 VDC, 100% duty cycle	48	42	21	17	16.9	12.9	42 VDC	H: 762 mm (30 in.) W: 585 mm (23 in.) 302 D: 775 mm (30.5 in.)	147 kg (323 lb.)
Deltaweld 452/602	(#903 377) 200-208/230/460 V, Machine only (#903 394) 230/460/575 V, Machine only (#903 358) 380/400/440 V, 50/60 Hz, CE	10-38	450 A at 38 VDC, 100% duty cycle	72	63	32	25	25.1	21.1	48 VDC	452/652 D: 966 mm (38 in.)	174 kg (384 lb.)
Deltaweld 652/852	(#903 396) 230/460/575 V, Machine only (#907 359) 380/400/440 V, 50/60 Hz, CE	10-44	650 A at 44 VDC, 100% duty cycle	—	96	48	38	38.2	34.2	54 VDC		214 kg (472 lb.)

# XMS® 425 MPa Synergic Welding System

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

Must be purchased from ITW Italy



XMS 425 MPa shown with XMS MPa wire feeder and MIG Gun (sold separately).

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

**Multiprocess power source.** MIG, synergic MIG, synergic pulsed and double-pulsed MIG, Lift-Arc™ TIG and stick processes.

**Enhanced double-pulsed and pulsed MIG capabilities** are easy to read and display preset and actual voltage and amperage.

**Integrated water-cooling system** provides efficient cooling with low-flow shutdown for both MIG and TIG

applications, and reduces external connections and cables to save workspace.

**Simple user interface** reduces the number of control set up combinations for all processes and programs (including double-pulsed and pulsed MIG capabilities) without minimizing features or welding performance.

**Large, dual digital meters** are easily preset to the desired weld output, and provide easy-to-view current and voltage measurements during welding to ensure optimal control of the weld bead.

**32-bit microprocessor** controls the arc and allows easy setting, updating and memorization of more than 100 customized welding programs.

Industrial ● CC CV DC 3 Phase

## Processes

- Double pulsed MIG (GMAW-DP)
- Pulsed MIG (GMAW-P)
- MIG (GMAW) • Flux-cored (FCAW)
- Lift-Arc™ TIG (GTAW) • Stick (SMAW)

## Power source comes complete with

- Industrial power cord
- Work cable with clamp
- Factory-installed running gear/bottle rack

## Most popular accessories

- Interconnecting Cable Assembly (Water-Cooled)
- Rotating Support 156012136
- Wheel Kit V28066182

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

# Choose the Right Industrial MIG Solution

	Deltaweld® 350 with Intellix™ Feeder	Millermatic® 350P All-In-One	Invision™ with 74 MPa Plus Feeder	Continuum™ System
				
	<b>Basic</b>		<b>Advanced MIG</b>	
	<ul style="list-style-type: none"> <li>▪ Manufacturing solution for welders of all skill levels</li> <li>▪ Simple and easy to set up</li> <li>▪ Pulse capable with Intellix™ Pro feeder (Accu-Pulse®)</li> <li>▪ Integrated package ships complete and sets up in minutes</li> </ul>	<ul style="list-style-type: none"> <li>▪ Cost-effective, all-in-one package</li> <li>▪ Integrated running gear</li> <li>▪ Expand capabilities with MIG and synergic pulsed MIG</li> <li>▪ Push-pull gun for aluminum (optional)</li> </ul>	<ul style="list-style-type: none"> <li>▪ More advanced system with optimized weld programs for steel and aluminum</li> <li>▪ Push-pull gun for aluminum (optional)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Next generation advanced welding solution</li> <li>▪ Improves productivity through weld quality, ease of use and system flexibility</li> </ul>
<b>Weldable Metals</b>	Steels	Steels and aluminum	Steels and aluminum	Steels and aluminum
<b>MIG Processes</b>	<ul style="list-style-type: none"> <li>▪ Short arc</li> <li>▪ Spray</li> <li>▪ Accu-Pulse® — most popular for full range of material thicknesses (with Intellix™ Pro feeder only)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Short arc</li> <li>▪ Spray</li> <li>▪ Pulsed MIG</li> </ul>	<ul style="list-style-type: none"> <li>▪ Short arc</li> <li>▪ Spray</li> <li>▪ Pulsed MIG</li> <li>▪ Profile Pulse™ — provides TIG appearance with MIG productivity</li> </ul>	<ul style="list-style-type: none"> <li>▪ Short arc</li> <li>▪ Accu-Pulse® — most popular for full range of material thicknesses</li> <li>▪ Versa-Pulse™ — fast, low-heat, low-spatter for thin material; ideal for automation</li> <li>▪ RMD® — designed to fill gaps, and for thin material</li> <li>▪ High-deposition MIG — increased deposition rates on thicker materials</li> </ul>
<b>Special Models</b>	Fully integrated packages that ship complete are available	Dedicated aluminum model available	Dedicated aluminum models available	Semi-auto and automation packages available
<b>Welding Intelligence™</b>	—	—	Optional Insight Core™	Standard Insight Core™ and optional Insight Centerpoint™
<b>Input Power</b>	230/460 V, 3-phase	200/230/460 V, 1- and 3-phase	352: Auto-Line™ 208–575 V, 1- and 3-phase 450: 230/460 V or 400 V, 3-phase	Auto-Line™ 230–575 V, 3-phase
<b>Recommended Wire Diameters</b>	0.6–2.0 mm (.023–5/64 in.)	0.6–1.2 mm (.023–.045 in.)	352: 0.6–1.6 mm (.023–1/16 in.) 452: 0.6–2.0 mm (.023–5/64 in.)	0.9–2.0 mm (.035–5/64 in.)



**NEW!**

# Deltaweld® 350 Systems

See literature DC/16.5

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

Deltaweld 350  
MIGRunner with  
Intelx Pro feeder shown.



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

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

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

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

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

## Dedicated wire feeder options.

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

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

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



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

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

**Heavy industrial** • **CV DC 3** Phase

## Processes

- MIG (GMAW) • Flux-cored (FCAW)
- Accu-Pulse® MIG (GMAW-P) with Intelx Pro feeder

## MIGRunner™ packages

- Power source (907747)
- Intelx **OR** Intelx Pro feeder with Bernard® BTB Gun 300 A (Q3015AE8XMC) and .035/.045 in. V-groove drive rolls (227061)
- Cart accessory kit consisting of flowmeter regulator with 3 m (10 ft.) gas hose, 3 m (10 ft.) 4/0 feeder weld cable with lugs, 4.6 m (15 ft.) work cable with 600-amp C-clamp, 2.7 m (9 ft.) ArcConnect control/motor cable, and chains for gas cylinders.

## Wire feeding options

- Intelx Feeder 301493  
Single-wire feeder
- Intelx Pro Feeder 301492  
Single-wire feeder

## Most popular accessories

- Bernard® MIG Guns
- Deltaweld 350 Running Gear/ Cylinder Rack 301523
- Industrial MIG 4/0 Kit (with lug connectors) 300390 for stationary packages
- ArcConnect Control/Motor Cables  
280471009 2.7 m (9 ft.)  
280471015 4.6 m (15 ft.)  
280471025 7.6 m (25 ft.)  
280471050 15.2 m (50 ft.)  
280471075 22.9 m (75 ft.)  
280471100 30.5 m (100 ft.)  
280471150 45.7 m (150 ft.)
- Cart Accessory Kit 301528 (see above for contents)
- Handle Kit 301529
- Hanging Bail 058435
- .035/.045 in. V-groove 4 roll 227061
- Feeder Swivel Kit 301533

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

Model/Stock Number	Amp/Volt Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz				Power Source Dimensions (Includes lift eye)	Power Source Net Weight
Deltaweld 350 MIGRunner (907749) (907747 and 301523 Running Gear, 301533 Swivel Kit, and 301528 Cart Accessories) Deltaweld 350 Power Source Only (907747) 230/460 A with ArcConnect (907747001) 230/460 A with ArcConnect, 14-pin and meters	20-400 A 10-38 V	300 A at 29 VDC, 100% duty cycle	26.5	14.6	11.6	10.0	H: 568 mm (22.36 in.) W: 390 mm (15.35 in.) D: 740 mm (29.15 in.)	52.2 kg (115 lb.)
		350 A at 31.5 VDC, 60% duty cycle	33.4	18.1	14.5	12.5		
		425 A at 35.25 VDC, 30% duty cycle	45.1	23.1	18.5	16.9		
Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight	
Intelx Feeder (301493) Intelx Pro Feeder (301492)	50 VDC	600 A at 113 VDC, 100% duty cycle	1.3-19.8 m/min. (50-780 ipm)	.06-2.0 mm (023-5/64 in.)	457 mm (18 in.), 27 kg (60 lb.)	H: 413 mm (16.25 in.) W: 314 mm (12.38 in.) D: 708 mm (27.88 in.)	20.3 kg (44.8 lb.)	

# Invision™ MPa Plus System

See literature DC/23.6

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



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



## 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.

**Heavy industrial** **DC 3 Phase**

## Processes

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

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

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

## Most popular accessories

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



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

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

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

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



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

**Wind Tunnel Technology™.** Air flow that protects internal components, greatly improving reliability.

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

Model/Stock Number	Amp/Volt Ranges	Rated Output	Amps Input at Rated Load Output				KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
			230 V	400 V	460 V	575 V					
<b>Invision 352 MPa</b> (907431), 50/60 Hz (907431001) with auxiliary power, 50/60 Hz (907431002) 230-575 V with auxiliary power, 50/60 Hz, <b>CE</b>	5-425 A 10-38 V	350 A at 34 VDC, 60% duty cycle	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)	36.3 kg (80 lb.)
<b>Invision 450 MPa</b> (907485) 230/460 V with auxiliary power, 60 Hz (907524) 400 V with auxiliary power, 50/60 Hz, <b>CE</b>	15-600 A 10-38 V	450 A at 36.5 VDC, 100% duty cycle	49.4	—	27.2	23.6	21.6	18.3	90 VDC	H: 438 mm (17.25 in.) W: 368 mm (14.5 in.) D: 689 mm (27.125 in.)	55.3 kg (122 lb.)

# Continuum™ Systems

See literature DC/36.0

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



Continuum 350 shown with Continuum single-wire feeder. Filler metal sold separately.

## More power — better reliability

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

## Power source design

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

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

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

## Feeder design

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

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

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

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

## Continuum Processes

Best For	Standard Spray	High-Deposition MIG	Accu-Pulse	Versa-Pulse	Short Circuit	RMD
Deposition	A	A	A	B	D	D
Gap Filing	D	D	B	B	A	A
Low Heat Input	D	C	B	A	A	A
Out-of-Position Welds			A	B	B	B
Low Spatter	A	A	A	B	C	B
Thick Metals	A	A	A	C	D	D
Thin Metals			B	A	A	A
Increased Travel Speed	A	A	A	A	B	C

HOT  COLD

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

**Accu-Pulse** is the most popular process for majority of industrial welding applications.

**Versa-Pulse** is a fast, low-heat, low-spatter process designed for thin-material applications.

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

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

Heavy industrial  **DC 3** Phase

## Processes

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

## Most popular accessories

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

\*While idling.

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

Model	Stock Number	Amperage/ Voltage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz, 3-Phase								Max. Open- Circuit Voltage	Net Weight (power source only)
				230V	380V	400V	460V	575V	KVA	KW			
Continuum 350	(907636) 230-575 V Machine only (907636001) 230-575 V w/running gear (907645) 400 V, CE	20-400 A, 10-44 V	300 A at 34 VDC, 100% duty cycle	36.7 0-1*	21.8 0-1*	20.8 0-1*	18.8 0-1*	14.6 0-1*	14.4 0.8*	13.8 0.17*	75 VDC	57.6 kg (127 lb.)	
Continuum 500	(907640) 230-575 V Machine only (907640001) 230-575 V w/running gear (907648) 400 V, CE	20-600 A, 10-44 V	500 A at 40 VDC, 100% duty cycle	34.9 0-1*	— —	33.2 0-1*	28.9 0-1*	23.3 0-1*	23.1 0.8*	21.9 0.17*		67.1 kg (148 lb.)	
Model	Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed		Wire Diameter Capacity		Max Spool Size Capacity		Dimensions		Net Weight	
Continuum Feeder only	(301195) Single-wire model (301195010) Single-wire model, CE (301199) Dual-wire model (301199 010) Dual-wire model, CE	50 VDC	500 A at 100% duty cycle	Standard: 1.3-25.4 m/min. (50-1000 IPM)		0.9-2.0 mm (.035-5/64 in.)		457 mm (18 in.), 27 kg (60 lb.)		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.)		Single 19.5 kg (43 lb.)  Dual 27.9 kg (61.5 lb.)	



# Auto-Continuum™ Systems

See literature AU/10.0

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



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

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

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

\*While idling.

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

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

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

- **Versa-Pulse** is a fast, low-heat, low-spatter process for high-speed automation on thin materials and is great for gap filling
- **Accu-Pulse** is better for out-of-position welds, provides higher deposition rates and is designed for thicker materials than Versa-Pulse

**Easy communication** from robot to power source.

**Designed for easy integration** with fixed and flexible automation.

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

**Welding Intelligence™** Increase productivity, improve quality and manage costs.

- **Insight Core™** (standard) is a simplified, Internet-based welding information solution that reports cell productivity and weld parameter verification
- **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

Heavy industrial • **CV DC 3** Phase

## Processes

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

## Most popular accessories

- **Insight Centerpoint™ Software**
- **Auto-Continuum Robotic MIG Kit 301455**  
Consists of 7.6 m (25 ft.) motor control cable, 3.7 m (12 ft.) motor control extension, two 9 m (30 ft.) weld cables, 3.7 m (12 ft.) weld cable extension, 9 m (30 ft.) gas hose, flowmeter regulator, 5 m (16.4 ft.) Ethernet cable, 0.9/1.2 mm (.035/.045-in.) V-groove drive roll kit with guides, and conduit assembly with quick disconnects.
- **Wire Drive Motor Mounting Brackets**  
301276 ABB® 1600  
301277 ABB® 2600  
300483 FANUC® 100 and 120 IC  
300013 FANUC®/KUKA®/Motoman®  
301282 KUKA® KR5 HW  
301275 KUKA® KR16 HW  
300375 Motoman® EA1400  
300376 Motoman® EA1900
- **Motor Control Cables**  
263368025 7.6 m (25 ft.)  
263368050 15 m (50 ft.)  
263368080 24.4 m (80 ft.)  
263368100 30.5 m (100 ft.)
- **EtherNet/IP™ Communication Cables**  
300734 3 m (9.8 ft.)  
300735 5 m (16.4 ft.)  
300736 10 m (32.8 ft.)
- **DeviceNet Communication Cables**  
300020 2.7 m (9 ft.)  
300021 6.1 m (20 ft.)
- **DeviceNet to Analog Adapter 301427**  
Adapts DeviceNet to analog communication.

Model	Stock Number	Amp/Volt Ranges	Rated Output	IP Rating	Amps Input at Rated Output, 50/60 Hz, 3-Phase								Max. Open-Circuit Voltage	Dimensions (Includes lift eye)	Net Weight
230 V	380 V	400 V	460 V	575 V	KVA	KW									
Auto-Continuum 350	(907656) EtherNet/IP™ (907658) EtherNet/IP™ with auxiliary power (907656001) DeviceNet (907658001) DeviceNet with auxiliary power (907660) EtherNet/IP™, CE (907660001) DeviceNet, CE	20–400 A, 10–44 V	350 A at 31.5 VDC, 100% duty cycle	IP23	36.7 0–1*	21.8 0–1*	20.8 0–1*	18.8 0–1*	14.6 0–1*	14.4 0.8*	13.8 0.17*	75 VDC	H: 27.187 in. (691 mm) W: 17.5 in. (444 mm) D: 28.22 in. (717 mm)	59.4 kg (130 lb.)	
Auto-Continuum 500	(907657) EtherNet/IP™ (907659) EtherNet/IP™ with auxiliary power (907657001) DeviceNet (907659001) DeviceNet with auxiliary power (907661) EtherNet/IP™, CE (907661001) DeviceNet, CE	20–600 A, 10–44 V	500 A at 39 VDC, 100% duty cycle	IP23	58.7 0–1*	34.9 0–1*	33.2 0–1*	28.9 0–1*	23.3 0–1*	23.1 0.8*	21.9 0.17*	75 VDC		69 kg (150 lb.)	
Auto-Continuum Wire Drive Motor Assembly (301207) Left-hand drive, CE (301208) Right-hand drive, CE		Input Power	Input Welding Circuit Rating	IP Rating	Wire Feed Speed		Wire Diameter Capacity		Dimensions		Net Weight				
		50 VDC	500 A at 100% duty cycle	IP23	Standard: 1.3–25.4 m/min. (50–1,000 ipm)		0.9–2.0 mm (.035–5/64 in.)		H: 222 mm (8.75 in.) W: 254 mm (10 in.) D: 254 mm (10 in.)		7.5 kg (16.5 lb.)				

# o Wire Feeders

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



For more detailed information, visit

[MillerWelds.com/wirefeeders](http://MillerWelds.com/wirefeeders)



## Product Guide

	Class	MIG	Pulsed MIG <sup>1</sup>	RMD <sup>1</sup>	Flux-cored <sup>2</sup>	Power Source Required	Wire Types			Wire Diameter Capacity	Special Features	Typical Applications	
							Hard	Flux-cored Dual-shld	Self-shld				
ArcReach® SuitCase® 8/12	●	●	●	●	●	CC/CV	●	●	● CV <sup>2</sup>	●	8 in. (SuitCase 8) or 12 in. (SuitCase 12) diameter spool capacity, remote voltage control without a control cord, powered by arc voltage	Construction, site fabrication, field maintenance	Portable
ArcReach® Smart Feeder	●	●	●	●	●	ArcReach equipped	●	●			12 in. diameter spool capacity, remote voltage control without a control cord, requires an XMT 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive	Process piping, refinery, petrochemical, power plants, HVAC, water pipe	
SuitCase® 12RC	●	●	●	●	●	CV	●	●	●	●	12 in. diameter spool capacity, standard remote voltage control, powered by 14-pin control cord	Field maintenance, site fabrication	
20 Series (Basic and Digital)	●	●	●	●	●	CV	●	●	●	●	Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on basic model)	Manufacturing, fabrication	Bench
70 Series (74S/74D) Singles and Duals	●	●	●	●	●	CV	●	●	●	●	Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on 74S models)	Heavy and light manufacturing, fabrication	
70 Series (74 MPa Plus) Singles and Duals	●	●	●	●	●	CV	●	●	●	●	XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires	Manufacturing requiring multiple wire types	
70 Series Swingarc™ Singles and Duals	●	●	●	●	●	CV	●	●	●	● <sup>3</sup>	8, 12 and 16 ft. booms, four drive rolls, adjustable weld control	Heavy and light manufacturing, fabrication	
70 Series Remote Configurations Singles and Duals	●	●	●	●	●	CV	●	●	●	● <sup>3</sup>	Control box, cables and wire drive motor assemblies for generic booms or fixed automation	Heavy and light manufacturing, fabrication	

### Product Key

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

New! or Improved! products appear in blue type.

<sup>1</sup> 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.

<sup>2</sup> Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.

<sup>3</sup> 74S and 74D models are capable of aluminum welding. 74 MPa Plus models are designed for aluminum welding.



## SuitCase® Series Portable Feeders

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

SuitCase Series Features

Feature	ArcReach			12RC
	8	12	Smart	
Remote voltage control (control cord required)				●
Remote voltage control (without a cord)	●	●	●	
Digital meters	●	●	●	●
Impact-resistant case	●	●	●	●
Gas purge	●	●	●	●
Wire jog	●	●	●	●
● Standard				



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 can change wire while feeder is standing upright or laying down.

### Extreme reliability

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



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



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



## ArcReach® SuitCase® 8 and 12 and ArcReach Smart Feeder

See literature M/6.55

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

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

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

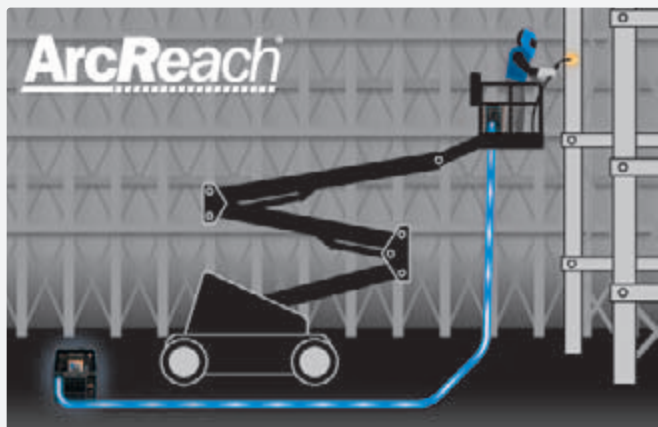
### Additional features of ArcReach Smart Feeder

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

## SuitCase® 12RC

See literature M/6.5

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



### Heavy Industrial



Use with CC/CV (CV only with 12RC). DC power sources. See spec chart below for Smart Feeder requirements.

#### Processes

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

#### Suggested power sources

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

#### For ArcReach SuitCase 8 and 12

- Dynasty® 280 DX Multiprocess
- Dimension™ 452
- Dimension™ 650/650 ArcReach®
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series

#### For ArcReach Smart Feeder

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

#### For SuitCase 12RC (requires power source with 14-pin connector)

- Dimension™ 452
- Dimension™ 650
- XMT® Series
- Bobcat™ Series
- Trailblazer® Series
- Big Blue® Series

#### Suggested guns

- Bernard® Guns

#### Most popular accessories

- Extension Cables (for SuitCase 12RC only, 1 required)
- Flowmeter Kit 300343
- Shielding Gas Filter 195189

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

	Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
ArcReach	ArcReach Suitcase 8 (301457), CE	Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV	330 A at 60% duty cycle	1.3–19.8 mpm (50–780 ipm) Actual range in CC mode is dependent on arc voltage applied	<b>Solid wire</b> 0.6–1.4 mm (.023–.052 in.) <b>Flux-cored</b> 0.8–2.0 mm (.030–5/64 in.)	203 mm (8 in.), 6.4 kg (14 lb.)	H: 324 mm (12.75 in.) W: 184 mm (7.25 in.) D: 457 mm (18 in.)	13 kg (28 lb.)
	ArcReach Suitcase 12 (301456), CE		425 A at 60% duty cycle		<b>Solid wire</b> 0.6–1.4 mm (.023–.052 in.) <b>Flux-cored</b> 0.8–2.0 mm (.030–5/64 in.)	305 mm (12 in.), 20 kg (45 lb.)	H: 394 mm (15.5 in.) W: 229 mm (9 in.) D: 533 mm (21 in.)	15.9 kg (35 lb.)
	ArcReach Smart Feeder (301177) Dinse, CE (300935) Tweco® (300935002) Tweco® w/flowmeter	XMT 350 FieldPro or PipeWorx 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive	275 A at 60% duty cycle	1.3–19.8 mpm (50–780 ipm) dependent on arc voltage	0.9–1.1 mm (.035–.045 in.)	305 mm (12 in.), 15 kg (33 lb.)	H: 457 mm (18 in.) W: 330 mm (13 in.) D: 546 mm (21.5 in.)	23 kg (50 lb.)
	SuitCase 12RC (301121), CE	24 VAC, 10 A, 50/60 Hz	425 A at 60% duty cycle	1.3–17.8 mpm (50–700 ipm)	<b>Solid wire</b> 0.6–1.4 mm (.023–.052 in.) <b>Flux-cored</b> 0.8–2.0 mm (.030–5/64 in.)	305 mm (12 in.), 20 kg (45 lb.)	H: 394 mm (15.5 in.) W: 229 mm (9 in.) D: 533 mm (21 in.)	14.1 kg (31 lb.)

## NEW! 20 Series Industrial Bench Feeders

## 70 Series Heavy-Industrial Bench Feeders

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



Feeders **include** a 10 ft. interconnecting cord.

20 and 70 Series Features

Feature	20 Series		70 Series		
	Basic	Digital	74S	74D	74MPA
Trigger hold	●	●	●	●	●
Adjustable run-in control	● <sup>1</sup>	●	●	●	●
Automatic run-in control	●	●	●	●	●
Digital meter(s)	● <sup>1</sup>	●	● <sup>1</sup>	●	●
Remote voltage control	● <sup>1</sup>	●	● <sup>1</sup>	●	●
Preflow/postflow			●	●	●
Spot control			●	●	●
Dual-wire models			●	●	●
Rotatable drive assembly			●	●	●
Accu-Mate™					●
Dual schedule control					●
Trigger program select					●
Trigger dual schedule					●
Sequence control					●
Locks and limits					●
Weld programs					4
Trigger schedule select					●
Push-pull capability					●
Synergic pulsed MIG					●
Profile Pulse™					●

● Standard ● Optional

<sup>1</sup>Field option.

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

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

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

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

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

**Feeders include a 10-foot 14-pin interconnecting cord.**

### Additional features for 70 Series feeders

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

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

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

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

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

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

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

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

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

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

## 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.

## 74 MPa Plus See literature M/3.0

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

**Adjustable run-in control** for improved arc starts.

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

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

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

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

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

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

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

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

### Recommended aluminum solution.

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



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

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

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



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

Model	Stock Number	Input Power	Wire Feed Speed	Wire Type and Diameter Capacity		Maximum Spool Size Capacity	Dimensions	Net Weight
20 Series	Basic (301499) Digital (301499001)	24 VAC, 3.5 A, 50/60 Hz	1.9-19 m/min. (75-750 ipm)	0.6-2.0 mm (.023-5/64 in.)		27 kg (60 lb.) coil with optional wire reel assembly (108008)	H: 406 mm (16 in.) W: 314 mm (12.375 in.) D: 708 mm (27.875 in.)	21 kg (46 lb.)
70 Series (Single-wire models)	S-74S (300616), CE S-74D (300617), CE S-74 MPa Plus (300577), CE	24 VAC, 10 A, 50/60 Hz	1.3-19.8 m/min. (50-780 ipm)	0.6-3.2 mm (.023-1/8 in.) Low-speed motor recommended for 2.4 and 3.2 mm (3/32 and 1/8 in.) wires (factory option)		27 kg (60 lb.) coil with optional wire reel assembly (108008)	H: 356 mm (14 in.) W: 318 mm (12.5 in.) D: 711 mm (28 in.)	26 kg (58 lb.)
70 Series (Dual-wire models)	D-74S (300619), CE D-74D (300620), CE D-74 MPa Plus (300578), CE			MPa Plus model Hard wire 0.6-2.0 mm (.023-5/64 in.) Aluminum* 0.9-1.6 mm (.035-1/16 in.)			H: 356 mm (14 in.) W: 533 mm (21 in.) D: 889 mm (35 in.)	39.5 kg (87 lb.)
Optional Push-Pull Gun (For MPa Plus feeders only)		Cable Length		Welding Current Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
		4.6 m (15 ft.)	7.6 m (25 ft.)	10.6 m (35 ft.)				
XR-Aluma-Pro Plus (Air-cooled)		(300000001)	(300001001)	—	300 A at 100% duty cycle	Aluminum* 0.8-1.6 mm (.030-1/16 in.)	H: 127 mm (5 in.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)	1.1 kg (2.5 lb.)
XR-Aluma-Pro Plus (Water-cooled)		(300003001), CE	(300004001), CE	—	400 A at 100% duty cycle			1.3 kg (2.9 lb.)
XR-Pistol Plus (Air-cooled)		(300753)	(300754)	(300755)	200 A at 100% duty cycle	Aluminum* 0.8-1.6 mm (.030-1/16 in.)	H: 187 mm (7.375 in.) W: 48 mm (1.875 in.) L: 270 mm (10.625 in.)	1 kg (2.2 lb.)
XR-Pistol Plus (Water-cooled)		(300756)	(300757)	(300758)	400 A at 100% duty cycle			1.1 kg (2.4 lb.)

**Industrial** ● 20 Series  
**Heavy industrial** ● 70 Series

**CVDC** 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

- Deltaweld® Series
- Invision™ MPa Series
- Dimension™ Series
- XMT® Series

### Suggested guns

- Bernard™ Guns
- XR-Aluma-Pro™ Plus and XR™-Pistol Plus (see chart below)

### Most popular accessories

- Wire Straightener
- Hanging Bail 058435
- Wire Reel Assembly 108008
- Spool Covers
  - 057607 For 20 and 70 Series single-wire models and left side of dual-wire models
  - 090389 For right side of dual-wire models
- 1.0 mm Drive Roll
  - 4 - 053696
  - 1 - 056192
  - 1 - 056206




## 70 Series Remote Configurations


See literature  
M/3.0

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

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



S-74 MPa Plus shown.



Gun NOT included. Must be ordered separately.

**Single-wire control box**

**300881** S-74S, CE

**300882** S-74D, CE

**300738001** S-74 MPa Plus, CE

**Motor control cable**

Standard: 11 conductor

MPa Plus: 14 conductor


**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-Aluma-Pro® Plus and Pistol Plus push-pull guns.*


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Gun NOT included. Must be ordered separately.



D-74D shown.



Gun NOT included. Must be ordered separately.

**Push-only wire drive motor assembly**

**300741001** Standard right-hand drive, CE

**300741** MPa Plus right-hand drive, CE

**Motor control cable**

11 conductor

**Motor control cable**

Standard: 11 conductor

MPa Plus: 14 conductor

**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-Aluma-Pro® Plus and Pistol Plus push-pull guns.*

Heavy industrial • **CV DC**

Use with CV, DC power sources.

### Processes

- MIG (GMAW) ▪ Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MPa Plus control box and optional MPa power source

### Suggested power sources/guns

- Same as 70 Series

### Most popular accessories

- Motor Control Cable (11 conductor)  
254935010 3 m (10 ft.)  
254935025 7.6 m (25 ft.)  
For push-only gun configurations.
- MPa Plus Motor Control Cable (14 conductor)  
254864010 3 m (10 ft.)  
254864025 7.6 m (25 ft.)  
For MPa Plus configurations only – single-wire or left side of dual-wire.

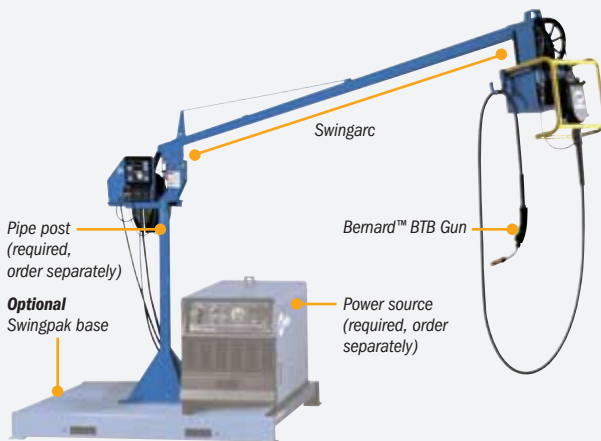


- **Feeder Base** 195369  
For use with spooled wire.

## 70 Series Swingarc™

See literature M/13.11

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



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.

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 183997
- Pipe Post with 45 mm (1.8 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.

