



2012 | FULL-LINE CATALOG

The Power of
Blue®

Your Success is Our Success.

You can count on Miller® for quality products built on industry experience and cutting-edge technology. Miller develops comprehensive welding systems for a wide variety of specific applications, and provides the responsive support to back them up. In short, we find solutions to your biggest welding challenges.

Our goal is to provide reliable, easy-to-use, innovative Miller equipment that decreases downtime and increases productivity. You can grow your business or improve your home shop with a total welding solution from Miller—your dedicated welding partner.

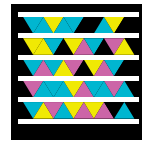
Enjoy the catalog!
To see list prices or find
your local distributor,
go to our website or
give us a call at:

1-800-4-A-Miller
(1-800-426-4553).

MillerWelds.com



What's New from Blue?



Scan this tag for a complete listing of new products.



13 AlumaPower™ 450 MPa
450-Amp MPa Power Sources



16 Invision™ 450 MPa



47 XMT® 450 MPa



36/38
Maxstar® 280 and Dynasty® 280



54
Bobcat™ Series



64
Big Blue® 450 Duo CST™



64
Big Blue® 700 Duo Pro



70
Spectrum® 375 X-TREME™ and 625 X-TREME™
with new XT Torches



74
FILTAIR™ 400 Industrial High-Vacuum System



76
PAPR with Titanium 9400i™ Helmet

Get More on Your Mobile!

With Microsoft® Tags, Miller lets you instantly access more information from your web-enabled camera phone.

Start by downloading the free mobile app at <http://gettag.mobi>

1 FIND A TAG

Look for tags throughout the catalog near products of interest.



Microsoft Tag Reader is not available on all mobile phones. There are no charges to use the software, but individual carrier rates may still apply.

2 SCAN A TAG

Open the TagReader app and center the tag on your screen. (On some devices, you may need to click "scan" and snap a picture.)



3 GET MORE

Gain instant access to additional content, such as videos, product details, etc.



HELP ME CHOOSE

If you're not familiar with welding basics, the following information can make choosing a machine easier. For interactive, highly informative assistance, go to MillerWelds.com.

1 Pick Your Welding or Cutting Process

Select the process that matches the metals you want to weld or cut.

Metal Type	Stick	MIG	FCAW	SAW	AC-TIG	DC-TIG	Resistance Spot	CAC-A AC	CAC-A DC	Plasma
Steel	●	●	●	●		●	●		●	●
Stainless Steel	●	●	●	●		●	●		●	●
Nickel Alloys	●	●				●	●			●
Aluminum		●			●				●	●
Cast Iron	●								●	●
Copper, Brass		●				●		●		●
Titanium						●				●
Magnesium Alloys					●					●
All Electrically Conductive										●
Skill Level	Moderate	Low	Low	Moderate	High	High	Low	Moderate	Moderate	Low
Key: ● Recommended	Welding Process						Cutting Process			

2 Understand Process Advantages

Unfortunately, there is no single welding or cutting process suitable for all applications. For this reason, it is necessary to consider the advantages of one process over another.

Welding Process



Stick (SMAW)

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



MIG (GMAW)

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

Pulsed MIG (GMAW-P)

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



Flux-Cored (FC)

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



Resistance Spot

- Portable, easy-to-operate welder for light industrial applications



Submerged Arc (SAW)

- High deposition rates can enhance weld speed and production
- Excellent mechanical properties for high-quality code and X-ray requirements
- Improves welding operator comfort and appeal—arc is below bed of flux



TIG (GTAW)

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

Pulsed TIG (GTAW-P)

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

Cutting Process



Air Carbon Arc Cutting and Gouging (CAC-A)

- Wide variety of metals
- Removes discontinuities or inferior welds



Plasma Arc Cutting and Gouging (PAC)

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

3 Pick your Power and Portability Needs

What should I know about duty cycle?

Duty cycle is the amount of time during a 10-minute period that the welder can continuously operate at its rated output without causing heat damage to the system. For example, a Millermatic 252 has 60 percent duty cycle at 200 amps of DC output. It can weld for six minutes out of 10 and then needs to cool for the remaining four minutes.

For applications requiring extensive arc-on time and/or welding at high amperages, choose a welder with a higher duty cycle, such as a Deltaweld 452 with 450 amps of DC output at 100 percent duty cycle. If a welder is operated below its rated output, the duty cycle typically increases.

How much welding or cutting output power do I need?

● **Light Industrial** products are suitable for the home hobbyist or occasional user. Designed to be easy to operate, affordably priced and typically have a 20 percent duty cycle and rated output of 230 amps or lower.

● **Industrial** products are suitable for applications that do not require high-volume production and typically have a 40–60 percent duty cycle and/or rated output of 300 amps or lower. Appropriate choice for professional welders.

● **Heavy Industrial** products typically have a duty cycle of 60–100 percent and a rated output of at least 300 amps, making them suited to high-volume production and/or welding of thicker materials. Designed with the arc characteristics and product features professional welders demand for code-quality work.

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

Generator power


Out in the field, you may need an engine-driven welder/generator to supply 120 or 240 VAC power to run tools, lights and to start motors. Miller® engine drives are packed with power and the larger units even offer option packages that add 10 to 20 kW of generator power.

What kind of input power do I have available?

To select the right product, you need to know the type of primary power available.

1 Phase Single-phase products require single-phase input power, typically found in homes and garages.

3 Phase Three-phase products require three-phase input power which is common in industrial settings, but shops can be specially wired to supply three-phase, industrial power.

 For locations where an electrical hook-up is not practical, consider a gas or diesel-powered, engine-driven welder/generator to supply welding and generator power.

Is portability needed?

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

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

Power Icons

1 Phase Unit requires single-phase input power

3 Phase Unit requires three-phase input power

AC Unit supplies alternating current weld output

DC Unit supplies direct current weld output

AC/DC Unit supplies alternating current and direct current weld output

CC Unit supplies constant-current weld output

CV Unit supplies constant-voltage weld output

CC/CV Unit supplies constant-current and constant-voltage weld output

4 Check Out the Product Guides

The Product Guides (start of each major section) contain a list of Miller® power sources for that process section.

Note: Visit MillerWelds.com for the most current information.

5 Go to Product Descriptions

Each color-coded section is identified by a primary process icon and title.

For more product specifications, give the product name and literature number to your distributor, visit us on the Web at MillerWelds.com or call 1-800-4-A-MILLER.

Note: Product specifications subject to change without notice.



The image shows a product page for the Millermatic 140 Auto-Set MIG welder. It features a large image of the welder and its accessories. The page is divided into several sections: 'Working Capability' with a table of specifications, 'EXCLUSIVE! Auto-Set' features, 'Infinite voltage adjustment', 'Tip saver', 'Smooth-Start', and 'Heavy-duty aluminum drive system'. There is also a 'Recommended Accessories' section and a 'Most Popular Accessories' list. At the bottom, there is a table with columns for 'Stock Number', 'Process', 'Rated Output', 'Input', 'Welding Speed', 'Wire Feed Speed', 'Wire Type and Diameter', 'Welding', and 'Net Weight'. The table lists specifications for MIG, Stick, and Flux-Cored welding processes.

Listing of recommended processes. Colored bullets indicate power classification. Power icons indicate power supplied or required. See descriptions above.

Brief listing of most popular accessories. Refer to pages listed for more details.

MIG GMAW



MillerWelds.com/MIG

Product Guide

	Page	Class	MIG	MIG-P	Flux-Cored*	CAC-A	Portability	Weldable Metals	Welding Output Range	Special Features	Typical Applications	
1-Phase	Millermatic® 140 Auto-Set™	8	●	●	●		Handle, optional running gear	Steel, stainless, aluminum	30-140 A	115 VAC input, Auto-Set™ Smooth-Start™	Up to 3/16 in.** maintenance/repair, auto body, hobby	
	Millermatic® 180 Auto-Set™	8	●	●	●				30-180 A	230 VAC input, Auto-Set™ Smooth-Start™	Up to 5/16 in.*** maintenance/repair, auto body, hobby	
	Millermatic® 211 Auto-Set™ w/MVP™	9	●	●	●				30-210 A	Welds on 115 or 230 VAC input, Auto-Set™ Smooth-Start™	Up to 3/8 in.*** maintenance/repair, auto body, hobby	
	Millermatic® Passport® Plus	9	●	●	●		Handle	30-180 A	Welds on 115 or 230 VAC input, includes 12-oz. gas cylinder inside power source	Up to 3/8 in.*** maintenance/repair, fabrication, auto body, farm/home, construction		
	Millermatic® 212 Auto-Set™	10	●	●	●		Installed running gear	30-210 A	Fan-On-Demand™ Gun-On-Demand™	Up to 3/8 in.*** fabrication, farm, garage/body shops		
	Millermatic® 252	10	●	●	●			30-300 A	Standard timers menu, Fan-On-Demand™ can connect MIG gun, push-pull gun, or spool gun	Up to 1/2 in.*** industrial production/fabrication, farm		
1- and 3-Phase	Millermatic® 350P	11	●	●	●		Installed running gear	Steel, stainless, aluminum	25-400 A	Can connect standard MIG gun, push-pull gun, or spool gun	Up to 1/2 in.*** industrial production/fabrication Pulsed MIG ideal for thin gauge aluminum	
	AlumaFeed™ Synergic Aluminum Welding System	13	●	●	●		Handles, optional cart, MIGRunner	Aluminum	5-600 A 10-38 V	Choice of power source, Profile Pulse, lightweight feeder can be carried up to 100 ft. from power source	Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding	
	Invision™ 350 MPa Plus System	16	●	●	●		Handles, optional cart, MIGRunner	Most metals	5-425 A 10-38 V	Alumination™ allows push/pull gun, optimized with 74 MPa Plus wire feeder	Manufacturing and production	
	XMT® Series	46	●	See the Multiprocess section on page 44.								
3-Phase	CP-302	15	●	●	●		Lift eye, optional running gear, MIGRunner	Most metals	14-44 V	Hi/Lo stabilizer, power efficient	Equip/auto mfg, metal fab, construction, agri equipment	
	Delta-Fab™ System	15	●	●	●				10-45 V	Material-specific output terminals	Light to medium fabrication, manufacturing	
	Deltaweld® 302	15	●	●	●				15-32 V	Power efficient, material-specific output terminals	Equip/auto mfg, metal fab, construction, agri equipment	
	Deltaweld® 452	15	●	●	●	1/4"			15-38 V	Power efficient, material-specific output terminals	Equip/auto mfg, metal fab, construction, agri equipment	
	Deltaweld® 652	15	●	●	●	3/8"			15-44 V	Power efficient, material-specific output terminals	Equip/auto mfg, metal fab, construction, agri equipment	
	Invision™ 450 MPa Plus System	16	●	●	●	1/4"	Handles, optional cart MIGRunner		15-600 A 10-38 V	Alumination™ allows push/pull gun. Optimized with 74 MPa Plus wire feeder	Manufacturing and production	
	Access® 300	18	●	●	●		Optional cart, MIGRunner		10-44 V	Auto-Line™ Accu-Pulse™	Manufacturing and production	
	Access® 450	18	●	●	●	1/4"			10-44 V	Auto-Line™ Accu-Pulse™	Manufacturing and production	
	Access® 675	18	●	●	●	3/8"			10-44 V	Auto-Line™ Accu-Pulse™	Manufacturing and production	
	Dimension™ Series	45	●	See the Multiprocess section on page 44.								
	PipeWorx™ System	49	●	See the PipeWorx Welding System on page 49.								

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. *If using self-shielded wire on a CC/CV machine, use CV weld output. **In a single pass using self-shielded wire. ***In a single pass.

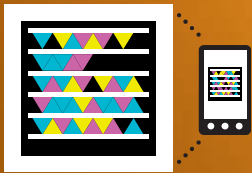
For more detailed information, see individual product literature sheets.



Millermatic® Series

Whether it's thick steel or thin aluminum, conventional MIG or Pulsed MIG, the Millermatic line combines easy-to-use features with ultimate arc performance to give you the best all-in-one MIG welders in the industry.

Scan this tag to see videos on Millermatic features.



Auto-Set™ Available on Millermatic 140, 180, 211, and 212.

The right setting automatically.

- Set the wire diameter, a blue light shows that Auto-Set is activated
- Dial in the thickness of what you're welding
- Start welding with the exact parameters you need!



No more burnthrough and rework. Correct Auto-Set parameters make it easy to get quality welds, every time.

Weld flexibility with infinite voltage control. You also have the flexibility to manually adjust weld parameters to the exact settings you want. This comes in handy for broader welding applications such as aluminum or stainless steel.

Aluminum solutions. Whether you purchase a Millermatic 140 Auto-Set and a Spoolmate™ 100 Series spool gun or a Millermatic 350P with an Aluma-Pro™ push-pull gun, the entire Millermatic product line now offers an aluminum solution for your application.

Material thickness gauge.

To help select parameters every Millermatic that features Auto-Set now comes with a material thickness gauge.



Aluminum drive systems. Every Millermatic features a heavy-duty aluminum drive system designed to provide superior feeding and durability. The toolless, quick-change reversible drive rolls and easy-to-set scaled tension knob make them the easiest to use in the industry.

Thermal overload protection. Designed to protect your investment, every Millermatic is now equipped with built-in thermal overload protection... not that you'll need it.

Setup and operation CD. Miller makes it easy to get started. Every Millermatic comes standard with a CD that goes through the basics of how to set up and operate your machine to get optimal results.

True Blue® 3-year warranty. You should never have an issue with your Millermatic... but just in case. Welder is warranted for three years, parts and labor. Original main power rectified parts are warranted for five years. Gun is warranted for 90 days parts and labor.



Product selection made easy!

An online product selection tool designed specifically for the personal user or light fabricator. With this tool, customers can simply select their process, answer a few questions, and find the right welder or plasma cutter for their needs. It's easy, it's fast, it's smart – it's the Smart Selector. Check it out at MillerWelds.com/select

Millermatic® Product Selector

Machine	Thickness of Mild Steel MIG Welded in a Single Pass					Features	
	Thin Gauge	3/16 in.	1/4 in.	5/16 in.	3/8 in.		1/2 in.
Millermatic® 350P		200/230/460 VAC 300 A at 60% Duty Cycle, 1-Phase or 3-Phase					<ul style="list-style-type: none"> ▪ Pulsed MIG ▪ Push-Pull Gun / Spool Gun Ready ▪ Millermatic Reach Wire Feeder Compatible
Millermatic® 252		208/230 VAC or 230/460/575 VAC 200 A at 60% Duty Cycle					<ul style="list-style-type: none"> ▪ Standard Timers Menu ▪ Push-Pull Gun / Spool Gun Ready for Alum Apps ▪ Millermatic Reach Wire Feeder Compatible
Millermatic® 212 Auto-Set™		208/230 VAC 160 A at 60% Duty Cycle					<ul style="list-style-type: none"> ▪ Auto-Set™ ▪ Gun-On-Demand™ ▪ Spool Gun Ready for Aluminum Applications ▪ Millermatic Reach Wire Feeder Compatible
Millermatic® Passport® Plus		115 VAC: 110 A at 20% Duty Cycle		230 VAC 150 A at 20% Duty Cycle			<ul style="list-style-type: none"> ▪ MVP™ Plug ▪ Only 45 Pounds ▪ Auto-Line™ ▪ Spool Gun Ready
Millermatic® 211 Auto-Set™ w/MVP™		120 VAC: 90 A at 20% Duty Cycle		230 VAC 150 A at 30% Duty Cycle			<ul style="list-style-type: none"> ▪ MVP™ Plug ▪ Auto-Set™ ▪ Dual Voltage Input ▪ Spool Gun Ready
Millermatic® 180 Auto-Set™		230 VAC 135 A at 30% Duty Cycle					<ul style="list-style-type: none"> ▪ Auto-Set™ ▪ Spool Gun Compatible
Millermatic® 140 Auto-Set™		115 VAC 90 A at 20% Duty Cycle					<ul style="list-style-type: none"> ▪ Auto-Set™ ▪ Spool Gun Compatible



Millermatic® 140 Auto-Set™ See Literature No. DC/12.42



Recommended Aluminum Solution
Spoolmate 100 Series (#300 371).

**Dimensions and net weight are for machine only.*

Welding Capability

Max. 3/16 in. (4.8 mm)	Max. 14 ga. (1.9 mm)
Mild Steel	Aluminum
Min. 24 ga. (0.8 mm)	Min. 18 ga. (1.2 mm)

Aluminum welding uses optional Spoolmate 100 Series spool gun and 4043 Series aluminum wire.

EXCLUSIVE! Auto-Set™ feature makes setup quick and easy. On the Millermatic 140, Auto-Set works with .024- and .030-inch diameter solid steel wire (for more info see page 7).

Infinite voltage adjustment provides broader operating range with finer control than a tap machine.

"Tip saver" shuts down output when tip is shorted to the work. Extends contact tip life and protects internal components from damage.

Smooth-Start™ technology provides smooth, spatter-free starts – no pop gun starts and no spatter to clean up.

Heavy-duty aluminum drive system (for more info see page 7).

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

Light Industrial ● **CV DC 1** Phase

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Comes Complete With

- 10-ft. (3 m) M-100 MIG gun and cable assembly (#248 282)
- 10-ft. (3 m) work cable with clamp
- 6-ft. (1.8 m) power cord with plug
- Factory-installed gas solenoid valve
- Smith® regulator and gas hose
- Dual groove quick-change drive rolls for .024-in. (0.6 mm) or .030/.035-in. (0.8/0.9 mm) wire
- Extra contact tips, spool of Hobart® solid wire, information/settings chart, setup/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Spoolmate™ 100 Series #300 371 (pg 25)
- Running Gear/Cylinder Rack (pg 81) Standard #300 425 Premium #770 187
- Protective Cover #195 149 (pg 84)

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

Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz			Wire Feed Speed	Wire Type and Diameter	Dimensions*	Net Weight*
			115 V	KVA	KW				
#907 335 115 V #951 373 115 V with Std. Running Gear/Cyl. Rack	30-140	90 A at 18 VDC, 20% Duty Cycle	20	2.8	2.4	15-390 IPM (0.4-9.9 m/min.)	Solid Steel .024-.030 in. (0.6-0.8 mm) Stainless .024-.030 in. (0.6-0.8 mm) Flux-Cored .030-.035 in. (0.8-0.9 mm)	H: 15.75 in. (400 mm) W: 10.625 in. (270 mm) D: 17.5 in. (445 mm)	60 lb. (27 kg)

Millermatic® 180 Auto-Set™ See Literature No. DC/12.44



Recommended Aluminum Solution
Spoolmate 100 Series (#300 371).

**Dimensions and net weight are for machine only.*

Welding Capability

Max. 5/16 in. (7.9 mm)	Max. 1/4 in. (6.4 mm)
Mild Steel	Aluminum
Min. 24 ga. (0.8 mm)	Min. 18 ga. (1.2 mm)

Aluminum welding uses optional Spoolmate 100 Series spool gun and 4043 Series aluminum wire.

Welds thickest material in its class – up to 5/16 inch (7.9 mm) in a single pass!

EXCLUSIVE! Auto-Set™ feature makes setup quick and easy. On the Millermatic 180, Auto-Set works with .024- and .030-inch diameter solid steel wire (for more info see page 7).

Infinite voltage adjustment provides broader operating range with finer control than a tap machine.

"Tip saver" shuts down output when tip is shorted to the work. Extends contact tip life and protects internal components from damage.

Smooth-Start™ technology provides smooth, spatter-free starts – no pop gun starts and no spatter to clean up.

Heavy-duty aluminum drive system (for more info see page 7).