		Model/Stock Number			
Single-Wire Feeder Models	Boom Size	Feeder Control Box	Dual-Wire Feeder Models	Boom Size	Feeder Control Box
SS-74S8	2.4 m (8 ft.) (300518)	S-74S (300881), CE	DS-74S8	2.4 m (8 ft.) (300521)	D-74S (300886), CE
SS-74D8	2.4 m (8 ft.) (300518)	S-74D (300882), CE	DS-74D8	2.4 m (8 ft.) (300521)	D-74D (300887), CE
SS-74DX8	2.4 m (8 ft.) (300518)	S-74MPa Plus (300738), CE	DS-74DX8	2.4 m (8 ft.) (300521)	D-74MPa Plus (300739), CE
SS-74MPa Plus-8	2.4 m (8 ft.) (300818)		DS-74MPa Plus-8	2.4 m (8 ft.) (300821)	
SS-74S12	3.7 m (12 ft.) (300519)	S-74S (300881), CE	DS-74S12	3.7 m (12 ft.) (300522)	D-74S (300886), CE
SS-74D12	3.7 m (12 ft.) (300519)	S-74D (300882), CE	DS-74D12	3.7 m (12 ft.) (300522)	D-74D (300887), CE
SS-74DX12	3.7 m (12 ft.) (300519)	S-74MPa Plus (300738), CE	DS-74DX12	3.7 m (12 ft.) (300522)	D-74MPa Plus (300739), CE
SS-74MPa Plus-12	3.7 m (12 ft.) (300819)		DS-74MPa Plus-12	3.7 m (12 ft.) (300822)	
SS-74S16	4.9 m (16 ft.) (300520)	S-74S (300881), CE	DS-74S16	4.9 m (16 ft.) (300523)	D-74S (300886), CE
SS-74D16	4.9 m (16 ft.) (300520)	S-74D (300882), CE	DS-74D16	4.9 m (16 ft.) (300523)	D-74D (300887), CE
SS-74DX16	4.9 m (16 ft.) (300520)	S-74MPa Plus (300738), CE	DS-74DX16	4.9 m (16 ft.) (300523)	D-74MPa Plus (300739), CE
SS-74MPa Plus-16	4.9 m (16 ft.) (300820)		DS-74MPa Plus-16	4.9 m (16 ft.) (300823)	
Input Power		Wire Speed		Wire Diameter Capacity	
24 VAC, 10 A, 50/60 Hz		1.3 - 19.8 m/min. (50-780 IPM) Optional High Speed: 2.3 - 36.6 m/min. (92-1435 IPM)		Standard Speed Motor: 0.6 - 3.2 mm (.023 - 1/8 in.) When using 2.4 - 3.2 mm (3/32 - 1/8 in.) wires, consult factory for low speed options.	
				Maximum Spool Size Capacity	
				27 kg (60 lb.) coil	

## Product Guide

	Class	MIG	Pulsed MIG*	Flux-cored**	Hard	Wire Types			Wire Diameter Capacity	Available Cable Lengths	Typical Applications
						Dual-shld	Self-shld	Alum.			
Steel	MIGmatic™ M-100 MIG Gun	●	●	●	●	●	● CV**	●	0.6–1.2 mm (.023–.045 in.)	10 ft.	Light industrial steel fabrication
	MIGmatic™ M-150 MIG Gun	●	●	●	●	●	● CV**	●	0.6–1.2 mm (.023–.045 in.)	10, 12 or 15 ft.	Light industrial steel fabrication
	MDX™-100 MIG Gun	●	●	●	●	●	● CV**	●	0.6–1.2 mm (.023–.045 in.)	10 ft.	Light industrial steel fabrication
	MDX™-250 MIG Gun	●	●	●	●	●	● CV**	●	0.6–1.2 mm (.023–.045 in.)	10, 12 or 15 ft.	Industrial steel fabrication
	MDX™-250 EZ-Select™ MIG Gun	●	●	●	●	●	● CV**	●	0.6–1.2 mm (.023–.045 in.)	15 ft.	Industrial steel fabrication
	Bernard® BTB MIG Guns	●	●	●	●	●	● CV**	●	0.6–3.2 mm (.023–1/8 in.)	10, 15, 20, or 25 ft.	Heavy industrial steel fabrication
	Bernard® Clean Air™ Straight Handle Series Fume Extraction Gun	●	●	●	●	●	● CV**	●	0.6–3.2 mm (.023–1/8 in.)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
	Bernard® Clean Air™ Curved Handle Series Fume Extraction Gun	●	●	●	●	●	● CV**	●	0.6–2.0 mm (.023–5/64 in.)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
	Bernard® Dura-Flux™ Gun with Replaceable Liner	●	●	●	●	●	● CV**	●	1.2–2.0 mm (.045–5/64 in.)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
	Bernard® Dura-Flux™ Gun with Fixed Liner	●	●	●	●	●	● CV**	●	1.6–2.4 mm (1/16–3/32 in.)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Aluminum	Spoolmate™ Spool Guns	●	●	●	●	●	●	●	100/200/3035 models: 0.6–0.9 mm (.023–.035 in.) 150 model: 0.8–0.9 mm (.030–.035 in.)	100 model: 12 ft. 150/200/3035 models: 20 ft.	Light industrial aluminum fabrication
	Spoolmatic® Spool Guns	●	●	●	●	●	● CV**	●	0.8–1.6 mm (.030–1/16 in.)	15 or 30 ft.	Industrial aluminum fabrication
	XR-Aluma-Pro™ Lite Push-Pull Gun	●	●	●	●	●	●	●	0.8–1.2 mm (.030–.047 in.)	25 ft.	Industrial aluminum fabrication
	XR-Aluma-Pro™ Push-Pull Guns	●	●	●	●	●	●	●	0.8–1.6 mm (.030–1/16 in.)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
	XR™-Pistol Push-Pull Guns	●	●	●	●	●	●	●	0.8–1.6 mm (.030–1/16 in.)	Pistol: 15 or 30 ft. Pistol-Pro: 15, 25 or 35 ft.	Heavy industrial aluminum fabrication
	XR™ Control	●	●	●	●	●	●	●	0.8–1.6 mm (.030–1/16 in.)	—	Heavy industrial aluminum fabrication

### Product Key

Class: ● Light industrial ● Industrial ● Heavy industrial Capability: ● Designed for this process ● Capable of this process  
 New! or Improved! products appear in blue type.

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

## MIGmatic™ M-Series MIG Guns

See literature AY/15.0

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



**Three-piece nozzle construction** extends nozzle life by reducing wear and helps prevent rocking of nozzle on contact tip adapter.

**Interchangeable contact tips and monocoil liners** help reduce parts inventory.

**Brass contact tip adapter** helps prevent galling, sticking and stripping of threads.

**Steel spring strain relief** protects power cable from wear and helps prevent liner from kinking, allowing better wire feedability.

### 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)

#### 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.)

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

Model	Stock Number	Cable Length	Rated Output	Rated Duty Cycle	Wire Diameter Capacity	Gun Only Net Weight
M-100	(248282)	3 m (10 ft.)	100 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.6–1.2 mm (.023–.045 in.)	1.5 kg (3.2 lb.)
M-150	(249039)	3 m (10 ft.)	150 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.6–1.2 mm (.023–.045 in.)	2.0 kg (4.4 lb.)
	(249040)	3.7 m (12 ft.)				2.1 kg (4.7 lb.)
	(249041)	4.6 m (15 ft.)				2.7 kg (6.0 lb.)

# NEW! MDX™ Series MIG Guns

See literature AY/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).



**Light industrial** ● MDX-100  
**Industrial** ● MDX-250/250 EZ-Select

## Processes

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

## Suggested power sources

### For MDX-100

- Millermatic® 141/211
- Multimatic® 215
- Multimatic® 220 AC/DC

### For MDX-250

- Millermatic® 212/252
- Millermatic® 255
- Multimatic® 200
- Multimatic® 255

### For MDX-250 EZ-Select

- Millermatic® 255
- Multimatic® 255

## Most popular consumables

### AccuLock Consumables

#### Liners

<b>LM1A-10</b>	0.6 mm, 3.0 m length
<b>LM2A-10</b>	0.8-0.9 mm, 3.0 m length
<b>LM3A-10</b>	0.9-1.2 mm, 3.0 m length
<b>LM1A-12</b>	0.6, 3.0 mm, 3.7 m length
<b>LM2A-12</b>	0.8-0.9 mm, 3.7 m length
<b>LM3A-12</b>	0.9-1.2 mm, 3.7 m length
<b>LM1A-15</b>	0.6, 3.0 mm, 4.6 m length
<b>LM2A-15</b>	0.8-0.9 mm, 4.6 m length
<b>LM3A-15</b>	0.9-1.2 mm, 4.6 m length

#### Diffusers

<b>D-M100</b>	MDX-100
<b>D-M250</b>	MDX-250
<b>D-MA250</b>	MDX-250 AccuLock S conversion

#### MDX-100 Nozzles (mm)

<b>NS-M1200B</b>	12.7 ID, flush, brass
<b>NS-M1200C</b>	12.7 ID, flush, copper

#### MDX-250 Nozzles (mm)

##### AccuLock MDX

<b>N-M1200C</b>	12.7 ID, flush, copper
<b>N-M1218C</b>	12.7 ID, 3.2 rec., copper
<b>N-M5800C</b>	15.9 ID, flush, copper
<b>N-M5818C</b>	15.9 ID, 3.2 rec., copper
<b>N-M58XTC</b>	15.9 ID, 3.2 ext., copper

##### AccuLock S

<b>N-A5800C</b>	15.9 ID, flush, copper
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#### Contact Tips

##### AccuLock MDX

<b>T-M023</b>	0.6 mm (.023 in.)
<b>T-M030</b>	0.8 mm (.030 in.)
<b>T-M035</b>	0.9 mm (.035 in.)
<b>T-M045</b>	1.2 mm (.045 in.)

##### AccuLock S

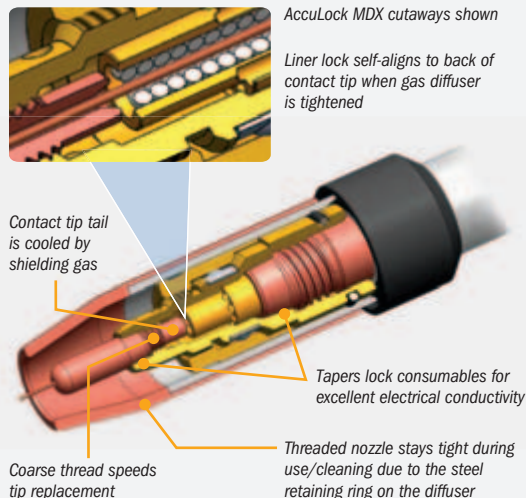
<b>T-A030CH</b>	0.8 mm (.030 in.)
<b>T-A035CH</b>	0.9 mm (.035 in.)
<b>T-A045CH</b>	1.2 mm (.045 in.)

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

Model	Stock Number	Cable Length	Rated Output	Rated Duty Cycle	Standard Wire Size	Standard Consumables
<b>MDX-100</b>	<b>(1770028)</b>	3 m (10 ft.)	100 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.8-0.9 mm (.030-.035 in.)	AccuLock MDX Series
<b>MDX-250</b>	<b>(1770035)</b>	3 m (10 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.8-0.9 mm (.030-.035 in.)	AccuLock MDX Series
	<b>(1770036)</b>	3.7 m (12 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.8-0.9 mm (.030-.035 in.)	AccuLock MDX Series
	<b>(1770037)</b>	4.6 m (15 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.8-0.9 mm (.030-.035 in.)	AccuLock MDX Series
	<b>(1770038)</b>	4.6 m (15 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.9-1.2 mm (.035-.045 in.)	AccuLock MDX Series
	<b>(1770041)</b>	3 m (10 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.9-1.2 mm (.035-.045 in.)	AccuLock S Series
	<b>(1770042)</b>	3.7 m (12 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.9-1.2 mm (.035-.045 in.)	AccuLock S Series
	<b>(1770043)</b>	4.6 m (15 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.9-1.2 mm (.035-.045 in.)	AccuLock S Series
<b>MDX-250 EZ-Select</b>	<b>(1770046)</b>	4.6 m (15 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.9-1.2 mm (.035-.045 in.)	AccuLock S Series
	<b>(1770047)</b>	4.6 m (15 ft.)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	0.8-0.9 mm (.030-.035 in.)	AccuLock MDX Series

# NEW! AccuLock™ MDX™ Consumables

See literature AY/15.5



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

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

**Maximize electrical conductivity and tip life.**

Tapered mating surface between the contact tip and gas diffuser locks tips in place for optimal performance.

**Upgrade to Bernard AccuLock S consumables** for increased durability and longer life when guns are used in more industrial applications.





# Bernard™ Semi-Automatic Guns

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

## BTB Air-Cooled MIG Guns See Bernard literature SP-BTB

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



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

All guns in chart come with a Miller® power pin and a Universal Conventional liner except:  
\*Comes with a Miller power pin and a QUICK LOAD® liner AutoLength™ system.

Stock Number	Amperage	Cable Length	Handle	Trigger	Neck	Consumables	Wire Size
Q3015AE8XMC	300	4.5 m (15 ft.) industrial	B Series small curved	Standard	Rotatable med. 45°	Centerfire™ (flush)	1.2 mm (.045 in.)
Q3015AE8EMC	300	4.5 m (15 ft.) industrial	B Series small curved	Standard	Rotatable med. 45°	Centerfire™	1.2 mm (.045 in.)
Q3015TE5EMC	300	4.5 m (15 ft.) industrial	O Series small curved	Standard	Rotatable med. 45°	Quik Tip™	1.2 mm (.045 in.)
Q3015AE8HMC	300	4.5 m (15 ft.) industrial	B Series small curved	Standard	Rotatable med. 45°	Centerfire™	1.3 mm (.052 in.)
Q4015AE8EMC	400	4.5 m (15 ft.) industrial	B Series large curved	Standard	Rotatable med. 45°	Centerfire™	1.2 mm (.045 in.)
Q4015TE5EMC	400	4.5 m (15 ft.) industrial	O Series small curved	Standard	Rotatable med. 45°	Quik Tip™	1.2 mm (.045 in.)
Q4015VS3EML*	400	4.5 m (15 ft.) industrial	C Series straight	Standard	Fixed med. 60°	TOUGH LOCK®	1.2 mm (.045 in.)
Q4015MS3EMC	400	4.5 m (15 ft.) industrial	T Series large straight	Standard	Fixed med. 60°	TOUGH LOCK®	1.2 mm (.045 in.)
Q4015AE8HMC	400	4.5 m (15 ft.) industrial	B Series large curved	Standard	Rotatable med. 45°	Centerfire™	1.3 mm (.052 in.)
Q4020MF8HMC	400	6 m (20 ft.) industrial	T Series large straight	Standard	Rotatable med. 60°	Centerfire™	1.3 mm (.052 in.)
Q4015AE8IMC	400	4.5 m (15 ft.) industrial	B Series large curved	Standard	Rotatable med. 45°	Centerfire™	1.6 mm (1/16 in.)
Q4025MF8IMC	400	7.6 m (25 ft.) industrial	T Series large straight	Standard	Rotatable med. 60°	Centerfire™	1.6 mm (1/16 in.)
S4025MF8IMC	400	7.6 m (25 ft.) steel monocoil	T Series large straight	Standard	Rotatable med. 60°	Centerfire™	1.6 mm (1/16 in.)
Q4015MS3IMC	400	4.5 m (15 ft.) industrial	T Series large straight	Standard	Fixed med. 60°	TOUGH LOCK®	1.6 mm (1/16 in.)
Q4015NS3IMC	400	4.5 m (15 ft.) industrial	T Series large straight	Locking	Fixed med. 60°	TOUGH LOCK®	1.6 mm (1/16 in.)

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



### Load and lock for flawless wire feeding

- Shorten your troubleshooting list by eliminating liner misalignment and gaps
- Error-proof your liner installation — no measuring required!

### Reduce parts, increase accuracy

- Use AccuLock S consumables on both your Bernard BTB and Miller® MDX-250 MIG guns to simplify inventory and reduce replacement errors

## Heavy industrial ●

### Processes

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

### Duty cycle ratings

- 100% with CO<sub>2</sub>
- 60% with mixed gases

### Suggested feeders

- Continuum™ Feeder
- SuitCase® Series
- 20 and 70 Series Feeders

### Suggested power source

- Millermatic® 350P

## Most popular consumables

### Centerfire Consumables

#### Diffusers (amps)

**DS-1** 200, 300, small

**D-1** 400, 500, 600, large

#### Brass Nozzles (mm)

**NS-1218B** 12.7 ID, 3.2 rec., small

#### Copper Nozzles (mm)

**NS-5818C** 15.9 ID, 3.2 rec., small

**N-5818C** 15.9 ID, 3.2 rec., large

**N-5814C** 15.9 ID, 6.4 rec., large

**N-3414C** 19 ID, 6.4 rec., large

#### Contact Tips

**T-035** 0.9 mm (.035 in.)

**T-045** 1.2 mm (.045 in.)

**T-052** 1.4 mm (.052 in.)

**T-062** 1.6 mm (1/16 in.)

### Quik Tip Consumables

#### Diffusers (amps)

**D118Q** 200, 300, 400

**D114Q** 500, 600

#### Plated Copper Nozzles (mm)

**N1C58Q** 15.9 ID

**N1C34HQ** 19 ID, HD

#### Contact Tips

**T1035** 0.9 mm (.035 in.)

**T1045** 1.2 mm (.045 in.)

### TOUGH LOCK Consumables

#### Diffusers (amps)

**404-18-25** 200, 300, 400 SD

**404-26-25** 300, 400, 500, 600 HD

#### Copper Nozzles (mm)

**401-4-62** 15.9 ID, 3.2 Rec., SD

**401-6-62** 15.9 ID, 3.2 Rec., HD

**401-5-62** 15.9 ID, 6.4 Rec., HD

**401-5-75** 19 ID, 3.2 rec., HD

#### Contact Tips

**403-14-35-25** 0.9 mm (.035 in.) SD

**403-20-35-25** 0.9 mm (.035 in.) HD

**403-14-45-25** 1.2 mm (.045 in.) SD

**403-20-45-25** 1.2 mm (.045 in.) HD

**403-20-52-25** 1.4 mm (.052 in.) HD

**403-20-116-25** 1.6 mm (1/16 in.) HD

Visit [BernardWelds.com](http://BernardWelds.com) or your distributor for additional Bernard consumable options.



For more detailed information, visit **BernardWelds.com**



# Bernard® Semi-Automatic Guns

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



Straight handle  
(shown with optional  
short nozzle shroud)

Curved handle

## Fume Extraction MIG Guns

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

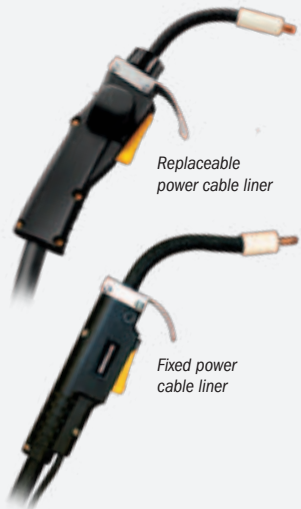
**Maintaining a clean working environment is important and Bernard understands the need for a reliable fume extraction solution. Extract fumes at the weld bead using either of our two models and a FILTAIR® fume extractor.**

### Clean Air™ straight handle gun

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

### Clean Air™ curved handle gun

- Available in 300- and 400-amp models
- Compatible with Centerfire and Quik Tip consumables
- Small lightweight handle maximizes maneuverability and comfort



Replaceable  
power cable liner

Fixed power  
cable liner

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

See Bernard literature SP-DF

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

### Dura-Flux gun with replaceable power cable liner

- Replaceable power cable liner allows quick and easy power cable maintenance
- Quik Tip consumables provide excellent heat transfer and electrical conductivity

### Dura-Flux gun with fixed power cable liner

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

## Bernard® Welding Consumables (cutaways shown)



### Centerfire™ Consumables

See Bernard literature SP-CFC

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



### Quik Tip™ Consumables

See Bernard literature SP-QTC

- A quick twist is all it takes to install contact tips
- Threaded taper lock increases tip life and allows excellent heat transfer and electrical conductivity
- Fixed contact tip position for repeatability and consistent quality welds



### TOUGH LOCK® Consumables

See Bernard literature SP-TLC

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

## Heavy industrial ●

### Processes

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

### Duty cycle ratings

- 100% with CO<sub>2</sub>
- 60% with mixed gases

### Suggested feeders

- Continuum™ Feeder
- SuitCase® Series
- 20 and 70 Series Feeders

### Suggested power source

- Millematic® 350P

### Suggested fume extractor

- FILTAIR® 130

## Most popular consumables

### Centerfire Consumables

#### Diffusers (amps)

**DS-1** 200, 300, small

**D-1** 400, 500, 600, large

#### Brass Nozzles (mm)

**NS-1218B** 12.7 ID, 3.2 rec., small

#### Copper Nozzles (mm)

**NS-5818C** 15.9 ID, 3.2 rec., small

**N-5818C** 15.9 ID, 3.2 rec., large

**N-5814C** 15.9 ID, 6.4 rec., large

**N-3414C** 19 ID, 6.4 rec., large

#### Contact Tips

**T-035** 0.9 mm (.035 in.)

**T-045** 1.2 mm (.045 in.)

**T-052** 1.4 mm (.052 in.)

**T-062** 1.6 mm (1/16 in.)

### Quik Tip Consumables

#### Diffusers (amps)

**D118Q** 200, 300, 400

**D114Q** 500, 600

#### Plated Copper Nozzles (mm)

**N1C58Q** 15.9 ID

**N1C34HQ** 19 ID, HD

#### Contact Tips

**T1035** 0.9 mm (.035 in.)

**T1045** 1.2 mm (.045 in.)

### TOUGH LOCK Consumables

#### Diffusers (amps)

**404-18-25** 200, 300, 400 SD

**404-26-25** 300, 400, 500, 600 HD

#### Copper Nozzles (mm)

**401-4-62** 15.9 ID, 3.2 Rec., SD

**401-6-62** 15.9 ID, 3.2 Rec., HD

**401-5-62** 15.9 ID, 6.4 Rec., HD

**401-5-75** 19 ID, 3.2 rec., HD

#### Contact Tips

**403-14-35-25** 0.9 mm (.035 in.) SD

**403-20-35-25** 0.9 mm (.035 in.) HD

**403-14-45-25** 1.2 mm (.045 in.) SD

**403-20-45-25** 1.2 mm (.045 in.) HD

**403-20-52-25** 1.4 mm (.052 in.) HD

**403-20-116-25** 1.6 mm (1/16 in.) HD

Visit [BernardWelds.com](http://BernardWelds.com) or your distributor for additional Bernard consumable options.



For more detailed information, visit [BernardWelds.com](http://BernardWelds.com)



# Spoolmate™ Spool Guns

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



Spoolmate 100

Spoolmate 100 includes carrying case that holds gun and cable, extra contact tips, nozzle and wire (wire sold separately).



Spoolmate 150

**PORTABLE!**



Spoolmate 200



Spoolmate 3035

## Spoolmate 100 See literature M/1.45

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

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

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

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

## Spoolmate 150 See literature M/1.46

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

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

**Heavy-duty head tube.**

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

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

## Spoolmate 200 See literature M/1.47

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

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

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

**Easy access to drive assembly and drive rolls.**

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

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

## Spoolmate 3035 See literature M/1.5

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

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

**Light weight and well balanced** for operator comfort.

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

**Easy-to-remove head tube assembly.**

**Light industrial** ● **CV DC**

Use with CV, DC power sources.

### Processes

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

### Suggested power sources

#### For Spoolmate 100

- Millermatic® 141
- Millermatic® 190
- Millermatic® 211
- Multimatic™ 20
- Multimatic™ 215
- Syncrowave® 210 — requires MIG accessory kit (301254)

#### For Spoolmate 150

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

#### For Spoolmate 200

- Millermatic® 212 Auto-Set™
- Millermatic® 252

#### For Spoolmate 3035

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

### Most popular accessories

#### For Spoolmate 200

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

#### For Spoolmatic 3035

- SGA 100 043856
- SGA 100C 043857
- Heavy-Duty Head Tube 195375

Model/ Stock Number	Welding Current Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight with Cable Assembly
<b>Spoolmate 100</b> (300371)	135 A at 30% duty cycle	1.7–15.9 m/min. (5–625 ipm) Wire speed dependent on power source used	<b>Aluminum</b> 0.8–0.9 mm (.030–.035 in.) <b>Solid steel</b> 0.6–0.9 mm (.023–.035 in.) <b>Stainless</b> 0.6–0.9 mm (.023–.035 in.)	102 mm (4 in.)	H: 291 mm (11.5 in.) W: 76 mm (3 in.) L: 330 mm (13 in.)	2.7 kg (6 lb.) 4.1 kg (9 lb.) with case
<b>Spoolmate 150</b> (301272)	150 A at 60% duty cycle	2.9–18.1 m/min. (115–715 ipm) Wire speed dependent on power source used	<b>Aluminum</b> 0.8–0.9 mm (.030–.035 in.) <b>Solid steel</b> 0.8–0.9 mm (.030–.035 in.) <b>Stainless</b> 0.8–0.9 mm (.030–.035 in.)	102 mm (4 in.)	H: 291 mm (11.5 in.) W: 76 mm (3 in.) L: 318 mm (12.5 in.)	3.2 kg (7.3 lb.)
<b>Spoolmate 200</b> (300497)	160 A at 60% duty cycle	1.8–22.2 m/min. (70–875 ipm)	<b>Aluminum</b> 0.8–0.9 mm (.030–.035 in.) <b>Solid steel</b> 0.6–0.9 mm (.023–.035 in.) <b>Stainless</b> 0.6–0.9 mm (.023–.035 in.)	102 mm (4 in.)	H: 229 mm (9 in.) W: 64 mm (2.5 in.) L: 368 mm (14.5 in.)	5 kg (11 lb.)
<b>Spoolmate 3035</b> (195016)	150 A at 60% duty cycle, 200 A at 60% duty cycle with optional heavy-duty head tube	2.9–18.1 m/min. (115–715 ipm)	<b>Aluminum</b> 0.8–0.9 mm (.030–.035 in.) <b>Solid steel</b> 0.6–0.9 mm (.023–.035 in.) <b>Stainless</b> 0.6–0.9 mm (.023–.035 in.)	102 mm (4 in.)	H: 291 mm (11.5 in.) W: 57 mm (2.25 in.) L: 203 mm (8 in.)	4.1 kg (9.1 lb.)



# Spoolmatic® Spool Guns

Portable, aluminum wire feeder for industrial applications.



Spoolmatic

**PORTABLE!**



Spoolmatic Pro

## Spoolmatic See literature M/1.73

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

**Available in 4.6 or 9 m (15 or 30 ft.) cable lengths**, providing flexibility to be used in the shop and in the field.

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

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

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

## Spoolmatic Pro (additional features) See literature M/1.76

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

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

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

**Easy-to-rotate, self-seating head tube** allows for better access into tight spots, preventing leaks and providing excellent current transfer. Head tubes are common with the XR-Aluma-Pro™ and XR™-Pistol-Pro guns.

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

**Industrial** 

Use with CC/CV, DC power sources.

### Processes

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

### Suggested power sources

- Millermatic® 212 Auto-Set™
- Millermatic® 252
- Millermatic® 350P/350P Aluminum – except Spoolmatic Pro
- Shopmate™ 300 DX
- Bobcat™ Series – requires WC-115A with contactor (137546011)

These power sources require WC-24 control (137549)

- AlumaPower™ MPa
- CP-302
- Deltaweld® Series
- Invision™ MPa
- Dimension™ Series
- XMT® Series
- Trailblazer® Series

### Most popular accessories

- WC-115A 137546
- WC-115A with contactor 137546011
- WC-24 137549

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

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



**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

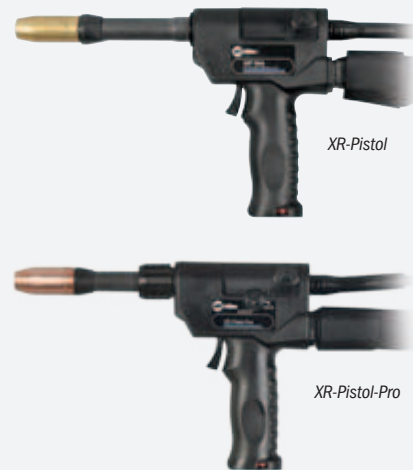
**Download the Filler Metal Selector and Calculator app today.**

# 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.



**PORTABLE!**



**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.

**Industrial** ● XR-Aluma-Pro Lite  
**Heavy industrial** ● XR-Aluma-Pro and all Pistol models

**CC CV** Use with CC/CV, DC power sources.  
**DC**

### Processes

- MIG (GMAW) with aluminum wire (capable of other wires with optional hardwire kits)
- Pulsed MIG (GMAW-P) with optional pulsing power source

### Suggested feeders/controls

- XR-AlumaFeed® 300509, **CE**
- XR™-S Control 300601, **CE**

### Suggested power sources

- Millermatic® 252
- Millermatic® 350P/350P Aluminum

*These power sources require*

*XR-AlumaFeed or XR Control*

- Deltaweld® Series
- Invision™ MPA
- XMT® Series
- Trailblazer® Series

### Most popular accessories

- Hardwire Liner Kit 198377

\*Dependent on control box or Millermatic used. \*\*Requires wire kit (230708) to run 1.6 mm (1/16 in.) wire.

Model	Cable Length				Welding Current Rating	Wire Feed Speed*	Wire Type and Diameter Capacity	Dimensions	Gun Only Net Weight
	4.6 m (15 ft.)	7.6 m (25 ft.)	9 m (30 ft.)	10.6 m (35 ft.)					
XR-Aluma-Pro Lite (Air-cooled)	—	(300948)	—	—	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.) W: 48 mm (1.9 in.) L: 381 mm (15 in.)	0.9 kg (2.0 lb.)
XR-Aluma-Pro (Air-cooled)	(300000)	(300001)	—	(300264)	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.) W: 64 mm (2.5 in.) L: 432 mm (17 in.)	1.1 kg (2.5 lb.)
XR-Aluma-Pro (Water-cooled)	(300003), CE	(300004), CE	—	(300265), CE	400 A at 100% duty cycle				1.3 kg (2.9 lb.)
XR-Pistol (Air-cooled)	(198127), CE	—	(198128), 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.) W: 48 mm (1.875 in.) L: 270 mm (10.625 in.)	1 kg (2.2 lb.)
XR-Pistol (Water-cooled)	(198129), CE	—	(198130), CE	—	400 A at 100% duty cycle				1.1 kg (2.4 lb.)
XR-Pistol-Pro (Air-cooled)	(300782)	(300783)	—	(300784)	200 A at 100% duty cycle	1.8–23 m/min. (70–900 ipm)	Aluminum** 0.8–1.6 mm (.030–1/16 in.)		1 kg (2.2 lb.)
XR-Pistol-Pro (Water-cooled)	(300786)	(300787)	—	(300788)	400 A at 100% duty cycle				1.1 kg (2.4 lb.)

## XR™ Control

See literature M/1.7

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



XR-S

XR-D

**PORTABLE!**

**Includes** both 0.9 mm (.035 in.) and factory-installed 1.2 mm (3/64 in.) drive rolls. Order 1.6 mm (1/16 in.) control box drive roll kit (195591) separately.

### XR-S

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

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

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

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

**Adjustable wire run-in control** allows arc start fine tuning. Reduces wire stubbing or arc flaring which can result in contact tip burnback.

### XR-D (additional features)

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

**Heavy industrial** 

Use with CC/CV, DC power sources.

**Processes**

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

**Suggested guns**

- Push-pull guns

**Suggested power sources**

- Deltaweld® Series
- Invision™ MPa
- XMT® Series
- Trailblazer® Series

**Most popular accessories**

- Extension Cables
- PSA-2 Control
- Gas Flowmeter Kit 246127

Model/Stock Number	Input Power	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
XR-S (300601), CE XR-AlumaFeed (300509), CE	24 VAC, 50/60 or 100 Hz	1.3-23 m/min. (50-900 ipm)	<b>Aluminum</b> 0.8-1.6 mm (.030-1/16 in.) Requires drive roll kit (195591) to run 1.6 mm (1/16 in.) wire	305 mm (12 in.)	H: 406 mm (16 in.) W: 235 mm (9.25 in.) D: 540 mm (21.25 in.)	19.2 kg (42.5 lb.)

## Feeding aluminum – choose the right gun solution

**Push-only Guns****UPGRADE****Spool Guns****UPGRADE****Push-pull Guns**

**Known as standard MIG guns, these guns are only used for occasional aluminum work.**

- Typically used with hard wire or flux-cored wires in general manufacturing
- For aluminum, guns should be limited to 3.7 m (12 ft.) lengths and configured with correct aluminum liner and consumables



**Integrated wire spools and better aluminum wire feedability make spool guns great for repair and small jobs.**

- Low initial cost versus push-pull guns
- Work with many power sources
- Light and simple to use
- Limited deposition because of wire spool size



**Preferred guns for industrial production work with the best overall aluminum wire feedability.**

- Built for longevity
- Great arc starts and performance
- Higher amp ratings
- Air- and water-cooled models
- Work in conjunction with designated wire feeders

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



## Multimatic™ 200

See literature DC/12.57



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.

### Welding Capability

Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)
MIG Mild Steel	MIG Aluminum	Max. 4.8 mm (3/16 in.) TIG Mild Steel	Stick Mild Steel
Min. 0.6 mm (24 ga.)	Min. 1.2 mm (18 ga.)	Min. 0.6 mm (24 ga.)	Min. 1.5 mm (16 ga.)

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

**Weighing only 13 kg (29 lb.)**, this lightweight MIG, stick and TIG welder provides portability on the job.

**Impact-resistant case** provides strength and durability while protecting the internal components and welding wire.

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

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

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

## Multimatic™ 215

See literature DC/12.59



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.

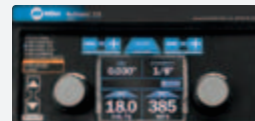
### Welding Capability

Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)
MIG Mild Steel	MIG Aluminum	Max. 4.8 mm (3/16 in.) TIG Mild Steel	Stick Mild Steel
Min. 0.6 mm (24 ga.)	Min. 1.2 mm (18 ga.)	Min. 0.6 mm (24 ga.)	Min. 1.5 mm (16 ga.)

Aluminum welding uses optional Spoolmate 100 and 4000 series aluminum wire or Spoolmate 150 and either 4000 or 5000 series aluminum wire. TIG welding uses optional TIG contractor kit.

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

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



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

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

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

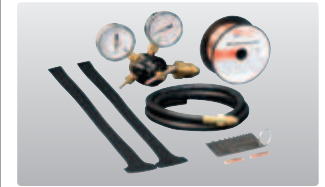
Light industrial ● CC CV DC 1 Phase

### Processes

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

### Comes complete with

- 3 m (10 ft.) Bernard™ Q150 MIG gun and cable assembly (Multimatic 200) **OR** 3 m (10 ft.) M-100 MIG gun and cable assembly (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



- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> mix, extra contact tips, information/settings chart and material thickness gauge (229895) — Hobart® spool of 0.8 mm (.030 in.) solid wire and hook-and-loop cord wraps as seen in photo above are included with Multimatic 215 model only

### Most popular accessories

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

Model/ Stock Number	Welding Mode/Process	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Max. Open- Circuit Voltage	Dimensions	Net Weight
				120 V	230 V/240 V	KVA	KW					
Multimatic 200 (907518)	CV: MIG/ flux-cored	120 V	30-140	90 A at 18.5 V, 60% duty cycle	18.0	—	2.2	2.0	1.8-10.8 m/min. (70-425 ipm)	90 VDC	H: 368 mm (14.5 in.) W: 248 mm (9.75 in.) D: 432 mm (17 in.)	13.2 kg (29 lb.)
				110 A at 19.5 V, 20% duty cycle	20.0	—	2.7	2.6				
	230 V	30-200	150 A at 21.5 V, 20% duty cycle	—	17.5	4.0	3.8	—	90 VDC (22-25 VDC, sense voltage for stick and Lift-Arc™ TIG)			
			120 V	5-150	150 A at 16 V, 30% duty cycle	27.0	—			3.3		
	230 V	5-150	150 A at 16 V, 30% duty cycle	—	13.8	3.2	3.0					
			120 V	20-150	100 A at 24 V, 35% duty cycle	24.0	—			2.9		
CC: Stick	230 V	20-150	150 A at 26 V, 30% duty cycle	—	20.8	4.8	4.5					
			Multimatic 215 (907693)	CV: MIG/ flux-cored	120 V	30-125	110 A at 19.5 V, 60% duty cycle			23.0	—	2.8
240 V	30-230	200 A at 24 V, 20% duty cycle	—				25.8	6.2	6.2			
		150 A at 21.5 V, 40% duty cycle	—	16.7	4.0	4.0						
CC: TIG	120 V		20-150	140 A at 15.6 V, 40% duty cycle	24.6	—	3.0	3.0	—	58 VDC		
		240 V		20-210	190 A at 17.6 V, 20% duty cycle	—	18.0	6.7			6.7	
CC: Stick	120 V	30-100	90 A at 23.6 V, 40% duty cycle	22.7	—	2.7	2.7	—				
			240 V	30-200	190 A at 27.6 V, 20% duty cycle	—	27.0			6.5	6.5	

**NEW!**

## Multimatic® 220 AC/DC

See literature DC/12.65

Light Industrial 

### Processes

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

### Comes complete with

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

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



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.



With **NEW!** MDX Series MIG gun.

### Welding Capability

Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)
MIG Mild Steel	MIG Aluminum
Min. 0.6 mm (24 ga.)	Min. 1.2 mm (18 ga.)
Max. 6.4 mm (1/4 in.)	Max. 6.4 mm (1/4 in.)
TIG Mild Steel	TIG Aluminum
Min. 0.6 mm (24 ga.)	Min. 0.6 mm (24 ga.)
Max. 9.5 mm (3/8 in.)	
Stick Mild Steel	
Min. 1.5 mm (16 ga.)	

MIG aluminum welding uses optional Spoolmate 100 and 4000 series aluminum wire **OR** Spoolmate 150 and either 4000 or 5000 series aluminum wire.

**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.

Stock Number (907757)	Welding Mode/Process	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Max. Open-Circuit Voltage	Dimensions	Net Weight
					120 V	240 V	KVA	KW				
	CV: MIG/flux-cored	120 V	30-125 A	105 A at 19.2 V, 60% duty cycle	23.3	—	2.8	2.8	1.5-15.2 m/min. (60-600 ipm)	45 VDC	H: 445 mm (17.5 in.) W: 286 mm (11.25 in.) D: 546 mm (21.5 in.)	25.3 kg (56 lb.)
		240 V	30-230 A	200 A at 24 V, 20% duty cycle	—	27.2	4.8	4.8				
				170 A at 21.5 V, 40% duty cycle	—	21.5	3.8	3.8				
	CC: TIG	120 V	20-140 A	130 A at 15.2 V, 40% duty cycle	24.0	—	2.9	2.9	—	46 VDC		
		240 V	20-210 A	210 A at 18.4 V, 20% duty cycle	—	22.4	5.4	5.4				
	CC: Stick	120 V	30-90 A	90 A at 23.6 V, 40% duty cycle	24.5	—	2.9	2.9				
		240 V	30-200 A	200 A at 28.4 V, 15% duty cycle	—	31.3	7.5	7.5				

**NEW!**

# Multimatic® 255

See literature DC/12.9



Multimatic 255 with running gear



## Welding Capability

Max. 13 mm (1/2 in.)	Max. 13 mm (1/2 in.)
<b>Mild Steel</b>	<b>Aluminum</b>
Min. 0.8 mm (22 ga.)	Min. 1.2 mm (18 ga.)
Max. 9.5 mm (3/8 in.)	Max. 7.9 mm (5/16 in.)
<b>TIG Mild Steel</b>	<b>Stick Mild Steel</b>
Min. 0.6 mm (24 ga.)	Min. 1.5 mm (16 ga.)

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

With **NEW!** MDX Series MIG 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 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-LINE TECHNOLOGY** Allows for any input voltage hookup (208–575 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, pulsed MIG, stick and DC TIG processes with the ability to fine-tune your settings
- Set weld parameters by:  
MIG – selecting wire and gas type, wire diameter and material thickness  
Stick – selecting electrode type, electrode diameter and material thickness  
DC Lift-Arc™ TIG – selecting remote on/off, tungsten diameter and material thickness

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

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

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

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

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

Industrial ● CC CV DC 1 Phase

## Processes

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

## Multimatic 255 comes complete with

- 4.5 m (15 ft.) 250-amp MDX™-250 MIG gun with Bernard® AccuLock™ S consumables
- 3 m (10 ft.) cable with electrode holder
- 3 m (10 ft.) work cable with clamp
- 3 m (10 ft.) industrial power cord
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO<sub>2</sub> 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
- Protective Cover 301521
- Multimatic 255 TIG Kit 301518
- 10-Pin to 14-Pin Adapter Cord 273873

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

Stock Number (907728) 208–575 V	Welding Mode/Process	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz 208 V 240 V 460 V 575 V KVA KW	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	1.3–20 m/min. (50–800 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	–			



## MPi 220P

See literature DCM/9.5 UK

Must be purchased  
from ITW Italy



Includes work clamp.

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

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

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

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

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

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

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

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

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

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

Industrial ● CC CV DC 1 Phase

### Processes

- MIG (GMAW) ▪ Pulsed MIG (GMAW-P)
- Flux-cored (FCAW) ▪ Stick (SMAW)
- TIG (GTAW)

### Most popular accessories

- TIG Torch WTC9AA4AG  
125 amps DC/100 amps AC,  
60% duty cycle
- TIG Torch CS130AGA4CG-I  
130 amps DC/100 amps AC,  
60% duty cycle
- MIG/MAG Torch Q2010A08DE  
200-amp Q-Gun with 3 m (10 ft.)  
cable

Stock Number	Welding Mode	Amperage/Voltage Range DC	Rated Output	IP Rating	Max. Open-Circuit Voltage	Dimensions	Net Weight
(059016014) 230 V, 50/60 Hz, CE	MIG	2-200 A, 15-24 V	180 A at 23.0 VDC, 35% duty cycle 140 A at 21.0 VDC, 60% duty cycle 110 A at 17.5 VDC, 100% duty cycle	IP22S	35	H: 365 mm (14.4 in.) W: 237 mm (9.3 in.) D: 548 mm (21.6 in.)	16 kg (35 lb.)
	Stick	5-200 A, 20.2-28 V	170 A at 26.8 VDC, 35% duty cycle 130 A at 25.2 VDC, 60% duty cycle 100 A at 24.0 VDC, 100% duty cycle		65		
	TIG	5-200 A, 10-18 V	180 A at 17.2 VDC, 35% duty cycle 130 A at 15.2 VDC, 60% duty cycle 100 A at 14.0 VDC, 100% duty cycle		65		

Miller recommends



### Robust. Resilient. Repeatable.

The robotic MIG welding guns and peripherals that **you** can rely on.

Tregaskiss understands that automated welding applications require reliable products that maximize production uptime and throughput. This is why industrial manufacturers repeatedly turn to Tregaskiss and its proven track record in providing resilient, easy to maintain, robotic MIG welding guns, consumables and peripherals.

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



## Dynasty® 280 DX with CV

See literature AD/4.95

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



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

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

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

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

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

**Fan-On-Demand™** cooling system operates only when needed. Reduces contaminants drawn into the machine and excess noise in work areas.

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

**Industrial** ● **CC CV** **AC** **3 1** **DC Phase Phase**

### Processes

- 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
- Quick reference guide

### Most popular accessories

- ArcReach® SuitCase® Feeders  
8 301457 / 12 301456 / 12RC 301121
- Small Runner™ Cart 301318
- Coolmate™ 1.3 300972
- Contractor Kits A-150:  
301311 w/RCCS-14 finger control  
301309 w/RFCs-14 HD foot control  
A-200:  
301550 w/RCCS-14 finger control  
301549 w/RFCs-14 HD foot control
- Weldcraft™ Water-Cooled Torch Kits  
300185 W-250 (WP-20)  
300990 W-280 (WP-280)  
301268 W-375
- Remote Controls

Stock Number (907514007) Power source only (907514008) Power source only, CE	Welding Process	Input Power	Welding Output Range	Rated Output at 60% Duty Cycle	Amps Input at Rated Load Output, 50/60 Hz	Max. Open-Circuit Voltage	Dimensions	Net Weight
	TIG	3-phase	1-280 (DC)	250 A at 20 V	21 19 11 9 7 7.6 7.3	60 VDC (11 VDC)	H: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 569 mm (22.5 in.)	25 kg (55 lb.)
		1-phase	2-280 (AC)	250 A at 20 V	35 32 18 16 13 7.3 7.1			
	Stick	3-phase	5-280 A	250 A at 30 V	— — 14 13 10 9.9 9.6			
		1-phase		180 A at 27.2 V	32 21 — — — 6.7 6.5			
	MIG (GMAW)/ Flux-Cored (FCAW)	3-phase	14-28 V	250 A at 26.5 V	— — 13 11 9 9.2 8.9			
		1-phase		200 A at 24 V	31 29 — — — 6.5 6.3			

## Dimension™ Series

See literature DC/19.2

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



Dimension Stationary

### All models feature:

- **DC multiprocess** versatility with excellent arc performance.
- **Digital meters** for presetting or monitoring voltage or amperage (Dimension Series allows preset voltage only).
- **Line voltage compensation** for input voltage variations.
- **Power efficiency** for exceptional return on your investment.
- **15-amp, 115-VAC duplex receptacle** for auxiliary tools.
- **Hot Start™** makes it easier to start difficult stick electrodes.
- **Arc control** for added flexibility in tight stick locations.

**Heavy Industrial** ● **CC CV** **DC** **3** **Phase**

### Processes

- MIG (GMAW) • Flux-cored (FCAW)
- Stick (SMAW) • TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A)  
(Dimension 452: 7.5 mm [5/16 in.] carbons)  
(Dimension 652: 9.5 mm [3/8 in.] carbons)

### Most popular accessories

- SuitCase® Feeders
- 70 Series Feeders
- Standard Running Gear 042886
- Standard Cylinder Rack 042887
- Industrial MIG 4/0 Kit 300390  
Includes Smith® regulator/flowmeter with 3 m (10 ft.) gas hose, 3 m (10 ft.) 4/0 feeder weld cable with lugs, and 4.6 m (15 ft.) work cable with 600-amp C-clamp.
- Extension Cables
- Bernard™ and Tregaskiss™ MIG Guns

Model	Stock Number	Welding Mode	Amperage/Voltage Range	Rated Output	Max. Open-Circuit Voltage	Net Weight (power source only)
Dimension 452/562	452 (903255) 230/460/575 V, Machine only 562 (907360) 380/400/440 V, 50/60 Hz, CE	CC	20-565 A	450 A at 38 VDC, 100% duty cycle	65 VDC	192 kg (424 lb.)
		CV	10-38 V		43 VDC	
Dimension 652/812	652 (903379) 230/460/575 V, Machine only 812 (907361) 380/400/440 V, 50/60 Hz, CE	CC	50-815 A	650 A at 44 VDC, 100% duty cycle	72 VDC	247 kg (545 lb.)
		CV	10-65 V		67 VDC	

## Dimension™ 650 and 650 ArcReach®

See literature DC/19.3

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



Dimension 650 ArcReach power source shown with ArcReach SuitCase 12 feeder and ArcReach Stick/TIG Remote (all sold separately).

### ArcReach®

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

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

**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.

Heavy industrial CC CV DC 3 Phase

### 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



4-pack rack shown.

#### ▪ Dimension 650 Rack

- 907687 2-pack rack
- 907688 4-pack rack
- Rack comes assembled with two or four Dimension 650 power sources fused for 460 V.

#### ▪ Dimension 650 ArcReach Rack

- 907702 2-pack rack
- 907701 4-pack rack
- Rack comes assembled with two or four Dimension 650 ArcReach power sources fused for 460 V.

#### ▪ ArcReach® SuitCase® Feeders

- 8 301457
- 12 301456
- 12RC 301121

#### ▪ 70 Series Feeders

- ArcReach Stick/TIG Remote 301325

#### ▪ Bernard™ MIG Guns

- Running Gear Cylinder Rack 300408

#### ▪ Industrial MIG 4/0 Kit (with lug connectors) 300390

#### ▪ Extension Cables

- 242208025 7.6 m (25 ft.)
- 242208050 15 m (50 ft.)
- 242208080 24.4 m (80 ft.)

Model/Stock Number	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Output, 50/60 Hz	Max. Open- Circuit Voltage	Power Source Dimensions (Includes lift eye)	Power Source Net Weight
<b>Dimension 650</b> (907617) 380/460 V power source only (907618) 380/400 V, CE <b>Dimension 650 ArcReach</b> (907617001) 380/460 V power source only	CC mode: 10–815 A CV mode: 10–44 V SAW mode: 10–65 V	650 A at 44 VDC, 100% duty cycle	380 V 460 V KVA KW 53.2 42.8 34 30.7	87 VDC	H: 716 mm (28.187 in.) W: 424 mm (16.687 in.) D: 803 mm (31.625 in.)	158 lb. (71.7 kg)



## XMT® Series

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



### Input power choices

**AUTO-LINE** TECHNOLOGY (350/425 models) allows for any input voltage hookup (230–575 V, three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable input power.

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

### Advanced features for the professional welder

**Adaptive Hot Start**™ makes starting stick electrodes easy without creating an inclusion.

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

**Lift-Arc**™ provides arc starting that minimizes contamination of the electrode and without the use of high frequency.

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

### Reliability

**Wind Tunnel Technology**™ Air flow that protects internal components, greatly improving reliability.

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

### Welder friendly control panel

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

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

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

### Output connector choices

**Dinse-style weld disconnects** (350/425 models) provide high-quality weld cable connections. Machines come with two Dinse connectors.

**Weld studs** (450 models).

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

## Choose the Right XMT

	350 Amp			450 Amp	
	XMT 350 CC/CV	XMT 350 MPa	XMT 425 CC/CV	XMT 450 CC/CV	XMT 450 MPa
Input Power	3-phase		3-phase	3-phase	
Primary Operating Range	Auto-Line (230–575 V)		Auto-Line (230–575 V)	400 V	
Weld Output	350 A at 34 VDC (3-phase input power at 60% duty cycle)		425 A at 27 VDC (3-phase input power at 30% duty cycle)	UPGRADE	450 A at 38 VDC (3-phase input power at 100% duty cycle)
Carbon Arc Gouging	Rated: 6 mm		Rated: 6 mm	UPGRADE	Rated: 7.9 mm
Net Weight	36.3 kg (80 lb.)		36.3 kg (80 lb.)	55.3 kg (122 lb.)	
Output Connector	Dinse		Dinse	1/2 in. stud	
Pulsed MIG	—	UPGRADE Yes	—	UPGRADE Yes	—
14-pin Compliant	Yes		Yes	Yes	
Insight Core Capable (requires Insight Core 14-pin module)	Yes		Yes	Yes	

## XMT® 350 CC/CV, 425 CC/CV and 450 CC/CV

See literature DC/18.93 (350), EX/18 (425) and DC/18.94 (450)

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

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



## XMT® 350 MPa and 450 MPa

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

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

**Pulse programs** provide reduced heat affected zone, weld in all positions, great for thick-to-thin metal, good gap filling ability and faster travel speeds and deposition.

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

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

#### Synergic pulsed MIG.

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



**Profile Pulse™** provides TIG appearance with MIG simplicity and productivity.

Achieve “stacked dimes” without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.



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

\*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).

Model/Stock Number	Input Power	Amperage/Voltage Ranges	Rated Output	Amps Input at Rated Load Output							KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
<b>XMT 350 CC/CV</b> (Dinse) <b>(907161)</b> 208-575 V, 50/60 Hz <b>(907161011)</b> 208-575 V, w/auxiliary power*, 50/60 Hz <b>(907161012)</b> Auto-Line w/auxiliary power, 50/60 Hz, <b>CE</b> <b>XMT 350 MPa</b> (Dinse except where noted) <b>(907366)</b> 208-575 V, 50/60 Hz <b>(907366011)</b> 208-575 V, w/auxiliary power*, 50/60 Hz <b>(907366014)</b> 208-575 V, with Tweco®, 50/60 Hz <b>(907366002)</b> w/auxiliary power, 50/60 Hz, <b>CE</b>	3-phase	5-425 A 10-38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	20.6	17.8	14.1	14.2	13.6			75 VDC	H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)	36.3 kg (80 lb.)  43 kg (94.8 lb.) w/aux power
	1-phase	5-425 A 10-38 V	300 A at 32 VDC, 60% duty cycle	60.8	54.6	29.7	24.5	19.9	11.7	11.2					
<b>XMT 425 CC/CV</b> <b>(907386)</b> 230-575 V w/auxiliary power*, 50/60 Hz	3-phase		425 A at 27 VDC, 30% duty cycle	—	36.1	20.6	17.8	14.1	14.2	13.6			90 VDC	H: 438 mm (17.25 in.) W: 368 mm (14.5 in.) D: 689 mm (27.125 in.)	55.3 kg (122 lb.)
<b>XMT 450 CC/CV</b> <b>(907481)</b> 230/460 V, 60 Hz <b>(907525)</b> 400 V w/auxiliary power*, 50/60 Hz, <b>CE</b>	3-phase	15-600 A 10-38 V	450 A at 38 VDC, 100% duty cycle	—	51	—	27.6	24.4	22	18.9					
<b>XMT 450 MPa</b> <b>(907479)</b> 230/460 V, 60 Hz <b>(907468)</b> 400 V, w/auxiliary power, 50/60 Hz, <b>CE</b>				—	51	—	27.6	23.6	21.6	18.3					

## XMT® 350 FieldPro™ Systems

See literature DC/18.96



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.

**NEW!**

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

## 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](http://MillerWelds.com/arcreach)

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

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

### Exceptional arc performance

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

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

### Increased uptime

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

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

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

### Improved jobsite safety

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

### Maximum fleet compatibility

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

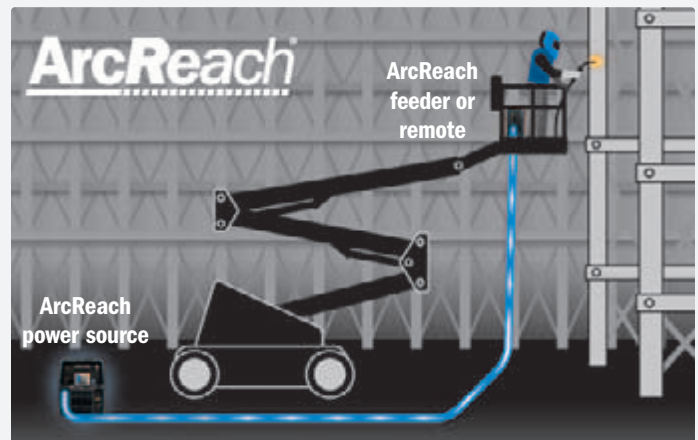
### More operator control

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

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

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

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





## XMT® 450 CC/CV ArcReach®

See literature DC/18.94



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

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

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

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

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

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

**Heavy industrial** ● **DC 3 1** **XMT 450**  
Phase Phase is 3-phase only.

### Processes

- MIG (GMAW) • Stick (SMAW)
- TIG (GTAW) • Flux-cored (FCAW)
- RMD\* • Pulsed MIG (GMAW-P)\*
- Air carbon arc cutting and gouging (CAC-A) (carbons – 304: 6.4 mm [1/4 in.], 350: 6.4 mm [1/4 in.], 450: 7.9 mm [5/16 in.])

\*XMT 350 FieldPro only with ArcReach Smart Feeder.

### Stick/TIG

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

### MIG/flux-cored

- XMT 350 FieldPro power source
- ArcReach SuitCase 12 feeder and Bernard® BTB Gun 300 A

### RMD/pulse

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

### Most popular accessories

- XR-AlumaFeed® 300509
- SuitCase® Feeders
- ArcReach® Smart Feeder (for XMT 350 FieldPro power sources only)
- 20 and 70 Series Feeders
- Spoolmatic®/WC-24
- XR™S Control
- ArcReach® Stick/TIG Remote 301325
- ArcReach® Stick/TIG Remote with Polarity Reversing 300934 (for XMT 350 FieldPro with Polarity Reversing power source only)

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

## XMT Racks

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



XMT 350 FieldPro Rack shown.

**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 to Rack
XMT 350 FieldPro	4-Pack Rack (907739) 6-Pack Rack (907740)	230–575 V, three-phase. (Fused for 460/575 V)
XMT 350 FieldPro Polarity Reversing	4-Pack Rack (907742) 6-Pack Rack (907741)	230–575 V, three-phase. (Fused for 460/575 V)
XMT 450 CC/CV ArcReach	4-Pack Rack (907700)	230/460 V, three-phase. (Fused for 460 V)

\*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).

Model/Stock Number		Input Power	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz 208 V 230 V 400 V 460 V 575 V KVA KW							Max. Open- Circuit Voltage	Dimensions	Net Weight
350 A	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	3-phase	5–425 A 10–38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)	42.2 kg (93 lb.)
		1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle**	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
	XMT 350 FieldPro with Polarity Reversing Power Source only (907731) 208–575 V with Tweco® (907731002) 208–575 V with Dinse (907731001) 208–400 V with Dinse, CE	3-phase	5–425 A 10–38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 432 mm (17 in.) W: 318 mm (12.5 in.) D: 610 mm (24 in.)	42.2 kg (93 lb.)
		1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle**	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
450 A	XMT 450 CC/CV ArcReach (1/2 in. stud) (907481003) 230/460 V (907481004) 230/460 V w/auxiliary power*	3-phase	15–600 A 10–38 V	450 A at 38 VDC, 100% duty cycle	—	51	—	27.6	24.4	22	18.9	90 VDC	H: 438 mm (17.25 in.) W: 368 mm (14.5 in.) D: 689 mm (27.125 in.)	55.3 kg (122 lb.)

Wire Feeder Model/Stock Number		Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Type and Capacity		Maximum Spool Size Capacity	Dimensions	Net Weight
ArcReach Suitcase 8 (301457), CE		Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV	330 A at 60% duty cycle	1.3–19.8 mpm (50–780 ipm) dependent on arc voltage	Solid wire 0.6–1.4 mm (.023–.052 in.) Flux-cored 0.8–2.0 mm (.030–5/64 in.)		203 mm (8 in.), 6.4 kg (14 lb.)	H: 324 mm (12.75 in.) W: 184 mm (7.25 in.) D: 457 mm (18 in.)	13 kg (28 lb.)
ArcReach Suitcase 12 (301456), CE		Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV	425 A at 60% duty cycle	1.3–19.8 mpm (50–780 ipm) dependent on arc voltage	Solid wire 0.6–1.4 mm (.023–.052 in.) Flux-cored 0.8–2.0 mm (.030–5/64 in.)		305 mm (12 in.), 20 kg (45 lb.)	H: 394 mm (15.5 in.) W: 229 mm (9 in.) D: 533 mm (21 in.)	15.9 kg (35 lb.)
FieldPro Smart Feeder (301177) Dinse, CE (300935) Tweco® (300935002) Tweco® w/flowmeter		Operates on open-circuit voltage and arc voltage: 14–48 VDC/110 max. OCV*	275 A at 60% duty cycle	50–500 ipm (1.3–12.7 mpm) dependent on arc voltage	.035–.045 in. (0.9–1.1 mm)		305 mm (12 in.), 15 kg (33 lb.)	H: 457 mm (18 in.) W: 330 mm (13 in.) D: 546 mm (21.5 in.)	23 kg (50 lb.)

# DONT WALK WELD™

## **ArcReach®** WELDING SYSTEMS



**The more they walk the more it costs.**

“Business as usual” could cost you thousands of dollars a year and waste hundreds of hours of productive time.

Welders can get more done — and your business can make more money — when you use **Miller® products with ArcReach® technology.**

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



### **WHAT IT DOES:**

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

### **HOW IT HELPS:**

ArcReach technology saves welders multiple walks back and forth to the power source. That saves time, boosts productivity, ensures safety and improves weld quality.

## **ArcReach power sources**



### **ARC REACH PLUG-IN POWER SOURCES**

**Dimension™ 650 ArcReach®\***  
**XMT® 350 FieldPro™ system**  
**XMT® 350 FieldPro™ system**  
**with Polarity Reversing**  
**XMT® 450 CC/CV ArcReach®\***

For harsh environments and a wide range of output requirements  
Exceptional arc performance maximizes weld quality, minimizes defects  
Automatically selects polarity, lead outputs and weld parameters  
  
Portability and excellent arc performance with flexibility and simplicity

### **ARC REACH ENGINE-DRIVEN POWER SOURCES**

**Trailblazer® 325 with ArcReach®\*\***  
**Big Blue® ArcReach® models\*\***

Smaller and lighter than competition with unbeatable arc performance  
Tackle tough jobs that require high output for welding, gouging and aux power

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

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

## HIGHER PRODUCTIVITY

Welders spend up to 250 hours a year walking to and from the power source. Eliminating those walks adds \$11,250 in productive time.

## LESS SETUP TIME

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

## BETTER WELD QUALITY

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

## MORE ARC-ON TIME

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

## REDUCED RISK

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



### ArcReach accessories



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



#### ARC REACH STICK/TIG REMOTES

##### ArcReach® Stick/TIG Remote 301325

For all ArcReach power sources except XMT 350 FieldPro with Polarity Reversing. Features remote amperage control, arc control for stick and Auto-Process Select™.

##### ArcReach® Stick/TIG Remote with Polarity Reversing 300934

For XMT® 350 FieldPro™ with Polarity Reversing power source only. Provides all the same functionality of the XMT 350 FieldPro with Polarity Reversing hundreds of feet from the power source, including process changeover and amperage adjustment — with no special cables.



# PipePro® XC Welding System

See literature PWSM/5.0

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



PipeWorx 400XC shown with optional PipePro XC Feeder with Bernard PipePro Dura-Flux gun and PipePro XC RMD Feeder with Bernard PipeWorx 250-15 gun.

## Power source features

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

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

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

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

## Feeder features

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

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

## Gun features

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

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

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

**Heavy Industrial**  

## Processes

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

## Most popular accessories

- Bernard™ PipePro Dura-Flux™ Gun 301011 3 m (10 ft.)
- Bernard™ PipeWorx™ Guns 195399 4.6 m (15 ft.) 250-15 195400 4.6 m (15 ft.) 300-15
- Feeder Control Cable (one required per system) 300845 10 m (32 ft.) 301039 25 m (82 ft.)
- RHC-14 Remote Control 242211020 6 m (20 ft.) 242211100 30.5 m (100 ft.)
- Work Sense Lead 300947 5 m (16 ft.) 300461 7.6 m (25 ft.) 300462 15.2 m (50 ft.)



Wireless Hand Control 300430

Power Source/ Stock Number	Welding Mode/Process	Amperage/ Voltage Ranges	Rated Output at 100% Duty Cycle	IP Rating	Amps Input at Rated Output, 50/60 Hz		KVA		KW		Max. Open- Circuit Voltage	Dimensions	Net Weight
PipePro 400XC (907675) 380/400 V, CE	CC: Stick	40–350 A	350 A at 34 VDC	IP23	23.5	22.7	15.7	15.9	13.2	13.2	80 VDC	H: 375 mm (14.75 in.)	56.7 kg (125 lb.)
	CV: MIG/ flux-cored	10–39 V	400 A at 34 VDC		27.1	25.7						W: 464 mm (18.25 in.) D: 686 mm (27 in.)	
Wire Feeder/ Stock Number	Input Power	Input Welding Circuit Rating	IP Rating	Wire Feed Speed	Wire Diameter Type and Capacity		Maximum Spool Size Capacity		Dimensions		Net Weight		
PipePro XC (300794), CE SuitCase XC RMD (300844), CE	24 VAC, 9 A	100 V, 500 A at 100% duty cycle	IP23	1.3–12.7 mpm (50–500 ipm)	0.9–2.0 mm (.035–5/64 in.)		15 kg (33 lb.)		H: 438 mm (17.25 in.) W: 203 mm (8 in.) D: 508 mm (20 in.)		15.2 kg (33.5 lb.)		

## PipeWorx 400 Welding System

See literature PWS/2.0

Optimized for pipe fabrication shops.



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

### Simple process setup

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

### True multiprocess machine

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

### Quick process changeover

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

### Single-system design

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

Heavy industrial • CC CV DC 3 Phase

### Processes

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

### PipeWorx 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

## Advanced Technologies of PipeWorx FieldPro System

### RMD® (regulated metal deposition)

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



RMD carbon steel

### 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



Pulsed MIG stainless

### 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).

Power Source/ Stock Number	Welding Mode/Process	Amperage/ Voltage Ranges	Rated Output at 100% Duty Cycle	Amps Input at Rated Output, 50/60 Hz		KVA 380 V    400 V	KW 380 V    400 V	Max. Open- Circuit Voltage	Dimensions	Net Weight
PipeWorx 400 (907534) 380/400 V, CE	CC: Stick	40-400 A	400 A at 36 VDC	26.3	25.5	17.6    17.8	16.5    16.5	90 VDC	H: 724 mm (28.5 in.) W: 495 mm (19.5 in.) D: 806 mm (31.75 in.)	102 kg (225 lb.)
	CC/DC: TIG	10-350 A	350 A at 24 VDC	19	18.1	12.4    12.5	9.7    9.8			
	CV: MIG/flux-cored	10-44 V	400 A at 34 VDC	27.1	25.7	18.0    18.0	15.5    15.6			
Wire Feeder/ Stock Number PipeWorx Dual Feeder (300950), CE	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity		Maximum Spool Size Capacity		Dimensions		Net Weight
	24 VAC, 11 A	100 V, 750 A at 100% duty cycle	1.3-19.8 m/min. (50-780 ipm)	0.9-1.6 mm (.035-.062 in.)		27 kg (60 lb.)		H: 356 mm (14 in.) W: 483 mm (19 in.) D: 737 mm (29 in.)		41 kg (90 lb.)