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

Light Industrial ● **CV DC 1** Phase

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Comes Complete With

- 10-ft. (3 m) M-100 MIG gun and cable assembly (#248 282)
- 10-ft. (3 m) work cable with clamp
- 6-ft. (1.8 m) power cord with plug
- Factory-installed gas solenoid valve
- Smith® regulator and gas hose
- Dual groove quick-change drive rolls for .024-in. (0.6 mm) or .030/.035-in. (0.8/0.9 mm) wire
- Extra contact tips, spool of Hobart® solid wire, information/settings chart, setup/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Spoolmate™ 100 Series #300 371 (pg 25)
- Running Gear/Cylinder Rack (pg 81) Standard #300 425 Premium #770 187
- Protective Cover #195 149 (pg 84)

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

Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz			Wire Feed Speed	Wire Type and Diameter	Dimensions*	Net Weight*
			230 V	KVA	KW				
#907 312 230 V #951 374 230 V with Std. Running Gear/Cyl. Rack	30-180	135 A at 22.5 VDC, 30% Duty Cycle	21.7	5.0	4.1	60-540 IPM (1.5-13.7 m/min.)	Solid Steel .024-.035 in. (0.6-0.9 mm) Stainless .024-.035 in. (0.6-0.9 mm) Flux-Cored .030-.045 in. (0.8-1.2 mm)	H: 15.75 in. (400 mm) W: 10.625 in. (270 mm) D: 17.5 in. (445 mm)	72 lb. (33 kg)



Millermatic® 211 Auto-Set™ with MVP™

See Literature No. DC/12.54

Welding Capability

Max. 3/8 in. (9.5 mm)	Max. 3/8 in. (9.5 mm)
Mild Steel	Aluminum
Min. 24 ga. (0.8 mm)	Min. 18 ga. (1.2 mm)

Aluminum welding uses optional Spoolmate 100 Series spool gun and 4043 Series aluminum wire.



Recommended Aluminum Solution
Spoolmate 100 Series (#300 371).

*Dimensions and net weight are for machine only.

Welds thickest material in its class – up to 3/8 inch (9.5 mm) in a single pass!

EXCLUSIVE! Auto-Set™ feature makes setup quick and easy. On the Millermatic 211, Auto-Set works with .030- and .035-inch diameter solid steel wire (for more info see page 7).

Infinite voltage adjustment provides broader operating range with finer control than a tap machine.

Multi-voltage plug (MVP™) allows connection to 115 or 230 V receptacles without tools. **“Tip saver”** shuts down output when tip is shorted to the work. Extends contact tip life and protects internal components from damage.

Smooth-Start™ technology provides smooth, spatter-free starts – no pop gun starts and no spatter to clean up.

Heavy-duty aluminum drive system (for more info see page 7).

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

Light Industrial ● **CV DC 1**
Phase

Processes

▪ MIG (GMAW) ▪ Flux-Cored (FCAW)

Comes Complete With

- 10-ft. (3 m) M-100 MIG gun and cable assembly (#248 282)
- 10-ft. (3 m) work cable with clamp
- 6-ft. (1.8 m) power cord and MVP™ adapter plugs for 115 V and 230 V
- Factory-installed gas solenoid valve
- Smith® regulator and gas hose
- Dual groove quick-change drive rolls for .024-in. (0.6 mm) or .030/.035-in. (0.8/0.9 mm) wire
- Extra contact tips, spool of Hobart® solid wire, information/settings chart, setup/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Spoolmate™ 100 Series #300 371 (pg 25)
- Running Gear/Cylinder Rack (pg 81) Standard #300 425 Premium #770 187
- Protective Cover #195 149 (pg 84)

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

Stock Number	Input Power	Amperage Range	Rated Output at 20% Duty Cycle	Amps Input at Rated Output, 60 Hz				Wire Feed Speed	Wire Type and Diameter	Dimensions*	Net Weight*
				120 V	230 V	KVA	KW				
#907 422 120/230 V #951 375 120/230 V w/Std. Running Gear/ Cyl. Rack	120 VAC	30-140	90 A at 20 V at 20% Duty Cycle	20	–	2.9	2.5	60-540 IPM (1.5-13.7 m/min.)	Solid Steel .024-.035 in. (0.6-0.9 mm) Stainless .024-.035 in. (0.6-0.9 mm) Flux-Cored .030-.045 in. (0.8-1.2 mm)	H: 15.75 in. (400 mm) W: 10.625 in. (270 mm) D: 17.5 in. (445 mm)	74 lb. (33.6 kg)
	230 VAC	30-210	150 A at 23.5 V at 30% Duty Cycle	–	24.3	5.5	4.8				

Millermatic® Passport® Plus

See Literature No. DC/12.53

Welding Capability

Max. 3/8 in. (9.5 mm)	Max. 1/4 in. (6.4 mm)
Mild Steel	Aluminum
Min. 24 ga. (0.8 mm)	Min. 18 ga. (1.2 mm)

Aluminum welding uses optional Spoolmate 100 Series spool gun and 4043 Series aluminum wire.



Recommended Aluminum Solution
Spoolmate 100 Series (#300 371).

Portability is #1 because not all jobs can come to you. Weighing only 45 pounds and running either on 115 or 230 V, the Passport Plus is great for steel, aluminum and stainless steel jobs you need to go to.

Multi-voltage plug (MVP™) allows connection to 115 or 230 V receptacles without tools.

Excellent arc characteristics! Unit offers positive arc starts and an extremely stable arc with minimal spatter on both mixed gases and straight CO₂.

Flexibility to use either external or internal gas cylinder. Self-contained gas cylinder provides 25 minutes of arc time or about 25 feet of weld on 3/16-inch thick material with .030-inch mild steel wire.

Auto-Line™ provides state-of-the-art flexibility, automatically connecting to 115/230 VAC, single-phase power.

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

Light Industrial ● **CV DC 1**
Phase

Processes

▪ MIG (GMAW) ▪ Flux-Cored (FCAW)

Comes Complete With

- 10-ft. (3 m) M-100 MIG gun and cable assembly #248 282
- 10-ft. (3 m) work cable with clamp
- 10-ft. (3 m) power cord and MVP™ adapter plugs for 115 and 230 V
- One CO₂ gas cylinder (empty)
- Dual-groove, quick-change drive rolls for .024-in. (0.6 mm) and .030/.035-in. (0.8/0.9 mm) wire
- Two contact tips for .024-in. (0.6 mm) wire and two for .030-in. (0.8 mm) wire

Most Popular Accessories

- Spoolmate™ 100 Series #300 371 (pg 25)
- MVP™ Plugs (pg 86)
- CO₂ Gas Cylinder (empty) #195 272

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

Stock Number	Input Power	Amperage Range	Rated Output at 20% Duty Cycle	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight
				115 V	230 V	KVA	KW				
#907 401 115/230 VAC	115 VAC	30-140	110 A at 19.5 V	20	–	2.7	2.7	40-400 IPM (1.0-10 m/min.)	Solid Steel .024-.035 in. (0.6-0.9 mm) Stainless .024-.035 in. (0.6-0.9 mm) Flux-Cored .030-.035 in. (0.8-0.9 mm)	H: 15.5 in. (394 mm) W: 12 in. (305 mm) D: 20.5 in. (520 mm)	45 lb. (20.4 kg)
	230 VAC	30-180	150 A at 21.5 V	–	20	4.0	3.8				



Millermatic® 212 Auto-Set™

See Literature No. DC/12.46



Recommended Aluminum Solution
Spoolmate 200 Series (#300 497).

Welding Capability

Max. 3/8 in. (9.5 mm)	Max. 3/8 in. (9.5 mm)
Mild Steel	Aluminum
Min. 22 ga. (0.9 mm)	Min. 14 ga. (1.9 mm)

Aluminum welding uses optional Spoolmate 200 Series spool gun.

EXCLUSIVE! Auto-Set™ feature makes setup quick and easy. On the Millermatic 212, Auto-Set works with .030- and .035-in. diameter solid steel wire (for more info see page 7).

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

Fan-On-Demand™ cooling system only operates when needed reducing power consumption.

Compatible with Spoolmate™ 200 Series spool gun with wire feed speed control on the gun. Saves time by reducing trips back to the machine. Also compatible with the more industrial Spoolmatic® 15A or 30A spool gun.

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 (for more info see page 7).

Industrial ● **CV DC 1**
Phase

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Comes Complete With

- 15-ft. (4.5 m), 250-amp M-25 gun
- 10-ft. (3 m) work cable with clamp
- 7-ft. (2.1 m) power cord and plug
- Smith® argon mix regulator/flow gauge and gas hose
- Factory-installed running gear/cylinder rack
- .030/.035-in. reversible dual-groove drive rolls
- Extra contact tips, setup/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Millermatic® Reach Wire Feeder #907 438 (pg 24)
- Spoolmate™ 200 Series Spool Gun for aluminum welding #300 497 (pg 25)
- Dual EZ Cyl. Rack #300 337 (pg 81)
- Elevated Gun and Cable Rack #300 335 (pg 81)
- Protective Cover #195 142 (pg 84)

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

Stock Number (#907 405) 200(208)/230 V (#951 177) 200(208)/230 V with Spoolmate 200 Series, Regulator, Gas Hose and Dual Cylinder Rack,	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz				Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight
			200 V	230 V	KVA	KW				
	30-210	160 A at 24.5 VDC, 60% Duty Cycle	31	28	6.2	5.2	50-700 IPM (1.3-17.8 m/min.)	Solid Steel .023-.035 in. (0.6-0.9 mm) Stainless .023-.035 in. (0.6-0.9 mm) Flux-Cored .030-.045 in. (0.8-1.2 mm)	H: 30 in. (762 mm) W: 19 in. (483 mm) D: 40 in. (1016 mm)	183 lb. (83 kg)

Millermatic® 252

See Literature No. DC/12.49



Recommended Aluminum Solution
Spoolmatic 15A (#195 156) or 30A (#130 831).

Welding Capability

Max. 1/2 in. (13 mm)	Max. 3/8 in. (9.5 mm)
Mild Steel	Aluminum
Min. 22 ga. (0.9 mm)	Min. 14 ga. (1.9 mm)

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.

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

Superior aluminum MIG welding with direct connection of optional XR push-pull guns, Spoolmatic 15A/30A and Spoolmate 200 Series spool guns. No extra module to buy or install.

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 (for more info see page 7).

Fan-On-Demand™ cooling system only operates when needed reducing power consumption.

Industrial ● **CV DC 1**
Phase

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Comes Complete With

- 15-ft. (4.5 m), 250-amp M-25 gun
- 10-ft. (3 m) work cable with clamp
- 10-ft. (3 m) industrial power cord (and plug on 200/230 V model)
- Factory-installed gas solenoid
- Smith® argon mix regulator/flow gauge and gas hose
- Factory-installed running gear/cylinder rack
- .030/.035-in. reversible dual-groove drive rolls
- Extra contact tips, setup/operation CD

Most Popular Accessories

- XR™-A Push-Pull Guns (pg 11/26/27)
- Millermatic® Reach Wire Feeder #907 438 (pg 24)
- Spoolmate™ 200 Series and Spoolmatic® 15A/30A Spool Guns for aluminum welding (pg 25/26)
- Dual EZ-Change™ Low Cylinder Rack #300 337 (pg 81)
- Protective Cover #195 142 (pg 84)

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

*With Spoolmatic 30A, Regulator, Gas Hose and Dual Cylinder Rack.

Model/Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz						Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight
			200 V	230 V	460 V	575 V	KVA	KW				
(#907 321) 200(208)/230 V (#951 066*) 200(208)/230 V	30-300	200 A at 28 VDC, 60% Duty Cycle	48	42	-	-	9.5	7.5	50-700 IPM (1.3-17.8 m/min.)	Solid Steel .023-.045 in. (0.6-1.2 mm) Stainless .023-.045 in. (0.6-1.2 mm) Flux-Cored .030-.045 in. (0.8-1.2 mm)	H: 30 in. (762 mm) W: 19 in. (483 mm) D: 40 in. (1016 mm)	205 lb. (94 kg)
(#907 322) 230/460/575 V (#951 065*) 230/460/575 V		250 A at 28 VDC, 40% Duty Cycle	-	46	23	18	9.5	7.5				



Millermatic® 350P

See Literature No. DC/12.51

Industrial **CV DC 3 1**
Phase Phase

Processes

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

Comes Complete With

- 15-ft. (4.5 m) Bernard® Q300 MIG gun with Centerfire™ consumables
- 10-ft. (3 m) work cable with clamp
- 10-ft. (3 m) industrial power cord (without plug) for single- or three-phase
- Factory-installed gas solenoid
- Smith® argon mix regulator/flow gauge with hose
- Factory-installed, low-mounted running gear/cylinder rack
- .035/.045-in. reversible V-groove drive rolls (order U-groove drive rolls for aluminum welding)
- Extra contact tips, setup/operation CD

Most Popular Accessories

- Millermatic® Reach Wire Feeder #907 438 (pg 24)
- Spoolmatic® 15A/30A Spool Guns for aluminum welding (pg 26)
- XR™-A Push-Pull Guns (see below/pg 26/27)
- Dual Cylinder Rack #195 299 (pg 81)
- Protective Cover #195 142 (pg 84)

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

Welding Capability

Max. 1/2 in. (13 mm)	Max. 1/2 in. (13 mm)
Mild Steel	Aluminum
Min. 24 ga. (0.8 mm)	Min. 18 ga. (1.2 mm)

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.

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

Superior aluminum MIG welding with direct connection of optional XR push-pull guns and Spoolmatic 15A/30A spool guns. No extra module to buy or install.

Aluminum Pulse Hot Start™ automatically provides more arc power to eliminate a “cold start” that is inherent with aluminum starts.

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

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 (for more info see page 7).

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



Recommended Aluminum Solution
XR-Aluma-Pro push-pull gun (see below and page 27). See Aluminum Solutions comparison chart on page 12.

Model/Stock Number	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz					Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight
				200 V	230 V	460 V	KVA	KW				
Millermatic 350P (#907 300) 200/230/460 V Millermatic 350P/Aluma-Pro System (see below for contents) (#907 379) 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 50-700 IPM (1.3-17.8 m/min.) Optional Spool Gun/ Push-Pull Gun 50-800 IPM (1.3-20 m/min.)	Solid Steel .023-.045 in. (0.6-1.2 mm) Stainless .030-.045 in. (0.8-1.2 mm) Aluminum .035-.047 in. (0.9-1.2 mm) Metal-Cored .035-.052 in. (0.9-1.3 mm) Flux-Cored .030-.052 in. (0.8-1.3 mm)	H: 34 in. (863 mm) W: 19 in. (483 mm) D: 41 in. (1041 mm)	181 lb. (82 kg)
	Single-Phase			69	61	30	13.1	11.2				

Featured Accessories

Optional Aluminum System
Millermatic 350P/XR-Aluma-Pro™-A Push-Pull Gun Aluminum System #907 379 200/230/460 V Aluminum welding package. Includes Millermatic 350P and 25-foot XR-Aluma-Pro push-pull gun. Allows usage of 12-inch rolls of aluminum.

MIG gun not included (sold separately).



Miller recommends **MAXAL** aluminum wire (see page 90).

Optional XR™-A Push-Pull Guns

Direct connect to Millermatic 252 and 350P. Allows usage of 12-inch rolls of aluminum reducing downtime from changing one-pound spools.

Gun	XR-Aluma-Pro A	XR-A Pistol
15-ft. (4.6 m) Cable	#300 000	#198 127
25-ft. (7.6 m) Cable	#300 001	—
30-ft. (9 m) Cable	—	#198 128
35-ft. (10.7 m) Cable	#300 264	—

Aluminum U-Groove Drive Roll and Accessory Kit	XR-Aluma-Pro A	XR-A Pistol
.035 in. (0.9 mm)	#195 311	#195 201
.047 in. (1.2 mm)	#195 313	#195 202





Choose the Right Industrial Aluminum MIG Solution



Millermatic 350P Aluminum System shown with XR-Aluma-Pro gun (page 11).

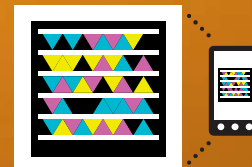


AlumaFeed Synergic Aluminum System shown with XR-Aluma-Pro gun and AlumaPower 450 MPa (page 13).



Invision 450 MPa Plus System shown with dual-feeder Stationary Package (page 16).

Scan this tag to see videos of Aluminum System success stories.



Miller recommends
MAAL
aluminum wire
(see page 90).

	Millermatic® 350P Aluminum System	AlumaFeed™ Synergic Aluminum System	Invision™ MPa Plus System
	Cost-effective light-industrial all-in-one MIG/Pulsed MIG solution with easy-to-use interface for aluminum and steel wire welding on material up to 1/2-inch thick. Features built-in running gear for mobility.	Dedicated industrial-fabrication aluminum-welding solution with advanced welding features that can handle larger weldments. Its lightweight push-pull feeder can easily be carried up to 100 feet from the power source.	Versatile industrial advanced system for large, high-duty-cycle aluminum and steel weldments. Features push and/or push-pull benchtop feeder for easy switchover between solid, aluminum and tubular wires.
Power Source	Millermatic 350P (All-In-One)	AlumaPower™ 350 MPa or 450 MPa	Invision 352 MPa or 450 MPa
Feeder	All-In-One – add optional Millermatic Reach to create dual-wire feeder (see page 24)	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 100 feet from power source
Input Voltage	Single- or Three-Phase	Single- or Three-Phase (450 MPa is three-phase only)	Single- or Three-Phase (450 MPa is three-phase only)
Rated Output	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
Primary Connection	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 hertz) 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 hertz) with no manual linking. Also adjusts for voltage spikes within the entire range. 450 MPa: 230/460 V manual linking
Aluminum Wire Diameters	.035–3/64 in. (0.9–1.2 mm)	.035–1/16 in. (0.9–1.6 mm)	.035–1/16 in. (0.9–1.6 mm)
Gun Capability	XR-Aluma-Pro™, XR™-Pistol or standard MIG Gun	XR-Aluma-Pro™ or XR™-Pistol	XR-Aluma-Pro™ Plus or standard MIG Gun
MIG Modes			
Profile Pulse™	–	Yes – achieve a “stacked dime” appearance quickly and easily without gun manipulation	Yes – achieve a “stacked dime” appearance quickly and easily without gun manipulation
Synergic Pulsed MIG	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
MIG	Conventional MIG – modes for aluminum, steel and other wires	Spray Transfer MIG – for aluminum wires	Conventional MIG – modes for aluminum, steel and other wires
Features			
Built-In Pulsed Programs	Aluminum, steel and stainless	Aluminum	Aluminum, steel, stainless and others
Portability	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
Trigger Hold	–	Yes – reduces operator fatigue from holding trigger	Yes – reduces operator fatigue from holding trigger
Trigger Dual Schedule	–	Yes – allows operator to switch between two preset weld conditions by pumping the trigger	Yes – allows operator to switch between two preset weld conditions by pumping the trigger
Program Locks	–	Yes – prevents unintended changes to the welding program weld parameters	Yes – prevents unintended changes to the welding program weld parameters
Flow Meter	–	Yes – allows flow to be set at feeder even when gas supply is a long distance away	–



AlumaFeed™ Synergic Aluminum Welding System

See Literature No. DC/34

The XR-AlumaFeed™ and AlumaPower™ 350 MPa or NEW! 450 MPa combine for a synergic system that simplifies and improves MIG and Pulsed MIG aluminum welding applications.



Miller recommends
MAXAL
aluminum wire
(see page 90).

NEW!

AlumaFeed Synergic Aluminum Welding System with 25-foot XR-Aluma-Pro gun and NEW! AlumaPower 450 MPa shown. Also available with XR-Pistol Grip gun.

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



Synergic “one-knob” control makes adjustments easy. Set the wire feed speed control on the gun and the system handles the rest.