**Miller recommends**



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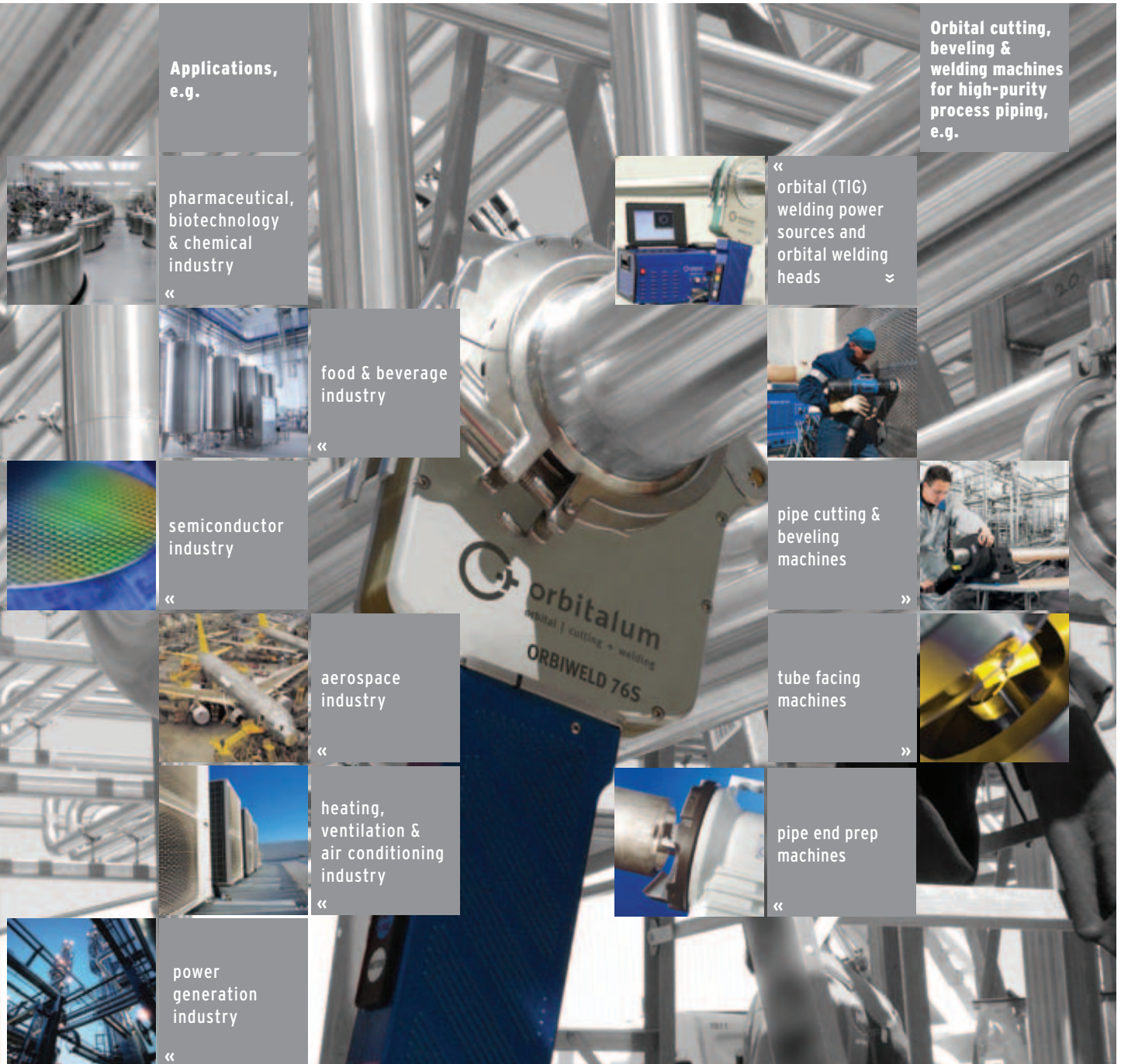
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Product Guide		Class	Stick	DC TIG	Flux-cored*	CAC-A	Portability	Weldable Metals	Welding Amperage Range	Special Features	Typical Applications
1-Phase	Thunderbolt® 160	●	●				Handle, shoulder strap	Steel, stainless	20-160 DC	Infinite amperage control, dual-voltage MVP™ plugs	Job shops, maintenance/repair, farm
	Thunderbolt® 210	●	●						25-210 DC	Infinite amperage control	Job shops, maintenance/repair, farm
	Maxstar® 161 S	●	●				Handle/shoulder strap, optional case		20-160 DC	120-240 V Auto-Line™ digital meter	MRO, ship installation/repair, farm/ranch
1 & 3-Ph	Maxstar® 210 STR	●	●	●			Handles, shoulder strap, optional carts	Steel, stainless	5-210 DC	120-480 V Auto-Line™ digital meters	Construction, fabrication, pipe, steel erection, shipbuilding
	CST™ 280	●	●	●			Handle, optional cart		5-280 DC	Portable at 41 lb., optional meter, also available in multioperator rack	Construction, fabrication, pipe, steel erection, shipbuilding
3-Phase	CST™ 280 Rack	●	●	●	5/16**		Lift eye, optional running gear	Steel, stainless	5-280 DC	Up to 4 or 8 operators, lightweight	Construction, maintenance/repair, shipbuilding
	Gold Star® 452/602	●	●	●	5/16*				20-590 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries
	Gold Star® 652/852	●	●	●	3/8*				50-850 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries

#### Product Key

Class: ● Light industrial ● Industrial ● Heavy industrial Capability: ● Designed for this process ● Capable of this process  
**New! or Improved! products appear in blue type.** \*Constant-current (stick) machines can utilize voltage-sensing wire feeders for some flux-cored applications. \*\*Two machines paralleled.

## Maxstar® 161 S

See literature DC/27.3

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



Maxstar 161 S with X-CASE (907709001) shown.

**AUTO-LINE TECHNOLOGY** Allows for any input voltage hook-up (120-240 V) with no manual linking.

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

**Adaptive Hot Start™** for stick arc starts.

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

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

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

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

Light industrial ● **CC DC 1** Phase

**Process • Stick (SMAW)**

**Comes complete 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
- Quick-reference guide

**907709001 includes above plus**

- Protective X-CASE™

**Most popular accessories**

- Protective X-CASE™ 301429

\*Sense voltage for stick.

Stock Number (907709) (907709001) with X-CASE	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
	120 V	20-90	90 A at 23.6 V, 30% duty cycle	23.2	2.8	2.8	48 VDC (12-16 VDC*)	H: 10.3 in. (262 mm) W: 5.6 in. (142 mm) D: 13.5 in. (343 mm)	13 lb. (5.9 kg)
	240 V	20-160	160 A at 26.4 V, 20% duty cycle	22.6	5.4	5.3			

# Maxstar® 210 STR

See literature DC/32.1

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



**AUTO-LINE** TECHNOLOGY 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 contaminants 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.

Industrial ● **CC** **DC** **3** **1**  
Phase Phase

## Processes

- Stick (SMAW) • TIG (GTAW)

## Comes complete with

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

## Most popular accessories

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

Stock Number (907682)	Welding Process	Input Power	Welding Amperage Range	Rated Output	Phase	Amps Input at Rated Load Output, 50/60 Hz							Max. Open-Circuit Voltage	Dimensions	Net Weight
						120 V	208 V	240 V	400 V	480 V	KVA	KW			
	Stick	208–480 V	5–210	160 A at 26.4 V, 60% duty cycle	Three-phase	—	15	13	8	6	5.5	5.2	80 VDC (11 VDC*)	H: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 495 mm (19.5 in.)	16.3 kg (36 lb.)
					Single-phase	—	26	22	13	11	5.3	5.3			
	TIG	208–480 V	1–210	210 A at 18.4 V, 60% duty cycle	Single-phase	23	—	—	—	—	2.8	2.8			
					Three-phase	—	14	12	7	6	5.2	4.9			
		120 V	5–100	90 A at 23.6 V, 60% duty cycle	Single-phase	—	—	—	—	—	2.8	2.8			
					Single-phase	—	24	20	12	10	4.9	4.9			
		120 V	1–210	125 A at 15 V, 60% duty cycle	Single-phase	22	—	—	—	—	2.6	2.6			
					Single-phase	—	—	—	—	—	2.6	2.6			



# CST™ 280

See literature DC/29.55

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



CST 280

CST 280 with meter



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

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

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

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

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

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

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

Industrial ● **CC DC 3 1**  
Phase Phase**Processes**

- Stick (SMAW)
- TIG (GTAW)

**Comes with**

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

**Most popular accessories**

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

Stock Number	Welding Process	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz								Max. Open-Circuit Voltage	Dimensions	Net Weight	
					208 V	220 V	230 V	400 V	440 V	460 V	575 V	KVA	KW			
(907244) Dinse (907244011) Tweco® (907696) Tweco® with meter 220-230/460-575 V	Stick/TIG	Three-phase	5-280	280 A at 31.2 V, 35% duty cycle	—	35.0	34.2	—	—	17.8	14.7	14.6	10.2	77 VDC	H: 343 mm (13.5 in.) W: 191 mm (7.5 in.) D: 457 mm (18 in.)	18.6 kg (41 lb.)
				200 A at 28 V, 100% duty cycle	—	23.3	22.5	—	—	11.7	9.7	9.6	6.4			
		Single-phase	5-200	200 A at 28 V, 50% duty cycle*	—	43.9	43.0	—	—	—	—	10.1	6.6			
				150 A at 26 V, 100% duty cycle*	—	32.7	32.0	—	—	—	—	7.3	4.6			
(907251) Dinse (907251011) Tweco® (907563) Dinse with meter (907251012) Dinse with VRD 208-230/400-460 V	Stick/TIG	Three-phase	5-280	280 A at 31.2 V, 35% duty cycle	36.0	—	34.0	19.8	18.0	17.5	—	14.0	10.2	67 VDC		
				200 A at 28 V, 100% duty cycle	23.5	—	22.8	13.5	12.0	12.7	—	10.2	6.9			
		Single-phase	5-200	200 A at 28 V, 50% duty cycle*	43.9	—	43.0	—	—	—	—	9.9	6.5			
				150 A at 26 V, 100% duty cycle*	35.0	—	32.9	—	—	—	—	7.6	4.8			

# CST™ 280 Racks

See literature DC/18.82

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



CST 280 8-pack rack shown.



**Light weight and small footprint** for easy transportation.

The low weight enables the use of elevators to move the rack.

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

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

**Lift eye** simplifies crane or overhead lifting device transport.

**Lift truck fork pockets.**

**One main disconnect box with branched fusing** for each machine.

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

**Optional rack running gear** available for moving the rack.

Heavy industrial ● **CC DC 3**  
Phase**Processes**

- Stick (SMAW)
- TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (7.9 mm [5/16 in.] carbons with paralleled CST 280 units)

**Most popular accessories**

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

Model	Stock Number	Rack Capacity	Input Power to Rack	Amps Input at Rated Output, 50/60 Hz 220 V 230 V 400 V 440 V 460 V 575 V						KVA	KW	Dimensions	Net Weight
4-Pack Rack	(907247) Tweco®	4 units	220-230/460-575 V, three-phase, 50/60 Hz. <i>Note: CST 280 machines are factory-linked for 460-575 V.</i>	137	134	79	72	70	57	58.4	40.8	H: 1,289 mm (50.75 in.) 4-pack W: 648 mm (25.5 in.)	161 kg (355 lb.)
8-Pack Rack	(907365) Tweco®	8 units	<i>Dinse units include one set of male connectors; Tweco units do not. See above for information on CST 280.</i>	274	268	158	145	140	114	116.8	81.6	8-pack W: 1,168 mm (46 in.) D: 673 mm (26.5 in.)	290 kg (640 lb.)
Empty Rack	(195051)	4 units	—	—						—	—	Same as 4-pack rack	75 kg (166 lb.)
	(300580)	8 units	—	—						—	—	Same as 8-pack rack	127 kg (280 lb.)

Note: For additional rack systems see Dimension™ 650, XMT® and PipeWorx FieldPro™.



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GTAW

**TIG**



Also see Multiprocess section for machines that can TIG weld.



## Product Guide

Product Guide		Class	TIG	Pulsed TIG	Stick	CAC-A	MIG/Flux-cored	Max. Electrode Diameter				Material Thickness Range (TIG)	Welding Amperage Range	Pulse Capability	Net Weight	Generator Power Requirement		
								E6010/11	E6013	E7018	E7024							CAC-A
	Maxstar® 161	●	●	●	●			5/32 in.	1/8 in.	1/8 in.	3/32 in.	—	.020-3/16 in.	5-160 A	0-150 PPS (STH model)	5.9 kg (13 lb.)	5.3 kW	DC (Steel)
	Maxstar® 210	●	●	●	●			3/16 in.	3/16 in.	5/32 in.	5/32 in.	—	.002-1/4 in.	1-210 A	0.1-250 PPS (base model) 0.1-500 PPS (DX model)	17.2 kg (38 lb.)	9 kW	
	Maxstar® 280	●	●	●	●	●		7/32 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.	.004-3/8 in.	1-280 A	0.1-250 PPS (base model) 0.1-500 PPS (DX model)	21.3 kg (47 lb.)	11 kW	
	Maxstar® 400	●	●	●	●	●		5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.012-5/8 in.	3-400 A	0.1-5,000 PPS	61 kg (134 lb.)	20 kW	
	Maxstar® 800	●	●	●	●	●		5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	.020-1 in.	5-800 A	0.1-5,000 PPS	90 kg (198 lb.)	45 kW	
	Diversion™ 180	●	●					—	—	—	—	—	.030-3/16 in. (alum.) .025-3/16 in. (steel)	10-180 A	—	23 kg (50 lb.)	5.5 kW	AC/DC (Aluminum/Steel)
	Syncrowave® 210 Runner TIG/MIG Complete	●	●	●	●		●	5/32 in.	1/8 in.	1/8 in.	3/32 in.	—	.020-1/4 in. (aluminum/steel)	5-210 A	0.1-150 PPS	61 kg (133.5 lb.)	6 kW	
	Dynasty® 210	●	●	●	●			3/16 in.	3/16 in.	5/32 in.	5/32 in.	—	.012-1/4 in. (alum.) .002-1/4 in. (steel)	2-210 A (AC) 1-210 A (DC)	0.1-250 PPS (base, DC only) 0.1-500 PPS (DX model)	21.3 kg (47 lb.)	9 kW	
	Dynasty® 280	●	●	●	●	●		7/32 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.	.012-3/8 in. (alum.) .004-3/8 in. (steel)	2-280 A (AC) 1-280 A (DC)	0.1-250 PPS (base, DC only) 0.1-500 PPS (DX model)	23.6 kg (52 lb.)	12.5 kW	
	Dynasty® 400	●	●	●	●	●		5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.015-5/8 in. (alum.) .012-5/8 in. (steel)	3-400 A	0.1-500 PPS (AC) 0.1-5,000 PPS (DC)	61 kg (134 lb.)	20 kW	
	Dynasty® 800	●	●	●	●	●		5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	.020-1 in. (aluminum/steel)	5-800 A	0.1-500 PPS (AC) 0.1-5,000 PPS (DC)	198 lb. (90 kg)	50 kW	
	Syncrowave® 250 DX	●	●	●	●	●		1/4 in.	1/4 in.	7/32 in.	3/16 in.	3/16 in.	.015-3/8 in. (alum.) .012-1/2 in. (steel)	3-310 A	0.25-10 PPS (optional)	172 kg (378 lb.)	22 kW	
	Syncrowave® 350 LX	●	●	●	●	●		5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.015-1/2 in. (alum.) .012-5/8 in. (steel)	3-400 A	0.25-10 PPS	225 kg (496 lb.)	30 kW	

### Product Key

Class: ● Light industrial ● Industrial ● Heavy industrial Capability: ● All models ● Some models







# Syncrowave® 210 Series

## AC/DC TIG and Stick See literature AD/4.6

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



### Easy to use.

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

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

### TIG Welding Capability

Max. 6.4 mm (1/4 in.)

Steel

Aluminum

Min. 0.5 mm (0.020 in.)

Light industrial **CC** **AC/DC** **1** Phase

### 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

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



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

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

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

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

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

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

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

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

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

AC/DC	Stock Number	Input Power	Welding Process	Welding Amperage Range	Rated Output (R.M.S.)	Amps Input at Rated Output, 50/60 Hz	Max. Open-Circuit Voltage	Dimensions	Net Weight
	(907596) TIG/Stick System	115 V	DC TIG	5–125 A	95 A at 13.8 V, 60% duty cycle	17.4 (.58 while idling)	47 VDC	H: 800 mm (31.5 in.) W: 470 mm (18.5 in.) D: 1092 mm (43 in.)	Runner package: 61 kg (133.5 lb.) Runner TIG/MIG Complete package: 63 kg (139.5 lb.)
			AC TIG	5–125 A	90 A at 13.6 V, 60% duty cycle	12.4 (.58 while idling)			
			DC stick	20–90 A	70 A at 22.8 V, 60% duty cycle	20.5 (.58 while idling)			
		230 V	DC TIG	5–210 A	125 A at 15 V, 60% duty cycle	11.9 (.35 while idling)			
			AC TIG	5–210 A	114 A at 14.6 V, 60% duty cycle	8.62 (.35 while idling)			
			DC stick	20–150 A	90 A at 23.6 V, 60% duty cycle	11.9 (.35 while idling)			

# Syncrowave® 250 DX and 350 LX

## AC/DC TIG and Stick

See literature AD/4.2

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



Syncrowave 250

Syncrowave 350

### TIG Welding Capability

350 Max. 15.9 mm (5/8 in.)	350 Max. 12.7 mm (1/2 in.)
250 Max. 12.7 mm (1/2 in.)	250 Max. 9.5 mm (3/8 in.)
Steel	Aluminum
Min. 0.3 mm (0.012 in.)	Min. 0.4 mm (0.015 in.)



Heavy industrial • CC AC 1 DC Phase

### Processes

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P) (optional on 250 DX)
- Air carbon arc (CAC-A)

### Comes with

- Two 50 mm Dinse-style connectors

Note: Power cord is NOT included.

### Most popular accessories

- Wireless Remote Foot Control 300429
- Pulser Module 300548 (250 DX ONLY, standard on 350 LX) For welding thin materials. Provides a heating and cooling effect of the weld puddle to reduce heat input and control distortion of the material. Provides 0.25 to 10 pulses per second.
- Sequencer Module 300547 (250 DX/350 LX) Provides a starting current higher or lower than the welding current. Provides final slope and final current for trailing the weld. Provides a spot timer for TIG spot application.

### Squarewave output with AC balance control

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

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

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

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

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

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

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

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

**Line voltage compensation** keeps power source constant regardless of fluctuations in input power ( $\pm 10$  percent).

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

AC/DC	Model/Stock Number	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz						Max. Open-Circuit Voltage	Power Source Dimensions	Power Source Net Weight
	Syncrowave 250 DX (907195) 230/460/575 V, 50/60 Hz, power source only (907194) 200/230/460 V, 50/60 Hz, power source only (907516) 220/400/440/520 V, 50/60 Hz, IEC	3-310	200 A at 28 V, 60% duty cycle	—	77	38	31	17.6	8.6	80 VDC	H: 921 mm (36.25 in.) W: 572 mm (22.5 in.) D: 635 mm (25 in.)	172 kg (378 lb.)
			250 A at 30 V, 40% duty cycle	110	96	48	38	22	11.8			
	Syncrowave 350 LX (907199) 230/460/575 V, 50/60 Hz, power source only (907198) 200/230/460 V, 50/60 Hz, power source only (907517) 220/400/440/520 V, 50/60 Hz, IEC	3-400	300 A at 32 V, 60% duty cycle	—	110	55	42	25	10.6	80 VDC	H: 921 mm (36.25 in.) W: 572 mm (22.5 in.) D: 635 mm (25 in.)	225 kg (496 lb.)
			350 A at 34 V, 40% duty cycle	146	128	65	50	29.5	13.7			

# Maxstar® and Dynasty® 210 DX/280 DX

See literature DC/32.1, DC/35.0, AD/4.81 and AD/4.9



## 210 DX TIG Welding Capability

Max. 6.4 mm (1/4 in.)	Max. 6.4 mm (1/4 in.)
Steel	Aluminum (Dynasty only)
Min. 0.05 mm (0.002 in.)	Min. 0.3 mm (0.012 in.)

## 280 DX TIG Welding Capability

Max. 9.5 mm (3/8 in.)	Max. 9.5 mm (3/8 in.)
Steel	Aluminum (Dynasty only)
Min. 0.1 mm (0.004 in.)	Min. 0.3 mm (0.012 in.)

Industrial ● **CC** AC/DC Phase Phase  
Maxstar is DC only

### Processes

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

### Comes with

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

### Most popular accessories

- 2-Wheel Trolley Cart 300971
- Small Runner™ Cart 301318
- Coolmate™ 1.3 300972
- Coolant 043810
- Remote Controls 043688 RCCS-14 fingertip control 300429 Wireless Foot Control
- Contractor Kits 301311 w/ RCCS-14 finger control 301309 w/ RFCS-14 HD foot pedal

**AUTO-LINE TECHNOLOGY** Allows for any input voltage hook-up (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.

**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.

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

**Cooler-On-Demand™** feature operates the auxiliary cooling system only when needed, reducing noise, energy use, and airborne contaminants pulled through the cooler. *Only available on Maxstar/Dynasty 280 DX models.*

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

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

**Balance** control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds.

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

## Dynasty 280 DX with Insight

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

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

Model/Stock Number		Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	Amps Input at Rated Load Output, 50/60 Hz 120 V 208 V 230 V 400 V 460 V 575 V KVA KW								Max. Open-Circuit Voltage	Dimensions	Net Weight		
DC Maxstar	Maxstar 210 (907683) Maxstar 210 DX (907684) (907684001), CE	TIG	3-phase	1-210	210 A at 18.4 V	—	14	—	7	—	—	5.2	4.9	80 VDC (11 VDC**)	H: 346 mm (13.6 in.) W: 219 mm (8.6 in.) 210 D: 495 mm (19.5 in.) 280 D: 569 mm (22.5 in.)	17.2 kg (38 lb.)		
			1-phase	1-210	210 A at 18.4 V	—	24	—	12	—	—	4.9	4.9					
		Stick	1-phase (120 V)	1-150	125 A at 15 V	22	—	—	—	—	—	2.6	2.6					
			3-phase	5-210	160 A at 26.4 V	—	15	—	8	—	—	5.5	5.2					
			1-phase	5-210	160 A at 26.4 V	—	26	—	13	—	—	5.3	5.3					
		1-phase (120 V)	5-100	90 A at 23.6 V	23	—	—	—	—	—	2.8	2.8						
	Maxstar 280 (907552) (907538) with CPS Maxstar 280 DX (907553) (907539) with CPS (907539002), CE	TIG	3-phase	1-280	235 A at 19.4 V	—	17	15	9	7	6	6.2	6.0	60 VDC (11 VDC**)				22.7 kg (50 lb.)
			1-phase	1-280	235 A at 19.4 V*	—	28	26	15	13	10	6.0	6.0					
		Stick	3-phase	5-280	200 A at 28 V	—	20	18	10	9	7	7.2	7.0					
			1-phase	5-280	180 A at 27.2 V*	—	30	27	15	13	10	6.2	6.2					
AC/DC Dynasty	Dynasty 210 (907685) (907685002) with CPS Dynasty 210 DX (907686) (907686002), with CPS (907686003), CE	TIG	3-phase	1-210	210 A at 18.4 V	—	14	—	7	—	—	5.2	4.9	80 VDC (11 VDC**)	H: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 569 mm (22.5 in)	22.7 kg (50 lb.)		
			1-phase	1-210	210 A at 18.4 V	—	24	—	12	—	—	4.9	4.9					
		Stick	1-phase (120 V)	1-150	125 A at 15 V	22	—	—	—	—	—	2.6	2.6					
			3-phase	5-210	160 A at 26.4 V	—	15	—	8	—	—	5.5	5.2					
			1-phase	5-210	160 A at 26.4 V	—	26	—	13	—	—	5.3	5.3					
			1-phase (120 V)	5-100	90 A at 23.6 V	23	—	—	—	—	—	2.8	2.8					
	Dynasty 280 (907550) (907537) with CPS Dynasty 280 DX (907551) (907514) with CPS (907514002), CE	TIG	3-phase	1-280 (DC)	250 A at 20 V	—	21	19	11	9	7	7	9.3	60 VDC (11 VDC**)				25 kg (55 lb.)
			1-phase	2-280 (AC)	250 A at 20 V*	—	35	32	18	16	18	7.3	7.1					
		Stick	3-phase	5-280	250 A at 30 V	—	22	20	14	13	10	9.9	9.6					
			1-phase		180 A at 27.2 V*	—	32	29	—	—	—	6.7	6.5					



# Maxstar® and Dynasty® 400 and 800

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



## TIG Welding Capability

800 Max. 25.4 mm (1 in.)	800 Max. 25.4 mm (1 in.)
400 Max. 15.9 mm (5/8 in.)	400 Max. 15.9 mm (5/8 in.)
Steel	Aluminum (Dynasty only)
400 Min. 0.3 mm (0.012 in.)	400 Min. 0.4 mm (0.015 in.)
800 Min. 0.5 mm (0.020 in.)	800 Min. 0.5 mm (0.020 in.)

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

**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 through the machine.

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

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

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

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


## AC TIG Features


**Independent amplitude/amperage** control allows EP and EN amperages to be set independently to precisely control heat input to the work and electrode.


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


**Frequency** controls the 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.

**Heavy Industrial**  **CC**  **3**  **1** Maxstar is DC only

## Processes

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

## 400 models come with

- 2.4 m (8 ft.) power cord (no plug)
- Two 50 mm Dinse-style connectors (400)

- Setup video and reference guide

Note: Power cord is NOT included with 800 models.

## Most popular accessories

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



## 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.

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

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz	Max. Open-Circuit Voltage	Dimensions	Net Weight
DC Maxstar	Maxstar 400 (9077116), CSA (907716002), CE (907716001) TIGRunner, CSA	TIG/stick	3-phase	3-400	300 A at 32 V, 60% duty cycle	33 30 17 15 12 12.0 11.5	75 VDC (10-15 VDC*)	H: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	61 kg (135 lb.)
			1-phase	3-400	225 A at 29 V, 60% duty cycle	41 37 - 19 15 8.6 8.2			
	Maxstar 800 (9077118), CSA (907718002), CE	TIG/stick	3-phase	5-800	600 A at 44 V, 60% duty cycle	89 80 46 40 32 32 31	75 VDC (10-15 VDC*)	H: 876 mm (34.5 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	90 kg (198 lb.)
			1-phase	3-400	225 A at 29 V, 60% duty cycle	47 43 - 21 17 9.8 9.1			
AC/DC Dynasty	Dynasty 400 (9077117), CSA (907717002), CE (907717001) TIGRunner, CSA	TIG/stick	3-phase	3-400	300 A at 32 V, 60% duty cycle	35 32 16 16 13 12.7 12.1	60 VDC (11 VDC*)	H: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	61 kg (135 lb.)
			1-phase	3-400	225 A at 29 V, 60% duty cycle	47 43 - 21 17 9.8 9.1			
AC/DC Dynasty	Dynasty 800 (9077119), CSA (907719002), CE	TIG/stick	3-phase	5-800	600 A at 44 V, 60% duty cycle	97 88 51 44 35 35 34	75 VDC (10-15 VDC*)	H: 34.5 in. (876 mm) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	90 kg (198 lb.)
			1-phase	3-400	225 A at 29 V, 60% duty cycle	47 43 - 21 17 9.8 9.1			

## 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.



For more detailed information, visit

[MillerWelds.com/tigtorches](http://MillerWelds.com/tigtorches)



### 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.

**NEW!**

## TIG Torch Configurator

Our new TIG Torch Configurator is a simple way to make sure you are using the right torch and consumables for your application. Answer a few simple questions about your specific application and get a recommendation for the appropriate torch, tungsten, collet, collet body and more. Email or print the recommendation for reference when purchasing your next Weldcraft torch.

Choose Products

☐ Torches Only  
☐ Consumables Only  
☐ Both Torches and Consumables

Next

Work Material

☐ Mild Steel/Stainless Steel  
☐ Descalmed Copper  
☐ Titanium  
☐ Magnesium  
☐ Aluminum

Previous Next

Part Number	Description	Quantity
W03287	2% Oxidized Tungsten (5/32" dia.)	1
04863	Large Diameter 6L Swabber	1
024455L	45° Large Dia. 6L Machine Made 45° Long	1
00830	Collet for 5/32" dia. Tungsten	1
40044	Large Dia. Lens for 5/32" dia. Tungsten	1
00000	Machine Back Cap	1

Back Previous Next

Visit now at [MillerWelds.com/torchconfig](http://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.

### 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)

## Weldcraft™ A-80 Series

Formerly known as WP-24 Series

See literature AY/21.0



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

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

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

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

### Applications

- Shipbuilding ▪ Motorsports
- Aerospace ▪ Restricted areas

### Most popular consumables

- Collets
  - 53N16 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
- Visit [MillerWelds.com](http://MillerWelds.com) or your distributor for other Miller® options and accessories.

Model	Rubber 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Type	Rated Output	Electrode Range
A-80	WP-24-12-R	WP-24-25-R	Air-cooled	DC: 80 A at 60% duty cycle AC: 50 A at 60% duty cycle	0.5-2.4 mm (.020-3/32 in.)
A-80 Flex	WP-24F-12-R	WP-24F-25-R			
A-80 Flex Valve	WP-24FV-12-R	WP-24FV-25-R			





## Weldcraft™ A-125 Series

Formerly known as WP-9 Series

See literature AY/22.0



**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

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

Model	Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	2-Piece Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output	Electrode Range
A-125	WP-9-12-R	WP-9-25-R	WP-9-12-2	WP-9-25-2	Air-cooled	DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle	0.5-3.2 mm (.020-1/8 in.)
A-125 Valve	WP-9V-12-R	WP-9V-25-R	WP-9V-12-2	WP-9V-25-2			
A-125 Flex	WP-9F-12-R	WP-9F-25-R	WP-9F-12-2	WP-9F-25-2			
A-125 Flex Valve	WP-9FV-12-R	WP-9FV-25-R	WP-9FV-12-2	WP-9FV-25-2			
A-125 Pencil	WP-9P-12-R	WP-9P-25-R	—	—			

## Weldcraft™ A-150 Series

Formerly known as WP-17 Series

See literature AY/23.0



**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
  - 10N31 1.6 mm (1/16 in.)
  - 10N32 2.4 mm (3/32 in.)
  - 10N28 3.2 mm (1/8 in.)
- Alumina Nozzles
  - 10N48 #6, 9.5 mm (3/8 in.)
  - 10N47 #7, 11.1 mm (7/16 in.)
  - 10N46 #8, 12.7 mm (1/2 in.)

### Most popular accessories

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

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

\*PSH = positive stop handle (threaded handle).

Model	Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Mono-Flex™ 3.8 m (12.5 ft.)	7.6 m (25 ft.)	2-Piece Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output	Electrode Range
A-150	WP-17-12-R	WP-17-25-R	WP-17-12-MF	WP-17-25-MF	WP-17-12-2	WP-17-25-2	Air-cooled	DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle	0.5-3.2 mm (.020-1/8 in.)
A-150 Valve	WP-17V-12-R	WP-17V-25-R	WP-17V-12-MF	WP-17V-25-MF	WP-17V-12-2	WP-17V-25-2			
A-150 Flex	WP-17F-12-R	WP-17F-25-R	—	—	WP-17F-12-2	WP-17F-25-2			
A-150 Flex Valve	WP-17FV-12-R	WP-17FV-25-R	—	—	WP-17FV-12-2	WP-17FV-25-2			
A-150 Flex Valve Redhead	WP-R17FV-12-R	WP-R17FV-25-R	—	—	—	—			
A-150 PSH*	—	WP-17-25-R-PSH	—	—	—	WP-17-25-2-PSH			
A-150 Valve PSH*	WP-17V-12-R-PSH	WP-17V-25-R-PSH	—	—	—	WP-17V-25-2-PSH			

## 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.

Model	Rubber		2-Piece Rubber		Type	Rated Output	Electrode Range
	3.8 m (12.5 ft.)	7.6 m (25 ft.)	3.8 m (12.5 ft.)	7.6 m (25 ft.)			
A-200	WP-26-12-R	WP-26-25-R	WP-26-12-2	WP-26-25-2	Air-cooled	DC: 200 A at 60% duty cycle AC: 150 A at 60% duty cycle	0.5–4.0 mm (.020–5/32 in.)
A-200 Valve	WP-26V-12-R	WP-26V-25-R	WP-26V-12-2	WP-26V-25-2			
A-200 Flex	WP-26F-12-R	WP-26F-25-R	WP-26F-12-2	WP-26F-25-2			
A-200 Flex Valve	WP-26FV-12-R	WP-26FV-25-R	WP-26FV-12-2	WP-26FV-25-2			
A-200 Flex Redhead	WP-R26F-12-R	—	—	—			
A-200 Flex Valve Redhead	—	WP-R26FV-25-R	—	—			

### 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



- **NEW! 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.

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

## NEW! 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.

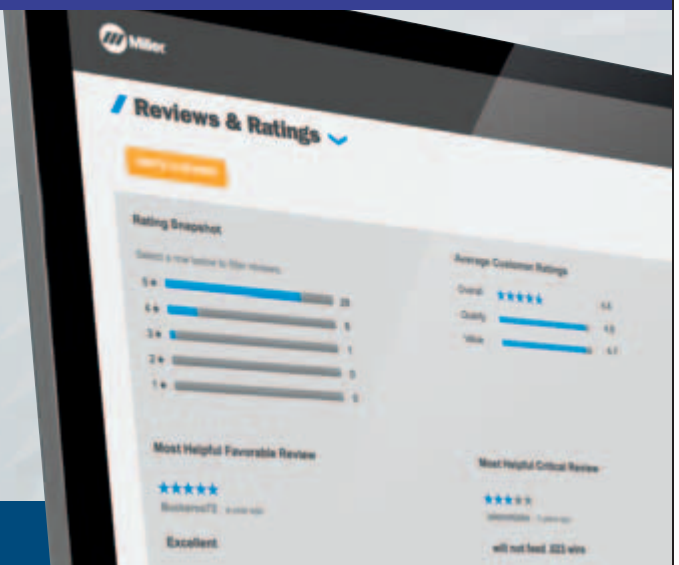
**Robust performance.** The heavy copper construction delivers optimal welding capacity for rugged fieldwork.

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

Model	2-Piece Rubber, 7.6 m (25 ft.)	Type	Rated Output	Electrode Range
A-250	301525025	Air-cooled	DC: 250 A at 60% duty cycle	0.5–4.0 mm (.020–5/32 in.)
A-250 Valve	301526025		AC: 188 A at 60% duty cycle	

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Visit now at [MillerWelds.com](http://MillerWelds.com)



## Weldcraft™ W-180

See literature AY/26.0

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.

### 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.)

Model	Braided 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-180	WP-24W-12-R	WP-24W-25-R	WP-24W-12	WP-24W-25	Water-cooled	DC: 180 A at 100% duty cycle, AC: 115 A at 100% duty cycle	0.5–2.4 mm (.020–3/32 in.)

## Weldcraft™ W-200 Pencil Flex

See literature AY/27.0

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.

### Applications

- Aerospace ▪ Manufacturing
- Food/beverage industry ▪ Shipbuilding
- Maintenance and repair
- Petro/chemical ▪ Precision fabrication

### Most popular consumables

- Insulator (non-gas lens and gas lens) (required) 598882
- Collets (non-gas lens and gas lens)
  - 13N20 0.5 mm (.020 in.)
  - 13N21 1.0 mm (.040 in.)
  - 13N22 1.6 mm (1/16 in.)
  - 13N23 2.4 mm (3/32 in.)
  - 13N24 3.2 mm (1/8 in.)
- Collet Bodies
  - 13N25 0.5 mm (.020 in.)
  - 13N26 1.0 mm (.040 in.)
  - 13N27 1.6 mm (1/16 in.)
  - 13N28 2.4 mm (3/32 in.)
  - 13N29 3.2 mm (1/8 in.)
- Gas Lens
  - 45V41 0.5 mm (.020 in.)
  - 45V42 1.0 mm (.040 in.)
  - 45V43 1.6 mm (1/16 in.)
  - 45V44 2.4 mm (3/32 in.)
  - 45V45 3.2 mm (1/8 in.)

Model	Braided 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-200 Pencil Flex	WP-25-12-R	WP-25-25-R	WP-25-12	WP-25-25	Water-cooled	DC: 200 A at 100% duty cycle AC: 140 A at 100% duty cycle	0.5–3.2 mm (.020–1/8 in.)

## Weldcraft™ W-225 Pencil

See literature AY/28.0

Formerly known as WP-20P



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

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

**Pencil-style head** allows for greater access into hard-to-reach joints.

**Comfort and control** are increased with the lightweight, compact body design.

- Alumina Nozzles
  - 13N08 #4, 6.4 mm (1/4 in.)
  - 13N09 #5, 7.9 mm (5/16 in.)
  - 13N10 #6, 9.5 mm (3/8 in.)
  - 13N11 #7, 11.1 mm (7/16 in.)
  - 13N12 #8, 12.7 mm (1/2 in.)
  - 13N13 #10, 15.9 mm (5/8 in.)
  - 53N58 #4, 6.4 mm (1/4 in.) (gas lens)
  - 53N59 #5, 7.9 mm (5/16 in.) (gas lens)
  - 53N60 #6, 9.5 mm (3/8 in.) (gas lens)
  - 53N61 #7, 11.1 mm (7/16 in.) (gas lens)
  - 53N61S #8, 12.7 mm (1/2 in.) (gas lens)

### Most popular accessories

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

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

Model	Vinyl 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output	Electrode Range
W-225 Pencil	WP-20P-12	WP-20P-25	Water-cooled	DC: 225 A at 100% duty cycle, AC: 160 A at 100% duty cycle	0.5–3.2 mm (.020–1/8 in.)



## Weldcraft™ W-250 Series

Formerly known as WP-20 Series

See literature AY/29.0



**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).

Model	Braided 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-250	WP-20-12-R	WP-20-25-R	WP-20-12	WP-20-25	Water-cooled	DC: 250 A at 100% duty cycle AC: 180 A at 100% duty cycle	0.5–3.2 mm (.020–1/8 in.)
W-250 Valve	—	—	WP-20V-12	WP-20V-25			

## Weldcraft™ W-280 Super Cool™

Formerly known as WP-280

See literature AY/30.0



**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.)

## Weldcraft™ W-375 Super Cool™

See literature AY/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

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

### Most popular consumables

- Insulator (non-gas lens and gas lens) (required) 598882
- Collets (non-gas lens and gas lens)
  - 13N20 0.5 mm (.020 in.)
  - 13N21 1.0 mm (.040 in.)
  - 13N22 1.6 mm (1/16 in.)
  - 13N23 2.4 mm (3/32 in.)
  - 13N24 3.2 mm (1/8 in.)
- Collet Bodies
  - 13N25 0.5 mm (.020 in.)
  - 13N26 1.0 mm (.040 in.)
  - 13N27 1.6 mm (1/16 in.)
  - 13N28 2.4 mm (3/32 in.)
  - 13N29 3.2 mm (1/8 in.)
- Gas Lens
  - 45V41 0.5 mm (.020 in.)
  - 45V42 1.0 mm (.040 in.)
  - 45V43 1.6 mm (1/16 in.)
  - 45V44 2.4 mm (3/32 in.)
  - 45V45 3.2 mm (1/8 in.)
- Alumina Nozzles
  - 13N08 #4, 6.4 mm (1/4 in.)
  - 13N09 #5, 7.9 mm (5/16 in.)
  - 13N10 #6, 9.5 mm (3/8 in.)
  - 13N11 #7, 11.1 mm (7/16 in.)
  - 13N12 #8, 12.7 mm (1/2 in.)
  - 13N13 #10, 15.9 mm (5/8 in.)
  - 53N58 #4, 6.4 mm (1/4 in.) (gas lens)
  - 53N59 #5, 7.9 mm (5/16 in.) (gas lens)
  - 53N60 #6, 9.5 mm (3/8 in.) (gas lens)
  - 53N61 #7, 11.1 mm (7/16 in.) (gas lens)
  - 53N61S #8, 12.7 mm (1/2 in.) (gas lens)

- Back Caps
  - 41V33 Short
  - 41V35 Medium
  - 41V24 Long

### Most popular accessories

#### ▪ Cable Covers

- For W-250 Series
  - WC-3-10 3 m (10 ft.)
  - WC-3-22 6.7 m (22 ft.)
- For W-280 and W-375
  - WC0183 3.6 m (11.75 ft.)
  - WC0182 7.4 m (24.25 ft.)



#### ▪ Accessory Kit AK4C

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

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



## Weldcraft™ W-350 Series

Formerly known as WP-18 Series

See literature AY/32.0



**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).

### Applications

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

### Most popular consumables

- Collets
  - 10N24 2.4 mm (3/32 in.)
  - 10N25 3.2 mm (1/8 in.)
  - 54N20 4.0 mm (5/32 in.)
- Collet Bodies
  - 10N32 2.4 mm (3/32 in.)
  - 10N28 3.2 mm (1/8 in.)
  - 406488 4.0 mm (5/32 in.)
- Alumina Nozzles
  - 10N48 #6, 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.)

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.)
W-350 Valve	—	WP-18V-25-R	—	WP-18V-25			

## Weldcraft™ W-400 Super Cool™

Formerly known as WP-18SC

See literature AY/33.0



**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) NCB-36
- Alumina Nozzles
  - 54N16 #6, 9.5 mm (3/8 in.)
  - 54N15 #7, 11.1 mm (7/16 in.)
  - 54N14 #8, 12.7 mm (1/2 in.)
- Back Caps
  - 57Y04 Short
  - 300M Medium

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-400 Super Cool	WP-18SC-12-R	WP-18SC-25-R	WP-18SC-12	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™ W-410

Formerly known as CS410

See literature AY/34.0



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

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

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

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

### Applications

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

### Most popular consumables

- Collets
  - 10N24 2.4 mm (3/32 in.)
  - 10N25 3.2 mm (1/8 in.)
  - 54N20 4.0 mm (5/32 in.)
- Collet Bodies
  - 10N32 2.4 mm (3/32 in.)
  - 10N28 3.2 mm (1/8 in.)
  - 406488 4.0 mm (5/32 in.)
- Alumina Nozzles
  - 10N46 #8, 12.7 mm (1/2 in.)
  - 10N45 #10, 15.9 mm (5/8 in.)
  - 10N44 #12, 19 mm (3/4 in.)

Model	Braided Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output	Electrode Range
W-410	CS410-12	CS410-25	Water-cooled	DC: 410 A at 100% duty cycle, AC: 310 A at 100% duty cycle	0.5-4.0 mm (.020-5/32 in.)

## Weldcraft™ W-500

Formerly known as WP-12

See literature AY/35.0



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

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

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

**100-percent-copper construction** ensures maximum thermal conductivity.

### Applications

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

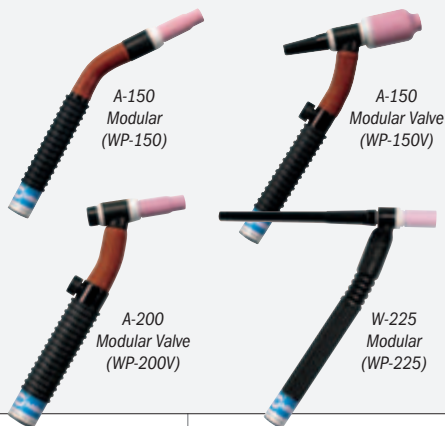
### Most popular consumables

- Insulator (required) 12NG
- Collets
  - 85Z17 4.0 mm (5/32 in.)
  - 85Z18 4.8 mm (3/16 in.)
  - 85Z19 6.4 mm (1/4 in.)
- Collet Body (all sizes) 11WP65
- Alumina Nozzles
  - 14N59 #6, 9.5 mm (3/8 in.)
  - 14N60 #7, 11.1 mm (7/16 in.)
  - 14N61 #8, 12.7 mm (1/2 in.)
  - 14N61-10 #10, 15.9 mm (5/8 in.)
  - 14N61-12 #12, 19 mm (3/4 in.)

Model	Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output	Electrode Range
W-500	WP-12-12	WP-12-25	Water-cooled	DC: 500 A at 100% duty cycle, AC: 350 A at 100% duty cycle	1.6–6.4 mm (1/16–1/4 in.)

## Weldcraft™ Modular Series

See literature AY/36.0



**Air-cooled and water-cooled torches engineered to weld multiple joint configurations for various applications and angles.**

**Built-in, efficient cooling system** reduces overheating to extend parts and consumable life.

**Modular design** minimizes costs and downtime for torch changeover and parts inventory.

**Easy configurable head options** provide greater flexibility and joint access, minimizing downtime for torch changeover.

**Gas valve** provides greater shielding gas flow control (A-150 Modular Valve and A-200 Modular Valve).

### 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 3.8 m (12.5 ft.)	7.6 m (25 ft.)	2-Piece Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output (Torch head dependent)	Electrode Range (Torch head dependent)
A-150 Modular	WP-150-12-R	WP-150-25-R	WP-150-12-2	WP-150-25-2	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	WP-150V-12-2	WP-150V-25-2	Air-cooled	DC: 200 A at 60% duty cycle AC: 150 A at 60% duty cycle	0.5–4.0 mm (.020–5/32 in.)
A-200 Modular Valve	WP-200V-12-R	WP-200V-25-R	—	WP-200V-25-2	Air-cooled	DC: 225 A at 100% duty cycle AC: 160 A at 100% duty cycle	0.5–4.0 mm (.020–5/32 in.)
Model	Braided 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 (Torch head dependent)	Electrode Range (Torch head dependent)
W-225 Modular	WP-225-12-R	WP-225-25-R	WP-225-12	WP-225-25	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™ W-125 Micro Series

Formerly known as WP-125 Series

See literature AY/25.0



**Water-cooled MicroTig® torches designed for limited-access joints.**

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

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

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

### Applications

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

### Most popular consumables

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



Model	Braided 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-125 Medium Micro	WP-125M-12-R	WP-125M-25-R	WP-125M-12	WP-125M-25	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.)
W-125 Long Micro	WP-125L-12-R	WP-125L-25-R	WP-125L-12	WP-125L-25	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™ Automation Series

See literature AY/37.0

## Applications

- Aerospace ▪ Food/beverage industry
- Pressure vessel fabrication
- Petro/chemical

## Most popular accessories

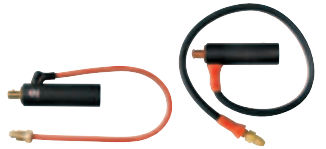
### ▪ Cable Covers

- WC-3-10 3 m (10 ft.)
- WC-3-22 6.7 m (22 ft.)
- WC-4-10 3 m (10 ft.)
- WC-4-22 6.7 m (22 ft.)



### ▪ Air-Cooled Torch 1-Piece Power Cable Connector

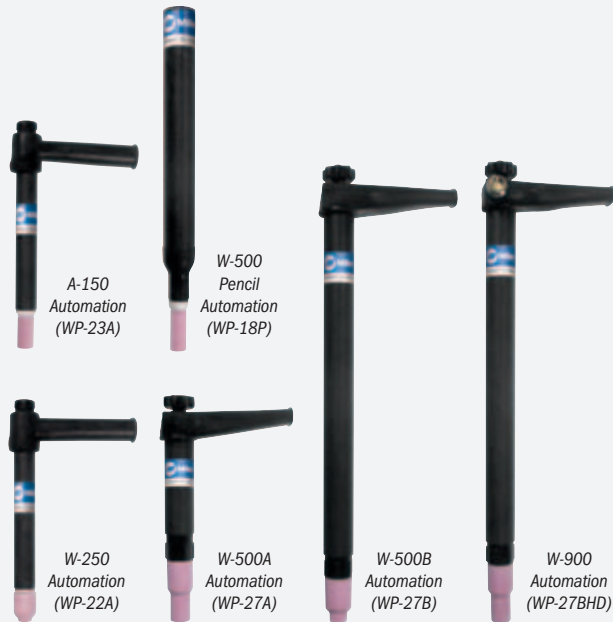
- 195378 50 mm Dinse-style



### ▪ Water-Cooled Torch 1-Piece Power Cable Connectors

- 195377 50 mm Dinse-style
- 225028 50 mm thread-lock

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



**Air-cooled and water-cooled torches designed for high- and low-amperage mechanized applications.**

**Minimize downtime** associated with tungsten changeover by using the front or back tungsten loading areas.

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

**Built-in gas lens** improves gas coverage to minimize shielding gas turbulence and improve weld quality (W-500A Automation and W-500B Automation).

**Handle the most demanding** high-amperage applications (W-900 Automation).

Model	Rubber 3.8 m (12.5 ft.)	7.6 m (25 ft.)	2-Piece Rubber 3.8 m (12.5 ft.)		Type	Rated Output	Electrode Range
A-150 Automation	WP-23A-12-R	WP-23A-25-R	WP-23A-12-2		Air-cooled	DC: 150 A at 60% duty cycle AC: 120 A at 60% duty cycle	1.0-2.4 mm (.040-3/32 in.)
Model	0.9 m (3 ft.)	1.8 m (6 ft.)	3.8 m (12.5 ft.)	7.6 m (25 ft.)	Type	Rated Output	Electrode Range
W-250 Automation	WP-22A-3 (Vinyl)	WP-22A-6 (Vinyl)	WP-22A-12 (Vinyl)	WP-22A-25 (Vinyl) WP-22A-25-R (Rubber)	Water-cooled	DC: 250 A at 100% duty cycle AC: 180 A at 100% duty cycle	1.0-3.2 mm (.040-1/8 in.)
W-500 Pencil Automation	—	—	WP-18P-12 (Vinyl)	WP-18P-25 (Vinyl)	Water-cooled	DC: 500 A at 100% duty cycle AC: 350 A at 100% duty cycle	0.5-4.0 mm (.020-5/32 in.)
W-500A Automation	WP-27A-3 (Rubber)	—	WP-27A-12 (Rubber)	WP-27A-25 (Rubber)	Water-cooled	DC: 500 A at 100% duty cycle AC: 350 A at 100% duty cycle	1.0-6.4 mm (.040-1/4 in.)
W-500B Automation	WP-27B-3 (Rubber)	—	WP-27B-12 (Rubber)	WP-27B-25 (Rubber)	Water-cooled	DC: 500 A at 100% duty cycle AC: 350 A at 100% duty cycle	1.0-6.4 mm (.040-1/4 in.)
W-900 Automation	WP-27BHD-3 (Rubber) Power cable not included	—	—	—	Water-cooled	DC: 900 A at 100% duty cycle AC: 630 A at 100% duty cycle	1.0-6.4 mm (.040-1/4 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.

Type	Stock Number	Diameter mm (in.)	Type	Stock Number	Diameter mm (in.)
<b>2% Ceriated (EWCe-2)</b>			<b>Pure (EWP)</b>		
Performs well in DC welding and arc starting at low-current settings, and offers excellent performance in AC processes.	WC040X7	1.0 (0.040)	Forms a clean, balled end when heated and provides good arc stability for AC welding with a balanced or unbalanced squarewave or sine wave.	—	1.0 (0.040)
	WC116X7	1.6 (1/16)		WP116X7	1.6 (1/16)
	WC332X7	2.4 (3/32)		WP332X7	2.4 (3/32)
	WC018X7	3.2 (1/8)		WP018X7	3.2 (1/8)
	WC532X7	4.0 (5/32)		—	4.0 (5/32)
<b>2% Lanthanated (EWLa-2)</b>			<b>Rare Earth (EWG)</b>		
Provides excellent arc starting, arc stability and re-ignition, and less tip erosion in AC or DC welding. Can substitute for 2% Thoriated.	WL2040X7	1.0 (0.040)	Combines the best of all alloying elements, and provides excellent arc stability in AC or DC welding.	—	1.0 (0.040)
	WL2116X7	1.6 (1/16)		WG116X7	1.6 (1/16)
	WL2332X7	2.4 (3/32)		WG332X7	2.4 (3/32)
	WL2018X7	3.2 (1/8)		WG018X7	3.2 (1/8)
	WL2532X7	4.0 (5/32)		—	4.0 (5/32)



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

### NEW! 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.

#### AK3GL

For A-150, A-200 and A-250. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each

size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.

#### AK4GL

For W-200, W-225, W-250, W-280 and W-375. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and

one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.

### AK Kits (Accessory Kits)

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

#### AK1C

For A-125 Series. Includes one long back cap, one of each size (#4, #5, #6) alumina

nozzle, and one of each size (.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 W-350 Series. Includes one short back cap, one of

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

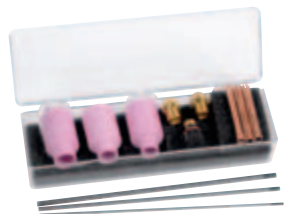


#### AK4C

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

Includes one long

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



#### AK18C

For W-400 Super Cool. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, one of each size (3/32, 1/8 HD, 5/32 HD)

collet, one of each size (.020-1/8 inch, 1/8-3/16 inch) collet body, and one of each size (3/32, 1/8, 5/32 inch) 7-inch 2% ceriated tungsten electrode.



#### AK125C

For W-125 Micro Series. Includes one of each size (180°, 45°, 90°, 90° short) glass

nozzle, and one of each size (.040, 1/16 inch) of the following: 180-degree chuck, 45-degree chuck, 90-degree chuck, and 7-inch 2% ceriated tungsten electrode.



#### AK-150MFC

For A-125 Series, A-150 Series and A-150 Modular Series.

Allows welding operators to customize their standard A-150 (WP-17) or A-125 (WP-9) TIG torch for their specific

application. Kit converts into 28 different torch styles while using the A-150 and A-125 existing cable. Features collets, collet bodies, nozzles, torch heads, handle and more.



#### AK-225MFC

For W-225 Modular.

Includes five additional torch heads, collets, collet bodies, nozzles, handle and more.



#### MAK-2S

For W-350 Series. Includes one short and one long back cap, four back cap o-rings, two cup gaskets, one gas lens insulator, and one of each size (.040, 1/16, 3/32, 1/8 inch) gas lens. Also includes the following:

ten collets (1) .040, (3) 1/16, (3) 3/32, (2) 1/8, (1) 5/32; and eight collet bodies (1) .040, (2) 1/16, (2) 3/32, (2) 1/8, (1) 5/32.

### 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

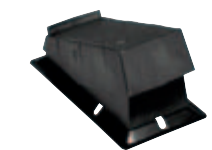
See Accessories section for more information.



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 controls.



Remote on/off control.





**Miller recommends**



**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.

**BernardWelds.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.





Transform data into actionable information that drives continuous improvement.

**NEW!**

*Insight Centerpoint  
version 10 now available.*

## Insight

WELDING INTELLIGENCE™  
Core / Centerpoint / ArcAgent



Increase productivity



Improve weld quality



Manage costs

Complete coverage for any application.



Manufacturing



Automation



Submerged arc

## Choose the Right Welding Intelligence System

		Insight Core™	Insight Centerpoint™	Insight ArcAgent™
For Use With	Factory-Installed	<ul style="list-style-type: none"> <li>Continuum™/Auto-Continuum™</li> </ul>	<ul style="list-style-type: none"> <li>Continuum™/Auto-Continuum™</li> </ul>	<ul style="list-style-type: none"> <li>ANY welding power source (old or new)</li> <li>ANY brand</li> <li>ANY welding process</li> </ul>
	Field-Installed/Activated	<ul style="list-style-type: none"> <li>14-pin compliant power source (see MillerWelds.com/insight)</li> </ul>	<ul style="list-style-type: none"> <li>Continuum™/Auto-Continuum™</li> </ul>	
Requirements		<ul style="list-style-type: none"> <li>Internet connection (wired/wireless)</li> </ul>	<ul style="list-style-type: none"> <li>PC and Ethernet connection</li> </ul>	<ul style="list-style-type: none"> <li>See Insight Core/Insight Centerpoint requirements</li> </ul>
What Capability Do You Need?		<ul style="list-style-type: none"> <li>Productivity monitoring</li> <li>Weld parameter verification</li> <li>Simplicity/basic monitoring</li> <li>Goal setting</li> <li>Analytic tools</li> </ul>	<ul style="list-style-type: none"> <li>Prevent/detect missed welds</li> <li>Minimize overwelding/underwelding</li> <li>Electronic work instructions</li> <li>Measure overall equipment effectiveness (OEE)</li> </ul>	<ul style="list-style-type: none"> <li>Universal solution for use with Insight Core or Insight Centerpoint</li> </ul>
Data Storage		<ul style="list-style-type: none"> <li>Cloud based</li> </ul>	<ul style="list-style-type: none"> <li>Local server or PC</li> </ul>	<ul style="list-style-type: none"> <li>See Insight Core/Insight Centerpoint requirements</li> </ul>

## Insight Core™

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



Visit our online Insight Core simulator at [Insight-simulator.MillerWelds.com](http://Insight-simulator.MillerWelds.com)

### Insight Core dashboard descriptions

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

### How it works



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

**Factory installed** on Continuum™ and Auto-Continuum™ power sources.

**Compatible with Miller® 14-pin compliant power sources.** See [MillerWelds.com/insight](http://MillerWelds.com/insight) or scan QR code at right for a list of 14-pin compatible power sources.

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



Scan me

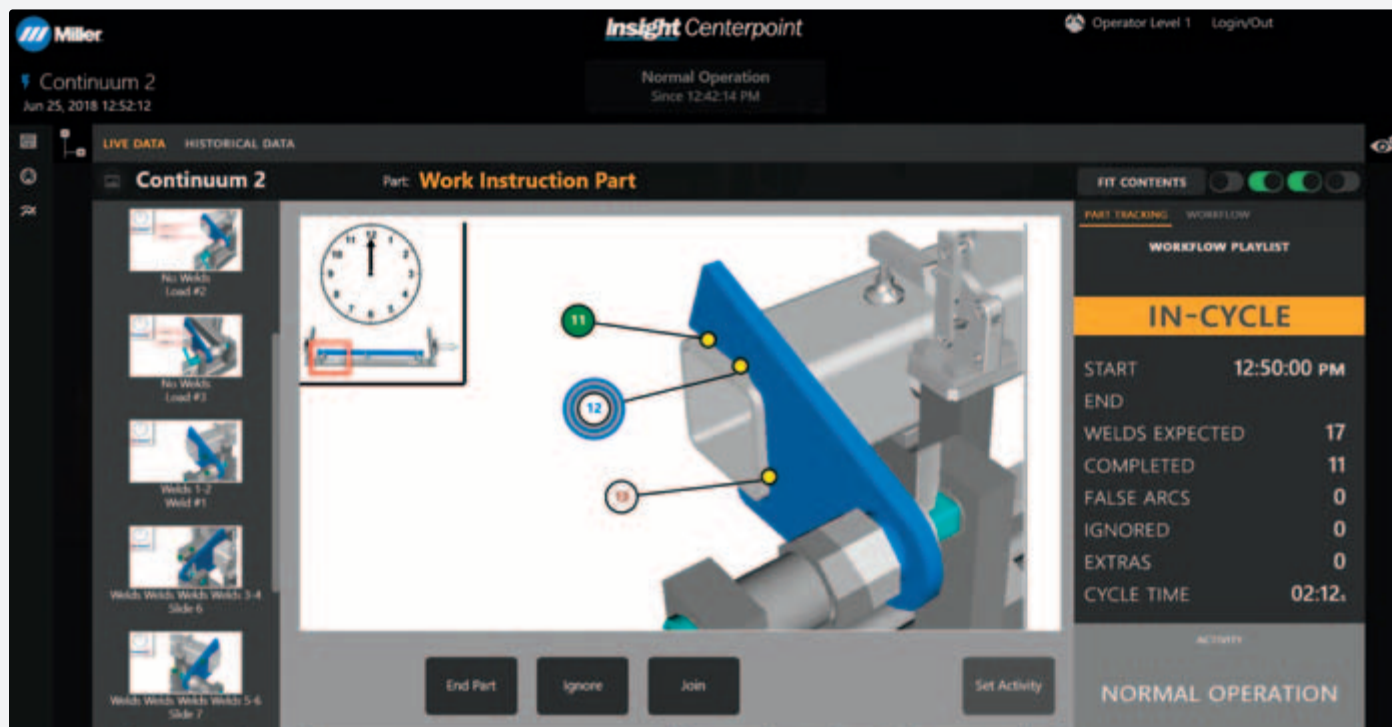
<sup>1</sup> Additional stock numbers are available – visit [MillerWelds.com/insight](http://MillerWelds.com/insight).

<sup>2</sup> SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit (301295).

Type	Continuum Power Sources <sup>1</sup>	Miller 14-Pin Compliant Power Sources
Factory-Installed Insight Core	Continuum 350 (907636) Continuum 500 (907640) Auto-Continuum 350 (907656) Auto-Continuum 500 (907657)	–
Field-Installed Insight Core	–	Requires Insight Core 14-pin module (301072) <sup>2</sup> See <a href="http://MillerWelds.com/insight">MillerWelds.com/insight</a> for a list of 14-pin compatible power sources

## Insight Centerpoint™

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



**NEW!**

### Version 10

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

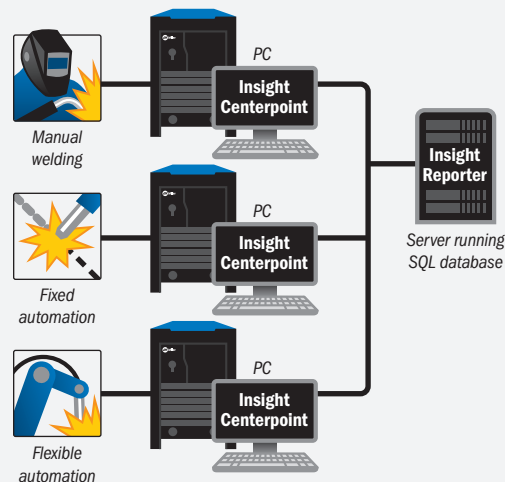
### Software features

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

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

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

### How it works



<sup>1</sup> Additional stock numbers are available – visit [MillerWelds.com/insight](http://MillerWelds.com/insight). <sup>2</sup> Insight Centerpoint includes BOTH software license AND software maintenance for first year. Maintenance is optional after first year.

Type	Continuum Power Sources <sup>1</sup>	Universal Adaptability (works with ALL brands/models of power sources)	Software Activation	Insight Centerpoint Software		Optional Insight Reporter	Accessories
				Single License <sup>2</sup>	Site License <sup>2</sup>		
Factory-Installed Insight Centerpoint	Continuum 350 (907636) Continuum 500 (907640) Auto-Continuum 350 (907656) Auto-Continuum 500 (907657)	–	(301490)	(301255) Software (301256) Maintenance	<b>Tier 1: 10–25 devices</b> (301485001) Software (301486001) Maintenance  <b>Tier 2: 26–50 devices</b> (301485002) Software (301486002) Maintenance  <b>Tier 3: 51–100 devices</b> (301485003) Software (301486003) Maintenance	(300709) Single license (1 required per PC) (300710) SQL database (1 required per facility)	Insight LTD Gun (Q4015JS3EML) For Continuum Insight LTD Remote (301383) M12/RJ45 Ethernet Cables (300734) 3 m (9.8 ft.) (300735) 5 m (16.4 ft.) (300736) 10 m (32.8 ft.) Field Application Support (195480) Miller field support (contact distributor for details)
Field-Installed Insight Centerpoint	–	Requires ArcAgent Manual or Auto (301342) Manual, CE (301343) Manual with front panel Part Tracking controls, CE (301345) Manual with Insight torch capability, CE (301346) Auto, CE	–				



## Insight ArcAgent™ See literature WI/1.0

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



### Models

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

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

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

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

### Most popular accessories

#### Voltage monitoring

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

#### Current monitoring

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

#### Wire feed speed monitoring

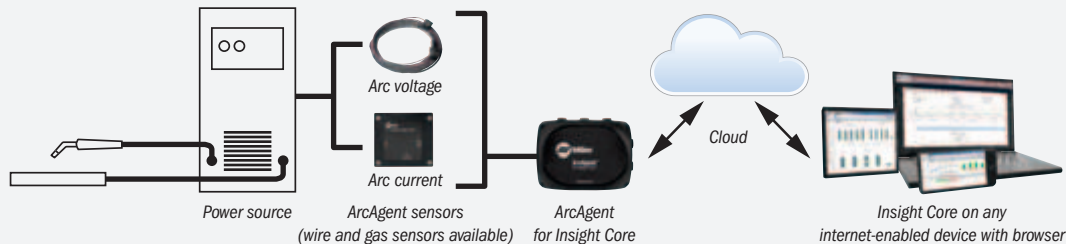
- Wire Speed Sensor 301350
- Wire Speed Sensor Cable  
301368 7.6 m (25 ft.)

#### Gas flow monitoring

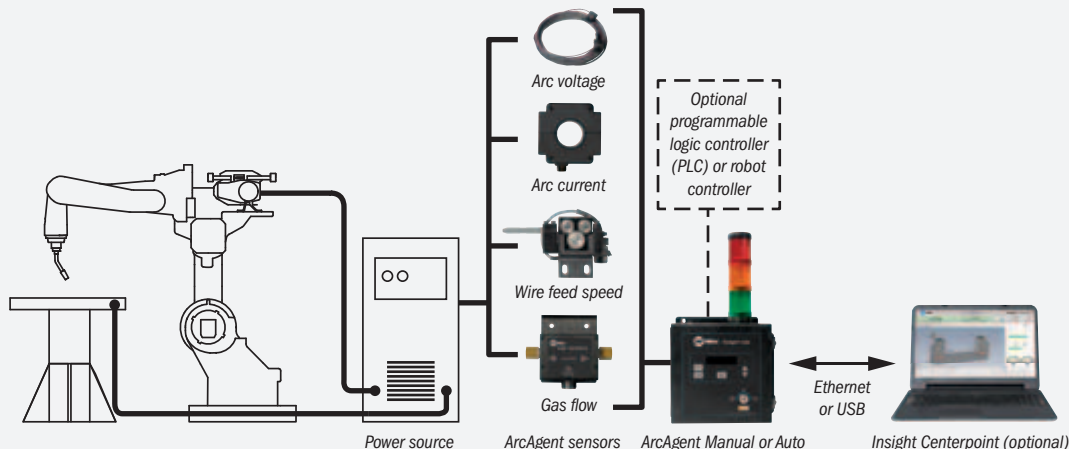
- Gas Flow Sensor 301358
- Gas Flow Sensor Cable  
301369 7.6 m (25 ft.)