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

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

Note: See Aluminum Solutions comparison chart on page 12.

*Additional packages are available – visit MillerWelds.com or your distributor. Packages include gun and feeder drive rolls and consumables to run .035-3/64 inch (0.9-1.2 mm) wire. 1/16-inch consumables not included – order separately at right.

Weld Cross Section



Hot Start™ allows operator to begin and end welds with ease and confidence. Eliminates incomplete fusion at the beginning of a weld, a common issue with aluminum welding. **Crater** gradually decreases weld current at the end of a weld to eliminate crater defects. Adjustable preflow and postflow rates ensure that the puddle always has adequate gas coverage.

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

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

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



AlumaPower 350 model allows for **any** input voltage hookup (208-575 V) with no manual linking. 450 model is 230/460 V manual link.



Optional MIGRunner packages available – AlumaFeed 350 MPa MIGRunner (#951 151) shown.

Heavy Industrial ●
CV DC 3 1 AlumaPower 450
Phase Phase is 3-phase only.

Processes

- Aluminum MIG (GMAW)
- Aluminum Pulsed MIG (GMAW-P)

Comes Complete With

- XR-AlumaFeed push-pull feeder
- AlumaPower 350 MPa or **NEW!** 450 MPa power source
- XR-Aluma-Pro™ or XR™-Pistol Grip push-pull welding guns (air- or water-cooled)
- .035- and 3/64-in. (0.9 and 1.2 mm) contact tips, drive roll and liners for guns
- .035- and 3/64-in. (0.9 and 1.2 mm) drive rolls for wire feeder

Note: All AlumaFeed systems come setup out of the box to run 3/64-in. wire.

MIGRunner™ Package Includes Above Plus

- MIGRunner Cart
- Industrial MIG 4/0 Kit with Dinse Connectors (350 MPa) or Industrial MIG 4/0 Kit (450 MPa) (see contents below)

Most Popular Accessories

- MIGRunner Cart #195 445 (pg 81)
- Industrial MIG 4/0 Kit with Dinse Connectors (350 MPa only) #300 405 (pg 84) Includes Smith® regulator/flowmeter with 10-ft. (3 m) gas hose, 10-ft. (3 m) 4/0 feeder weld cable with Dinse connector on one end and a lug on the other, and 15-ft. (4.6 m) work cable with Dinse connector on one end and 600-amp C-clamp.
- Industrial MIG 4/0 Kit (450 MPa only) #300 390 (pg 84) Includes the same as the kit above except weld and work cables have lugs instead of Dinse connectors.
- Extension Cables (pg 88)
 - 25 ft. (7.6 m) #247 831 025
 - 50 ft. (15 m) #247 831 050
 - 80 ft. (24.4 m) #247 831 080
- 1/16-Inch (1.6 mm) Liner and Wire Kit for gun #230 708
- 1/16-Inch (1.6 mm) Drive Roll Kit for control box #195 591

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

Model/Stock Number	Water-Cooled Package Stock Numbers*	Air-Cooled Package Stock Numbers*	Input Power	Amperage/Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz						Dimensions	Net Weight	
						208 V	230 V	400 V	460 V	575 V	KVA			KW
AlumaPower 350 MPa (#907 420) Machine only (#907 420 001) Machine only w/Auxiliary Power	(#951 176) w/Aux Power and 25-ft. Aluma-Pro Gun (#951 150) w/Aux Power and 30-ft. Pistol Gun (#951 425) MIGRunner w/Aux Power and 25-ft. Aluma-Pro Gun	(#951 147) w/25-ft. Aluma-Pro Gun (#951 149) w/30-ft. Pistol Gun (#951 151) MIGRunner w/25-ft. Aluma-Pro Gun	Three-Phase	CC Mode: 5 – 425 A CV Mode: 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	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
						Single-Phase	CC Mode: 5 – 425 A CV Mode: 10 – 38 V	300 A at 32 VDC, 60% Duty Cycle	60.8	54.6	29.7	24.5		
AlumaPower 450 MPa (#907 483) Machine only w/Auxiliary Power	(#951 461) w/Aux Power and 25-ft. Aluma-Pro Gun (#951 463) w/Aux Power and 30-ft. Pistol Gun (#951 458) MIGRunner w/Aux Power and 25-ft. Aluma-Pro Gun	(#951 460) w/25-ft. Aluma-Pro Gun (#951 462) w/30-ft. Pistol Gun (#951 459) MIGRunner w/25-ft. Aluma-Pro Gun	Three-Phase	CC Mode: 15 – 600 A CV Mode: 10 – 38 V	450 A at 38 VDC, 100% Duty Cycle	–	51	–	27.6	–	22	18.9	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)
XR-AlumaFeed Wire Feeder (#300 509) Feeder only Feeder is 14-pin compliant, but only operates synergically with an MPa power source.	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight							
									24 VAC, 5 A, 50/60 Hz	400 A at 100% Duty Cycle System duty cycle is limited to gun rating.	50-900 IPM (1.3-22.9 m/min.)	.035-.062 in. (0.9-1.6 mm) Requires Wire Kit #230 708 for gun and Drive Roll Kit #195 591 for control box to run 1/16-in. (1.6 mm) wire.	12 in. (305 mm)	H: 16 in. (406 mm) W: 9.5 in. (241 mm) D: 21.25 in. (540 mm)



MIG Packages for Demanding Industrial Applications

GOOD

BETTER

BEST

OPTIMIZED



CP-302/22A



Delta-Fab/24A



Deltaweld/S-74D



Invision/S-74D



Access/Access Feeder

Power Source Welding Performance

		300 Amp					450 Amp			650 Amp	
		CP-302 (Pg 15)	Delta-Fab™ (Pg 15)	Deltaweld® 302 (Pg 15)	Invision™ 352 MPa (Pg 16)	Acess® 300 (Pg 18)	Deltaweld® 452 (Pg 15)	Invision™ 450 MPa (Pg 16)	Acess® 450 (Pg 18)	Deltaweld® 652 (Pg 15)	Acess® 675 (Pg 18)
Material	Mild Steel	●	●	●	●	●	●	●	●	●	
	Stainless Steel	◎	◎	◎	●	●	◎	●	◎	●	
	Aluminum		◎	◎	●	●	◎	●	◎	●	
Material Thickness	Gauge (.020 - .125 in.)	●	●	●	●	●	◎	●	◎	●	
	Sheet (.125 - .375 in.)	●	●	●	●	●	●	●	●	●	
	Plate (.375 - 1 in.)	◎	●	◎	◎	◎	●	●	●	●	
	Plate (1+ in.)						◎	◎	●	●	
Wire Size	.030 in.	●	●	●	●	◎	●				
	.035 in.	●	●	●	●	●	●	●	●	●	
	.045 in.	◎	●	◎	◎	◎	●	●	●	●	
	.052 in.	◎	●	◎	◎	◎	●	●	●	●	
	1/16 in.	◎	◎	◎	◎	●	●	●	●	●	
	5/64 in.					●	●	●	●	●	
	3/32 in.					◎	◎	◎	●	●	
Process	Short Circuit	★★★★	★★	★★	★★★★★	★★★★★	★★★★★	★★★★★	★★	★★★★★	
	Pulsed Spray				★★★★★	★★★★★	★★★★★	★★★★★		★★★★★	
	Accu-Pulse®							★★★★★		★★★★★	
	RMD®					Optional★★★★		Optional★★★★		Optional★★★★	
	CAC-A				1/4 in.		1/4 in.	5/16 in.	1/4 in.	3/8 in.	3/8 in.

ICON KEY

CAPABILITY: ● Designed for ◎ Capable of **PROCESS QUALITY:** ★ Good ★★ Better ★★★ Best ★★★★ Optimized
 Note: All machines listed are designed for MIG spray transfer and Flux-Cored welding.



CP-302 and Deltaweld® Series

See Literature No. DC/13.0 and DC/16.2

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



CP-302 Stationary package Deltaweld MIGRunner package



Build your own system at
MillerWelds.com/equiptoweld
 (see page 17) or see packages below.

*Dimensions and weight are for power source only.

CP-302 and Deltaweld Series are available in three formats:

machine only, stationary package (adds feeder, gun and MIG 4/0 kit), and MIGRunner™ package (adds running gear/cylinder rack to stationary package).

CP-302 features **analog meters** for easy viewing, a **solid-state weld contactor** for longevity, and a **15-amp, 115-VAC duplex receptacle**.

Deltaweld Series also features a **solid-state weld contactor** and **duplex receptacle**, plus the following features:

- **Digital meters** for presetting or monitoring voltage or amperage.
- **Line voltage compensation** compensates for input voltage variations.
- **Material-specific output studs** provide optimal arc characteristics for aluminum, stainless steel and all other materials.
- **Thermal overload protection** helps prevent machine damage.
- **Remote voltage control** enables adjustments in weld cell or remotely.
- **Auto Remote Sense™** automatically selects connected remote control.

Industrial ● 302 models
Hvy Industrial ● 452/652 models



Processes

- MIG (GMAW) • Flux-Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Deltaweld 452: 1/4-in. carbons) (Deltaweld 652: 3/8-in. carbons)

Most Popular Accessories

- 22A and 24A Wire Feeders (pg 28)
- 70 Series Wire Feeders (pg 28)
- Standard Running Gear #042 886 (pg 81)
- Standard Cylinder Rack #042 887 (pg 81)
- Industrial MIG 4/0 Kit #300 390 (pg 84)
- Extension Cables (pg 88)
- Bernard® and Tregaskiss™ MIG Guns

When purchasing components separately, visit MillerWelds.com/equiptoweld or your distributor for other Miller® options and accessories.

Model	Stock Number	Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz						Open-Circuit Voltage	Dimensions* (Includes lift eye and strain relief)	Net Weight*
				200 V	230 V	460 V	575 V	KVA	KW			
CP 302	(#903 786) 200/230/460 V, Machine only	14 - 44	300 A at 32 VDC, 100% Duty Cycle	28	33	16.5	13	13.1	12.3	14 - 44 VDC	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 30.5 in. (775 mm)	332 lb. (151 kg)
	(#903 521) 575 V, Machine only											
	(#951 231) 200/230/460 V, Stationary Pkg											
	(#951 230) 200/230/460 V, MIGRunner Pkg											
Deltaweld 302	(#903 376) 200-208/230/460 V, Machine only	10 - 32	300 A at 32 VDC, 100% Duty Cycle	48	42	21	17	16.9	12.9	42 VDC Max	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 30.5 in. (775 mm)	323 lb. (147 kg)
	(#903 392) 230/460/575 V, Machine only											
	(#951 235) 200-208/230/460 V, Stationary Pkg											
	(#951 299) 230/460/575 V, Stationary Pkg											
	(#951 234) 200-208/230/460 V, MIGRunner Pkg											
	(#951 300) 230/460/575 V, MIGRunner Pkg											
Deltaweld 452	(#903 377) 200-208/230/460 V, Machine only	10 - 38	450 A at 38 VDC, 100% Duty Cycle	72	63	32	25	25.1	21.1	48 VDC Max	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 38 in. (966 mm)	384 lb. (174 kg)
	(#903 394) 230/460/575 V, Machine only											
	(#951 237) 200-208/230/460 V, Stationary Pkg											
	(#951 301) 230/460/575 V, Stationary Pkg											
	(#951 236) 200-208/230/460 V, MIGRunner Pkg											
	(#951 302) 230/460/575 V, MIGRunner Pkg											
Deltaweld 652	(#903 396) 230/460/575 V, Machine only	10 - 44	650 A at 44 VDC, 100% Duty Cycle	-	96	48	38	38.2	34.2	54 VDC Max	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 38 in. (966 mm)	472 lb. (214 kg)
	(#951 239) 230/460/575 V, Stationary Pkg											
	(#951 238) 230/460/575 V, MIGRunner Pkg											

Delta-Fab™ System

See Literature No. DC/15.0

100% duty cycle industrial power source and a 24A wire feeder with remote voltage control delivers time-tested, reliable performance in semiautomatic applications for a variety of industries.



MIGRunner package shown.

DeltaFab System is available in three formats: machine with feeder and gun, stationary package (adds MIG 4/0 kit), and MIGRunner™ package (adds running gear/cylinder rack to stationary package).

Delta-Fab features **analog meters** for easy viewing and a **solid-state weld contactor** for longevity, plus the following features:

- **Line voltage compensation** compensates for input voltage variations.
- **Material-specific output studs** provide optimal arc characteristics for aluminum, stainless steel and all other materials.
- **Thermal overload protection** helps prevent machine damage.
- **Remote voltage control** enables adjustments in weld cell or remotely.
- **Auto Remote Sense™** automatically selects connected remote control.
- **15-amp, 115-VAC duplex receptacle** for operating auxiliary tools.

Industrial ● **CV DC 3 Phase**

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Most Popular Accessories

- Standard Running Gear #042 886 (pg 81)
- Standard Cylinder Rack #042 887 (pg 81)
- Industrial MIG 4/0 Kit #300 390 (pg 84)
- Extension Cables (pg 88)
- Bernard® and Tregaskiss™ MIG Guns

When purchasing components separately, visit MillerWelds.com/equiptoweld or your distributor for other Miller® options and accessories.

Stock Number	Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions* (Includes lift eye and strain relief)	Net Weight*
			230 V	460 V	575 V	KVA	KW				
(#951 304) 230/460/575 V, Power Source, Feeder and Gun	10 - 45	375 A at 35 VDC, 100% Duty Cycle	69	34.5	27.5	27.5	17.5	10 - 45 VDC	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 30.5 in. (775 mm)	374 lb. (180 kg)	
(#951 233) 230/460/575 V, Stationary Pkg											
(#951 232) 230/460/575 V, MIGRunner Pkg											



Invision™ MPa Plus System See Literature No. DC/23.6

Features Alumination™ to provide the versatility of extended reach push-pull aluminum and includes Pulsed MIG programs for other wires, providing the “Best!” solution for all your MIG welding needs.

Invision 352 MPa or 450 MPa
Machine only.



Build your own system at
MillerWelds.com/equiptoweld
(see page 17) or see packages below.



Invision 450 MPa shown.

Miller recommends
MAXAL
aluminum wire
(see page 90).

Invision 350 MPa air-cooled package shown with single feeder.



Invision 350 MPa water-cooled package shown with dual feeder (wire not included).



Invision MPa Plus Stationary Package
Stationary display without running gear/cylinder rack.

Comes complete with:

- Invision 352 MPa or 450 MPa with or without auxiliary power
- Single or dual 74 MPa Plus wire feeder with drive rolls
- 25-ft. XR-Aluma-Pro Plus push-pull gun for aluminum
- 15-ft. Bernard® Q400 Gun (two included w/dual feeders)
- Industrial MIG 4/0 Kit w/Dinse Connector (see page 84 for contents)
- Coolmate™ 3 for single feeders or Coolmate™ V3 for dual feeders (water-cooled packages only)

Invision MPa Plus MIGRunner™ Package
MIGRunner system with running gear/cylinder rack.

Comes complete with everything in the Stationary Package plus:

- Running gear/cylinder rack (MIGRunner Cart for single feeders or Running Gear Cylinder Rack for dual feeders)

ALSO AVAILABLE! Push-only packages with Q400 gun. Provides the same great Invision arc characteristics and synergic MIG capabilities on a variety of alloys. Visit MillerWelds.com or your distributor for more information.

Built-in MIG and Pulsed MIG programs automatically set the optimal parameters for a wide variety of wires providing immediate productivity.

Alumination™ allows use of extended reach push-pull gun for consistent, dependable aluminum wire feeding.

AUTO-LINE Invision 352 model allows for any input voltage hookup (208-575 V) with no manual linking. 450 model is 230/460 V manual link.

Synergic Pulsed MIG. As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed.

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



Optimized arc control from start to finish is achieved using communication between Invision MPa power source and 74 MPa Plus feeder.

Robust and stable arc, even at short lengths, provides improved control with reduced heat input and the ability to weld a wider range of material thicknesses.

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

Heavy Industrial
CC CV DC 3 1 Invision 450
Phase Phase is 3-phase only.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)
- Pulsed MIG (GMAW-P)
- Air Carbon Arc Cutting and Gouging (CAC-A)
(Invision 352: 1/4-in. carbons)
(Invision 450: 5/16-in. carbons)

Push-Pull Guns Designed for the 74 MPa Plus Wire Feeders
Dedicated guns work with MPa Plus feeders using tachometer feedback to coordinate wire feed speed of the gun and the feeder.



XR-Aluma-Pro™ Plus

- 15 ft., air-cooled #300 000 001
- 25 ft., air-cooled #300 001 001
- 35 ft., air-cooled #300 264 001
- 15 ft., water-cooled #300 003 001
- 25 ft., water-cooled #300 004 001
- 35 ft., water-cooled #300 265 001

Most Popular Accessories

- MIGRunner™ Cart (Single Feeders only) #195 445 (pg 81)
- Running Gear Cylinder Rack #300 408 (pg 81)
- Industrial MIG 4/0 Kit with Dinse Connector #300 405 (pg 84)
- Extension Cables (pg 88)
25 ft. (7.6 m) #247 831 025
50 ft. (15 m) #247 831 050
80 ft. (24.4 m) #247 831 080

When purchasing components separately, visit MillerWelds.com/equiptoweld or your distributor for other Miller® options and accessories.

Note: See Aluminum Solutions comparison chart on page 12. *Additional packages are available – visit MillerWelds.com or your distributor.
Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit). *Dimensions and weight are for power source only.

Model (Machine Only)	Water-Cooled Pkgs w/Aux. Power and Aluma-Pro Gun*	Air-Cooled Packages*	Input Power	Amp/Volt Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz	Max. Open-Circuit Voltage	Dimensions***	Net Weight***
Invision 352 MPa (#907 431) (#907 431 001) w/Auxiliary Power	Stationary Pkg (#951 377) w/Single Feeder (#951 378) w/Dual Feeder MIGRunner Pkgs (#951 379) w/Single Feeder (#951 380) w/Dual Feeder	Stationary Pkgs w/Aluma-Pro Gun (#951 283) w/Single Feeder (#951 285) w/Dual Feeder MIGRunner Pkgs w/Aluma-Pro Gun (#951 287) w/Single Feeder (#951 289) w/Dual Feeder MIGRunner Pkgs w/Push-Only Q-Gun (#951 411) w/Single Feeder (#951 417) w/Dual Feeder	Three-Phase	CC Mode: 350 A at 34 VDC, 5 - 425 A CV Mode: 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: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
			Single-Phase	CC Mode: 300 A at 34 VDC, 5 - 425 A CV Mode: 10 - 38 V	300 A at 34 VDC, 60% Duty Cycle**	60.8 54.6 29.7 24.5 19.9 11.7 11.2			
Invision 450 MPa (#907 485) w/Auxiliary Power	–	MIGRunner Pkgs w/Push-Only Q-Gun (#951 456) w/Single Feeder (#951 457) w/Dual Feeder	Three-Phase	CC Mode: 450 A at 38 VDC, 15-600 A CV Mode: 10 - 38 V	450 A at 38 VDC, 100% Duty Cycle	– 51 – 27.6 – 22 18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)



Optimized Wire Feeding Options

Customize your industrial MIG welding system with the wire feeding options listed below. All MPa Plus feeders are push-pull capable. Combining the feeder with an XR-Aluma-Pro™ Plus gun makes this an excellent choice for aluminum welding.