For a complete accessory list see literature WI/1.0.

### Typical ArcAgent for Insight Core welding installation



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



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

ArcTimer	ArcAgent for Insight Core*	ArcAgent for Insight Core	ArcAgent Manual	ArcAgent Auto
(301349)	(301357) Dinse current sensor 600 A (301367) Dinse sensor cable 7.6 m (301516) Dinse volt sense cable 7.6 m (301496) Dinse ArcAgent, CE	(301351) Stud current sensor 600 A (301364) Stud sensor cable 7.6 m (301365) Stud volt sense cable 7.6 m (301496) Stud ArcAgent, CE	(301343) Manual with front panel Part Tracking controls, CE (301345) Manual with Insight torch capability, CE	(301346), CE

## Fusion 160

See literature ED/2.8

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.



Fusion 160 with electric start shown.



### POWER SHIFT

#### Work anywhere convenience.

PowerShift technology provides weld capabilities using either the Fusion 160 gasoline engine or 120/240-volt utility power. You'll have the confidence of knowing

that you can weld virtually anywhere — outdoors and indoors — with just one machine. The multi-voltage plug (MVP™) makes it easy to connect the welder to either 120- or 240-volt power.

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

**Less rework.** The Fusion 160 uses inverter technology to deliver a smooth, stable stick arc that's forgiving of variations in arc length and travel speed, so it's easier to produce clean welds that meet specifications — and avoid the time and expense of rework.

Light industrial ● CC DC 1 Phase

#### Process

- Stick (SMAW)

#### Gasoline engine

**Kohler CH440:** 13.4 hp at 3,600 rpm  
One-cylinder, four-cycle, OHV, air-cooled

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

#### Most popular accessories

- Lifting Eye 195353
- Running Gear 301246
- Twist Lock Adapter Cord 301489
- Protective Cover 301245

Gasoline

Stock Number (907720001) Kohler with electric start	Input Power	Welding Mode	Welding Process	Amperage Range	Rated Output at 40°C (104°F)	Amps Input at Rated Output, 50/60 Hz, 1-Phase	Single-Phase Generator Power at 40°C (104°F)	Dimensions	Net Weight
	Engine power	CC/DC	DC stick	30-160	160 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	—	Peak: 6,500 watts Continuous: 6,200 watts	H: 629 mm (24.75 in.) W: 510 mm (20.125 in.) D: 794 mm (31.25 in.)	110 kg (242 lb.)
	Power Shift 120 V			30-100	90 A at 23.6 V, 40% duty cycle	22.7	—		
	Power Shift 240 V			30-160	160 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	25.0	—		

## Blue Star® 185

See literature ED/2.5

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



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

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

**Stick and TIG capable.**

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

**Includes electric start, 120-volt GFCI and 240-volt receptacles, 23.7 L (6.25 gal.) fuel capacity, auto-idle and engine hour meter.**

Light industrial ● CC DC

#### Processes

- Stick (SMAW) ▪ TIG (GTAW)

#### Gasoline engine

**Kohler CH440:** 13.4 hp at 3,600 rpm  
One-cylinder, four-cycle, OHV, air-cooled

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

#### Most popular accessories

- Lifting Eye 195353
- Running Gear 301246
- Protective Cover 301245

Gasoline

Stock Number (907664) Kohler	Welding Mode	Welding Process	Amperage Range	Rated Output at 40°C (104°F)	Single-Phase Generator Power at 40°C (104°F)	Dimensions	Net Weight
	CC/DC	DC stick/TIG	60-185	185 A at 25 V, 20% duty cycle 150 A at 25 V, 100% duty cycle	Peak: 6,500 watts Continuous: 6,200 watts	H: 629 mm (24.75 in.) W: 524 mm (20.625 in.) D: 794 mm (31.25 in.)	134 kg (296 lb.)

## Bobcat™ 200 Air Pak™

See literature ED/4.35

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



**Maximize available payload.** Reduce weight by up to 249 kg (550 lb.) and increase available payload by up to 24 cubic feet by reducing the equipment on the truck.

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

**Minimize operating costs.** Save up to \$50,000 over ten years from increased fuel efficiency, decreased maintenance costs and increased asset life.

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

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

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

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

Light industrial ● **CC** 

### Process

- Stick (SMAW)

### Gasoline engine

**Kohler CH730 with eChoke™:**

23.5 hp at 3,600 rpm

Twin-cylinder, four-cycle, overhead valve, industrial, air-cooled

### Diesel engine

**Kubota D722:**

19 hp at 3,600 rpm

Three-cylinder, industrial, liquid-cooled

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

### Most popular accessories

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

Stock Number	Process	Output Ranges	Rated Weld Output at 40°C (104°F)	Single-Phase Generator Power at 40°C (104°F)	Dimensions	Net Weight	
(907706) Kohler Gasoline (907760) Kubota Diesel	DC stick	50-210 A	150 A at 26 V, 100% duty cycle 180 A at 27 V, 60% duty cycle 210 A at 25 V, 20% duty cycle	Continuous/peak: 5,500 watts	H: 604 mm (23.76 in.) H: 756 mm (29.78 in.) to top of exhaust W: 508 mm (20 in.) D: 1,185 mm (46.64 in.)	253 kg (558 lb.)	
Air Compressor	Features			Free Air Delivery	Working Pressure	Duty Cycle	Oil Capacity
	Rotary screw with auto idle, oil change intervals of 500 hours			0.79 m3/min. (28 cfm) at 3,600 rpm	80-175 psig	100%	1.89 L (2 qt.)

## Overloaded Trucks Underperform

Reduce truck weight and increase payload with an all-in-one solution —  
**Bobcat 200 Air Pak.**



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



## Bobcat™ Series

### Gas, LP and Diesel



Bobcat 250 EFI shown.

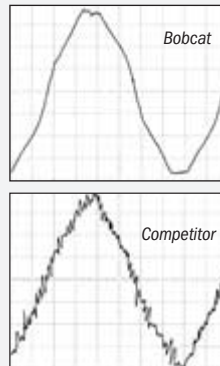


**Bobcat engine-driven welder/generators are the top selling in their class because they are engineered to be reliable, powerful and durable. Their multiprocess capabilities make them ideal for maintenance trucks where reduced size and weight are essential.**

#### Cleaner and stronger generator power

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

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



Waveform Comparison

#### Fewer refueling trips


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

#### Versatile AC and DC welding

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

#### More portable, uses less truck space

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

  
**17%**  
**LESS CUBIC SPACE**  
**THAN THE COMPETITION**

#### Easier maintenance

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

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

## Bobcat™ 225 (Gas) See literature ED/4.4

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

**Features three DC stick/TIG controls, one AC stick/TIG control and one wire range** for output control. Stick ranges designed for 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 home, farm and/or ranch.**

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

**MOST POPULAR!**

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

**Convenient front panel fuel gauge.**

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

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



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

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

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

**Industrial** 

### Processes

- AC/DC stick (SMAW)
- MIG (GMAW)<sup>1</sup> • Flux-cored (FCAW)<sup>1</sup>
- AC<sup>2</sup>/DC TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A)<sup>3</sup> (rated 4.8 mm [3/16 in.] carbons)

<sup>1</sup>With voltage-sensing feeder only.

<sup>2</sup>With Dynasty® 210 Series or HF-251 (non-critical).

<sup>3</sup>Bobcat 250 models only.

### Engines

**Gas: Kohler CH730**

23.5 hp at 3,600 rpm

**EFI gas: Kohler ECH730**

23 hp at 3,600 rpm

**LP: Kohler CH730**

Liquid withdrawal LP system

21.5 hp at 3,600 rpm

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

**EPA Tier 4 Final Diesel: Kubota D722**

19 hp at 3,600 rpm

Three-cylinder, industrial, liquid-cooled

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

### Most popular accessories

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

	Model	Stock Number	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 40°C (104°F)	Generator Power at 40°C (104°F)	Dimensions	Net Weight
Gasoline	Bobcat 225	(907498001) Kohler (907498) Kohler with GFCI	CC/AC	Stick/TIG	70-150 A	150 A at 25 V, 100% duty cycle	Single-phase	H: 711 mm (28 in.)	220 kg (485 lb.)
			CC/DC	Stick/TIG	50-225 A	225 A at 25 V, 100% duty cycle	Peak: 11,000 watts	H: 832 mm (32.75 in.) to top of exhaust	
			CV/DC	MIG/FCAW	19-28 V	200 A at 20 V, 100% duty cycle	Continuous: 9,500 watts	W: 508 mm (20 in.)	
	Bobcat 3 Phase	(907505) Kohler with GFCI	CC/AC	Stick/TIG	50-200 A	200 A at 25 V, 100% duty cycle	Single-phase/three-phase	D: 1,029 mm (40.5 in.)	225 kg (495 lb.)
			CC/DC	Stick/TIG	50-210 A	210 A at 25 V, 100% duty cycle	Peak: 11,000 watts		
			CV/DC	MIG/FCAW	19-28 V	200 A at 20 V, 100% duty cycle	Continuous: 9,500 watts/10,000 watts		
Gas or LP	Bobcat 250	(907500001) Kohler (907500) Kohler with GFCI (907500002) Kohler with electric fuel pump* (907502) EFI Kohler (907504) LP Kohler with GFCI <i>Order hose and LP tank mounting assembly (300917) separately</i>	CC/AC	Stick/TIG	40-250 A 40-275 A w/EFI	250 A at 25 V, 60% duty cycle 225 A at 25 V, 100% duty cycle	Single-phase	H: 711 mm (28 in.)	227 kg (501 lb.)
			CC/DC	Stick/TIG	40-250 A 40-275 A w/EFI	250 A at 25 V, 100% duty cycle	Peak: 11,000 watts Continuous: 9,500 watts	H: 832 mm (32.75 in.) to top of exhaust W: 508 mm (20 in.) D: 1,029 mm (40.5 in.)	
CV/DC	MIG/FCAW	17-28 V	275 A at 25 V, 60% duty cycle 250 A at 25 V, 100% duty cycle	EFI model Peak: 12,000 watts Continuous: 10,500 watts					
Diesel	Bobcat 250 Diesel	(907565) Kubota with GFCI	CC/AC CC/DC	Stick/TIG	40-275 A	250 A at 25 V, 100% duty cycle	Single-phase Peak: 11,000 watts	H: 711 mm (28 in.) H: 876 mm (34.5 in.) to top of exhaust	289 kg (638 lb.)
			CV/DC	MIG/FCAW	17-28 V	275 A at 25 V, 60% duty cycle 250 A at 28 V, 100% duty cycle	Continuous: 9,500 watts	W: 508 mm (20 in.) D: 1,156 mm (45.5 in.)	

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

*\*Based on typical usage – 150 amps welding 40% of the time; 20 amps generator power 30% of the time; and idling without load 30% of the time.*

## Bobcat: The most popular welder/generator

- Dependable power and weld output
- Cost-effective multiprocess welder/generator
- Easy to maintain
- Quietest in its class



## Trailblazer: The best performer in the industry

- Unbeatable arc performance
- Independent welder and generator power system
- Exclusive technologies – Auto-Speed™ and Excel™ power
- Most fuel efficient and quietest in its class



Sound Levels (at 23 feet)	Bobcat 225	Bobcat 250	Trailblazer 325
At Maximum Load / At 150 Amps	73.5 dB / 72 dB	72.5 dB / 72 dB	74 dB/65 dB
Sound Quality	Good	Very good	Excellent
Fuel System			
Typical Runtime per 12-Gallon Tank*	13 hours	13/ 15.5 hours with EFI	Up to 21 hours with options
Efficiency	Good	Good/ Very good with EFI	Excellent
Type	Gasoline	Gasoline or LP	Gasoline or LP
Delivery	Carburetor	Carburetor or EFI available	Carburetor or EFI available
Generator			
Peak Watts	11,000 watts	11,000 / 12,000 watts with EFI	12,000 watts
Clean Power Quality	Very good/ Excellent	Very good/ Excellent	Excellent
Power While Welding	Fair/ Good – With voltage control set near maximum	Good – Easier to fine-tune with arc voltage control near maximum	Independent weld and generator power with no interaction between tools and welding arc
Excel™ Power Generator (120 V, 60 Hz at all engine speeds)	–	–	Excel power available (EFI models)
Weld Performance			
Stick	Good/ Very good	Very good	Excellent
MIG – Wire (solid/ FCAW), Steel	Fair (.035 in.)	Good (.035–1/16 in.)	Excellent (.023–1/16 in.)
MIG – Wire, Aluminum w/Spool Gun	Fair/ Good (add WC-115A with contactor)	Very good (add WC-115A with contactor)	Excellent (add WC-24)
DC TIG (steel)	Good	Very good	Excellent
AC Weld	60–160 amps	40–250 amps	Add Dynasty®
Carbon Arc Gouging	–	Good Carbons: Rated 3/16 in.	Very good Carbons: Rated 3/16 in., Capable 1/4 in.
Key Features			
Digital Meters	–	–	With Sunvision™
Maintenance Displays	Hours/ Oil change	Hours/ Oil change/ Fuel	Hours/ Oil change/ Fuel/ rpm
Battery Charge/ Crank Assist	–	–	12/24-volt available
14-pin Receptacle	–	–	With Auto Remote Sense™
ArcReach	–	–	ArcReach technology available

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

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



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



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



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



## Trailblazer® Series

**Gas, LP and Diesel** See literature ED/4.75 (Gas/LP) and ED/4.8 (Diesel)



Trailblazer 325 EFI shown.

Trailblazer welder/generators deliver unbeatable arc performance providing the smoothest, most stable arc in the industry. The Trailblazer exclusive Auto-Speed™ technology delivers superior runtimes, increased fuel efficiency, and improved welder/generator performance.

### Unbeatable arc performance

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

### Cleaner and stronger generator power

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

### Maximum cost savings

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

### Safer, more productive jobsites

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

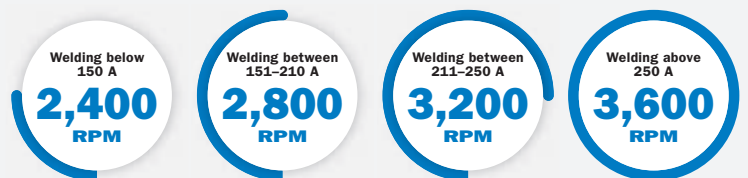
**IT WOULD TAKE  
7 TRAILBLAZERS  
TO EQUAL THE  
SOUND OUTPUT OF  
1 COMPETITOR  
MACHINE.**



### Auto-Speed technology

**Get the welding power you need – plus reduced fuel consumption and lower noise levels** for a more-profitable, safer jobsite. Unlike competitive machines that operate at 3,600 rpm (max) under any load, Miller-exclusive Auto-Speed technology responds to weld requirements by automatically adjusting engine speed to one of four rpm levels so the engine never works harder than necessary. Refueling time and operating costs are reduced, which means more productivity and profitability. Auto-Speed technology – available only from Miller.

Welding at idle speed



Auto-Speed™ in XX18 mode

### Fewer refueling trips

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

### More portable, uses less truck space

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

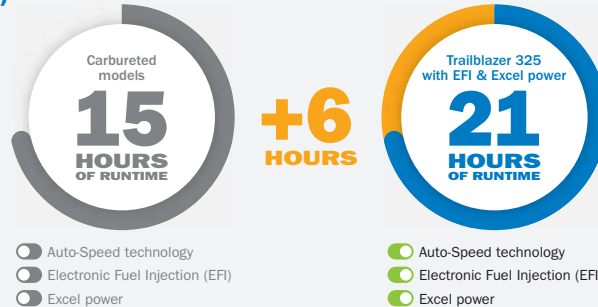
**17%  
LESS CUBIC SPACE  
THAN THE COMPETITION**

## Options to Maximize Your Trailblazer 325 Performance

### Electronic fuel injection EFI (gas models)

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

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

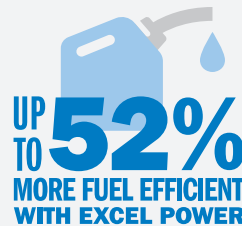


Based on typical usage — 150 amps welding 40% of the time; 20 amps generator power 30% of the time; and idling without load 30% of the time.

### Excel™ power

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

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



### ArcReach® remote control technology

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

**ArcReach®**

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

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

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

\*Recommended for operation at altitudes above 1,524 m (5,000 ft.).

## Heavy industrial

### Processes

- Stick (SMAW) • MIG (GMAW)<sup>1</sup>
- Flux-cored (FCAW)<sup>1</sup> • DC TIG (GTAW)<sup>2</sup>
- RMD<sup>3</sup> • Pulsed MIG (GMAW-P)<sup>3</sup>
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16 in.] carbons)

<sup>1</sup>With wire feeder.

<sup>2</sup>Two-piece TIG torch recommended.

<sup>3</sup>ArcReach model only with ArcReach Smart Feeder.

### Engines

#### Gas: Kohler CH730

23.5 hp at 3,600 rpm

#### EFI gas: Kohler ECH730

23 hp at 3,600 rpm

#### LP: Kohler PCH740

Vapor withdrawal LP system

25 hp at 3,600 rpm

Twin-cylinder, four-cycle, overhead valve, industrial, air-cooled

#### EPA Tier 4 Final Diesel: Kubota D902

24.8 hp at 3,600 rpm

Three-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Note: Engines are warranted separately by engine manufacturer.

### Most popular accessories

- ArcReach® SuitCase® 8/12
- ArcReach® Stick/TIG Remote 301325 (for ArcReach model only)
- Spoolmatic® 30A / WC-24 Control 130831 / 137549
- Multi-Terrain Running Gear
- Off-Road Running Gear
- Protective Cage with Cable Holders
- Hose and LP Tank Mounting Assembly
- All-Purpose Running Gear
- Full KVA Adapter Cord
- Protective Cover
- HWY-Mid Frame Trailer
- Electric Fuel Pump Kit (for gas models only) 300976
- Recommended for operation at altitudes above 1,524 m (5,000 ft.).
- 7.6 m (25 ft.) Battery Charge/Jump Cables with plug (for Trailblazer 325 EFI 907754003 only) 300422

	Model	Stock Number	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 40°C (104°F)	Dimensions	Net Weight
Gas	Trailblazer 325	(907753) Kohler (907753001) Kohler with GFCI (907753002) Kohler with electric fuel pump*	CC/DC	Stick/TIG	10–325 A	325 A at 28 V, 100% duty cycle	Peak: 12,000 watts 11,800 watts (LP) Continuous: 10,500 watts	H: 711 mm (28 in.) H: 832 mm (32.75 in.) to top of exhaust W: 508 mm (20 in.) D: 1,029 mm (40.5 in.)	209 kg (460 lb.)
		(907754) EFI Kohler (907754001) EFI Kohler with Excel power (907754002) EFI Kohler with GFCI, Excel power and ArcReach (907754003) EFI Kohler w/Excel power and battery charge/crank assist	CV/DC	MIG/FCA	10–35 V	325 A at 28 V, 100% duty cycle	Excel power (optional) 2,400 watts		
Diesel	Trailblazer 325 Diesel	(907755) Kubota (907755001) Kubota with GFCI (907755002) Kubota with GFCI and Excel power (907755003) Kubota with GFCI, Excel power and ArcReach (907755007) Kubota with International Receptacles, Excel power, ArcReach and XX18 stick mode at 1800 RPM	CC/DC	Stick/TIG	10–325 A	325 A at 33 V, 100% duty cycle	20 A at 120 V, 60 Hz pure generator power at idle speed and while welding.	H: 711 mm (28 in.) H: 876 mm (34.5 in.) to top of exhaust W: 508 mm (20 in.) D: 1,156 mm (45.5 in.)	281 kg (620 lb.)
			CV/DC	MIG/FCAW	10–35 V	325 A at 33 V, 100% duty cycle			

## Trailblazer® 302 Air Pak™

See literature ED/4.78

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



**Superior arc performance.** Preset dig settings optimized for the majority of stick welding applications, best-in-class wire arc performance, and two Lift-Arc™ TIG modes for most DC TIG applications.

**Strongest combined generator/compressor power.** Delivers an industry-leading 13,000 watts of peak generator power independent of weld settings — can power a Spectrum® 875 plasma cutter, and provide air for plasma cutting at the same time (rated 13 mm [1/2 in.] mild steel).

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

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

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

Heavy industrial

### Processes

- AC/DC stick (SMAW)
- MIG (GMAW)<sup>1</sup> • Flux-cored (FCAW)<sup>1</sup>
- AC<sup>2</sup>/DC<sup>3</sup> TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16 in.] carbons, capable 6.4 mm [1/4 in.] carbons)

<sup>1</sup> With wire feeder.

<sup>2</sup> With Dynasty® 210 Series.

<sup>3</sup> 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 130831 / 137549
- HWY-Mid Frame Trailer 301438
- 7.6 m (25 ft.) Battery Charge/Jump Cables with Plug 300422

\*Recommended for operation at altitudes above 1,524 m (5,000 ft.).

Gasoline	Stock Number	Welding Mode	Process	Amp/Volt Ranges	Rated Weld Output at 40°C (104°F)	Single-Phase Generator Power at 40°C (104°F)	Dimensions	Net Weight
	(907549001) Kohler	CC/DC	Stick/TIG	10–300 A	280 A at 32 V, 100% duty cycle	Peak: 13,000 watts	H: 711 mm (28 in.)	350 kg (771 lb.)
	(907549) Kohler with GFCI and electric fuel pump*	CV/DC	MIG/FCAW	13–35 V, 350 A	300 A at 32 V, 100% duty cycle 350 A at 32 V, 60% duty cycle	Continuous: 11,000 watts	H: 876 mm (34.5 in.) to top of exhaust W: 508 mm (20 in.) D: 1,514 mm (59.625 in.)	
	(907549003) Kohler with GFCI, cooler/seperator and electric fuel pump*	CC/AC	Stick/TIG	10–225 A	200 A at 25 V, 60% duty cycle			
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		0.88 m³/min. (31 cfm) at 3,600 rpm 0.79 m³/min. (28 cfm) at 3,000 rpm 0.62 m³/min. (22 cfm) at 2,400 rpm (idle)		80–160 psig	100%	1.7 L (1.75 qt.)

## 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.

Heavy industrial

### Processes

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

\*ArcReach models only with ArcReach Smart Feeder.

### Diesel engines

**Kubota V150S:** 20.2 hp at 1,800 rpm

Four-cylinder, industrial, liquid-cooled

**CAT C1.5:** 21.7 hp at 1,800 rpm

Three-cylinder, liquid-cooled

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

### Most popular accessories

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

\*\*For ArcReach models only.

Diesel	Stock Number	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 40°C (104°F)	Single-Phase Generator Power at 40°C (104°F)	Dimensions	Net Weight
	(907732010) Kubota, CE	CC/DC	Stick/TIG	20–400 A	300 A at 32 V, 100% duty cycle 350 A at 27 V, 100% duty cycle	Peak: 12,000 watts Continuous: 10,000 watts	H: 813 mm (32 in.) W: 667 mm (26.25 in.) D: 1,422 mm (56 in.)	Kubota 456 kg (1,003 lb.) CAT 500 kg (1,100 lb.)
	(907732011) Kubota w/ArcReach, CE (907758) CAT, CE	CV/DC	MIG/FCAW	14–40 V	400 A at 24 V, 100% duty cycle			



## 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.

Heavy Industrial CC CV DC

#### 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.

Diesel	Model	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 40°C (104°F)	Generator Power at 40°C (104°F)	Dimensions	Net Weight
	Deutz with ArcReach	CC/DC	DC stick/TIG	20-500 A	400 A at 36 V, 100% duty cycle 450 A at 33 V, 60% duty cycle 500 A at 30 V, 40% duty cycle	Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts	H: 1,067 mm (42 in.) W: 724 mm (28.5 in.) D: 1,654 mm (65.1 in.)	694 kg (1,530 lb.)
		CV/DC	MIG/FCAW	14-50 V				

## Big Blue® 500X CC and 600X CC

See literature  
ED/10.11

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.



Big Blue 600X CC shown.

### 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.

### Heavy industrial

#### Processes

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

#### Diesel engines

##### 500X – Deutz D2011L03i

3-cylinder, industrial, air/oil-cooled

##### 500X – Perkins 404D-22

4-cylinder, industrial, liquid-cooled

##### 600X – Deutz D2011L04i

4-cylinder, industrial, air/oil-cooled

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

#### Most popular accessories

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

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)	Deutz D2011L03i	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	<b>Peak:</b> 5500 watts <b>Continuous:</b> 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) with auto idle, V-A meters and battery meter	Deutz D2011L04i		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® 700X Duo Pro

See literature ED/5.6

**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/ampereage control devices for each operator.

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

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

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

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



Heavy industrial CC CV DC

### Processes

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

### Diesel engine Deutz D2011L04i:

48.6 HP at 1800 RPM

Four-cylinder, industrial, air/oil-cooled

Note: Engine is warranted separately by engine manufacturer.

### Most popular accessories

- ArcReach® SuitCase®  
8: 301457 / 12: 301456 / 12RC: 301121
- ArcReach® Smart Feeder 300935
- ArcReach® Stick/TIG Remote 301325
- Wireless Remote Hand Control/Wireless Antenna Kit 300430/300749
- Spectrum® 875
- Adapter Cord, Full KVA 300517
- Full KVA Plug Kit: 1-Phase 119172  
3-Phase 254140
- Protective Cover 194683
- HWY-225 Trailer 301338
- Engine Filter Kit 246988

Stock Number	Welding Mode/Process	Output Mode	Amp Range	Rated Output at 40°C (104°F)	Generator Output Rated at 40°C (104°F)	Dimensions	Net Weight
<b>Diesel</b> (907762) Deutz with ArcReach and Parallel Switch	CC/DC (Stick/TIG)	Separate (dual outputs)	20-400 A (each side)	300 A at 28 VDC, 100% duty cycle 400 A at 36 VDC, 40% duty cycle	Three-Phase: 20,000 watts continuous or Single-Phase: 12,000 watts continuous 380/400V Three-Phase Auxiliary Power	H: 1,092 mm (43 in.) W: 724 mm (28.5 in.) D: 1,654 mm (65.125 in.)	784 kg (1,729 lb.)
		Paralleled (combined)	40-800 A	500 A at 34 VDC, 100% duty cycle 700 A at 24 VDC, 60% duty cycle			
	CV/DC (MIG/FCAW)	Separate (dual outputs)	14-50 V (each side)	300 A at 28 VDC, 100% duty cycle 400 A at 34 VDC, 40% duty cycle			
		Paralleled (combined)	14-50 V	500 A at 34 VDC, 100% duty cycle 700 A at 24 VDC, 60% duty cycle			

# DONT WALK WELD™



## LESS WALKING MEANS BIGGER SAVINGS

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

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

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

**ArcReach®**



## 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.



### ArcReach®

Remote control of the power source without a control cord.



**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.

Heavy industrial 

#### Processes

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

\*With ArcReach Smart Feeder.

#### Diesel engine

##### Deutz TD2011L04i

63.4 hp at 1,800 rpm

Turbo-charged, four-cylinder, industrial, air/oil-cooled

Note: Engines are warranted separately by engine manufacturer.

#### Most popular accessories

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



#### Desiccant Air Dry System (Air Pak model only)

- 195117 Side mount
- 195117001 Rear mount
- Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates.
- Spark Arrestor Kit 195012

\*Welder truck specific models available – visit [MillerWelds.com](http://MillerWelds.com) or your distributor.

Diesel	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: 1,168 mm (46 in.) W: 724 mm (28.5 in.) D: 1,765 mm (69.5 in.)	968 kg (2,095 lb.)
			Paralleled (combined)	40–800 A	700 A at 44 V, 800 A at 38 V			
		CV/DC (MIG/FCAW)	Separate (dual outputs)	14–50 V	400 A at 34 V (each side)			
			Paralleled (combined)	14–50 V	750 A at 40 V, 800 A at 38 V			
	Ingersoll Rand CE55 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.)	



# Submerged Arc

Miller offers an array of versatile submerged arc components, including power sources, controls, wire drives, torches, tractors and a variety of other accessories.

## SubArc Digital Series

See literature AD/7.3

The SubArc Digital Series of power sources, interface controls and accessories include digital control and communication electronics designed to improve weld performance and simplify the integration of the equipment in more advanced applications.



**Two DC power source models and one AC/DC power source model.** Power sources have sufficient power capacity to cover applications from traditional DC single-arc to multi-wire tandem welding. In the case of electroslag welding or other high-current demand, two or more power sources can easily be paralleled (both DC and AC/DC machines).

**Low-voltage accessory operation and improved environmental protection.** The Digital Series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated providing a high level of protection for harsh environments.

**Easy to integrate.** Our SubArc power sources are easy to integrate by using a standard Modbus® connection.

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

\*While idling.

**Heavy industrial** SubArc DC Series is DC only.

CC CV AC DC 3 Phase

### Processes

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

### Most popular accessories

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

Model/Stock Number	Amperage Range (CC Mode)	Voltage Range (Sub Arc Mode)	Rated Output	IP Rating	Amps Input at Rated Output, 50 Hz					Max Open-Circuit Voltage	Dimensions (Includes lift eye, but not strain relief)	Net Weight
SubArc DC 650 Digital (907622) 230/460/575 V, 60 Hz	50–815 A	20–44 V	650 A at 44 V, 100% duty cycle	IP23	380 V	400 V	440 V	KVA	KW	75 Vpk	H: 762 mm (30 in.) W: 584 mm (23 in.) D: 965 mm (38 in.)	269 kg (593 lb.)
SubArc DC 800 Digital, 50 Hz (907623) 380/400/440 V, 50 Hz, CE					95	90	83	50	34.8			
					1.9*	1.8*	1.6*	1.52*	0.76*			
SubArc DC 1000 Digital (907624) 230/460/575 V, 60 Hz	100–1,250 A	20–44 V	1,000 A at 44 V, 100% duty cycle	IP23	135	128	117	73	53	68 Vpk		309 kg (682 lb.)
SubArc DC 1250 Digital, 50 Hz (907625) 380/400/440 V, 50 Hz, CE					5.2*	5.0*	4.5*	3.2*	0.5*			
SubArc AC/DC 1000 Digital (907620) 460 V, 60 Hz	300–1,250 A	20–44 V	1,000 A at 44 V, 100% duty cycle	IP23	179	176	—	122	67	93 Vpk	H: 1,092 mm (43 in.) W: 711 mm (28 in.) D: 1,219 mm (48 in.)	538 kg (1,187 lb.)
SubArc AC/DC 1250 Digital, 50 Hz (907621) 380/400 V, 50 Hz, CE					3.0*	3.0*	—	2.37*	0.95*			

## 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.

### Most popular accessories

- SubArc Control Cables
  - 260622030 9 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.)

Model/Stock Number	Input Power from Welding Power Source	Welding Power Source Type	Dimensions	Net Weight
SubArc Interface Digital (300936), CE	24 VAC, 1-phase, 25 A, 50/60 Hz	Constant voltage (CV), AC or DC, with remote contactor and output control capabilities	H: 292 mm (11.5 in.) W: 305 mm (12 in.) D: 178 mm (7 in.)	7.2 kg (15.8 lb.)

## SubArc Remote Operator Interface

See literature AD/7.3



Motor Control Digital



Remote Pendant Digital

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

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

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

### Most popular accessories

- Continuum Control/Motor Cables
  - 263368015 4.6 m (15 ft.)
  - 263368025 7.6 m (25 ft.)
  - 263368050 15 m (50 ft.)
- SubArc Control Cables
  - 260622030 9 m (30 ft.)
  - 260622050 15 m (50 ft.)
  - 260622080 24.4 m (80 ft.)

Model/Stock Number	Input Power from Welding Power Source	Welding Power Source Type	Dimensions	Net Weight
SubArc Motor Control Digital (301425), CE (requires SubArc Remote Pendant Digital below and Continuum control/motor cable)	24 VAC, 1-phase, 25 A, 50/60 Hz	Constant voltage (CV), AC or DC, with remote contactor and output control capabilities	H: 292 mm (11.5 in.) W: 305 mm (12 in.) D: 178 mm (7 in.)	5.9 kg (13 lb.)
SubArc Remote Pendant Digital (301424), CE (requires SubArc Motor Control Digital above and Continuum control/motor cable)			H: 279 mm (11 in.) W: 270 mm (10.63 in.) D: 80 mm (3.125 in.)	1.4 kg (3 lb.)