70 Series MPa Plus Feeders

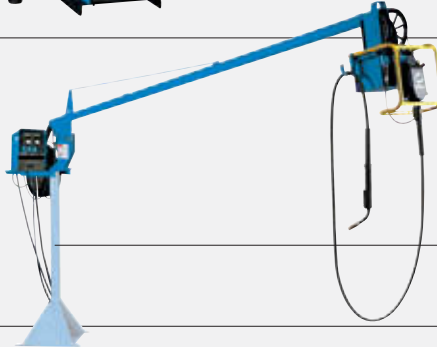
- Single-Wire Model #951 291
- Dual-Wire Model #951 292



Note: Feeders include Bernard® Q-Gun™ (one for single-wire models and two for dual-wire models) and drive rolls. Feeders are 14-pin compliant, but only operate synergically with an MPa power source. For more information on 74 MPa Plus feeders, see page 29.

70 Series MPa Plus Control Box Swingarc™ Boom-Mounted Feeders

- Single-Wire Models
 - #951 437 8 ft. (2.4 m)
 - #951 438 12 ft. (3.7 m)
 - #951 439 16 ft. (4.9 m)
- Dual-Wire Models
 - #951 440 8 ft. (2.4 m)
 - #951 441 12 ft. (3.7 m)
 - #951 442 16 ft. (4.9 m)



Note: Swingarcs include Bernard® Q-Gun™ (one for single-wire models and two for dual-wire models) and drive rolls.

Pipe Post NOT included. Must be ordered separately.
 #149 838 4-foot Pipe Post with 18-inch Base
 #149 839 6-foot Pipe Post with 18-inch Base

70 Series MPa Plus Control Box, Cables and Wire Feed Motors



- MPa Plus Control Box
 #300 738 S-74 MPa Plus

*Custom lengths available in 5-foot increments up to 50 feet.

- MPa Plus Motor Control Cable*
 #254 864 010 10 ft. (3 m)
 #254 864 025 25 ft. (7.6 m)

Flexible Mounting Options for Wire Drive Assembly:
 Boom Retrofit Applications or Feeder Base #195 369



- MPa Plus Wire Drive Motor Assembly
 #300 740 Left-Hand Drive

Note: Single remote configuration is shown. Dual remote configuration also available. Visit MillerWelds.com or your distributor for more information.

Gun NOT included. Must be ordered separately.



An Online Tool to Build Your Own Industrial System

Point & click to create a complete welding system!

- Fast, easy and accurate system configuration. Build your own system customized for your unique needs.
- A smart system that only displays options that work together.
- Customization to fit your needs. Choose the power source, feeder, MIG gun (Bernard, Tregaskiss, or Miller), drive rolls, and contact tips. All Neccessories™ included — primary cables, secondary cables, quick connectors, work clamps, regulators, gas hose and more.
- List prices to build your quote are available 24/7.
- Customize your feeder components. Select the gun, contact tips, and drive rolls included with your feeder.
- Customize your secondary cables with the terminations of your choice. Cables are factory assembled for increased reliability.
- Fast and convenient delivery. Standard items typically ship the same day, and most custom orders ship within 48 hours.

Build your system at MillerWelds.com/equiptoweld



Access® Systems See Literature No. DC/8.0

Optimize your industrial MIG welding system with digital control capability and exceptional MultiMIG® performance. A dedicated, menu-driven wire feeder provides a true synergic solution.



Access 300, 450 or 675 Machine only.



Allows for **any** input voltage hookup (208–575 V) with no manual linking. Assures rock-solid, consistent output on fluctuating primary lines.

RS-232 serial port provides access to data transfer and optional program downloads from Web at MillerWelds.com/advanced.

Access four-drive-roll wire drive feeder is combined with operator interface leaving no controls back at the power source.

MIG welding programs include **Accu-Pulse®**, **Accu-Curve™**, standard or adaptive pulse, conventional MIG and Metal-Cored programs.

Note: Look for high-speed video clips of Accu-Pulse®, Accu-Curve™, Accu-Speed™ and Front Panel Simulator at MillerWelds.com/advanced.

Accu-Pulse® MIG process delivers precise control of the arc even over tack welds and in tight corners.

SureStart® technology provides consistent arc starts by precisely controlling power levels for specific wire and gas combinations.



Build your own system at MillerWelds.com/equiptoweld (see page 17) or see packages below.



Access Stationary Package
(only available with 300 and 450 models)
Stationary display without running gear/cylinder rack.

- Comes complete with:
- Access power source
 - Access wire feeder with drive rolls
 - Bernard® Q-Gun™
 - Industrial MIG 4/0 Kit (see listing at right for kit contents)



Access MIGRunner™ Package
(only available with 300 and 450 models)
MIGRunner system with running gear/cylinder rack.

- Comes complete with everything in the Stationary Package plus:
- Running gear/cylinder rack

*Additional packages are available—visit MillerWelds.com or your distributor.
**Dimensions and weight are for power source only.

Industrial ● 300 model
Hvy Industrial ● 450/675 models



Processes

Multi-MIG®

- Accu-Pulse® MIG (GMAW-P)
 - Accu-Curve™
 - Accu-Speed™ (optional)
- Pulsed MIG (GMAW-P)
- MIG (GMAW)
- Metal-Cored
- RMD® Regulated Metal Deposition (GMAW-SCT) (optional)
- Air Carbon Arc Gouging (CAC-A) can also be activated

Most Popular Access-ories

- Accu-Speed™ (pg 21)
 - For Palm #300 719
 - For PC #300 720
- RMD® (Regulated Metal Deposition) (pg 21)
 - For Palm #195 252
 - For PC #300 721
- Access® File Management Software for PC #300 529
- WaveWriter™ File Management Software (consult factory)
- Feeder Cart #142 382 (pg 81)
- Running Gear Cylinder Rack (Access 300 and 450 only) #300 408 (pg 81)



- **Industrial MIG 4/0 Kit** #300 390 (pg 84)
Includes Smith® regulator/flowmeter with 10-ft. (3 m) gas hose, 10-ft. (3 m) 4/0 feeder weld cable with lugs, and 15-ft. (4.6 m) work cable with 600-amp C-clamp.
- Aluminum Gun Kits—
for pushing aluminum wire (pg 84)
 - .035, 10 ft. (3 m) #300 541
 - .047, 12 ft. (3.7 m) #300 542
 - 1/16, 12 ft. (3.7 m) #300 543
 Kits include .035-, .047- or 1/16-in. drive rolls and 10- or 12-ft. Bernard® Q-Gun™

When purchasing components separately, visit MillerWelds.com/equiptoweld or your distributor for other Miller® options and accessories.

Model	Stock Number*	Amp/Volt Ranges	Three-Phase Rated Output	Amps Input at Rated Output, 50/60 Hz	Max. Open-Circuit Voltage	Dimensions**	Net Weight**
Access 300	(#907 150) Machine only (#951 227) Stationary Pkg (#951 226) MIGRunner Pkg	5 - 400 A 10 - 44 V	300 A at 29 VDC, 60% Duty Cycle	208 V 33 230 V 29.7 400 V 16.9 460 V 14.6 575 V 11.6 11.7 11.2 KVA KW	80 VDC	300 H: 23 in. (584 mm) 450 H: 31 in. (787 mm) 675 H: 39 in. (991 mm) W: 17 in. (432 mm) D: 22.5 in. (572 mm)	116 lb. (52.6 kg)
Access 450	(#907 152) Machine only (#951 229) Stationary Pkg (#951 228) MIGRunner Pkg	5 - 600 A 10 - 44 V	450 A at 36.5 VDC, 100% Duty Cycle	60 33.7 28.8 22.8 23.8 22.9	80 VDC		163 lb. (73.9 kg)
Access 675	(#907 154) Machine only	5 - 900 A 10 - 44 V	675 A at 38 VDC, 100% Duty Cycle	89.7 43.7 34.8 35.7 34.4	80 VDC		208 lb. (94.3 kg)



Wire Feeding Options

Customize your industrial MIG welding system with the wire feeding options listed below.

Access® Feeders

- Single-Wire Model #951 311**
- Dual-Wire Model #951 431**

One DeviceNet Interconnecting Feeder Control Cable required per machine. See Cables and Wire Feed Motors below for stock numbers.

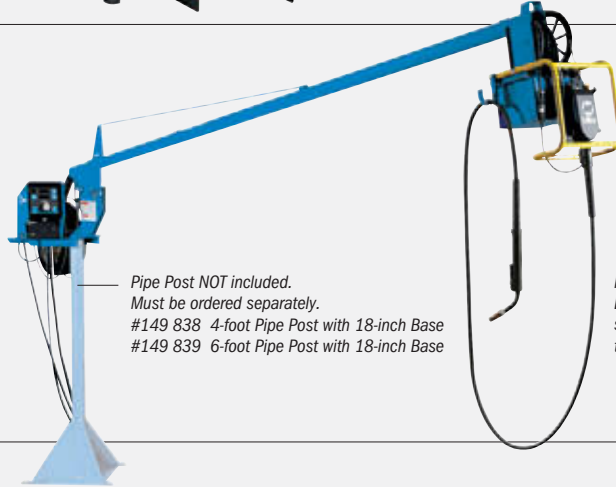


Note: Access feeders now include Bernard® Q-Gun™ (one for single-wire models and two for dual-wire models).

Access® ROI Swingarc™ Boom-Mounted Feeders

- Single-Wire Models**
- #951 383** 8 ft. (2.4 m)
- #951 384** 12 ft. (3.7 m)
- #951 385** 16 ft. (4.9 m)
- Dual-Wire Models**
- #951 386** 8 ft. (2.4 m)
- #951 387** 12 ft. (3.7 m)
- #951 388** 16 ft. (4.9 m)

Swingarc boom-mounted semiautomatic wire feeders bring an extra dimension of flexibility and efficiency to high-production MIG welding stations. You get an effective solution that maximizes output, especially when dealing with large weldments and hard-to-reach places.



Pipe Post **NOT** included. Must be ordered separately.
 #149 838 4-foot Pipe Post with 18-inch Base
 #149 839 6-foot Pipe Post with 18-inch Base

Note: Swingarcs include Bernard® Q-Gun™ (one for single-wire models and two for dual-wire models).

Access® ROI (Remote Operator Interface)



- Single ROI #195 238**
- Dual ROI #195 433**

ROI includes the operator interface and wire motor control packaged into a separate sheet metal enclosure allowing the power source, wire drive motor assembly and operator interface (ROI) to be located in three separate places. Does **NOT** include AA-40GB Wire Drive Motor Assembly, Motor Control Cable or DeviceNet Interconnecting Feeder Control Cable. These must be ordered separately (see below). Ideal for retrofitting existing booms (Miller and competitive brands).



Auto ROI back panel showing connection for input and output signals.

Auto ROI #195 239

The Auto ROI is different from other ROI models in that it allows for control of simple automated equipment with two programmable contacts when used with semi-automatic Access **AND** E-Stop option. Used for fixed/hard automation applications. Includes 30-foot cable for wiring to other external devices.

Cables and Wire Feed Motors



Access Power Source



ROI (Remote Operator Interface)



Boom Retrofit Applications

Feeder Base with Spool Support #195 369

Flexible Mounting Options



Gun **NOT** included. Must be ordered separately.

- DeviceNet Interconnecting Feeder Control Cable***
- #242 209 005** 5 ft. (1.5 m)
 - #242 209 010** 10 ft. (3 m)
 - #242 209 025** 25 ft. (7.6 m)
 - #242 209 050** 50 ft. (15.2 m)

- Motor Control Cable***
- #242 395 020** 20 ft. (6.1 m)
 - #242 395 030** 30 ft. (9 m)
 - #242 395 050** 50 ft. (15.2 m)
- (Two cables required for Dual ROI.)

- AA-40GB Wire Drive Motor Assembly**
- #195 426** Left-Hand Drive
 - #195 515** Right-Hand Drive
- (Two wire drive motor assemblies required for Dual ROI.)

*Custom lengths available in 5-foot increments up to 50 feet and 10-foot increments up to 100 feet.

AUTOMATED

MANUFACTURING SYSTEMS

Products shown in this section are more complex and may require Miller® factory support at additional expense to assure the system and components needed are properly selected and installed. Consult the factory for ALL Automation and Robotic applications at **1-920-954-3813**.

MillerWelds.com/Advanced



Auto-Axcess® Systems See Literature No. AU/8.0

For robotic automation – seamless integration of digital control technology combines inverter welding power source and robotic interface.



AA-40GB Motors
(Motor control cables must be ordered separately.)

AA-40GB motor connections.

AA-40GB Wire Drive Motor Assembly with OCP (Over Current Protection) to protect against current surges. Design utilizes an improved sheet metal enclosure including printed circuit board. It features a threaded gas connection and a direct-panel-mounted, quarter-turn motor control cable connection that eliminates motion stress on the motor's power and tachometer feedback wires.



Allows for **any** input voltage hookup (208–575 V) with no manual linking. Assures rock-solid, consistent output on fluctuating primary lines.

MIG welding programs include **Accu-Pulse®**, **Accu-Curve™**, standard or adaptive pulse, conventional MIG and Metal-Cored programs.

Accu-Pulse® MIG process delivers precise control of the arc even over tack welds and in tight corners.

SureStart® technology provides consistent arc starts by precisely controlling power levels for specific wire and gas combinations.

Optional Access-able software: Accu-Pulse™ tandem (factory-installed only), Accu-Speed™ for Palm or PC, RMD® (Regulated Metal Deposition) for Palm or PC, Access® File Management for PC, and WaveWriter™ File Management with Wave Shaping.

Access® Multi-MIG® Welding Process Capabilities

Process	Standard Spray	Pulsed Spray	Accu-Pulse® Accu-Curve™ Accu-Speed™ (Optional)	Standard Short Circuit	RMD® Regulated Metal Deposition (Optional)
Weld Puddle Control	Flat/Horizontal		All Position Performance		Thin Materials/Gap Filling

Note: Look for high-speed video clips of Accu-Pulse, Accu-Curve, Accu-Speed and Front Panel Simulator at MillerWelds.com/advanced.

*Order Wire Drive Motor Assembly and required Motor Control Cable length separately.

Processes



Multi-MIG®

- Accu-Pulse® MIG (GMAW-P)
 - Accu-Pulse® tandem (optional)
 - Accu-Curve™
 - Accu-Speed™ (optional)
- Pulsed MIG (GMAW-P)
- Metal-Cored
- MIG (GMAW)
- RMD® Regulated Metal Deposition (GMAW-SCT) (optional)

Required Wire Drive Motor Assembly/Motor Control Cable

- AA-40GB Wire Drive Motor (includes 50-ft. volt-sense lead)
 - Left-Hand Drive #195 426
 - Right-Hand Drive #195 515
 (Order required Motor Control Cable separately)
- Motor Control Cable
 - 20 ft. (6.1 m) #242 395 020
 - 30 ft. (9 m) #242 395 030
 - 50 ft. (15.2 m) #242 395 050

Most Popular Access-ories

- Accu-Speed™ (pg 21)
 - For Palm #300 719
 - For PC #300 720
- RMD® (pg 21)
 - For Palm #195 252
 - For PC #300 721
- Access® File Management Software for PC #300 529
- WaveWriter™ File Management Software (consult factory)
- Coolant Flow Switch #195 461 (pg 86)
- Receptacle/Adapter Kits (One required per machine)
 - ABB #194 793
 - Fanuc #194 791
 - Motoman #194 790
 - Panasonic #300 056
 - Universal #195 002
- Smart Adapter #300 012 – allows automatic to be configured to function as semi-automatic
- Fanuc/Motoman Motor Bracket #300 013

Model	Stock Number*	Amp/Volt Ranges	Three-Phase Rated Output	Amps Input at Rated Output, 50/60 Hz						Max. Open-Circuit Voltage	Dimensions	Net Weight	
				208 V	230 V	400 V	460 V	575 V	KVA				KW
Auto-Axcess 300	(#907 151) Base Power Source (#907 151-00-1) w/Accu-Speed Software (#907 151-01-1) w/RMD Process Software	5 - 400 A 10 - 44 V	300 A at 29 VDC, 60% Duty Cycle	33	29.7	16.9	14.6	11.6	11.7	11.2	80 VDC	300 H: 23 in. (584 mm) 450 H: 31 in. (787 mm) 675 H: 39 in. (991 mm) W: 17 in. (432 mm) D: 22.5 in. (572 mm)	116 lb. (52.6 kg)
Auto-Axcess 450	(#907 153) Base Power Source (#907 153-00-1) w/Accu-Speed Software (#907 153-01-1) w/RMD Process Software (#907 153-02-2) w/tandem Synchronization	5 - 600 A 10 - 44 V	450 A at 36.5 VDC, 100% Duty Cycle	–	60	33.7	28.8	22.8	23.8	22.9	80 VDC		163 lb. (73.9 kg)
Auto-Axcess 675	(#907 155) Base Power Source (#907 155-00-3) w/Accu-Speed Software (#907 155-02-1) w/tandem Synchronization	5 - 900 A 10 - 44 V	675 A at 38 VDC, 100% Duty Cycle	–	89.7	–	43.7	34.8	35.7	34.4	80 VDC		208 lb. (94.3 kg)



Featured Welding Processes

Accu-Pulse® STANDARD on all Axxess® models

The Accu-Pulse process allows for precise control of the pulse arc. Accu-Pulse provides optimum molten puddle control and has power to increase wire feed speeds and deposition 20 to 25 percent in many applications.

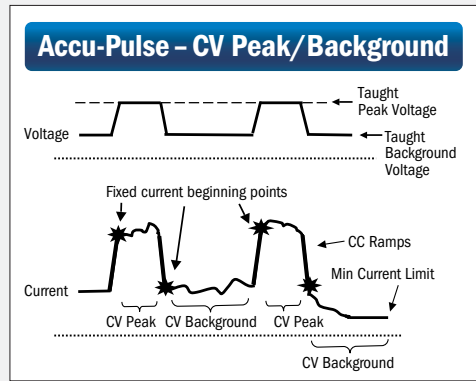
Accu-Pulse® tandem OPTIONAL on all Auto-Axxess® models

Miller technology synchronizes pulsing between two Auto-Axxess power supplies to achieve two stable, independent arcs in one torch. Each wire has its own power source, wire drive, and contact tip. Accu-Pulse tandem welding unites the arc characteristics of Accu-Pulse with the high deposition rates and travel speeds achievable with the tandem process.

See page 20 for power sources with optional Accu-Pulse tandem.

Accu-Curve™ STANDARD on all Axxess® models

Accu-Curve is a variation of the Accu-Pulse process. The transitions from peaks to background voltage are “curved”. The curved transitions provide a “softer” feel without sacrificing the tight arc lengths that allow for better puddle control that have become the hallmark of the Accu-Pulse process.



Note: Accu-Curve can be added to existing Axxess or Auto-Axxess systems for FREE by updating code online at MillerWelds.com/advanced. Requires Palm handheld or PC to transfer code to Axxess.

Optional Software-Based Welding Processes

Accu-Speed™

Field #300 719 for Palm*
Field #300 720 for PC**

Accu-Speed is a variation of the Accu-Pulse process and was developed for the type of arcs needed in automated welding applications. Accu-Speed has a tighter driving arc that can be directed into the joint, yet still remains stable at the higher travel speeds used in automated welding. In general, Accu-Speed has lower average voltage and amperage when compared to Accu-Pulse which makes it ideal when welding out of position in the manual mode.

RMD® (Regulated Metal Deposition)

Field #195 252 for Palm*
Field #300 721 for PC**

The RMD (Regulated Metal Deposition) process is a precisely controlled short-circuit transfer. It is a method of detecting when the short is going to clear and then rapidly reacting to this data changing the current (amperage) levels. Features Proactive Dynamic Puddle Control.

Note: Serial number must be provided for field installation. Field kits include cable for connecting to Axxess, but require Palm handheld or PC version of File Manager. FREE trial of Accu-Speed and RMD with a combined total of 16 hours included with every new Axxess power supply. See page 20 for power sources with factory-installed software.

*Required Palm handheld with data card slot is NOT included.

**PC-based emulator and cable are NOT included.



Bringing Together the Best of Both Worlds!

Miller Welding Automation combines top-tier Panasonic robotics and electronics with Miller's industry-leading welding products, services and support. It's a natural fit that brings together the resources of two global technology leaders. We offer a comprehensive array of both pre-integrated systems and standalone automated welding components.

Now you can approach the toughest production challenges of the future with your trusted welding partner—a one-stop resource with the real system intelligence it takes to deliver the performance and payback you're looking for. We'll guide your every step by evaluating your automation options, and recommending the system and integration partner that fits your needs.

Find out more at MillerWelds.com/automation



WIRE FEEDERS



MillerWelds.com/WireFeeders

Product Guide

	Page	Class	MIG	MIG-P*	Flux-Cored**	Portable	Power Source Required	Wire Types				Wire Diameters	Special Features	Typical Applications
								Hard	Flux-Cored Dual-Shld	Flux-Cored Self-Shld	Alum			
Constant-Speed	Millermatic® Reach	24	●	●	●	●	CV	●	●	●	●	.023-.052 in. (0.6-1.3 mm)	Portable, self-enclosed case, designed exclusively for Millermetics	Metal fab, maintenance/repair, farm/home
	SuitCase® 8RC, SuitCase® 12RC	24 24	●	●	●	●	CV	●	●	●	●	8RC: .023-5/64 in. (0.6-2.0 mm) 12RC: .023-5/64 in. (0.6-2.0 mm)	Portable, self-enclosed case, remote control	Construction, field maintenance, site fabrication
	22A	28	●	●	●	●	CV	●	●	●	●	.023-5/64 in. (0.6-2.0 mm)	Two quick-change drive rolls	Manufacturing, fabrication
	24A	28	●	●	●	●	CV	●	●	●	●	.023-3/32 in. (0.6-2.4 mm)	Four quick-change drive rolls	Manufacturing, fabrication
	70 Series S/D/DX – Singles and Duals	28	●	●	●	●	CV	●	●	●	●	.023-1/8 in. (0.6-3.2 mm) Low-speed option recommended for 1/8-in. wires	Four drive roll, adjustable weld control	Heavy and light manufacturing, fabrication
	70 Series MPA Plus – Singles and Duals	29	●	●	●	●	CV	●	●	●	●	.035-5/64 in. (0.9-2.0 mm)	Alumination™ allows push/pull gun. Optimized with Invision 352 MPa	Manufacturing requiring multiple wire types
	70 Series Swingarc™ – Singles and Duals	30	●	●	●	●	CV	●	●	●	●	.023-5/64 in. (0.6-2.0 mm)	8-, 12- and 16-ft. booms, four drive roll, adjustable weld control	Heavy and light manufacturing, fabrication
Volt-Sensing	SuitCase® X-TREME™ 8VS	23	●	●	●	●	CC/CV	●	●	● CV**	●	.023-1/16 in. (0.6-1.6 mm)	Lightweight, portable, 8-in. diameter spool capacity	Shipbuilding, construction, site fabrication
	SuitCase® X-TREME™ 12VS	23	●	●	●	●	CC/CV	●	●	● CV**	●	.023-5/64 in. (0.6-2.0 mm)	Lightweight, portable, 12-in. diameter spool capacity	Shipbuilding, construction, site fabrication
Aluminum	Spoolmate™ 100 Series	25	●	●		●	CV	●			●	.023-.035 in. (0.6-0.9 mm)	Economical, 135 A	Light-duty aluminum fabrication
	Spoolmate™ 200 Series	25	●	●		●	CV	●			●	.023-.035 in. (0.6-0.9 mm)	Economical, 160 A	Light-duty aluminum fabrication
	Spoolmatic® 15A/30A	26	●	●	●	●	CC/CV	●			●	.023-1/16 in. (0.6-1.6 mm)	Portable, 4-in. spool, 15 and 30 ft.	Aluminum fabrication
	XR™-Pistol 15A/30A	26	●	●	●	●	CC/CV	●	●		●	.030-1/16 in. (0.8-1.6 mm)	Push-pull system	Heavy aluminum fabrication
	XR™-Pistol 15W/30W	26	●	●	●	●	CC/CV	●	●		●	.030-1/16 in. (0.8-1.6 mm)	Push-pull system	Heavy aluminum fabrication
	XR-Aluma-Pro™ A	27	●	●	●	●	CC/CV	●	●		●	.030-1/16 in. (0.8-1.6 mm)	High-amperage air-cooled gun	All aluminum fabrication needs
	XR-Aluma-Pro™ W	27	●	●	●	●	CC/CV	●	●		●	.030-1/16 in. (0.8-1.6 mm)	High-amperage water-cooled gun	All aluminum fabrication needs
	XR™-Controls	27	●	●	●	●	CC/CV	●	●		●	.030-1/16 in. (0.8-1.6 mm)	Push-pull system	Heavy aluminum fabrication

PRODUCT KEY

CLASS: ● Light Industrial ● Industrial ● Heavy Industrial CAPABILITY: ● Designed for this process ● Capable of this process

*Millermatic Reach requires Millermatic 350P. Other feeders require optional Optima control and a recommended inverter.

**Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible. For more detailed information, see individual product literature sheets.



SuitCase® X-TREME™ 8VS and 12VS

See Literature No. M/6.41

Taking portable welding to the extreme – available in two sizes, these voltage-sensing feeders have every feature you will ever need.



SuitCase X-TREME 8VS shown with Bernard Q300.

SuitCase X-TREME 12VS



Models include Bernard Q300 MIG gun (8VS/12VS) with reversible dual size (.045 and 1/16 in.) VK drive rolls or Dura-Flux Flux-Cored gun (12VS) with reversible dual size (.068/.072 and 5/64 in.) VK drive rolls! For more options, visit MillerWelds.com/equiptoweld (see page 17).

Smaller 8VS size is ergonomically sound, lightweight, and well balanced for ease of carrying to remote welding sites. Fits through a 14-inch manhole/manway.

Polypropylene case with built-in slide rails has door for changing wire with the feeder in a vertical position.

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.

Improved contactor for high-amperage, high duty cycle applications.

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. (8VS: meters are optional.)

Trigger hold, wire jog, and gas purge are located on front panel. (8VS: trigger hold is optional.)

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

Double-filtered gas valve helps keep dirt from clogging and affecting gas flow.

Excellent starts and superior arc performance for all types and sizes of wires whether using CV or CC power supply. (CV is recommended for best arc performance.)

Industrial Use with CC/CV, DC power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Suggested Power Sources

- Dimension™ Series (pg 45)
- Dimension™ NT 450 (pg 45)
- XMT™ Series (pg 46)
- XMT™ MPa Series (pg 47)
- Bobcat™ (pg 54/60)
- Trailblazer® (pg 56/58/60)
- Big Blue® 300 Pro (pg 61)
- Big Blue® 400/500 (pg 63)

Suggested Guns

- Bernard® Q300 (GMAW) (pg 85)
- Bernard® Dura-Flux™ (FCAW) (pg 85)
- Roughneck® (GMAW) (pg 85)
- Ironmate® FC-1260 (FCAW) (pg 85)

Most Popular Accessories

- 8VS Meter Kit #300 331 (pg 84)
- 8VS Trigger Hold #300 332
- Flowmeter Kit #300 343

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

Model	Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
SuitCase X-TREME 8VS	(#951 181) w/Bernard Q300 Gun (#951 182) w/Bernard Q300 Gun and Meters (#951 183) w/Bernard Q300 Gun, Meters and Trigger Hold	Operates on open-circuit voltage and arc voltage: 14-48 VDC/ 110 Max. OCV	330 A at 60% Duty Cycle	50-780 IPM (1.3-19.8 m/min.) Actual range in CC mode is dependent on arc voltage applied	Solid Wire .023-.062 in. (0.6-1.6 mm) Flux-Cored .030-.062 in. (0.8-1.6 mm)	8 in. (203 mm), 14 lb. (6.4 kg)	H: 12.75 in. (324 mm) W: 7.25 in. (184 mm) D: 18 in. (457 mm)	28 lb. (13 kg)
SuitCase X-TREME 12VS	(#951 184) w/Bernard Q300 Gun (#951 185) w/Bernard Dura-Flux Gun		425 A at 60% Duty Cycle		Solid Wire .023-5/64 in. (0.6-2.0 mm) Flux-Cored .030-5/64 in. (0.8-2.0 mm)	12 in. (305 mm), 45 lb. (20 kg)	H: 15.5 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	35 lb. (15.9 kg)

Miller® SuitCase® Selection Chart

1. Not recommended for use with AC power sources. 2. When paired with CC power source, VS feeder will vary wire feed speed (WFS) to maintain voltage. As such, accuracy of parameters and deposition rates cannot be guaranteed. For critical welds, Miller recommends using CV power source. Note: Use CV power source for best performance when wire welding. Also, set VS feeder to "CV mode" and welder to "CV or volt sense feeder mode" if applicable.

Application Requirements	SuitCase 8RC	SuitCase 12RC	SuitCase X-TREME 8VS	SuitCase X-TREME 12VS	Selection Guidance
Feeder Type	Remote control (constant speed)	Remote control (constant speed)	Voltage sensing	Voltage sensing	Use RC feeders when welding procedures or codes specify wire feed speed and voltage.
Power Source Compatibility	CV power source (must have 14-pin connection)	CV power source (must have 14-pin connection)	DC ⁺ CC/CV	DC ⁺ CC/CV	VS feeders offer flexibility, as they work with almost any welder. ²
Physical Specifications					
Spool Size/Capacity	8 in./14 lb.	8 in./14 lb. or 12 in./45 lb.	8 in./14 lb.	8 in./14 lb. or 12 in./45 lb.	Use 12RC or 12VS for larger wire spools. Use 8VS or 8RC when weight or size is a factor.
Weld Performance					
Duty Cycle	500 amps at 100%	500 amps at 100%	330 amps at 60%	425 amps at 60%	Use 12RC or 12VS to maximize deposition rates with larger wires.
Recommended Distance Between Feeder and Power Source	75 ft. (150 ft. "round trip" cable length)	75 ft. (150 ft. "round trip" cable length)	400+ ft. (distance depends on the power source, weld cable size used, and welding amperages)	400+ ft. (distance depends on the power source, weld cable size used, and welding amperages)	Use VS feeders when longer distances between the power source and feeder are required.
Simplicity & Control					
Number of Feeder Connections Back to Power Source	2 (weld cable, 24 VAC power/14-pin control cable)	2 (weld cable, 24 VAC power/14-pin control cable)	1 (weld cable)	1 (weld cable)	VS feeders have less cable to carry, damage or lose.
Remote Control Capabilities	Voltage set at feeder	Voltage set at feeder	Voltage or current set at power source	Voltage or current set at power source	RC feeders add convenience – no need to return to the power source to adjust voltage parameters.
Gas Purge, Wire Jog and Trigger Hold	- Gas purge standard - Wire jog (inside case) - Trigger hold optional	- Gas purge standard - Wire jog (inside case) - Trigger hold optional	- Gas purge standard - Wire jog (front panel) - Trigger hold optional	All standard (front panel)	VS and RC feeders have most often used controls conveniently located on front panel.



SuitCase® 8RC and 12RC See Literature No. M/6.5

The SuitCase 8RC and 12RC offer remote voltage control, light weight and small size, with superior durability needed to stay in service and meet production schedules.

Portable!



SuitCase 8RC

SuitCase 12RC



Models include Bernard Q300 MIG gun with reversible dual size (.045 and 1/16 in.) VK drive rolls! For more options, visit MillerWelds.com/equiptoweld (see page 17).

*Other models available. A remote extension cord must be ordered separately.

The SuitCase 12RC door opens with feeder in upright position and has built-in slide rails.

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

Ergonomically sound, lightweight, modular design is well balanced, and allows improved mobility and ease of carrying to remote welding sites and for serviceability.

Flexibility to run a variety of wires up to 5/64-inch diameter.

Quick-change drive rolls are easy to change – no tools required.

Drive roll accessibility makes it easy to install wire, adjust tension and change drive rolls.

Carrying handle folds up out of operators way, yet large enough for a gloved hand to carry.

Remote voltage control – standard for exceptional weld quality.

Gas solenoid valve – standard.

Industrial ● CV DC

Use with CV, DC power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Suggested Power Sources

- CP-302 (pg 15)
- Deltaweld® 302 (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)
- Trailblazer® (pg 56/58/60)

Suggested Guns

- Bernard® Q300 (GMAW) (pg 85)
- Bernard® Dura-Flux™ (FCAW) (pg 85)
- Roughneck® (GMAW) (pg 85)
- Ironmate™ (FCAW) (pg 85)

Most Popular Accessories

- 12RC Meter Kits (pg 84)
- Extension Cables (1 required)
25, 50, or 80 ft. (7.6, 15, or 24.4 m)
(pg 88)
- Shielding Gas Filter #195 189
- Flowmeter Kit #300 343
- Volt/Current Sensor Kit #195 194
(For both models – required for digital meter operation with power sources not having pins F and H in 14-pin receptacle.)

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

Model	Stock Number*	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
SuitCase 8RC	(#951 186) w/Bernard Q300 Gun and Remote Voltage	24 VAC, 7 A, 50/60 Hz		75 - 700 IPM (1.9-17.8 m/min.)	Solid Wire .023-5/64 in. (0.6-2.0 mm) Flux-Cored .030-5/64 in. (0.8-2.0 mm)	8 in. (203 mm), 14 lb. (6.4 kg)	H: 14.5 in. (368 mm) W: 6.5 in. (165 mm) D: 15.625 in. (397 mm)	22 lb. (10 kg)
	(#951 187) w/Bernard Q300 Gun, Meters, Remote Voltage and Trigger Hold							
SuitCase 12RC	(#951 188) w/Bernard Q300 Gun and Remote Voltage	24 VAC, 10 A, 50/60 Hz			Solid Wire .023-5/64 in. (0.6-2.0 mm) Flux-Cored .030-5/64 in. (0.8-2.0 mm)	12 in. (305 mm), 44 lb. (20 kg)	H: 15.5 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	25.5 lb. (11.6 kg)
	(#951 189) w/Bernard Q300 Gun, Meters, Remote Voltage and Trigger Hold							

Millermatic® Reach See Literature No. M/6.8

Use the Reach with your Millermatic 212 Auto-Set, 252, or 350P to extend your work area or to create a dual feeder, avoiding downtime from changing wire spools.



Extend your Millermatic work area up to 40 feet! No more moving the machine and pulling primary power cables around the shop.

Polypropylene case with built-in slide rails gives you the ability to easily change wire when in vertical position.

Synergic pulse capability when connected to a Millermatic 350P. Remotely change weld output by simply adjusting wire feed speed setting.

EXCLUSIVE! Auto-Gun Detect.™ When connected to a Millermatic 252 or 350P, simply pull trigger on either gun and the Millermatic machine will recall both voltage and wire feed speed of active gun.

Hybrid technology. Connects to Millermatic 10-pin and welding output circuit. Eliminates the need for a heavy mechanical contactor – more portable!

Works with any Miller-compatible MIG gun (sold separately).

Light Industrial ● CV DC

Use only with Millermatic power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)
- Pulsed MIG (GMAW-P) with MM 350P

Suggested Power Sources

- Millermatic® 212 Auto-Set™ (pg 10)
- Millermatic® 252 (pg 10)
- Millermatic® 350P (pg 11)

Suggested Guns

- MIGmatic™ M-25 (GMAW) (pg 85)
- Bernard® Q300 (GMAW) (pg 85)

Most Popular Accessories

- Running Gear/Cylinder Rack (pg 81)
Standard #300 425
Premium #770 187

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

Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter	Maximum Spool Size Capacity	Dimensions	Net Weight with Cable Assembly
(#907 438) 25-ft. (7.6 m) Cable Assembly	Operates on open-circuit voltage and arc voltage: 14 - 100 VDC	300 A at 60% Duty Cycle	50 - 700 IPM (1.3 - 17.8 m/min.) Actual range is dependent on arc voltage applied	Solid Steel .023-.045 in. (0.6-1.2 mm) Stainless .030-.045 in. (0.8-1.2 mm) Aluminum .047 in. (1.2 mm) Metal-Core .035-.052 in. (0.9-1.3 mm) Flux-Cored .030-.052 in. (0.8-1.3 mm)	12 in. (305 mm), 45 lb. (20 kg)	H: 15.5 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	48 lb. (21.8 kg)



Spoolmate™ 100 Series

See Literature No. M/1.45

Reliable and economical spool gun with excellent feeding to weld aluminum. For use with all Millermatic 140/180 models, Millermatic Passport Plus, and Millermatic 211 Auto-Set with MVP.



Portable!

Model includes carrying case, extra contact tips and nozzle!

Light industrial spool gun rated at 135 amps at 30 percent duty cycle.

12-foot direct-connect cable with heavy-duty strain relief provides extended reach and accessibility to your work.

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

Clear spool canister protects the wire and allows you to easily see the spool.

Light Industrial ● CV DC

Use with CV, DC power sources.

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

Suggested Power Sources

- Millermatic® 140 Auto-Set™ (pg 8)
- Millermatic® 180 Auto-Set™ (pg 8)
- Millermatic® 211 Auto-Set™ with MVP™ (pg 9)
- Millermatic® Passport™ Plus (pg 9)

Most Popular Accessories

- Retrofit Kit for Millermatic 140 and 180 models (prior to serial #LH210051N) #300 409

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

Stock Number (#300 371)	Welding Output Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Gun Weight with Cable Assembly
	135 A at 30% Duty Cycle	5-365 IPM (MM 140) 65-625 IPM (MM 180) 70-370 IPM (MM Passport Plus) 65-625 IPM (MM 211)	.030-.035 in. (0.8-0.9 mm) aluminum .023-.035 in. (0.6-0.9 mm) steel and stainless steel	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 3 in. (76 mm) L: 13 in. (330 mm)	6 lb. (2.7 kg) 9 lb. (4.1 kg) with case

Spoolmate™ 200 Series

See Literature No. M/1.47

Highly reliable and economical spool gun with excellent feeding to weld aluminum. Designed for home hobbyists and light fabricators. For use with Millermatic 212 Auto-Set and Millermatic 252.



Portable!

Light industrial spool gun rated at 160 amps at 60 percent duty cycle.

20-foot direct-connect cable with strain relief and sheath provides extended reach and accessibility to your work.

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

Easy access to drive assembly and drive rolls.

Two-stage trigger with built-in gas valve allowing preflow and postflow.

Toolless barrel removal for easy replacement of gun barrels. Three optional gun barrels!

Light Industrial ● CV DC

Use with CV, DC power sources.

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

Suggested Power Sources

- Millermatic® 212 Auto-Set™ (pg 10)
- Millermatic® 252 (pg 10)

Most Popular Accessories

- 45-Degree Barrel #300 591
 - 9-Inch Extension Barrel #300 592
 - Heavy-Duty Barrel #300 593
 - Spoolmatic Adaptor Cable #195 287
- Allows connection to older Millermatic 210 and 212 (non-Auto-Set). Wire feed speed controlled at the machine.

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

Stock Number (#300 497)	Welding Output Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Gun Weight with Cable Assembly
	160 A at 60% Duty Cycle 200 A at 60% Duty Cycle with optional Heavy-Duty Barrel	70-875 IPM	.030-.035 in. (0.8-0.9 mm) aluminum .023-.035 in. (0.6-0.9 mm) mild and stainless steel	4 in. (102 mm)	H: 9 in. (229 mm) W: 2.5 in. (64 mm) L: 14.5 in. (368 mm)	11 lb. (5 kg)



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Pistol Grip Guns See Literature No. M/1.73

Spoolmatic spool guns and XR push-pull guns are the professional's choice for exceptional aluminum welding results in industrial or commercial applications.



Spoolmatic pistol grip spool gun

Portable!