## 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.

### Most popular accessories

- 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.)
- Single-Wire Straightener 199733
- Twin-Wire Straighteners  
(for twin-wire torches only)
  - 301160 Single adjustment
  - 301162 Double/separate adjustment
- Drive Rolls
- Manual Slide

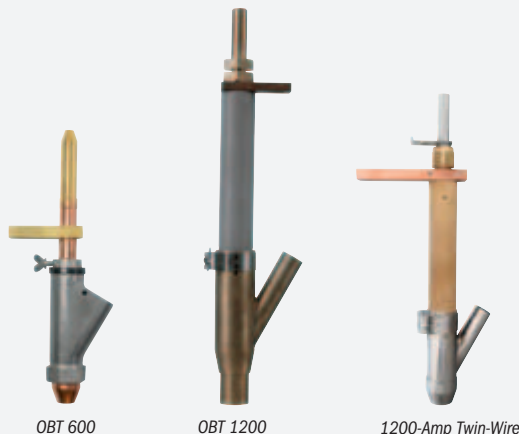
Model	Stock Number	Input Power	Input Power Cord	Rating	Wire Feed Speed	Wire Diameter Capacity	Net Weight
SubArc Wire Drive 400 Digital Low Voltage	(300938) Standard speed, CE	38 VDC	1.2 m (4 ft.)	1/5 hp, 85 rpm	0.8-10.2 mpm (30-400 ipm)	2.4-4.8 mm (3/32-3/16 in.)	11.8 kg (26 lb.)





## SubArc Torches

See literature AD/7.3



**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.

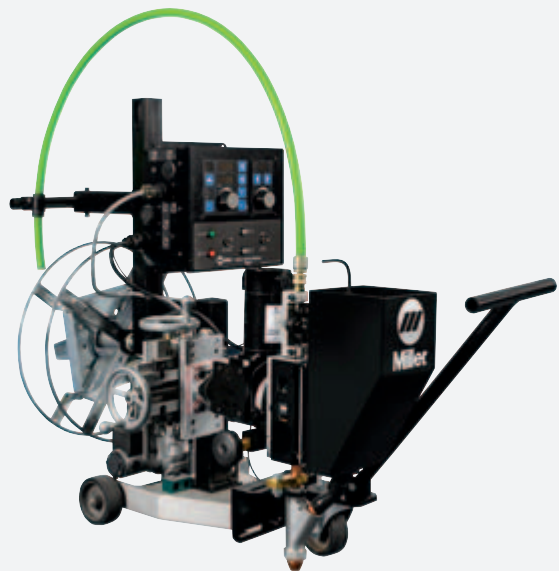
### Most popular accessories

- 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

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

## 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.

### Required system components (sold separately)

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

### Required power source

- SubArc Digital Series

### Most popular accessories

- SubArc Control Cables
- Contact Tips
- Drive Rolls

Input Power from Welding Power Source	Wire Feed Speed	Wire Diameter Capacity	Gun Positioning Slides	Drive Motor	Travel Speed	Dimensions	Net Weight
24 VAC, 1-phase, 50/60 Hz, 25 A	0.8–10.2 mpm (30–400 ipm)	1.6–4.0 mm (1/16–5/32 in.)	88.9 mm (3.5 in.)	38 VDC	0.13–1.75 m/min. (5–70 ipm)	H: 914 mm (36 in.) W: 1,149 mm (43.25 in.) D: 803 mm (31.63 in.)	54.4 kg (120 lb.) without flux or wire

## 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.

### Most popular accessories

- Flux Hopper Extension Cables
- 260623010 3 m (10 ft.)
- 260623025 7.6 m (25 ft.)
- 260623065 19.8 m (65 ft.)

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

**Miller recommends**



### Innovation

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

### Collaboration

Partnering to meet customer needs

### Trusted source

Deep product and application expertise to deliver success



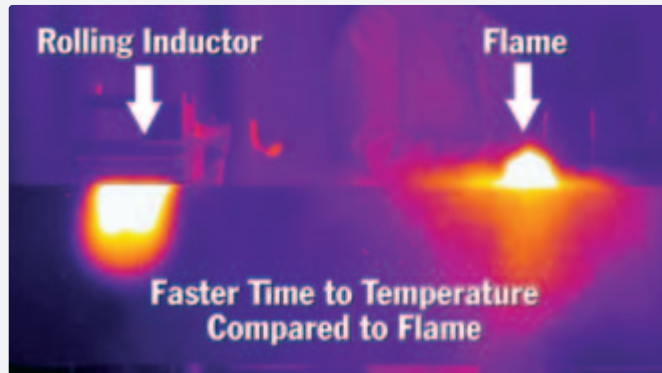
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**More than just filler metal... SOLUTIONS for your business.**

## ProHeat™ Induction Heating

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

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



**Induction heating solves many key issues in today's environment.**

- Does not produce the exposure to burns associated with open flames and electrical resistance wires (only the work part becomes hot)
- No significant expense of fuel gases
- Produces fewer fumes than flame heating
- Produces less particulate from overheated insulation caused by high-temperature electrical wires and ceramic pads

**Induction heating applications:**

- |                    |              |                 |                |
|--------------------|--------------|-----------------|----------------|
| • Process piping   | • Refinery   | • Petrochemical | • Power piping |
| • Pressure vessels | • Structural | • Shipbuilding  | • Pipeline     |



**To learn more:**

*Contact your distributor or regional  
ITW Welding office*

## 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.



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

*Note: Primary input cable is  
not included with power source.*



## One ProHeat™ System – Three Basic Induction Heating Configurations

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

### Liquid-Cooled Cables See literature IN/15.0

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

- A highly versatile tool for preheating, stress relieving, hydrogen bake out, post weld heat treat and shrink fit in a variety of pipe diameters and flat plate
- Designed with flexibility in mind, the ProHeat liquid-cooled induction heating cables can be wrapped into coils of various shapes and sizes to fit almost any induction heating application



### Liquid-Cooled Rolling See literature IN/13.0

**Preheat of moving parts up to 315°C (600°F).**

- Ideal for preheating rolling pipe and moving parts with easy and time saving set up and movement for maintaining and adhering to preheat and interpass temperatures
- It enables the benefits of rolled pipe welding while also addressing some of the concerns associated with other popular heating methods, such as open flame and resistance heating



### Air-Cooled Blankets See literature IN/14.0

**Preheating applications up to 204°C (400°F).**

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



## Spectrum® Series Plasma Cutters

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

### Spectrum Features

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

### Steel/Stainless/Aluminum Rated Cutting Capacity

	375	625	875/
	X-TREME	X-TREME	Auto-Line
Steel/Stainless	9.5 mm (3/8 in.)	15.9 mm (5/8 in.)*	22.2 mm (7/8 in.)
Aluminum	6.4 mm (1/4 in.)	9.5 mm (3/8 in.)	15.9 mm (5/8 in.)

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

Cut capacity ratings are based on traveling speed of approximately 381 mm (15 in.) per minute to achieve a precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Factors that can affect actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.



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.

**LED indicators for easy troubleshooting.**

**Non-high-frequency arc starting** does not interfere with or damage controls or computers.

**Postflow cooling circuitry** extends life of the consumable and torch by cooling them with postflow air after trigger is released.

**Auto-Refire™** provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

**Built-in gas/air filter and regulator.** Provides air filtration of airborne particles five microns and larger. Additional filtration and water separation recommended.

**LVC™ line voltage compensation** provides peak performance power under variable input voltage conditions for clean, steady cuts.

**Wind Tunnel Technology™** prevents abrasive dust and particles from damaging internal components.

**Fan-On-Demand™** cooling system only operates when needed, reducing the amount of airborne dust/dirt pulled through the unit.

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

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



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

XT40 (625 X-TREME) and XT60 (875 models) hand-held torches feature quick torch connection,

ergonomic handles to help prevent operator fatigue and flexible cables that make maneuvering easier.



**Machine torch capable.**

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

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

### Models/packages



Spectrum 375 X-TREME hand-held torch package (907529) shown.



Spectrum 875 Auto-Line machine torch package (907584002) shown.

Model	Hand-Held Torch Packages			Long Body Machine Torch Packages	
	3.7 m (12 ft.)	6.1 m (20 ft.)	15.2 m (50 ft.)	7.6 m (25 ft.)	15.2 m (50 ft.)
Spectrum 375 X-TREME	(907529)	—	—	—	—
Spectrum 625 X-TREME	(907579)	(907579001)	—	(907579002)	—
Spectrum 875	—	(907583)	(907583001)	(907583002)	—
Spectrum 875 Auto-Line	—	(907584)	(907584001)	(907584002)	(907584004)

## Spectrum® 375 X-TREME™/625 X-TREME™

See literature PC/9.2 (375 X-TREME) and PC/9.6 (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 625 X-TREME shown.

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

**625 X-TREME model includes Ultra-Quick Connect™ XT40 hand-held torch** with ergonomic design and flexible cable; or **XT40M long body or short body machine torch.**

## Spectrum® 875/875 Auto-Line™

See literature PC/9.8

**AUTO-LINE TECHNOLOGY** **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.



Spectrum 875 shown.

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

**Light industrial** 375/625 models  
**Industrial** 875 models

**DC 3 1** Only 875 Auto-Line has 3-phase capabilities.

### Processes

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

### 375 X-TREME package comes complete with

- XT30 hand-held torch 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 **OR** XT40M long body or short body machine torch with 7.6 m (25 ft.) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 3.7 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

Model	Input Power	Rated Output at 40°C (104°F)	Amps Input at Rated Output	KVA	KW	Compressor Requirement	Dimensions	Net Weight with Torch
<b>Spectrum 375 X-TREME</b> 120–240 V, 50/60 Hz	Single-phase	120 V (15 A): 20 A at 88 VDC, 35% duty cycle	18.1	2.2	2.1	142 L/min. (5.0 cfm) at 621 kPa (90 psi)	H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)	8.6 kg (19 lb.)
		120 V (20 A): 27 A at 91 VDC, 20% duty cycle	25.6	3.1	3.0			
		240 V: 30 A at 92 VDC, 35% duty cycle	13.6	3.3	3.1			
<b>Spectrum 625 X-TREME</b> 120–240 V, 60 Hz	Single-phase	120 V (15 A): 20 A at 88 VDC, 35% duty cycle	18.1	2.2	2.1	170 L/min. (6.0 cfm) at 621 kPa (90 psi)	H: 229 mm (9 in.) W: 140 mm (5.5 in.) D: 337 mm (13.25 in.)	<b>3.7 m (12 ft.)</b> 9.5 kg (21 lb.) <b>6.1 m (20 ft.)</b> 10.5 kg (23 lb.) <b>7.6 m (25 ft.)</b> 10.7 kg (24 lb.)
		120 V (20 A): 27 A at 91 VDC, 20% duty cycle	25.6	3.0	2.9			
		240 V: 40 A at 140 VDC, 50% duty cycle	13.6	6.4	6.3			
<b>Spectrum 875</b> 208/230 V, 50/60 Hz	Single-phase	208 V: 60 A at 140 VDC, 40% duty cycle	208 V: 47	9.9	9.8	191 L/min. (6.75 cfm) at 621 kPa (90 psi)	H: 343 mm (13.5 in.) W: 222 mm (8.75 in.) D: 470 mm (18.5 in.)	<b>6.1 m (20 ft.)</b> 22.2 kg (49 lb.) <b>15.2 m (50 ft.)</b> 26.3 kg (58 lb.)
		230 V: 60 A at 140 VDC, 50% duty cycle	230 V: 42					
<b>Spectrum 875 Auto-Line</b> 208–575 V, 50/60 Hz	Three-phase	208 V: 60 A at 140 VDC, 40% duty cycle	208 V: 27.5	9.9	9.4			<b>6.1 m (20 ft.)</b> 24.5 kg (54 lb.) <b>7.6 m (25 ft.)</b> 25.4 kg (56 lb.) <b>15.2 m (50 ft.)</b> 28.6 kg (63 lb.)
		230–380 V: 60 A at 140 VDC, 50% duty cycle	230 V: 25					
		380–575 V: 60 A at 140 VDC, 60% duty cycle	380 V: 15					
	Single-phase	380–575 V: 50 A at 140 VDC, 100% duty cycle	460 V: 12.4 575 V: 9.8	9.9	9.7			
		208 V: 60 A at 140 VDC, 40% duty cycle	208 V: 47.4					
		230 V: 60 A at 140 VDC, 40% duty cycle	230 V: 42.2					
		230 V: 50 A at 140 VDC, 100% duty cycle						



## Spectrum® Automation-Ready Machines

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



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

*Spectrum 875 Auto-Line™ machine torch package (907584002) shown. Spectrum 875 machine torch package also available (without remote pendant control).*



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

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

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

### Automation Kits

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



#### ▪ Spectrum 625 X-TREME Automation Kit 301158

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



#### ▪ Spectrum 875 Automation Kit 301156



#### ▪ Spectrum 875 Auto-Line Automation Kit 301157

Includes remote pendant control for manual on/off.



# 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.

**BERNARD**<sup>TM</sup>  
A Division of Miller Electric Mfg. Co.

[BernardWelds.com](http://BernardWelds.com)

**1-855-MIGWELD (644-9353)**

**Miller recommends**

**It's** the tie that binds



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

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

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

**SCIENCE + PEOPLE**

Visit [HobartBrothers.com](http://HobartBrothers.com) for more information.

**Find Your Solution. Today.**



## Welding Helmets



3 YEAR WARRANTY  
Serious dependability backed with a three-year warranty (unless noted).

	T94i™	T94™	Digital Infinity™	Digital Elite™	Digital Performance™	Classic Series VSi™	Classic Series VS	Classic Series FS#10 Flip-Up
Viewing Area	9.0 sq. in.	9.0 sq. in.	13.4 sq. in.	9.2 sq. in.	7.2 sq. in.	5.9 sq. in.	5.2 sq. in.	5.1 sq. in.
Auto-Darkening	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ClearLight™ Lens Technology	Yes	Yes	Yes	Yes	Yes	—	—	—
Shades	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	8-13	8-12	10
Modes	Weld/Cut/X-Mode/ Flip grind	Weld/Cut/X-Mode/ External grind	Weld/Cut/ Grind/X-Mode	Weld/Cut/ Grind/X-Mode	Weld/Cut/ Grind	Weld/X-Mode/ Flip grind	Weld	Weld/ Flip grind
Integrated Grind Shield	Yes	—	—	—	—	Yes	—	Yes
Auto-on	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sensors	4	4	4	4	3	3	2	2
TIG Rating	3 amps	3 amps	5 amps/below	5 amps/below	5 amps	5 amps/below	20 amps	20 amps
Switching Speed	1/20,000	1/20,000	1/20,000	1/20,000	1/20,000	1/20,000	1/10,000	1/3,600
Digital Controls	Yes	Yes	Yes	Yes	Yes	—	—	—
Premium Headgear	Yes	Yes	Yes	Yes	Yes	—	—	—
InfoTrack™	Yes - 2.0	Yes - 2.0	Yes - 1.0	—	—	—	—	—
Weight	26 oz. (737 g)	21 oz. (599 g)	23 oz. (652 g)	18 oz. (510 g)	17 oz. (482 g)	24 oz. (673 g)	16 oz. (454 g)	14 oz. (396 g)
Warranty	3 years	3 years	3 years	3 years	3 years	2 years	2 years	2 years

See chart above for feature availability.

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

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

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

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

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

## T94™ Series Maximized comfort, visibility and productivity for the professional welder. See literature AY/41.1



T94i™  
260483, CE



T94™  
260482, CE

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

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

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

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

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

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

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

**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 short-term comfort as well as long-term health benefits.



**4% LIGHTER** for reduced fatigue



**14% BETTER BALANCE** for elevated comfort



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

Statistics above compare T94i to previous model.

### Helmet Lighting Accessory 281361

**NEW!**

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





## Digital Infinity™ Series

Industry's largest viewing area maximizes visibility. See literature AY/42.0



**Black**  
280045, CE



**Black Ops™**  
280047, CE



**Departed™**  
280048, CE



**Stars and Stripes™**  
280049, CE



**NEW!**

**Relic™**  
280051, CE



**Cat® 2nd Edition**  
282007, CE

## Digital Elite™ Series

Industry-leading helmet provides high-performance versatility. See literature no. AY/43.0



**Black**  
281000, CE



**Lucky's Speed Shop™**  
281001, CE



**Stars and Stripes™ III**  
281002, CE



**Inferno™**  
281003, CE



**Vintage Roadster™**  
281004, CE



**Raptor™**  
281007, CE



**Cat® Edition 1**  
281006, CE

## Digital Performance™ Series

See literature AY/44.0

Lightweight helmet with superior headgear for increased efficiency.



**Black**  
282000, CE



**Blue Rage™**  
282001, CE



**'64 Custom™**  
282002, CE

## MP-10™ Helmet

Best-in-class traditional passive helmet.



**Black**  
238497

Passive shade 10 lens

## Classic Series

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



**VSI™**  
260938, CE



**FS#10 Flip-Up**  
263038, CE



**Black (VS)**  
251292, CE



**Metalworks™ (VS)**  
271346, CE



**Rise™ (VS)**  
271349

### Helmet Lighting Accessory 282013

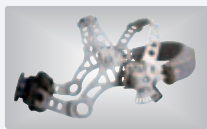
**NEW!**

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



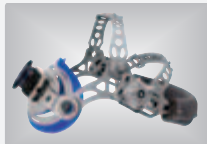
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## Helmet Accessories



### Gen II Headgear 256174

- Extensive adjustability settings and a pivoting top for better fit and comfort



### Gen III Headgear 271325

- Oversized comfort cushion provides extensive adjustability, settings, and enhanced support



### Gen IV Headgear 260486

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



### Slotted Hard Hat Adapter 259637

- Compatible with most slotted hard hats. Helmet and hat not included



### Hard Hat Adapter

- 213110 XL and XLI
- 222003 Elite, Performance, Classic, MP-10, Titanium, Pro-Hobby, XLIx

- Compatible with most Fibre Metal and MSA hats. Other brands may fit depending on size and shape. Helmet and hat not included



### 2x4 Auto-Darkening Lens

- 770660 Shade 8
- 770659 Shade 9
- 770226 Shade 10
- 770961 Shade 11
- Fits all 2x4-inch windows
- Solar powered
- Two arc sensors
- Light state shade 3
- Two-year warranty



### Helmet Bib 253882

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



### Helmet Bib 279078

- Flame-resistant material provides additional neck coverage for the T94™ Series helmets



### Helmet Cape 279080

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



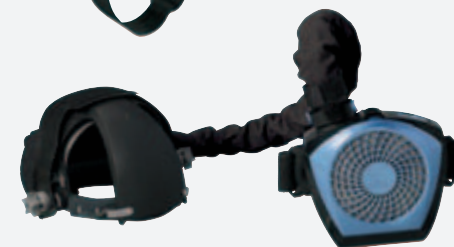
### Helmet Hook 251018

- Holds welding helmets, grinding shields or other helmets with a headgear
- Silicone strap secures the helmet in place



### Jobsite Tool Bag 228028

- Over twenty separate pockets
- Opening of 305 x 470 mm (12 x 18.5 inches)



### CoolBelt™ Belt-Mounted Cooling System 245230

- Up to **17 degrees Fahrenheit cooler** under the hood
- Provides all-day comfort through maximized airflow power
- Multiple airflow speeds eliminate stagnant air and reduce fogging
- Lightweight design extends wearability
- Compatible with Infinity, Elite, Performance, Classic and MP-10 Series helmets

## Weld-Mask™

See literature AY/40.0



Compact auto-darkening lenses allow users to weld in spaces where access with traditional welding helmets is limited. Close-fitting soft eye covering provides total darkness for precision welding. Face shield and flame-resistant head cover provide coverage for UV/IR rays and applications with limited spatter.



### Weld-Mask 267370, CE

- Shades 5, 7, 9, 11 and 13 for use with MIG, TIG, stick, and gas welding and cutting
- Extremely lightweight (8 oz.), virtually eliminates neck strain

### Weld-Mask 2 280982, CE

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

## Safety Glasses

See literature AY/46.0



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

### Safety and Cutting Glasses Chart

Frame Style/Color	Clear	I/O	Smoke	Shade 3	Shade 5
Classic	272187	–	–	–	–
Classic with Strap	272188	–	–	–	–
Spark™	272190	–	–	–	–
Spatter™ - Black	272191	–	272195	–	–
Spatter™ - White	272198	–	272199	–	–
Slag™ - Black	272201	272202	272203	272204	272205
Slag™ - White	272206	272207	272208	272196	272209
Gen I - Black	238979	–	235656	235662	235658

## Welding Apparel

See literature AY/47.5



### Grain Leather Jacket (See size chart)

- Top-grain pigskin leather
- Expandable leather strategically placed for optimal mobility
- Flame-resistant inside cuff
- Satin lining
- Tapered, athletic cut
- Sewn entirely with Kevlar® thread, adding structural durability at each seam



### Split Leather Jacket (See size chart)

- Premium pig split leather
- 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



### Leather Bib/Apron 231125

- Attaches to combo jacket with snaps across the chest as a bib or along the bottom as an apron



### Combo Sleeves 231096

- Indura® flame-resistant cotton/top grain leather
- 21-inch length



### Classic Cloth Sleeves 247148

- 18-inch length
- Fold-in sleeve snaps
- One-handed cinch closure



### Combo Jacket (See size chart)

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



### Indura® Cloth Jacket (See size chart)

- 9-ounce Indura® flame-resistant cotton (flame resistance guaranteed for life of jacket)
- Pre-shrunk fabric
- Nomex® flame-resistant thread



### Classic Cloth Jacket (See size chart)

- 9-ounce flame-resistant navy cotton
- Pre-shrunk fabric
- Fold-in sleeve snaps
- Finished hems and reinforced stitching



### Classic Cloth Apron 247149

- 35-inch length with accessible front pocket
- Adjustable drawstring ensures a good fit

### Welding Apparel Size Chart

Apparel	Small	Medium	Large	X-Large	2X-Large	3X-Large	4X-Large	5X-Large
Grain Leather Jacket	—	—	231090	231091	231092	—	—	—
Split Leather Jacket	273212	273213	273214	273215	273216	273217	273218	273219
WeldX Jacket	247114	247115	247116	247117	247118	247119	247120	247121
Combo Jacket	—	—	231082	231083	231084	—	—	—
Indura Cloth Jacket	—	258097	258098	258099	258100	—	—	—
Classic Cloth Jacket	244749	244750	244751	244752	244754	244755	244756	244758



## Welding Gloves

See literature AY/47.0

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



### Heavy-Duty MIG/Stick

- Strategically placed patches on palm and back for extended glove life
- Double-layered insulated palm and back
- Pig grain leather palm provides extreme durability and protection



### MIG (Lined)

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



### TIG

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



### TIG/Multitask

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



### Metalworker

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

**Classic — traditional design for the value-minded welder.**



### Heavy-Duty MIG/Stick

- Reflective insulation on back reduces heat impact
- Moisture-wicking fleece and foam insulation
- Pig grain palm, pig split back and cuff



### MIG (Pigskin)

- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Pig split leather palm, back and cuff



### MIG (Cowhide)

- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Cow split palm, pig split back and cuff



### TIG

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

**Welding Glove Size Chart** \*All asterisked stock numbers are sold as one pair. All others are sold as six packs (six pairs).

Performance Gloves	Small	Medium	Large	X-Large	2X-Large	Classic Gloves	Medium	Large	X-Large
Heavy-Duty MIG/Stick	—	—	263339	263340	269615*	Heavy-Duty MIG/Stick	—	271877*	271887*
MIG (Lined)	—	263332	263333	263334	269618*	MIG (Pigskin)	—	279875*	279876*
TIG	263346	263347	263348	263349	—	MIG (Cowhide)	—	271890*	271891*
TIG/Multitask	263352	263353	263354	263355	—	TIG	279897*	279898*	279899*
Metalworker	—	251066	251067	251068	—				

## Respiratory

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

#### Available packages:

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

**264575** With auto-darkening lens assembly

#### With T94-R™ helmet (external grind control)

**264573** With auto-darkening lens assembly

#### With Titanium 9400i™ helmet (integrated clear grind shield)

**264877** With auto-darkening lens assembly

#### With Titanium 9400™ helmet (external grind control)

**264879** With auto-darkening lens assembly

#### With hard hat and Titanium 9400i™ helmet (integrated clear grind shield)

**261659** With auto-darkening lens assembly

#### With hard hat and Titanium 9400™ helmet (external grind control)

**259385** With auto-darkening lens assembly

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



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

### Designed for comfort

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

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

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

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

### Superior visibility

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

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

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

### Improved productivity

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

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

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



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

**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)

**261086** Quantitative fit-test kit adapter

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



### N95 Disposable Mask Respirator See literature AY/4.8

**267334** Respirator (10 pack)

**267335** Respirator with nuisance level OV relief (10 pack)

**267334-2** Respirator (2 pack)

**267335-2** Respirator with nuisance level OV relief (2 pack)

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

## LiveArc™ System Welding Performance Management System

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

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



Only available at  
authorized training  
distributors!

### LiveArc GMAW/FCAW system comes complete with

- SmartGun with 4.6 m (15 ft.) cable
- Calibration tool
- Two table clamps
- C-clamp assembly
- Removable arm extension for right- and left-hand applications
- Extra Bernard consumables

### LiveArc GMAW/FCAW/SMAW system includes above plus

- SmartStinger with 4.6 m (15 ft.) cable
- Router box
- Software update for SMAW applications

### LiveArc stick upgrade module

For systems currently with GMAW/FCAW only.

- Includes SmartStinger with 3.7 m (12 ft.) cable, 4.6 m (15 ft.) Dinse-style cable, router box with mounting bracket, software update for SMAW applications, easy-clean dust tray, and dual-purpose holster

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

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

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

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



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

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



Angles CTWD Aim

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



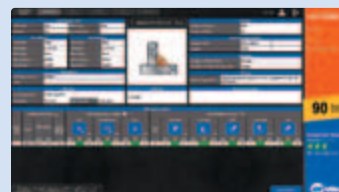
Work angle and travel angle

### Intuitive user interface



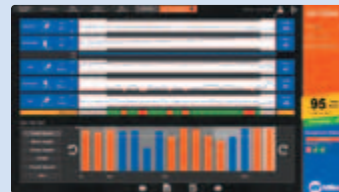
### Assignment selection screen

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



### Welding procedure specification (WPS) screen

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



### Post-weld feedback screen

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

Stock Number	Input Power	Processes	Positions	Multi-Pass	Rated Output	Electrode Diameter	Computer	Monitor	Dimensions	Net Weight
(907714) LiveArc GMAW/FCAW system	120/220/240 V, 50/60 Hz	GMAW, GMAW-S, GMAW-P, FCAW-G	2F-4F, 1G-4G	Groove and fillet up to 25 mm (1 in.) plate	<b>SmartGun</b> 400 A at 60% duty cycle (mixed gases)	<b>SmartGun</b> Up to 2.0 mm (5/64 in.)	Intel core i7, 128 GB SSD, fanless cooling, HDMI port supports most secondary monitors (not included)	21.5 HD LCD touch screen display	H: 1,969 mm (77.5 in.) W: 1,168 mm (46 in.) D: 787 mm (31 in.)	<b>GMAW/FCAW system</b> 218 kg (480 lb.)
(907714001) LiveArc GMAW/FCAW/SMAW system	Compatible with Miller power sources	SMAW	2F-4F, 1G-4G	Limited groove applications	<b>SmartStinger</b> 250 A at 60% duty cycle	<b>SmartStinger</b> Up to 3.2 mm (1/8 in.)				<b>GMAW/FCAW/SMAW system</b> 239 kg (527 lb.)
(301391) LiveArc stick upgrade module										

Only available at authorized training distributors



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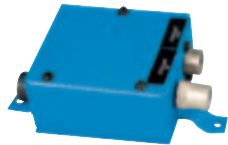
- Kits • Protective Covers • Remote Controls
- Torch and Weld Cable Connectors

### Wire Feeder Accessories 115

- Extension Cables (14-pin) • Power Supply Adapter
- Spool Adapter • Spool Gun Controls and Kits
- Turntable Assembly • Wire Straightener

## Automated MIG

For adapters and drive motors, visit [MillerWelds.com](http://MillerWelds.com).



### Coolant Flow Switch 195461

For water-cooled guns and external cladding head. To ensure coolant is flowing in the system. A lack of

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

## Cable Connectors and Adapters

Also see [Torch and Weld Cable Connectors in TIG Accessories](#).

For AlumaFeed system, Invision 352 MPa, XMT 304/350, CST, Maxstar, Dynasty and Syncrowave. These power sources are equipped with Dinse- or Tweco-style connectors for secondary connections. Power sources are shipped with two male plugs for use with #4 to #1/0 AWG cable.

### Dinse-Style Connector Kits

**042418** Accepts #4 to #1/0 AWG cable

**042533** Accepts #1/0 to #2/0 AWG cable

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

### Extension Kit for Dinse-Style Cable Connectors

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

Used to adapt or extend weld and/or work cables. Kit includes one male Dinse-style plug and one in-line female Dinse-style receptacle.

### Extensions for Dinse-Style Cable Connectors

**134460** Male Dinse-style plug

**136600** Female Dinse-style receptacle

Used to adapt or extend weld and/or work cables.

Accepts #1/0 to #2/0 AWG cable.



### Tweco-Style Connector 191981

Accepts #1/0 to #2/0

AWG cable. Kit includes one Tweco-style male plug which attaches to the work and/or weld cables and plugs into the Tweco-style receptacles on the power source.



### Dinse/Tweco Adapter 042465

### Dinse/Cam-Lok Adapter 042466

One-piece adapter with Dinse-style male plug (to power source) on one end and

Tweco or Cam-Lok female receptacle (for weld cable connection) on other end.



### Tweco/Dinse Adapter 210061

One-piece adapter with Tweco-style male plug (to power source) on one

end and Dinse-style female receptacle (for weld cable connection) on other end.

## Carts, Cylinder Racks and Running Gear

Also see [Engine Drive Accessories](#).



### Feeder Cart 142382

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



### Carrying Cart 056301

For wire feeders, XMT, CST and smaller Maxstar/Dynasty. Cart is 864 mm high x 762 mm wide x 432 mm deep (34 x 30 x 17 in.).



### Cylinder Cart 042537

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



### Universal Cart and Cylinder Rack 042934

For Invision 352 MPa, XMT 304/350, CST, Diversion, Maxstar 210/280 and Dynasty 210/280. Also accommodates a single gas cylinder up to

1,422 mm (56 in.) high measuring 152 to 229 mm (6 to 9 in.) in diameter. Provides storage for auxiliary items such as electrodes, helmets and gloves.



### Running Gear/Cylinder Rack 301239

For Millermatic 141/211, Multimatic and Diversion. Heavy-duty construction with 8-inch rubber rear wheels. Convenient front handles, cable holders and plastic consumable box. For gas cylinders

no greater than 178 mm (7 in.) in diameter or 29.5 kg (65 lb.) in weight.



### Dual Cylinder Rack Conversion Kit and Tool Holder 301454

Converts Running Gear/Cylinder Rack (301239) from a single cylinder cart to a dual cylinder cart. Top bracket is able to hold a variety of tools including a welder, adjustable wrench, screwdrivers, chipping hammer, wire brush and filler rod.



### Dual EZ-Change™ Low Cylinder Rack with Elevated Gun and Cable Rack 300337

For Millermatic 212 Auto-Set/252 and Syncrowave 210. Allows operators to easily roll cylinders on and off the rack with no lifting. Gun and cable rack keeps cables off the floor and tangle free.

### Elevated Gun and Cable Rack 300335

For Millermatic 212 Auto-Set/252 and Syncrowave 210. For use with single-cylinder rack. (Included with Dual EZ-Change Low Cylinder Rack.)



### Dual Cylinder Rack 195299

For Millermatic 350P/350P Aluminum. Replaces single-cylinder rack.

# ... Accessories



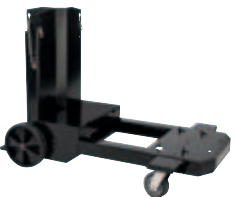
## MIGRunner™ Cart 195445

For AlumaFeed system, Invision, and XMT with single feeders. Small footprint and easily maneuverable, with a dual-cylinder rack low enough that you do not have to lift bottles. Durable, heavy-duty ergonomic handles are designed for comfort.



## Running Gear Cylinder Rack 300408

For Invision, Dimension 650, and XMT with single or dual 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 feeders can be mounted to cart and secured.



## Continuum Running Gear/Cylinder Rack 301264

For Continuum. Small footprint and easily maneuverable, with cylinder rack low enough that you do not have to lift bottles.



Shown with optional cylinder rack (042887).