XR-A pistol grip push-pull gun

Miller recommends **MAXAL** aluminum wire (see page 90).

Engineered for operator comfort, our well-balanced pistol grip guns give you portability and a 15- or 30-foot cable assembly to access those hard-to-reach welds.

Quick-change, single-turn contact tip provides excellent performance and ease of replacement.

Barrels are Roughneck® and Bernard® Centerfire™ compatible.

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

Improved, more robust drive housing machined from aluminum extrusion instead of a casting.

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

Spoolmatic® Spool Gun Additional Features

Built-in gas valve eliminates the need to purge long gas lines.

Two-stage trigger includes gas preflow.

Spool canister rotates 180 degrees.

XR™ Push-Pull Gun Additional Features

Both air- or water-cooled versions are available.

Trigger hold reduces fatigue by allowing operator to weld without holding trigger. (Feature only available when paired with XR™-Controls or XR-AlumaFeed™.)

Replaceable feed cable liner reduces parts cost and service time by allowing a simple means of removing and replacing liner and not the complete feed cable.

Industrial ● Spoolmatic 15A/30A
Heavy Industrial ● XR-Pistol

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

Processes

- MIG (GMAW) with aluminum and other wires (XR guns require optional hardware kits to run hard wire)
- Pulsed MIG (GMAW-P) with optional pulsing power source

Suggested Power Sources

For Spoolmatic Guns Only

- Millermatic® 212 Auto-Set™ (pg 10)
- Shopmate™ 300 DX (pg 45)
- Bobcat™ (pg 54/60)

For Spoolmatic and XR Guns

- Millermatic® 252 (pg 10)
- Millermatic® 350P (pg 11)
- AlumaPower™ 350 MPa/450 MPa (pg 13)
- CP-302 (pg 15)
- Dimension™ Series (pg 45)
- XMT™ Series (except VS model) (pg 46)
- XMT™ MPa Series (pg 47)
- Trailblazer® (pg 56/58/60)
- Big Blue® 300 Pro (pg 61)
- Big Blue® 350 PipePro® (pg 62)

Most Popular Accessories

Weld Controls for Spoolmatic Guns Only

- WC-24 #137 549 (pg 88)
- WC-115A #137 546 (pg 88)
- WC-115A (with contactor) #137 546-01-1 (pg 88)
- WC-115 Contactor Kit #137 548 (pg 88)

Feeders for XR Guns Only

- XR-AlumaFeed™ (pg 13) or XR™-Controls (pg 27) – Required with most power sources. See Hook-Up Recommendations chart at left.
- Hardwire Liner Kit #198 377

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

Hook-Up Recommendations

**Discontinued product.*

Spoolmatic 15A/30A Pistol Grip Guns	CV Power Supply	Control/Module/Cable
	Millermatic Vintage*, 250*, 250MP*	Need Module #043 084
Millermatic DVI™*, DVI2™*, 210*, 212*	Need Adapter Cable #195 287 (WFS controlled at machine)	
Millermatic 212 Auto-Set, 250X*, 251*, 252, 300 w/meters*, 350*, 350P, Shopmate 300 DX	Direct Hook-Up	
AlumaPower 350 MPa/450 MPa, CP Series, Deltaweld® Series, Dimension Series, Regency® 250*, Shopmaster™*, XMT Series, Big Blue 300 Pro, Big Blue 350 PipePro, Trailblazer 275 DC, 302, 302 Air Pak™	Need WC-24 #137 549	
Bobcat™ Series, Miller Legend® 302*	Need WC-115A #137 546-01-1	
XR 15A/30A and XR 15W/30W Pistol Grip Guns	Millermatic 252, 350*, 350P	Direct Hook-Up
AlumaPower 350 MPa/450 MPa, Deltaweld® Series, Dimension Series, Invision™ Series, XMT Series (except VS model), Big Blue 300 Pro, Big Blue 350 PipePro, Trailblazer 275 DC, 302, 302 Air Pak™	XR-AlumaFeed™ (pg 13) or XR™-Controls (pg 27)	

*Drive rolls and drive roll kits must be ordered separately. A=Air-Cooled W=Water-Cooled

Model	Stock Number*	Welding Output Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Gun Weight with Cable Assembly
Spoolmatic 15A	(#195 156) 15 ft. (4.5 m) cable	200 A at 100% Duty Cycle	70–875 IPM (1.8–22.2 m/min.) Wire speed dependent on control box or Millermatic used.	.030–1/16 in. (0.8–1.6 mm) aluminum wire and hard wire up to .045 in. (1.1 mm)	4 in. (102 mm)	H: 10.25 in. (260 mm)	9 lb. (4.1 kg)
Spoolmatic 30A	(#130 831) 30 ft. (9 m) cable					L: 15.125 in. (384 mm)	14 lb. (6.4 kg)
XR-A Pistol Gun	(#198 127) 15 ft. (4.6 m) cable	Air: 200 A at 100% Duty Cycle	70–875 IPM (1.8–22.2 m/min.) Wire speed dependent on control box or Millermatic used.	.030–1/16 in. (0.8–1.6 mm) aluminum wire	–	H: 7.375 in. (187 mm)	13 lb. (5.9 kg)
	(#198 128) 30 ft. (9 m) cable					W: 1.875 in. (48 mm)	21 lb. (9.6 kg)
XR-W Pistol Gun	(#198 129) 15 ft. (4.6 m) cable	Water: 400 A at 100% Duty Cycle				L: 10.625 in. (270 mm)	14 lb. (6.4 kg)
	(#198 130) 30 ft. (9 m) cable					21.5 lb. (9.7 kg)	



Gooseneck-Style Gun

See Literature No. M/1.71

XR-Aluma-Pro™ guns work in conjunction with XR-Controls, XR-AlumaFeed or select Millermatic machines to provide an outstanding solution for push-pull applications.



Portable!

Miller recommends
MAXAL
aluminum wire
(see page 90).

A=Air-Cooled W=Water-Cooled

Accepts single-turn, quick-change Fastip™ and Bernard® Centerfire™ contact tips.

Replaceable feed cable, easy drive assembly access and removable head tube liner reduce service time.

Isolated, common, knurled drive rolls provide positive feeding performance.

Rotatable, self-seating head tube for various welding positions, reducing operator fatigue.

Hook-Up Recommendations

*Discontinued product.

XR-Aluma-Pro Gooseneck-Style Gun	CV Power Supply	Control/Module/Cable
	Millermatic 252, 350*, 350P	Direct Hook-Up
	AlumaPower 350 MPa/450 MPa, Deltaweld Series, Dimension™ Series, Invision Series, XMT Series (except VS model), Big Blue® 300 Pro, Big Blue® 350 PipePro®, Trailblazer 275 DC, 302, 302 Air Pak™	XR-AlumaFeed (pg 13) or XR-Controls (see below)

Gun Style	Stock Number	Weld Current Capacity	Wire Feed Speed	Wire Diameter Capacity	Dimensions	Gun Weight	Net Weight with Cable Assembly
XR-Aluma-Pro A Gun	(#300 000) 15 ft. (4.6 m)	Air: 300 A at 100% Duty Cycle	70-900 IPM (1.8-23 m/min.) Wire speed dependent on control box or Millermatic used.	.030-1/16 in. (0.8-1.6 mm) aluminum wire Wire kit #230 708 required to run 1/16-in. (1.6 mm) wire.	H: 5 in. (127 mm) W: 2.5 in. (64 mm) L: 17 in. (432 mm)	2.5 lb. (1.1 kg)	20 lb. (9.1 kg)
	(#300 001) 25 ft. (7.6 m)						27 lb. (12.2 kg)
	(#300 264) 35 ft. (10.6 m)						33 lb. (15 kg)
XR-Aluma-Pro W Gun	(#300 003) 15 ft. (4.6 m)	Water: 400 A at 100% Duty Cycle	70-900 IPM (1.8-23 m/min.) Wire speed dependent on control box or Millermatic used.	.030-1/16 in. (0.8-1.6 mm) aluminum wire Wire kit #230 708 required to run 1/16-in. (1.6 mm) wire.	H: 5 in. (127 mm) W: 2.5 in. (64 mm) L: 17 in. (432 mm)	2.9 lb. (1.3 kg)	22 lb. (10 kg)
	(#300 004) 25 ft. (7.6 m)						29 lb. (13.2 kg)
	(#300 265) 35 ft. (10.6 m)						35 lb. (15.9 kg)

Heavy Industrial Use with CC/ CV, DC power sources.

Processes

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

Suggested Power Sources

- Millermatic® 252 (pg 10)
- Millermatic® 350P (pg 11)
- AlumaPower™ 350 MPa/450 MPa (pg 13)
- Deltaweld® Series (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)
- Trailblazer® (pg 56/58/60)

Most Popular Accessories

- XR-AlumaFeed™ (pg 13) or XR™-Controls (see below) – Required with most power sources. See Hook-Up Recommendations chart at left.
- Hardwire Liner Kit #198 377

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

XR™-S and XR™-D Controls

See Literature No. M/1.7

The updated XR-S and XR-D Controls offer unsurpassed performance and reliability for feeding aluminum and other difficult-to-feed wire types. The perfect choice for use with basic CV MIG power sources.



XR-S

XR-D

Portable!

Models include both .035- and factory-installed 3/64-in. drive rolls. Order 1/16-in. drive roll kit for control box separately (#195 591).

Miller recommends
MAXAL
aluminum wire
(see page 90).

Digital wire feed speed readout.

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.

Standard jog and purge as well as trigger hold for making long weldments without hand fatigue.

Adjustable wire run-in control allows arc starting to be fine tuned, reducing wire stubbing or arc flaring which can result in a bumback to the contact tip.

XR-D Model Additional Features

Digital weld voltage readout.

Remote voltage control plus basic programmable weld sequencing for preflow, postflow, start, and crater provide 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 Power Sources

- AlumaPower™ 350 MPa/450 MPa (pg 13)
- Deltaweld® Series (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)
- Trailblazer® (pg 56/58/60)

Suggested Guns

- XR™-Pistol (GMAW) (pg 26)
- XR-Aluma-Pro™ (GMAW) (see above)

Most Popular Accessories

- Optima™ MIG Pulse Control #043 389 (pg 91)
- Extension Cables (pg 96)
- PSA-2 Control #141 604 (pg 96)
- Gas Flowmeter Kit #246 127

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

Stock Number	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
(#300 601) XR-S (#300 687) XR-D	24 VAC, 50/60 or 100 Hz	50-900 IPM (1.3-23 m/min.)	.030-1/16 in. (0.8-1.6 mm) aluminum wire Drive roll kit #195 591 required to run 1/16-in. (1.6 mm) wire.	12 in. (305 mm)	H: 16 in. (406 mm) W: 9.25 in. (235 mm) D: 21.25 in. (540 mm)	42.5 lb. (19.2 kg)



22A and 24A

See Literature No. M/11.0

Includes Bernard Q300
15-foot MIG Welding Gun!

Simple to use, but built with the strength and flexibility to handle industrial manufacturing and fabricating, the 22A and 24A deliver proven reliability and economy.



Models include Bernard Q300 MIG gun and .035/.045-in. drive rolls and Centerfire™ contact tips! For more options, visit MillerWelds.com/equiptoweld (see page 17).

Both wire feeders are ideal for most high-duty-cycle applications requiring day-in/day-out trouble-free operation.

Trigger hold control for extended welds.

Two gear-driven drive rolls on 22A for smooth, positive wire feed. Four gear-driven drive rolls on 24A for larger wire sizes.

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

Heavy-duty 16-gauge metal enclosure for extra durability.

Remote voltage is standard on 24A.

Optional presettable voltage and wire feed speed on most power sources for 22A.

Industrial ● CV DC

Use with CV, DC power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Suggested Power Sources

- CP-302 (pg 15)
- Deltaweld® Series (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- Shopmate™ 300 DX (pg 45)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)

Suggested Guns

- Bernard® and Tregaskiss™ (pg 85)
- Roughneck® (GMAW) (pg 85)

Most Popular Accessories

- Digital Display #186 498
- Prewflow/Postflow and Spot Control #186 496
- Voltage Control (22A) #194 211

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

Model/Stock Number	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
22A (#951 190) (#951 191) w/Run-In Control (#951 192) w/Digital Display and Voltage Control	24 VAC, 7 A, 50/60 Hz	75-750 IPM (1.9-19 m/min.)	22A .023-5/64 in. (0.6-2.0 mm) 24A .023-3/32 in. (0.6-2.4 mm)	60-lb. (27 kg) coil with optional Wire Reel Assembly #108 008	H: 11 in. (279 mm) W: 10.75 in. (273 mm) D: 23.5 in. (597 mm)	22A 36 lb. (15.4 kg) 24A 40 lb. (18 kg)

70 Series

See Literature No. M/3.0

Includes Bernard Q400
15-foot MIG Welding Gun!

Raising the bar for industrial-class wire feeders with all the traditional features, plus enhanced flexibility provided by features such as trigger hold, automatic run-in, and toolless rotatable drive.



Models include Bernard Q400 MIG gun (two with D-74 models), .035/.045-in. drive rolls and Centerfire™ contact tips!

For more options, visit MillerWelds.com/equiptoweld (see page 17).

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

Automatic run-in control significantly improves arc starts. Run-in can be independently set on the DX model.

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

Includes 10-foot 14-pin interconnecting cord.

DX Model Additional Features

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

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

Welding process range control locks parameters at a set percentage of welding parameters to ensure welding procedures and quality standards are maintained.

Four weld programs allow the operators to store four independent welding parameters reducing weld setup time.

Heavy Industrial ● CV DC

Use with CV, DC power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Suggested Power Sources

- Deltaweld® Series (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- Dimension™ Series (pg 45)
- Dimension™ NT 450 (pg 45)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)

Suggested Guns

- Bernard® and Tregaskiss™ (pg 85)

Most Popular Accessories

- Feeder Cart #142 382 (pg 81)
- Aluminum Gun Kits – for pushing aluminum wire (pg 84)
- Control Detachment Kits (pg 88)
- Extension Cables (pg 88)
- Spool Adapter #047 141 (pg 88)
- Turntable Assy #146 236 (pg 88)
- Wire Straightener (pg 88)
- Hanging Bail #058 435
- Wire Reel Assembly #108 008
- Conversion Kit – For old power source to new 70 Series wire feeder #195 043
- .023-1/8 in. drive rolls

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

Models	Features
74S	Standard
74D	Digital Meters and Remote Voltage Control
74DX	Deluxe—Digital Full Feature

*See page 29 for single- and dual-wire 74 MPa Plus feeders that operate synergically with Invision 352 MPa or 450 MPa power sources.

Stock Number*	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
Single-Wire Models S-74S (#951 196) S-74S (#951 197) w/High-Speed Motor S-74D (#951 198) S-74D (#951 199) w/High-Speed Motor S-74DX (#951 200)	24 VAC, 10 A, 50/60 Hz	50-780 IPM (1.3-19.8 m/min.)	.023-1/8 in. (0.6-3.2 mm)	60-lb. (27 kg) coil with optional Wire Reel Assembly #108 008	Single H: 14 in. (356 mm) W: 12.5 in. (318 mm) D: 28 in. (711 mm)	Single 58 lb. (26 kg)
Dual-Wire Models D-74S (#951 203) D-74D (#951 204) D-74D (#951 205) w/High-Speed Motor D-74DX (#951 206) D-74DX (#951 207) w/High-Speed Motor		Optional Low Speed: 20-400 IPM (0.5-10.2 m/min.)	Low-speed motor option is recommended when using 1/8 in. (3.2 mm) wire.			
Single-Wire Models S-74D (#951 199) w/High-Speed Motor S-74DX (#951 201) w/High-Speed Motor S-74DX (#951 202) w/Low-Speed Motor		Optional High Speed: 92-1435 IPM (2.3-36.6 m/min.)			Dual H: 14 in. (356 mm) W: 21 in. (533 mm) D: 35 in. (889 mm)	Dual 87 lb. (39.5 kg)



70 Series MPa Plus See Literature No. M/3.0

**Includes Bernard Q400
15-foot MIG Welding Gun!**

The same great features and reliability of the traditional 70 Series with the added capability of push-pull aluminum, and more when optimized with the Invision MPa power source.



S-74 MPa Plus

D-74 MPa Plus



Models include Bernard Q400 MIG gun (two with D-74 models), .035/.045-in. drive rolls and Centerfire™ contact tips! For more options, visit MillerWelds.com/equiptoweld (see page 17).

Alumination™ technology gives you the ability to use the extended reach of a push-pull system for consistent, versatile and dependable aluminum wire feeding. Alumination gives you the versatility to handle whatever aluminum welding job you want to tackle.

Trigger schedule select allows the operator to select the alternative schedule by quickly tapping the gun trigger when not welding. When optimized with the Invision 352 MPa the operator can also switch from MIG to Pulsed MIG.

Accu-Mate™ properly seats the power pin for best feeding performance and prevents Accu-Mate grooved MIG guns from sliding in the casting.

Additional Features When Used With Invision 352 MPa and XMT 350 MPa Power Sources

Synergic Pulsed MIG operation when optimized with the Invision MPa power source. Provides communication between the power source, feeder and gun. As wire speed increases/decreases, the pulse parameters also increase/decrease to match the right amount of power needed.

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



NOW AVAILABLE! Remote configurations in 10-foot, 25-foot, or custom lengths at MillerWelds.com/equiptoweld.

Heavy Industrial **CV DC**

Use with CV, DC power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)
- Pulsed MIG (GMAW-P) with optional MPa power source

Suggested Power Sources

- Deltaweld® Series (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- Dimension™ Series (pg 45)
- Dimension™ NT 450 (pg 45)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)

Suggested Guns

- Bernard® and Tregaskiss™ (pg 85)
 - XR-AlumaPro™ Plus
- Dedicated XR-AlumaPro™ Plus guns work with MPa Plus feeders using tachometer feedback to coordinate wire feed speed of the gun and the feeder.