## Standard Running Gear and Cylinder Rack

**042886** Running gear

**042887** Cylinder rack

For CP-302, Deltaweld, Dimension 452 and Gold Star. Running gear has 254 mm (10 in.) rear wheels and wheels and 127 mm (5 in.) front casters for excellent mobility on the shop floor. Very easy to install. Handles double as a cable holder. Cylinder rack only installs on Standard Running Gear (**042886**).



## 2-Wheel Trolley Cart 300971

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



## Small Runner™ Cart 301318

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



## Runner™ Cart 300244

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



## No. 37 Running Gear 195282

For Syncrowave 250 DX/350 LX. Includes two 254 mm (10 in.) wheels, two wheels and 127 mm (5 in.) casters, two-compartment rack for gas cylinders, and handles. Provides excellent mobility and easy to install.

# Coolmate™ Coolant Systems

See literature AY/7.2

**1**  
Phase



## Coolmate™ 1.3 300972 120 V, CE

For Maxstar 210/280 and Dynasty 210/280. Light industrial, 4.9 L (1.3 gal.) cooler designed for water-cooled torches on power sources rated up to 280 amps\*.

## Coolmate™ 3 043007 120 V, CE 043008 240 V, CE

Economical, 11.4 L (3 gal.) cooler designed for water-cooled torches rated up to 500 amps\*.

## Coolmate™ 3.5 300245 120 V, CE

For Maxstar 400/800 and Dynasty 400/800. Industrial, 13.2 L (3.5 gal.) cooler designed for water-cooled torches rated up to 600 amps\*.

## Coolmate™ 4 042288 120 V

Best performer in its class — industrial, 15 L (4 gal.) cooler designed for water-cooled torches rated up to 600 amps\*.

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

## Coolant

Sold in multiples of four in 1-gallon recyclable plastic bottles. Miller® coolants contain a base of ethylene glycol and deionized water to protect against freezing to -38°C (-37° Fahrenheit) or boiling to 108°C (227° Fahrenheit).



## Low-Conductivity Coolant (clear, pre-mixed) 043810

For TIG and MIG applications. NOT for use in push-pull systems or systems where aluminum is in coolant path/circuit.

## Aluminum-Protecting Coolant (green, pre-mixed) 043809

Primarily used in push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.

Model	Motor Input Voltage	Maximum Current Draw	Maximum Cooling Capacity	IEC Cooling Capacity	Tank Capacity	Dimensions	Net Weight
Coolmate 1.3, CE	115 V, 60 Hz	4.7 A (60 Hz)	3,400 W (11,600 Btu/hr.) 3.6 L/min (.38 qt./min.)	1,330 W (4,540 Btu/hr.) 1 L/min. (1.1 qt./min.)	4.9 L (1.3 gal.)	H: 286 mm (11.25 in.) W: 264 mm (10.38 in.) D: 610 mm (24 in.)	20 kg (43 lb.)
Coolmate 3, CE	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	3,820 W (13,000 Btu/hr.) 4.0 L/min. (4.2 qt./min.)	1,420 W (4,840 Btu/hr.) 1 L/min. (1.1 qt./min.)	11.4 L (3 gal.)	H: 337 mm (13.25 in.) W: 311 mm (12.25 in.) D: 584 mm (23.25 in.)	18 kg (40 lb.)
	230 V, 50/60 Hz	2.5 A (50 Hz), 3.0 A (60 Hz)					
Coolmate 3.5, CE	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	4,140 W (14,000 Btu/hr.) 4.7 L/min. (5.0 qt./min.)	1,660 W (5,660 Btu/hr.) 1 L/min. (1.1 qt./min.)	13.2 L (3.5 gal.)	H: 298 mm (11.75 in.) W: 400 mm (15.75 in.) D: 660 mm (26 in.)	29 kg (64 lb.)
Coolmate 4	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	5,500 W (18,000 Btu/hr.) 5.6 L/min. (5.9 qt./min.)	1,780 W (6,070 Btu/hr.) 1 L/min. (1.1 qt./min.)	15 L (4 gal.)	H: 413 mm (16.25 in.) W: 387 mm (15.25 in.) D: 476 mm (18.75 in.)	17 kg (38 lb.)



## 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 Air Pak. Includes  
two heavy-duty Never Flat™  
381 mm (15 in.) tires, two  
203 mm (8 in.) rubber  
swivel casters and a heavy-  
duty handle. Recommended  
for all surfaces and

applications and is easy to move around the jobsite.



**Multi-Terrain Running Gear 300913** Inner tubes  
**300914** Never Flat™ tires

For gas/LP Bobcat and  
Trailblazer (except Air Pak  
models). Includes two  
heavy-duty 381 mm (15 in.)  
tires, two 203 mm (8 in.)  
rubber swivel casters and a

heavy-duty handle. Recommended for all surfaces and  
applications and is easy to move around the jobsite.



**Off-Road Running Gear 300909** Inner tubes

**300910** Never Flat™ tires  
For gas/LP Bobcat and  
Trailblazer (except Air Pak  
models). Includes four  
heavy-duty 381 mm (15 in.)  
tires and a rugged handle to  
provide maximum  
maneuverability.



**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).

**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.

Note: Not for use with LP Tank Mounting Assembly.  
Not recommended for use with Protective Cover.



**Hose and LP Tank  
Mounting Assembly 300917**

For LP Bobcat.  
**301458** For LP Trailblazer.  
Designed for use with  
Running Gear, Protective  
Cage, or by itself. Includes  
bracket and clamp to mount  
15 and 19.5 kg (33 and 43 lb.)

tanks horizontally, and hose with fittings to converter.  
Note: Cannot be used with Gas Cylinder Mounting Assembly.  
Not recommended for use with Protective Cover.



**Remote Oil Drain and Filter Kit 300923 Field**

For gas Bobcat and Trailblazer (except Air Pak models).  
Front mount for Kohler engines makes servicing easy when  
engine drive is mounted in tight spots.

### Bobcat and Trailblazer Accessories (Diesel)



**All-Purpose Running Gear  
with Never Flat™ Tires 300477**

For diesel Bobcat and  
Trailblazer. Includes two  
heavy-duty 381 mm (15 in.)  
tires, two 203 mm (8 in.)  
rubber swivel casters and a  
heavy-duty handle.

Recommended for all surfaces and applications and is easy  
to move around the jobsite.

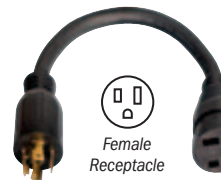


**Protective Cage with  
Cable Holders 195331**

For diesel Bobcat and  
Trailblazer. Rugged cage with  
cable holders protects your  
investment. Works with  
Running Gear, or with trailer.

Note: Not for use with Protective Cover.

### Generator Accessories



**Twist Lock Adapter Cord 301489**

For Fusion. L14-30R to  
NEMA 6-50R. Adapts  
engine drive 120/240-volt  
twist lock plug to common  
Millermatic and Spectrum  
240-volt plug.



Female  
Receptacle

**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.

### Protective Covers



Protective covers (300919) and (195301) shown.

#### Protective Covers

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

**301245** For Fusion and Blue Star.

**301475** For Bobcat 200 Air Pak **without** Running Gear.

**301476** For Bobcat 200 Air Pak **with** Running Gear.

**300919** For gas Bobcat and Trailblazer (except Air Paks)  
**without** Protective Cage or Running Gear.

**300920** For gas Bobcat and Trailblazer (except Air Paks)  
**with** Protective Cage or Running Gear.

**301099** For diesel Bobcat and Trailblazer  
**without** Protective Cage or Running Gear.

**300379** For Trailblazer 302 Air Pak.

**195301** For Big Blue 400 Pro/400 PipePro/450 Duo CST.

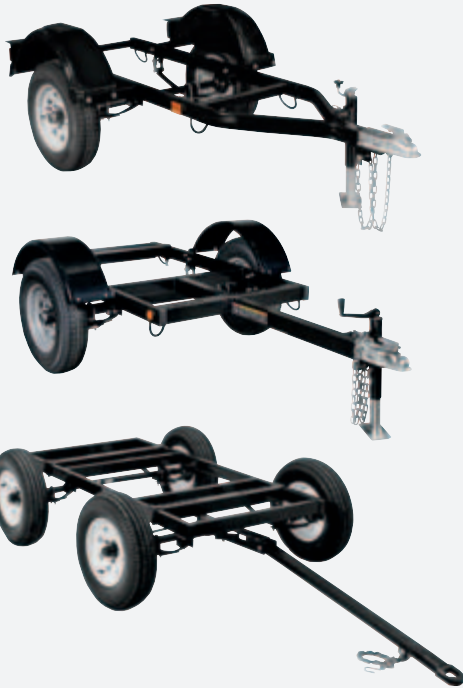
**301495** For Big Blue 500 Pro/600 Pro with Kubota.

**301113** For Big Blue 600 Air Pak/800 Series with Deutz.



## Trailers

See literature AY/20.0



### HWY-Mid Frame Trailer 301438

For Bobcat, Trailblazer, and Big Blue 400 Pro/400 PipePro/450 Duo CST models. A 646 kg (1,424 lb.) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye.

### HWY-225 Trailer 301338

For Big Blue models. A 1,225 kg (2,700 lb.) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye.

### 4 West Four-Wheel Steerable Off-Road Trailer 042801

For Big Blue 500 Pro/600 Series/800 Series. A heavy-duty 1,157 kg (2,550 lb.) capacity trailer designed for use in mines, quarries and other rough terrain. Has narrow 6.7 m (22 ft.) turning radius. Includes 76 mm (3 in.) lunette eye, universal hitch and safety chains.

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

## 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.



Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to Center of tires)	Standard Tires (Standard Rating or P-size Rating)	Dimensions	Net Weight
HWY-Mid Frame	728 kg (1,605 lb.)	646 kg (1,424 lb.)	646 kg (1,424 lb.)	495 mm (19.5 in.)	203 mm (8 in.)	1,168 mm (46 in.)	ST175/80D-13 Load Range C	L: 2,565 mm (101 in.) W: 1,397 mm (55 in.)*	82 kg (181 lb.)
HWY-225	1,588 kg (3,500 lb.)	1,360 kg (2,999 lb.)	1,225 kg (2,700 lb.)	483 mm (19 in.)	191 mm (7.5 in.)	1,270 mm (50 in.)	ST175/80R-13 Load Range D	L: 2,680 mm (105.5 in.) W: 1,435 mm (56.5 in.)*	127 kg (280 lb.)
4 West	907 kg/axle (2,000 lb./axle)	1,361 kg (3,000 lb.)	1,157 kg (2,550 lb.)	540 mm (21.25 in.)	203 mm (8 in.)	1,403 mm (55.25 in.)	B78-13	L: 2,311 mm (91 in.）** W: 1,556 mm (61.25 in.)	191 kg (420 lb.)

## 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

#### Aluminum Conversion Kit 172136

For M-25 gun. Allows 3 m (10 ft.) guns to feed 1.2 mm (3/64 in.) aluminum wire.



MIG kit (300405) shown.

#### Industrial MIG 4/0 Kit

**300390** For single feeders.

**300957** For dual feeders.

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

#### Industrial MIG 4/0 Kit with Dinse Connectors

**300405** For single feeders.

**300956** For dual feeders.

Same as above except weld and work cables have Dinse-style connector on one end instead of lug.

## MIGmatic™ M-Series Gun Consumable Kits

### For M-100 and M-150 guns

**234607** 0.6 m (.023 in.) wire

**234608** 0.8 m (.030 in.) wire

**234609** 0.9 m (.035 in.) wire

### For M-25 gun

**234610** 0.8 m (.030 in.) wire

**234611** 0.9 m (.035 in.) wire

**234612** 1.2 m (.045 in.) wire

M-100/M-150 kits include 10 contact tips, 1 tip adapter 1 standard nozzle and a consumable storage box.

M-25 kits add 1 nozzle adapter.

## Protective Covers



### 301262

For Millermatic 141/211 and Multimatic 215.



### 195142

For Millermatic 212 Auto-Set/252/350P/350P Aluminum and Syncrowave 210. Features side pocket.

## Plasma Cutter Accessories

### Automation Kits



#### Automation Kit for Spectrum 625 X-TREME 301158

Upgrades quick-connect hand-held torch packages to add machine torch capabilities.

Includes front panel with built-in remote control cable receptacle. Machine torches are NOT included in kits and must be ordered separately.



Automation kit (301157) shown.

#### Automation Kits for Spectrum 875 and 875 Auto-Line 301156 For Spectrum 875.

#### 301157 For Spectrum 875 Auto-Line.

Upgrades hand-held torch packages to add machine torch capabilities. Automation kit for Spectrum 875 Auto-Line (301157) includes a remote pendant control for manual on/off. Machine torches are NOT included in kits and must be ordered separately.

### Cables and Cable Covers



#### Flexible Work Cable

**234838** 6.1 m (20 ft.)

**234930** 15.2 m (50 ft.)

Work cable with quick connect and heavy-duty clamp.



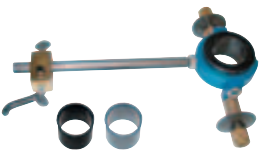
#### Cable Covers

**239642** 6.1 m (20 ft.)

**231867** 7.6 m (25 ft.)

**231868** 15.2 m (50 ft.)

### Cutting Guides



#### Plasma Circle-Cutting Guides 253055

For XT30C/XT30/XT40/XT60 torches. Cut straight lines or circles up to 305 mm (12 in.) in diameter.



#### Suction/Magnetic Pivot Base 195979

Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 762 mm (30 in.) in diameter.



#### Plasma Standoff Roller Guide 253054

Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

### Filters



#### In-Line Air Filter Kit 228926

For Spectrum 375 X-TREME/625 X-TREME/875/875 Auto-Line. Mounts to back of the plasma cutter. Includes male and female 6.4 mm (1/4 in.) NPT quick-disconnect fittings and hose for easy on/off connection. The replaceable filter element (228928) filters to .85 microns for removal of 99.9 percent of water, dirt and oil.



#### RTI Filter and Bracket 300491

For Spectrum 875/875 Auto-Line. Dryer will remove water, dirt and oil as small as one micron with 99.9 percent efficiency. Can be mounted on plasma cutter or on wall. Install as close as possible to point of air consumption. Replaceable filter element (212771).

### Plugs and Cords

#### MVP™ Plugs



#### 219258

For 6-50P power cable (230/240 V, 50 A).



#### 219261

For 5-15P power cable (115/120 V, 15 A).



#### 219259

For 5-20P power cable (115/120 V, 20 A).

For Spectrum 375 X-TREME, Millermatic 211, Multimatic, Thunderbolt 160, Diversion, Syncrowave 210 and Fusion. Allows connection of machine to 115/120 V or 230/240 V receptacles without tools – just choose the plug that fits.

#### MVP™ Adapters



Female Receptacle



#### 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.



Female Receptacle

#### Full KVA Adapter Cord 300517

NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

#### 230-Volt Extension Cord 770644

6.1 m (20 ft.) NEMA 6-50P to NEMA 6-50R heavy-duty extension cord. 8-gauge cord has lighted ends that show power is on and a molded, integrated strain relief.

### Protective Covers



#### Protective Cover 300388

For Spectrum 875.



#### X-CASE 300184

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

**301429** For Maxstar 161 models.

### Torches

See your Miller® distributor for complete information on the following XT plasma torches and their consumables:



#### Spectrum Plasma Cutter Hand-Held Torches

##### For Spectrum 375 X-TREME

**249949** 3.7 m (12 ft.) XT30

##### For Spectrum 625 X-TREME

**260633** 3.7 m (12 ft.) XT40

**260635** 6.1 m (20 ft.) XT40

##### For Spectrum 875 and 875 Auto-Line

**249953** 6.1 m (20 ft.) XT60

**249954** 15.2 m (50 ft.) XT60



#### Spectrum Plasma Cutter Machine Torches

##### For Spectrum 625 X-TREME

**259305** 7.6 m (25 ft.) long body XT40M

**257462** 7.6 m (25 ft.) short body XT40M

##### For Spectrum 875 and 875 Auto-Line

**249955** 7.6 m (25 ft.) long body XT60M

**249956** 15.2 m (50 ft.) long body XT60M

**257464** 7.6 m (25 ft.) short body XT60M

**263952** 15.2 m (50 ft.) short body XT60M



Each consumable kit includes a storage box.

#### Plasma Torch Consumable Kits

**253520** For XT30 torch. Includes 5 electrodes, 5 tips, 1 swirl ring, 1 retaining cup, 1 o-ring and silicone grease.

**253521** For XT40 torch. Includes 5 electrodes, 5 tips (40 A), 3 tips (30 A), 1 drag shield (40 A), 2 drag shields (30 A), 1 deflector, 1 o-ring, 1 swirl ring, 1 retaining cup, 1 gouge tip (40 A), 1 gouge shield and silicone grease.

**256033** For XT60 torch. Includes 3 standard electrodes, 3 standard tips, 1 drag shield, 1 deflector, 1 o-ring, 1 swirl ring, 1 retaining cup, 1 gouge tip, 1 gouge shield and silicone grease.

**127493** Empty consumable storage box.

## Polarity Switches/Controls

### Polarity Control 042871

This dual-function control is designed for use with dual wire feeders or any application where electrical isolation and/or polarity reversing of weld current is required. Both functions can be used at the same time.



### Process Selector Control 042872

For CC, CV or CC/CV welding power source. Provides easy way to change welding process. Also includes features of Polarity Control.

## Remote Controls

Also see Remote Controls in TIG Accessories.



### PRHC-14 Hand Control 195511

For all solid-state power sources after serial number JK674521. Complete current or voltage control brings 120 volts of GFCI power to work area in a single cord. Housed in a durable and light aluminum case and includes 38 m (125 ft.) cord with plugs.

### Remote On/Off Control 242197025

For Deltaweld, Dimension 452, and Gold Star. Allows you to turn power source on or off from a distance of 7.6 m (25 ft.). This is useful if power source is up in a mezzanine.

## Stick Accessory Kits



### No. 2 Stick Cable Sets

**195196** 4.6 m (15 ft.)

**300836** 15.2 m (50 ft.)

Consists of either 4.6 or 15.2 m electrode cable with holder and work cable with clamp. 200 A, 100% duty cycle.



### 2/0 Stick Cable Set

**173851** 15.2 m (50 ft.), 350 A

**043952** 30/15 m (100/50 ft.), 300 A

Consists of either 15.2 or 30 m 2/0 electrode cable with holder and 15.2 m work cable with clamp. 100% duty cycle.



### Weld Cables

**195457** 2/0 cable with electrode holder, 400 A

**195458** 2/0 cable with work clamp, 400 A

**301387** 1/0 cable with electrode holder, 250 A

Consists of a stud/Tweco® adapter and 3 m (10 ft.) weld cable with a Tweco male connector and either an electrode holder or work clamp.



### 2/0 Weld Cable Extensions

**195456** 15.2 m (50 ft.)

**195455** 30.5 m (100 ft.)

Extends weld cables

(**195457**, **195458** and **301387**).

## 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 Interface or Motor Control and drive motor.



### Continuum Motor/Control Cables

**263368015** 4.6 m (15 ft.)

**263368020** 6.1 m (20 ft.)

**263368025** 7.6 m (25 ft.)

**263368050** 15.2 m (50 ft.)

**263368080** 24.4 m (80 ft.)

**263368100** 30.5 m (100 ft.)

Cable between SubArc Motor Control and SubArc Remote Pendant.



### SubArc Parallel Cable

**260775015** 4.6 m (15 ft.)



### SubArc Tandem Cable

**260878015** 4.6 m (15 ft.)

## Torch Accessories

### OBT 600 Torch Body Extensions

**043967** 25.4 mm (1 inch)

**043969** 50.8 mm (2 inch)

**043973** 101.6 mm (4 inch)

**043975** 152.4 mm (6 inch)

### OBT 1200 Torch Body Extension 043981

Overall length with extension is 228.6 mm (9 inches).

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

### OBT Torch Contact Tips

OBT 600	OBT 1200	Wire Size
<b>192700</b>	<b>192141</b>	1.6 mm (1/16 in.)
<b>192701</b>	<b>199026</b>	2.0 mm (5/64 in.)
<b>192702</b>	<b>192142</b>	2.4 mm (3/32 in.)
<b>192703</b>	<b>200771</b>	2.8 mm (7/64 in.)
<b>192704</b>	<b>192143</b>	3.2 mm (1/8 in.)
<b>192705</b>	<b>192144</b>	4.0 mm (5/32 in.)
—	<b>192136</b>	4.8 mm (3/16 in.)

### 1200-Amp Twin-Wire Torch Contact Tips

**264595** 1.2 mm (3/64 in.)

**264596** 1.6 mm (1/16 in.)

**264597** 2.0 mm (5/64 in.)

**264588** 2.4 mm (3/32 in.)

## Wire Drive Assembly Accessories

### Drive Rolls

**132955** 1.6 mm (1/16 in.)

**132960** 2.0 mm (5/64 in.)

**132961** 2.4 mm (3/32 in.)

**132962** 2.8 mm (7/64 in.)

**132963** 3.2 mm (1/8 in.)

**193700** 4.0 mm (5/32 in.)

**193701** 4.8 mm (3/16 in.)



### Single-Wire Straightener 199733

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



### Twin-Wire Straighteners

**301160** Single adjustment

**301162** Double/separate adjustment

For 1200-amp twin-wire torch only.



### Manual Single Slide 301137

Provides smooth and accurate movement of the welding heads. Allows for 200 mm (7.87 inch) travel adjustment with load capacity of 100 kg (220 pounds) at 500 mm (1.64 feet). **Not recommended for tandem.**



### Wire Reel 108008

Supports 27 kg (60 lb.) coil of wire. Requires Spool Support Assembly (**119438**).



## TIG Accessories

### Kits



Contractor kit  
(301311) shown.

#### Contractor Kit

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



TIG contractor kit  
(301337) shown.

#### 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.



Torch kit  
(300990) shown.

#### Weldcraft™ Water-Cooled Torch Kits

**300185** 250 A, W-250 (WP-20)  
**300990** 280 A, W-280 (WP-280)  
**301268** 375 A, W-375  
**300186** 400 A, W-400 (WP-18SC)  
For Maxstar (except 161 models), Dynasty, and  
Syncrowave 250 DX/350 LX. Kit comes with 7.6 m (25 ft.)  
TIG torch with Dinse-style connector (thread-lock on  
400-amp kit), torch cable cover, work clamp with 4.6 m  
(15 ft.) cable [3.7 m (12 ft.) cable on 400-amp kit],  
flowmeter regulator with gas hose, and torch accessory kit.

### Protective Covers



Protective covers (300579) and (195478) shown.

**301429** X-CASE for Maxstar 161 models.  
**300579** For Diversion.  
**301381** For Maxstar 210.  
**301382** For Maxstar 280 and Dynasty 210/280.  
**195142** For Syncrowave 210.  
**195320** For Syncrowave 250 DX/350 LX.  
**195478** For XMT 304/350.

### Remote Controls



#### 14-Pin to 6-Pin Adapter Cord 300507

For Maxstar 161 STL/STH  
and Multimatic 200. 305 mm  
(12 in.) cord adapts Miller®  
14-pin foot control or fingertip  
control to a 6-pin plug.

**RCC-6M** (6-pin plug)  
**301118** 4 m (13.25 ft.) cord with plug  
For Maxstar 161 STL/STH and Multimatic 200.

**RCC-14** (14-pin plug)  
**151086** 8 m (26.5 ft.) cord with plug  
East/west rotary-motion fingertip current/contacter control  
attaches to TIG torch using two hook-and-loop fasteners.  
Great for production or contractors that need quick ramp-up.



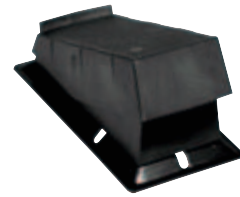
**RCCS-6M** (6-pin plug)  
**195184** 4 m (13.25 ft.) cord with plug  
**195503** 8 m (26.5 ft.) cord with plug  
For Maxstar 161 STL/STH and Multimatic 200.

**RCCS-RJ45**  
**301146** 4 m (13.25 ft.) cord with plug  
For Diversion and Multimatic 215.

**RCCS-14** (14-pin plug)  
**043688** 8 m (26.5 ft.) cord with plug  
North/south rotary-motion fingertip current/contacter control  
attaches to TIG torch using two hook-and-loop fasteners.  
Great for applications that require a finer amperage control.



**RFCS-RJ45** 300432  
For Diversion and Multimatic 215. Foot pedal current/  
contacter 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/contacter 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/contacter 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  
contacter 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 contacter control. Rubber-  
covered pushbutton dome switch ideal for repetitive on-off  
applications. Includes 8 m (26.5 ft.) cord with plug.



**RPBS-14** (14-pin plug) 300666  
Attaches to the TIG torch to remotely start and stop the TIG  
welding process. Includes 7.6 m (25-ft.) cord with plug.

## Wireless Remote Foot and Hand Controls

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

**Increases productivity, saves money, improves safety and easy to use.**



Wireless 14-pin receiver  
(included with both systems)

Wireless hand control

### Foot control

**Foot control is designed specifically for TIG welding** in manufacturing, fabrication and plant applications, allowing operator to adjust amperage at point of use without the limitations of remote cord.

**Auto on** feature extends the battery life up to 250 hours of welding without turning the pedal on and off.

**Easy-Glide Wear Pads™** glide across concrete, making it easy to reposition the pedal for comfort and speed.

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

**Improves productivity and maneuverability** by eliminating cord tangles. Reduces clean up time and work area cord clutter.

**Improves safety** by eliminating control cord and reducing potential trip hazard.

**Improves reliability** by eliminating control cord failure.

**Multiple frequency sharing** allows up to 20 systems to operate in a 27.4 m (90 ft.) radius with accuracy and precision – and without delay, system interference, or crosstalk.

**Easy-to-install receiver** plugs directly into the 14-pin receptacle of Miller® machines.

**Easily programmable.** Control can be quickly and easily paired with any other Miller 14-pin wireless receiver. (Control is preprogrammed when purchased with the receiver.)

### Hand control

**Hand control is designed for stick, TIG, MIG and flux-cored welding,** allowing operator to adjust parameters for different joint configurations, electrodes and wire types/sizes at the point of use instead of walking back to the machine.

**Allows parameter adjustments up to 91 m (300 ft.) away from welder** without returning to machine.

**Improves weld quality.** Operators can adjust their machines to optimize the parameters for different joint configurations, electrodes, and wire types and sizes.

**Smart Touch™ buttons** allow quick and accurate machine parameter adjustments.

**Digital meter display** allows presetting percentage of machine output before welding, and viewing amperage and voltage while welding.

### Industrial

#### Processes

- TIG (GTAW) ▪ Pulsed TIG (GTAW-P)

**The following processes are with hand control only**

- Stick (SMAW) ▪ MIG (GMAW)\*
- Flux-cored (FCAW)

*\*Only with voltage-sensing feeder.*

#### Comes complete with

- Wireless foot control (300429) **OR** hand control (300430) transmitter
- Wireless 14-pin receiver (300722)
- Battery box (249297)
- Three AA batteries
- Four Easy-Glide Wear Pads™ (for foot control only) (sold individually, 248274)
- Belt clip (for hand control only) (249233)

#### Suggested power sources



Look throughout this catalog for the icon above signifying compatibility with a wireless remote. For a complete power source compatibility list visit [MillerWelds.com/wireless](http://MillerWelds.com/wireless).

Model/Stock Number	Component	Power Supply	Battery Life	Rated Range*	Temperature	Radio Frequency	RF Power	Antenna	Dimensions	Weight
Wireless Foot Control System (300429)	Foot control (transmitter)	Three AA batteries	250 hours	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 (300430)	Hand control (transmitter)	Three AA batteries	250 hours	91 m (300 ft.)					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

### TIG Accessories (continued)

#### Torch and Weld Cable Connectors

##### Air-Cooled TIG (GTAW) Torch Connectors



**273483<sup>1,2</sup>**  
For Maxstar 161 and Multimatic.  
25 mm (small) Dinse-style gas thru for one-piece air-cooled torches.



**194723** A-200 (WP26)  
**194722<sup>2</sup>** All others  
For Syncrowave 210. 50 mm Dinse-style gas thru for one-piece air-cooled torches.



**195379** A-200 (WP26)  
**195378<sup>2</sup>** All others  
For CST, Maxstar 210/280/400, Dynasty 210/280/400, and Syncrowave 250 DX/350 LX. 50 mm Dinse-style for one-piece air-cooled torches.

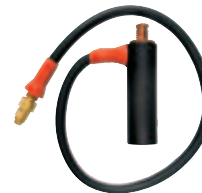
##### Water-Cooled TIG (GTAW) Torch Connectors



**50 mm Dinse-Style Flow Thru 195380**  
For Syncrowave 210.  
Used with all Weldcraft™ water-cooled torches.



**50 mm Dinse-Style with Water Return Line 195377**  
For Maxstar 210/280/400, Dynasty 210/280/400, and Syncrowave 250 DX/350 LX. Used with all Weldcraft™ water-cooled torches.



**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.

<sup>1</sup>Except A-200 (WP26) torch. <sup>2</sup>A-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 XR-Control, SuitCase 12RC feeder, 20 Series feeders, and 70 Series (except MPa Plus) feeders. For 14-pin remote controls/24 VAC wire feeders. 14-pin plug to a 14-pin socket. (Not for 115-volt XR or 50 Series feeders.)

#### 11-Conductor Cables

**247831025** 7.6 m (25 ft.)

**247831050** 15.2 m (50 ft.)

**247831080** 24.4 m (80 ft.)

For XR-AlumaFeed, MPa Plus feeders, and 60M feeders. Eleven conductors to support contactor control and remote voltage control on all Miller® electronic CV 14-pin power sources. Additional functions supported when using the Invision MPa or XMT MPa power sources include synergic pulsed MIG, remote process select and side select capabilities.

#### 14-Conductor Cables

**242205025** 7.6 m (25 ft.)

**242205050** 15.2 m (50 ft.)

**242205080** 24.4 m (80 ft.)

For HDC and WC-115 weld controls, XR Control prior to serial number KK309906, and 50 Series feeders. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

## Power Supply Adapter



### PSA-2 Control 141604

Required when using SuitCase 12RC, 20 Series, and 70 Series feeders with power sources having only 115-volt power available. Control is equipped with a 14-pin receptacle and a 3 m (10 ft.) interconnecting cable with Hubbell connections for older-style power sources. Can also be used with competitive power sources requiring a contact closure for contactor control.

### PSA-2 Extension Cord 047813

7.6 m (25 ft.) cord extends 3 m (10 ft.) cord supplied with PSA-2 control (4-pin to 4-pin connection).

## Spool Adapter

### 047141

For use with 6.4 kg (14 lb.) spool of Hobart or Lincoln self-shielding wire.

## Spool Gun Controls and Kits

For more information see literature M/1.5, M/1.73 and M/1.76.



### SGA 100 043856

Required to connect Spoolmate 3035 spool gun to any Millermatic 141/211. Also allows connection to virtually any similar MIG welder – Miller or other brands. Includes 3 m (10 ft.) 115-volt power cable with plug, 1.8 m (6 ft.) interconnecting cable, and 1.5 m (5 ft.) gas hose.



### SGA 100C 043857

SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like the Miller Bobcat. Includes 3 m (10 ft.) 115-volt power cable with plug, 1.8 m (6 ft.) interconnecting cable, and 1.5 m (5 ft.) gas hose.

interconnecting cable, and 1.5 m (5 ft.) gas hose.



### WC-115A Weld Control

**137 546** Without contactor

**137546011** With contactor

Operates on 115-volt power and designed primarily for constant-current DC power sources. Can also be used with constant-voltage

power sources or DC engine drives supplying 115 volts. Used with a CC source, the control circuit functions in a voltage-sensing mode and with a CV source, it functions as a constant-speed circuit. Includes wire run-in and drive motor acceleration controls which ensure optimum arc starting performance.



### WC-24 Weld Control 137549

For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Easily mounts on power source. Designed for use with Miller CV power sources with 14-pin receptacles and supplying 24 VAC.

## Spool Gun Extension Hose and Cable Kits

**132228** 7.6 m (25 ft.)

**132229** 15.2 m (50 ft.)

For Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

## Turntable Assembly

### 146236

Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

## Wire Straightener



For 20 Series and 70 Series.

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

**141581** For 1.6–3.2 mm (1/16–1/8 inch) wire.



# Engineered for Simplicity. Built for Durability.

## Design the perfect MIG guns for all your welds!

Improve welding productivity by choosing the neck length and angle, handle shape and trigger style that allows welders to comfortably and efficiently reach all your welds.

Plus, longer gun life and shared parts and consumables will help to simplify inventory and minimize costs across your shop.

For additional information, please contact your local welding distributor.

To request a catalog, please call or complete our online request form.





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