XR-Aluma-Pro™ Plus

- 15 ft., air-cooled #300 000 001
- 25 ft., air-cooled #300 001 001
- 35 ft., air-cooled #300 264 001
- 15 ft., water-cooled #300 003 001
- 25 ft., water-cooled #300 004 001
- 35 ft., water-cooled #300 265 001

Most Popular Accessories

- Feeder Cart #142 382 (pg 81)
 - Aluminum Gun Kits – for pushing aluminum wire (pg 84)
 - .035 in., 10 ft. (3 m) #300 541
 - .047 in., 12 ft. (3.7 m) #300 542
 - 1/16 in., 12 ft. (3.7 m) #300 543
 Includes .035-, .047- or 1/16-in. drive rolls and 10- or 12-ft. Bernard® Q-Gun™
 - Extension Cables (pg 88)
 - 25 ft. (7.6 m) #247 831 025
 - 50 ft. (15 m) #247 831 050
 - 80 ft. (24.4 m) #247 831 080
 - Spool Adapter #047 141 (pg 88)
 - Turntable Assy #146 236 (pg 88)
 - Wire Straightener (pg 88)
 - Hanging Bail #058 435
 - Wire Reel Assembly #108 008
 - Spool Covers
 - For S-74 and left side of D-74 models #057 607
 - For right side of D-74 models #090 389
 - 1/16-Inch (1.6 mm) Liner and Wire Kit #230 708
 - .023-5/64 in. drive rolls
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Model/Stock Number	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
Single-Wire Model S-74 MPa Plus (#951 291)	24 VAC, 10 A, 50/60 Hz	50-780 IPM (1.3-19.8 m/min.)	Hard Wire .035-5/64 in. (0.9-2.0 mm) Aluminum .035-1/16 in. (0.9-1.6 mm) Wire kit #230 708 required to run 1/16-in. (1.6 mm) aluminum wire.	60-lb. (27 kg) coil with optional Wire Reel Assembly #108 008	H: 14 in. (356 mm) W: 12.5 in. (318 mm) D: 28 in. (711 mm)	58 lb. (26 kg)
Dual-Wire Model D-74 MPa Plus (#951 292)					H: 14 in. (356 mm) W: 21 in. (533 mm) D: 35 in. (889 mm)	87 lb. (39.5 kg)



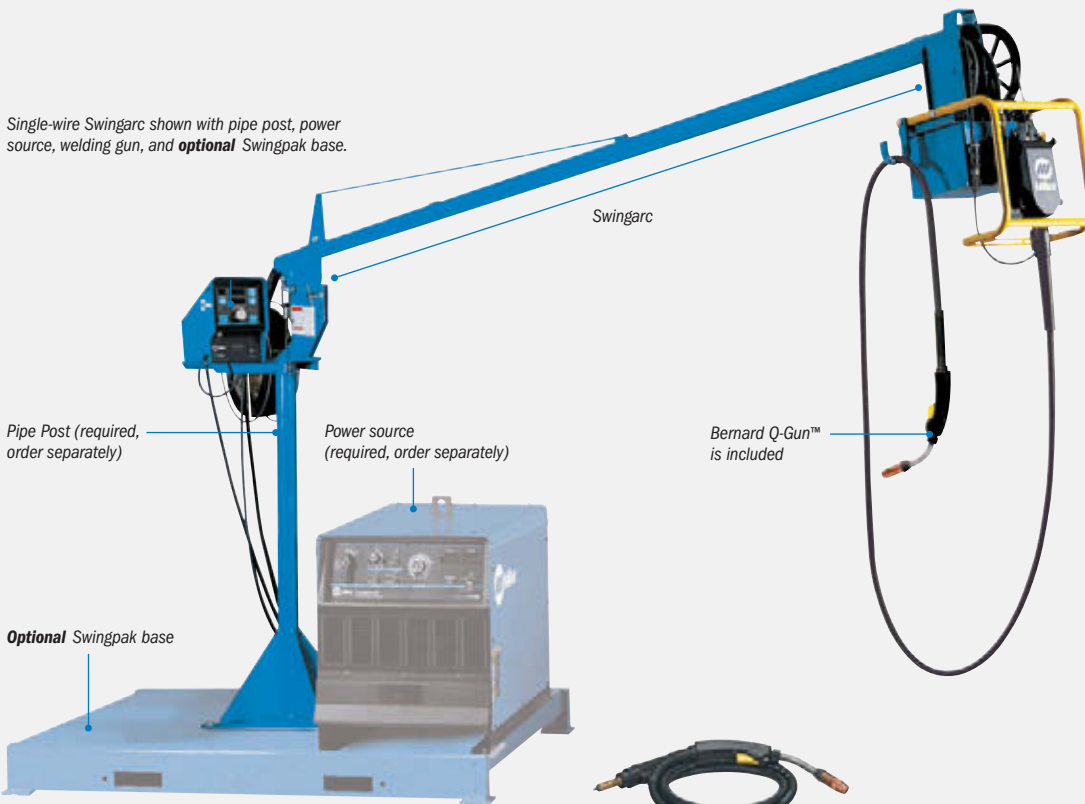
70 Series Swingarc™

See Literature No. M/13.11

Includes Bernard Q400
15-foot MIG Welding Gun!

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

Single-wire Swingarc shown with pipe post, power source, welding gun, and optional Swingpak base.



NOW AVAILABLE! MPa Plus Swingarcs. Optimized for the Invision MPa and XMT MPa power sources and available with single or dual feeders in three boom lengths.

Models in 8-, 12- or 16-foot lengths maximize output. The **unique counterbalance design** makes it easy and convenient to position the boom exactly where it is needed.

360-degree rotation and 60-degree lift angle maximizes work area (16-, 24- or 32-foot diameter work area).

Includes 10-foot 14-pin interconnecting cord.

In-boom cable routing organizes hoses and cables, protecting them from damage.

Quick-change drive rolls mean no tools are required by the operator to change drive rolls.



Models include Bernard Q400 MIG gun (two with D-74 models), .035/.045-in. drive rolls and Centerfire™ contact tips!

For more options, visit MillerWelds.com/equiptoweld (see page 17).

Heavy Industrial ● CV DC

Use with CV, DC power sources.

Processes

- MIG (GMAW) • Flux-Cored (FCAW)

Suggested Power Sources

- Deltaweld® Series (pg 15)
- Invision® 352 MPa/450 MPa (pg 16)
- Dimension™ Series (pg 45)
- Dimension™ NT 450 (pg 45)
- XMT® Series (except VS model) (pg 46)
- XMT® MPa Series (pg 47)

Suggested Guns

- Bernard® and Tregaskiss™ (pg 85)

Most Popular Accessories

- Extension Cables (pg 88)
- Wire Reel Assembly #108 008
- Swingpak™ Base #183 997
- Pipe Post with 18-in. Base
 - 4-ft. pipe #149 838
 - 6-ft. pipe #149 839
- Single/Dual Spool Carrier (Pipe Post not included)
 - For use with 4-ft. pipe #300 353
 - For use with 6-ft. pipe #300 352

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

Model	Stock Number with Single-Wire Feeders	Stock Number with Dual-Wire Feeders	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Net Weight with Feeder
8-ft. (2.4 m) Boom	SS-74S8 (#951 208) w/S-74S	DS-74S8 (#951 217) w/D-74S	24 VAC, 10 A, 50/60 Hz	50-780 IPM (1.3-19.8 m/min.) Consult factory for low- and high-speed motor options on non-MPa feeders.	.023-5/64 in. (0.6-2.0 mm)	60-lb. (27 kg) coil with optional Wire Reel Assembly #108 008	Single-Wire Feeder 110 lb. (50 kg)
	SS-74D8 (#951 211) w/S-74D	DS-74D8 (#951 220) w/D-74D					Dual-Wire Feeder 134 lb. (61 kg)
	SS-74DX8 (#951 214) w/S-74DX	DS-74DX8 (#951 223) w/D-74DX					
	SS-74MPa Plus-8 (#951 437) w/S-74 MPa Plus	DS-74MPa Plus-8 (#951 440) w/D-74 MPa Plus					
12-ft. (3.7 m) Boom	SS-74S12 (#951 209) w/S-74S	DS-74S12 (#951 218) w/D-74S					Single-Wire Feeder 160 lb. (73 kg)
	SS-74D12 (#951 212) w/S-74D	DS-74D12 (#951 221) w/D-74D					Dual-Wire Feeder 207 lb. (94 kg)
	SS-74DX12 (#951 215) w/S-74DX	DS-74DX12 (#951 224) w/D-74DX					
	SS-74MPa Plus-12 (#951 438) w/S-74 MPa Plus	DS-74MPa Plus-12 (#951 441) w/D-74 MPa Plus					
16-ft. (4.9 m) Boom	SS-74S16 (#951 210) w/S-74S	DS-74S16 (#951 219) w/D-74S					Single-Wire Feeder 210 lb. (95 kg)
	SS-74D16 (#951 213) w/S-74D	DS-74D16 (#951 222) w/D-74D					Dual-Wire Feeder 280 lb. (127 kg)
	SS-74DX16 (#951 216) w/S-74DX	DS-74DX16 (#951 225) w/D-74DX					
	SS-74MPa Plus-16 (#951 439) w/S-74 MPa Plus	DS-74MPa Plus-16 (#951 442) w/D-74 MPa Plus					

SMAW **STICK**



MORE on the WEB

MillerWelds.com/Stick

Product Guide

	Page	Class	Stick	DC TIG	DC TIG-P	Flux-Cored*	CAC-A	Portability	Weldable Metals	Welding Amperage Range	Special Features	Typical Applications	
Thunderbolt® XL 225 AC	32	●	●					Optional running gear	Steel, stainless	30-235 AC	Infinite control	Education, maintenance/repair, farm	1-Phase
Thunderbolt® XL 225 AC/150 DC	32	●	●							30-235 AC 30-160 DC	Infinite control	Education, maintenance/repair, farm	
Maxstar® 150 S	32	●	●							Shoulder strap, optional case	20-150 DC	115-230 V Auto-Line™ MVP™ plugs	
Maxstar® 200 STR	33	●	●	●				Shoulder strap, handle, optional cart	Most metals	1-200 DC	115-460 V Auto-Line™ Stick/TIG machine	Construction, fabrication, pipe, steel erection, shipbuilding	1 & 3-Phase
CST™ 280	33	●	●	●				Handle, optional cart		5-280 DC	High output, portable at 41 lb., also available in multi-unit rack	Construction, fabrication, pipe, steel erection, shipbuilding	
XMT® Series	46	●	See the Multiprocess section on page 44.										
Gold Star® 302	32	●	●	●	●	●	1/4"	Lift eye, optional running gear	Most metals	15-395 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries	3-Phase
Gold Star® 452	32	●	●	●	●	●	5/16"			20-590 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries	
Gold Star® 652	32	●	●	●	●	●	3/8"			50-850 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries	
Dimension™ Series	45	●	See the Multiprocess section on page 44.										

PRODUCT KEY

CLASS: ● Light Industrial ● Industrial ● Heavy Industrial CAPABILITY: ● Designed for this process ● Capable of this process
 *Constant-current (Stick) machines can utilize voltage-sensing wire feeders for some Flux-Cored applications.
 For more detailed information, see individual specification sheets.

Also see the TIG section (page 34) for machines that can Stick weld.

Thunderbolt® XL 225 AC and 225 AC/150 DC

See Literature No. AC/2.0 for AC model and AD/8.0 for AC/DC model



Thunderbolt XL 225 AC shown.

Economical Stick machines with precise, dependable control.

- **Accu-Set™** amperage indicator.
- **Unit allows higher duty cycle when amperage decreases.**
- **Infinite current control.**
- **Output selector switch on AC/DC units.**
- **Certified by Canadian Standards Association to both the Canadian and U.S. Standards.**

Light Industrial ● **CC AC DC 1** Phase 225 AC model is AC only.

Process • Stick (SMAW)

Comes Complete With

- 15-ft. (4.5 m) No. 4 electrode cable with heavy-duty electrode holder
- 10-ft. (3 m) work cable with clamp
- Power cord with plug

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

Model	Stock Number	Welding Amperage Ranges	Rated Output at 20% Duty Cycle, 60 Hz (15% Duty Cycle, 50 Hz)	Rated Output at 100% Duty Cycle	Amps Input at Rated Output 220 V 230 V	Max. Open-Circuit Voltage	Dimensions	Net Weight
Thunderbolt XL 225 AC (CSA)	(#903 641) 230 V, 50/60 Hz	AC 30-235	AC 225 A at 25 VAC	AC 100 A	— 47.5	80	H: 18.75 in. (476 mm) W: 12.75 in. (323 mm) D: 17.5 in. (445 mm)	85 lb. (39 kg)
Thunderbolt XL 225 AC/150 DC (CSA)	(#903 642) 230 V, 50/60 Hz	AC 30-235 DC 30-160	AC 225 A at 25 V DC 150 A at 25 V	AC 100 A DC 65 A	— 47.5	80		104 lb. (47 kg)

Gold Star® Series

See Literature No. DC/8.1



See pages 42 and 43 for wireless remote controls.

Gold Star 452 shown.

Rugged, reliable performance and superior arc characteristics.

- **Hot Start™** and built-in arc control.
- **Enclosed circuit board.**
- **Thermal overload protection with light.**
- **Fan-On-Demand™**
- **15 A, 115 VAC duplex receptacle.**
- **Power efficient.**
- **Remote control capability.**
- **Optional digital volt and amp meters.**

Heavy Industrial ● **CC DC 3** Phase

Processes

- Stick (SMAW) • TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Carbons — 302: 1/4 in., 452: 5/16 in., 652: 3/8 in.)
- Flux-Cored (FCAW)
- MIG Spray Transfer (GMAW) with voltage-sensing feeder

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

Model	Stock Number	Amperage Range in CC Mode	Rated Output	Amps Input at Rated Output, 60 Hz 200 V 230 V 460 V 575 V	KVA KW	Max. Open-Circuit Voltage	Dimensions (Includes lift eye and strain relief.)	Net Weight
Gold Star 302	(#903 373) 200(208)/230/460 V (#903 398) 230/460/575 V	15-395	300 A at 32 VDC, 60% Duty Cycle	70 61 31 25	24.5 13.8	72 VDC	H: 30 in. (762 mm) W: 23 in. (585 mm) 302 D: 30.5 in. (775 mm) 450 D: 38 in. (966 mm) 675 D: 38 in. (966 mm)	352 lb. (160 kg)
Gold Star 452	(#903 374) 200(208)/230/460 V (#903 400) 230/460/575 V	20-590	450 A at 38 VDC, 60% Duty Cycle	102 89 45 36	35.5 23.3	72 VDC		404 lb. (183 kg)
Gold Star 652	(#903 402) 230/460/575 V	50-850	650 A at 44 VDC, 60% Duty Cycle	— 124 62 50	49.4 36	72 VDC		505 lb. (229 kg)

Maxstar® 150 S

See Literature No. DC/27.0

Best in class—provides maximum portability and performance in the most compact Stick package in the industry. Packs dependability and performance all in one machine.



Maxstar 150 S with Case (#907 134-01-2) shown.

Multi-voltage plug (MVP™) allows connection to 115 or 230 V receptacles without tools—choose the plug that fits the receptacle and connect it to the power cord.

AUTO-LINE™ Power Management Technology Auto-Line™ circuitry automatically connects to 115-230 VAC, single-phase power without removing the covers to relink the power source.

Portable with adjustable shoulder strap. At 13.2 pounds you can take it anywhere.

Adaptive Hot Start™ for Stick arc starts prevents electrode from sticking.

Single amperage range allows operator to accurately set amperage on both 115 or 230 V primary power.

Light Industrial ● **CC DC 1** Phase

Process • Stick (SMAW)

#907 134 Comes Complete With

- Primary cord and MVP™ plugs
- 13-ft. (4 m) lead with electrode holder and 25-mm Dinse connector
- 10-ft. (3 m) work lead with clamp and 25-mm Dinse connector

#907 134-01-2 Includes Above Plus

- Protective X-CASE™
- **Most Popular Accessories**
- MVP™ Plugs (pg 86)
- Protective X-CASE™ #300 184 (pg 86)

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

Stock Number	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
(#907 134) 115-230 VAC, 50/60 Hz	115 VAC	20-100	100 A at 24 VDC, 35% Duty Cycle	26.4	3.0	3.0	90 (12-16 VDC*)	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	13.2 lb. (6.0 kg)
(#907 134-01-2) 115-230 VAC, 50/60 Hz w/Case	230 VAC	20-150	150 A at 26 VDC, 30% Duty Cycle	21.6	4.9	4.7			



Industrial **CC DC 3 1**
Phase Phase

Maxstar® 200 STR See Literature No. DC/29.5

Unit provides maximum flexibility by automatically connecting to any input power while maintaining the best DC Stick/TIG welding performance in its product class.



Allows for any input voltage hook-up (115-460 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable input power.

Low OCV Stick™ model reduces open-circuit voltage to 9-14 VDC when power source is not in use. This built-in circuit design eliminates the need for add-on voltage reducers. See chart below for Low OCV model stock number.

Excellent for thin and medium wall pipe welding.

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

Remote amperage control provided through 14-pin receptacle on front of the machine.

Adaptive Hot Start™ for Stick arc starts automatically increases output amperage at start of weld should the start require it. Prevents electrode from sticking and creating an inclusion.

Portable with adjustable shoulder strap. At 32 pounds you can take it anywhere.

Processes

• Stick (SMAW) • TIG (GTAW)

Comes Complete With

- 8-ft. (2.4 m) primary cord
- Two 50-mm Dinse connectors

Most Popular Accessories

- Air-Cooled TIG Torch Adapter #195 378 (pg 80)
 - Protective Cover #195 321 (pg 87)
 - RCCS-14 Remote Fingertip Control #043 688 (pg 87)
 - RFCS-14 HD Remote Foot Control #194 744 (pg 87)
 - Weldcraft® WP17V12RM TIG Torch
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Note: See page 36 in the TIG section for Maxstar 200 Series.
*Sense voltage for Stick and Lift-Arc TIG.

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	
					115 V	230 V	400 V	460 V	KVA	KW				
#907 036) Low OCV #907 036-00-1) Normal OCV	Stick	Three-Phase	1-200	150 A at 26 V, 60% Duty Cycle	—	13.1	7.4	6.4	5.2	5.0	70 VDC (9-14 VDC*)	H: 13.5 in. (343 mm) W: 7.5 in. (191 mm) D: 17.5 in. (445 mm)	32 lb. (14.5 kg)	
		Single-Phase	1-200 (1-90 on 115 VAC)	150 A at 26 V, 60% Duty Cycle 125 A at 25 V, 50% Duty Cycle	—	21.7	—	—	5.0	5.0				4.0
	TIG	Three-Phase	1-200	175 A at 17 V, 60% Duty Cycle	—	10.5	6.0	5.2	4.2	4.0	70 VDC (9-14 VDC*)			
		Single-Phase	1-200 (1-150 on 115 VAC)	175 A at 17 V, 60% Duty Cycle 150 A at 16 V, 70% Duty Cycle	—	17.4	—	—	4.0	4.0				29.7

CST™ 280 See Literature No. DC/29.55

Durable Stick/TIG power source in a lightweight package designed for the construction industry. 280 amps of output is ideal for Stick electrodes up to 3/16-inch and TIG welding of pipe and plate.



Easy voltage changeover between voltage ranges through a two-position manual switch. Conveniently located on the rear panel, it simplifies voltage change in racks.

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

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

Fan-On-Demand™ cooling system operates only when needed providing power efficiency and noise reduction.

Stand-alone or rack-mounted. Optional 4-pack or 8-pack rack often used in construction/shipyards is available for multioperator applications. All controls including power switch are located on front of machine for easy access. See page 50.

Remote amperage control provided through 14-pin receptacle on front of the machine. This permits use of standard amperage control devices.

Tweco®- or Dinse-style connectors available. The Dinse-style includes one set of male connectors; the Tweco-style does not.

Industrial **CC DC 3 1**
Phase Phase

Processes

• Stick (SMAW) • TIG (GTAW)

Most Popular Accessories

- Wireless Remote Hand Control #300 430 (pg 43)
- CST 280 Rack (pg 50)
- RCC-14 Remote Fingertip Control #151 086 (pg 87)
- RCCS-14 Remote Fingertip Control #043 688 (pg 87)
- RFCS-14 Remote Foot Control #043 554 (pg 87)
- RFCS-14 HD Remote Foot Control #194 744 (pg 87)
- RHC-14 Remote Hand Control (pg 87) 20 ft. (6 m) #242 211 020 100 ft. (30.5 m) #242 211 100
- For TIG torches see Lit. No. DC/29.55

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



See pages 42 and 43 for wireless remote controls.

Note: Primary input current draw is limited to 50 amps.

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
#907 244) Dinse-style 220-230/460-575 V #907 244-01-1) Tweco-style 220-230/460-575 V	Stick/TIG	Three-Phase	5-280	280 A at 31.2 V, 35% Duty Cycle 200 A at 28 V, 100% Duty Cycle	—	35.0	34.2	—	—	17.8	14.7	14.6	10.2	77 VDC	H: 13.5 in. (343 mm) W: 7.5 in. (191 mm) D: 18 in. (457 mm)	41 lb. (18.6 kg)
			5-200	200 A at 28 V, 50% Duty Cycle 150 A at 26 V, 100% Duty Cycle	—	43.9	43.0	—	—	—	—	10.1	6.6			
#907 251) Dinse-style 208-230/400-460 V #907 251-01-1) Tweco-style 208-230/400-460 V	Stick/TIG	Three-Phase	5-280	280 A at 31.2 V, 35% Duty Cycle 200 A at 28 V, 100% Duty Cycle	36.0	33.0	28.8	19.8	18.0	17.5	—	14.0	10.2	67 VDC		
			5-200	200 A at 28 V, 50% Duty Cycle 150 A at 26 V, 100% Duty Cycle	43.9	43.3	43.0	—	—	—	—	9.9	6.5			



TIG GTAW



MORE on the WEB

MillerWelds.com/TIG

Power Source Welding Performance		DC					AC/DC							
		Maxstar® 150 (Pg 35)	Maxstar® 200 (Pg 36)	Maxstar® 280 (Pg 36)	Maxstar® 350 (Pg 36)	Maxstar® 700 (Pg 36)	Dynasty® 200 (Pg 38)	Dynasty® 280 (Pg 38)	Dynasty® 350 (Pg 38)	Dynasty® 700 (Pg 38)	Syncrowave® 200 (Pg 41)	Syncrowave® 250 DX (Pg 41)	Syncrowave® 350 LX (Pg 41)	Diversion™ 165/180 (Pg 40)
Output	Min. - Max. (Amps)	5-150 A	1-200 A	1-280 A	3-350 A	5-700 A	5-200 A (AC) 1-200 A (DC)	2-280 A (AC) 1-280 A (DC)	3-350 A	5-700 A	5-200 A	3-310 A	3-400 A	10-180 A (Up to 165 A w/165 model)
AC TIG Material Thickness	Min. - Max. (Aluminum/Magnesium)	-	-	-	-	-	.020-1/4 in.	.012-3/8 in.	.015-5/8 in.	.020-1 in.	.020-1/4 in.	.015-3/8 in.	.015-1/2 in.	.030-3/16 in.
DC TIG Material Thickness	Min. - Max. (Mild Steel/Stainless Steel/Exotic Metals)	.020-3/16 in.	.004-1/4 in.	.004-3/8 in.	.012-5/8 in.	.020-1 in.	.004-1/4 in.	.004-3/8 in.	.012-5/8 in.	.020-1 in.	.020-1/4 in.	.012-1/2 in.	.012-5/8 in.	.025-3/16 in.
Stick Max. Electrode Diameter	E6010 - 6011	1/8 in.	3/16 in.	7/32 in.	5/16 in.	5/16 in.	3/16 in.	7/32 in.	5/16 in.	5/16 in.	3/16 in.	1/4 in.	5/16 in.	-
	E6013	1/8 in.	3/16 in.	3/16 in.	5/16 in.	5/16 in.	3/16 in.	3/16 in.	5/16 in.	5/16 in.	3/16 in.	1/4 in.	5/16 in.	-
	E7018	1/8 in.	5/32 in.	3/16 in.	1/4 in.	5/16 in.	5/32 in.	3/16 in.	1/4 in.	5/16 in.	5/32 in.	7/32 in.	1/4 in.	-
	E7024	3/32 in.	1/8 in.	3/16 in.	1/4 in.	5/16 in.	1/8 in.	3/16 in.	1/4 in.	5/16 in.	1/8 in.	3/16 in.	1/4 in.	-
Stick Process Quality	E6010 - 6011	★6011*	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★	★★	★★	-
	E6013	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★	★★	★★	-
	E7018	★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★	★★	★★	-
	E7024	★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★	★★	★★	-
Carbon Arc Gouging	Max. Electrode Diameter	-	5/32 in.	3/16 in.	1/4 in.	3/8 in.	5/32 in.	3/16 in.	1/4 in.	3/8 in.	5/32 in.	3/16 in.	1/4 in.	-
	Balance Control						●	●	●	●	●	●	●	
Features	AC Frequency						●	●	●	●				
	Pulse Capability	0.5, 1, 2.5, 60 PPS (STH Model)	0.1-500 PPS (DX Model)	0.01-250 PPS (Base) 0.01-500 PPS (DX)	0.1-5000 PPS	0.1-5000 PPS	0.1-500 PPS (DX Model)	0.01-250 PPS (Base, DC) 0.01-500 PPS (DX)	0.1-500 PPS (AC) 0.1-5000 PPS (DC)	0.1-500 PPS (AC) 0.1-5000 PPS (DC)	0.1-15 PPS	0.25-10 PPS (Optional)	0.25-10 PPS	-
	Generator Power Requirement	5 kW	5.5 kW	8 kW	12 kW	32 kW	8.5 kW	11 kW	13 kW	35 kW	12.5 kW	22 kW	30 kW	5.5 kW

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 New! or Improved! products appear in blue type. *For best results choose 6011.



Maxstar® 150 STL and STH DC TIG and Stick

See Literature No. DC/27.1 and DC/27.2

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



Welding Capability

Max. 3/16 in. (4.8 mm)

Steel

Min. 0.020 in. (0.5 mm)

Maxstar 150 STH TIG/Stick Package with Remote Fingertip Control, and Case (#907 136-01-7) shown.

Two models available.

STL: DC TIG/Stick with Lift-Arc starting without the use of high frequency.

STH: DC TIG/Stick with HF and Lift-Arc starting, plus built-in pulsing with a selection of four fixed-pulse frequencies.

Multi-voltage plug (MVP™) allows connection to 115 or 230 V receptacles without tools—choose the plug that fits the receptacle and connect it to the power cord.



Allows for any input voltage hook-up (115–230 V) with no manual linking, providing convenience in any job setting.

Portable with adjustable shoulder strap.

At 13.7 pounds you can take it anywhere.

Built-in gas solenoid eliminates the need for bulky torch with a gas valve.

Light Industrial ● CC DC 1 Phase

Processes

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P) w/STH model

Maxstar 150 STL and STH Comes With

- Primary cord and MVP™ plugs
- 13-ft. (4 m) lead with electrode holder and 25-mm Dinse connector
- 10-ft. (3 m) work lead with clamp and 25-mm Dinse connector

TIG/Stick Package Includes Above Plus

- Weldcraft® WP1712RD125 TIG torch
- Protective carrying case
- Smith® flow gauge regulator with hose
- Remote Fingertip Control (only in packages #907 135-01-7 and #907 136-01-7)

Most Popular Accessories

- Protective X-CASE™ #300 184 (pg 86)
- RCCS-6M Remote Fingertip Control (pg 87) #195 184
- RFCS-6M Remote Foot Control (pg 87) #195 183
- Remote Controls (pg 87)

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

Note: See page 32 in the Stick section for Maxstar 150 S. *Sense voltage for Stick and Lift-Arc™ TIG.

Model / Stock Number	Welding Process	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
Maxstar 150 STL (#907 135) Machine only (#907 135-01-6) TIG/Stick Package (#907 135-01-7) TIG/Stick Package with Remote Fingertip Control	TIG	115 VAC	5–150	150 A at 16 VDC, 30% Duty Cycle	28.0	3.4	3.1	90 VDC (12–16 VDC*)	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	13.7 lb. (6.2 kg)
		230 VAC	5–150	150 A at 16 VDC, 30% Duty Cycle	14.2	3.2	3.1			
Maxstar 150 STH (#907 136) Machine only (#907 136-01-7) TIG/Stick Package with Remote Fingertip Control	Stick	115 VAC	20–100	100 A at 24 VDC, 35% Duty Cycle	26.4	3.0	3.0			
		230 VAC	20–150	150 A at 26 VDC, 30% Duty Cycle	21.6	4.9	4.7			

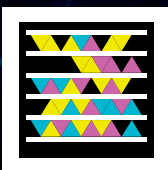


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- Helpful welding tips and how-to instruction
- Product overviews and demonstrations
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Maxstar® Series

DC TIG and Stick

For carbon, steel, stainless, and other exotic alloys

Compared to conventional technology, Maxstar welders give you:

- Increased productivity
- Improved weld quality
- Reduced energy costs
- Greater portability and space savings



See pages 42 and 43 for wireless remote controls.



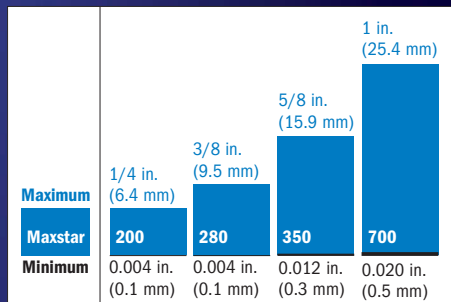
Maxstar Features

Feature	200			280		350	700
	SD	DX	LX	-	DX		
Auto-Line (115-460 V)	●	●	●				
Auto-Line (208-575 V)				●	●	●	●
Blue Lightning HF	●	●	●	●	●	●	●
Lift-Arc	●	●	●	●	●	●	●
Hot Start	●	●	●	●	●	●	●
DIG (Arc Force)				● ¹	● ¹	●	●
Digital Meters				●	●	●	●
Trigger Options	●	●	●	○	●	●	●
Preflow				○	●	●	●
Auto-postflow	●	●	●	○	●	●	●
Pulsar		●	●	○ ¹	● ¹	●	●
Sequencer		●	●			●	●
Meter Calibration				●	●	●	●
Sleep Timer				●	●	●	●
Software Upgradeable				●	●	●	●
Cooler Aux. Power				● ²	● ²	●	●
Program Memory						●	●
Automation Connection			●			○	○

● Standard ○ Limited ● Optional

¹Auto-Set capable parameter. ²Water-cooled package only.

Steel Welding Capability



Allows for any input voltage hook-up with no manual linking, providing convenience in any job setting.

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

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

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

Fan-On-Demand™ cooling system only operates when needed to reduce noise, energy use and contaminants pulled through the machine.

Auto-postflow calculates the length of postflow time based on the amperage setting. Eliminates need to independently set postflow time.

Maxstar 200 Additional Features See Literature No. DC/32.0

Three models available. SD model provides basic TIG and Stick functions. DX and LX models add pulser and sequencer functions while the LX model also adds an automation connection.

Portable with adjustable shoulder strap. At 37 pounds you can take it anywhere.

Note: See page 33 in the Stick section for Maxstar 200 STR.

COMING SOON! Maxstar 280 Additional Features See Literature No. DC/35.0

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

Portable with adjustable shoulder strap. At 44 pounds you can take it anywhere.

Sleep timer conserves electricity by powering down the system if left idle for a user-adjustable amount of time.

SD card memory slot for easy software upgrades.

Pro-Set™ provides the speed, convenience and confidence of recommended professional settings for balance, frequency, pulse and DIG.

Voltage Reduction Device (VRD) is menu selectable and reduces OCV when welder is idle.

Cooler Power™ (included on water-cooled packages only) to power Coolmate™ 1.3 cooler.

Maxstar 350/700 Additional Features See Literature No. DC/24.0

High-speed DC TIG pulse controls capable of 5000 pulses per second.

120 V auxiliary power dual receptacle to power cooling system or small tools.

Program memory features nine program memories that maintain/save your parameters.



COMING SOON! Maxstar 280

Choose the model that fits your needs. The Maxstar 280 offers a choice between essential features with limited ranges or fully featured with extended ranges.



The base model has an **operator-friendly control panel** that provides the essential features for industrial customers. Simply select the process, set the amperage and weld. Arc tailoring parameters are available for unique application by accessing the menu button.



- Maxstar 280**
- Essential features
 - Limited ranges
 - Pro-Set™ parameter settings
 - SD memory slot



- Maxstar 280 DX**
- Full-featured
 - Extended ranges
 - Pro-Set™ parameter settings
 - SD memory slot

Models/ Packages



Industrial ● 200/280 models
Heavy Industrial ● 350/700 models



Processes

- TIG (GTAW) ▪ Stick (SMAW)
- Pulsed TIG (GTAW-P) except 200 SD model
- Air Carbon Arc (CAC-A)

Maxstar 200, 280 and 350 Come With

- 8-ft. (2.4 m) primary cord (no plug)
- Two 50-mm Dinse connectors
- Air-cooled torch adapter #195 378 (except 350 model)
- Setup video and reference guide

Maxstar 700 Comes With

- Thread-lock torch adapter
- Two thread-lock weld cable connectors
- Setup video and reference guide
- Power cord NOT included, must be ordered separately

Most Popular Accessories

- Remote Controls (pg 43 and 87)
 - Wireless Foot #300 429
 - RFCS-14 HD Foot Control #194 744
 - RCCS-14 Fingertip Control #043 688
- Carts (pg 81)
- Coolers (pg 82)
 - Coolant (4 Gallons) #043 810 (pg 82)
- Contractor Kit with RFCS-14 HD Foot Control #195 054 (pg 87)
- Contractor Kit with RCCS-14 HD Fingertip Control #195 055 (pg 87)
- Weldcraft® Water-Cooled Torch Kits (pg 87)
 - 250 A Torch Kit #300 185 (200)
 - 280 A Torch Kit #300 990 (280)
 - 300 A Torch Kit #300 183 (350)
 - 700 A Torch Kit #300 186 (700)

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

Model	Machine Only	Air-Cooled Packages (Machine/Contractor Kit)		Water-Cooled (Machine/Cart/Cooler)	Water-Cooled Complete Packages (Machine/Cart/Cooler/Remote/Torch Kit)		
		Fingertip Control Contractor	Foot Control Contractor	TIGRunner	Fingertip Control Complete	Foot Control Complete	Wireless Foot Control Complete
Maxstar 200 SD	(#903 701)	–	–	–	–	–	–
Maxstar 200 DX	(#903 701-01-1)	(#951 173)	(#951 172)	(#903 701 02-2)	(#951 138)	(#951 137)	(#951 396)
Maxstar 200 LX	(#903 701-01-2)	–	–	–	–	–	–
Maxstar 280	(#907 538)	(#951 470)	(#951 471)	(#907 538 00-2)	–	(#951 472)	–
Maxstar 280 DX	(#907 539)	–	–	(#907 539 00-1)	–	–	(#951 473)
Maxstar 350	(#907 334)	–	–	(#907 334 00-1)	–	(#951 399)	(#951 400)
Maxstar 700	(#907 103)	–	–	–	–	–	–

Notes: Duty cycle for Maxstar 200 is limited on 115 V power. Coolmate 1 used with the Maxstar 200 must be plugged into a 115 V source (wall). *Derate duty cycle by 20 percent. **Sense voltage for Low OCV Stick and Lift-Arc™ TIG.

Model	Welding Process	Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz				Max. Open-Circuit Voltage	Machine Only Dimensions	Complete Package Dimensions	Net Weight					
					115 V	208 V	230 V	400 V	460 V	575 V	KVA	KW					
Maxstar 200	TIG	3-Phase	1-200	175 A at 17 V, 60% Duty Cycle	–	–	11	6	5	–	4.2	4.0	80 VDC (9-14 VDC*)	H: 13.5 in. (343 mm) W: 7.5 in. (191 mm) D: 17.5 in. (445 mm)	H: 46.25 in. (1175 mm) W: 23.5 in. (597 mm) D: 22.25 in. (565 mm)	Machine 37 lb. (16.8 kg) Complete 129 lb. (59 kg)	
			1-200	175 A at 17 V, 60% Duty Cycle	–	–	17	–	–	–	4.0	4.0					
			1-150 (115 V)	150 A at 16 V, 70% Duty Cycle	30	–	14	–	–	–	3.4	3.4					
	Stick	3-Phase	1-200	150 A at 26 V, 60% Duty Cycle	–	–	13	7	6	–	5.2	5.0					
			1-Phase	1-200	150 A at 26 V, 60% Duty Cycle	–	–	22	–	–	–	5.0					5.0
			1-90 (115 V)	125 A at 25 V, 50% Duty Cycle	34	–	–	–	–	–	4.0	3.8					
Maxstar 280	TIG	3-Phase	1-280	250 A at 20 V, 60% Duty Cycle	–	20	19	11	9	8	7.3	7.0	60 VDC (11 VRD**)	H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.4 in. (569 mm)	H: 33.5 in. (851 mm) W: 19.4 in. (493 mm) D: 41.4 in. (1052 mm)	Machine 44 lb. (20 kg) Complete 134 lb. (61 kg)	
			1-Phase	1-280	250 A at 20 V, 60% Duty Cycle	–	35*	32	18	16	13	7.2					7.1
	Stick	3-Phase	5-280	250 A at 30 V, 60% Duty Cycle	–	29*	26	15	13	11	10.2	9.8					
			1-Phase	5-280	200 A at 28 V, 60% Duty Cycle	–	37	33	19	16	9	7.6					7.4
Maxstar 350	TIG/ Stick	3-Phase	3-350	300 A at 32 V, 60% Duty Cycle	–	33	30	17	15	12	12.0	11.5	75 VDC (10-15 VDC**)	H: 24.75 in. (629 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)	H: 45.125 in. (1146 mm) D: 43.75 in. (1111 mm)	Machine 135 lb. (61 kg) Complete 308 lb. (140 kg)	
			1-Phase	3-350	225 A at 29 V, 60% Duty Cycle	–	41	37	–	19	15	8.6					8.2
Maxstar 700	TIG/ Stick	3-Phase	5-700	600 A at 44 V, 60% Duty Cycle	–	89	80	46	40	32	32	31	75 VDC (10-15 VDC**)	H: 34.5 in. (876 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)	–	Machine 198 lb. (90 kg)	
			1-Phase	5-700	450 A at 38 V, 60% Duty Cycle	–	106	96	–	48	38	22					21



Dynasty® Series

AC/DC TIG and Stick

For aluminum, carbon, steel, stainless, and other exotic alloys

Compared to traditional technology, Dynasty welders give you:

- Advanced AC TIG technology for aluminum
- Increased productivity
- Improved weld quality
- Reduced energy costs
- Greater portability and space savings

Dynasty Features

Feature	200		280		350	700
	SD	DX	—	DX		
Auto-Line (115–460 V)	●	●				
Auto-Line (208–575 V)	●	●				
Blue Lightning HF Lift-Arc	●	●	●	●	●	●
Hot Start	●	●	●	●	●	●
DIG (Arc Force)	●	●	● ¹	● ¹	●	●
Digital Meters	●	●	●	●	●	●
Trigger Options	●	●	○	●	●	●
Preflow	●	●	○	●	●	●
Auto-postflow	●	●	○	●	●	●
AC Waveforms	●	●	○	●	●	●
AC Balance	●	●	○	●	●	●
AC Frequency	●	●	○	●	●	●
AC Amplitude	●	●	○	●	●	●
Pulsar			○ ¹	● ¹	●	●
Sequencer		●				
Meter Calibration			●	●	●	●
Sleep Timer			●	●	●	●
Software Upgradable			●	●	●	●
Cooler Aux. Power			● ²	● ²	●	●
Program Memory					●	●
Automation Connection					○	○

● Standard ○ Limited ● Optional

¹Auto-Set capable parameter. ²Water-cooled package only.

Steel and Aluminum Welding Capability

Maximum Dynasty	Steel			
	200	280	350	700
1/4 in. (6.4 mm)	0.004 in. (0.1 mm)	0.004 in. (0.1 mm)	0.012 in. (0.3 mm)	0.020 in. (0.5 mm)
3/8 in. (9.5 mm)				
5/8 in. (15.9 mm)				
1 in. (25.4 mm)				
Minimum	Aluminum			
	200	280	350	700
0.020 in. (0.5 mm)	0.012 in. (0.3 mm)	0.015 in. (0.38 mm)	0.020 in. (0.5 mm)	



See pages 42 and 43 for wireless remote controls.



Allows for any input voltage hook-up with no manual linking, providing convenience in any job setting.

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

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

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

Fan-On-Demand™ cooling system only operates when needed to reduce noise, energy use and contaminants pulled through the machine.

Auto-postflow calculates the length of postflow time based on the amperage setting. Eliminates need to independently set postflow time.

AC balance (30–99%) controls amount of oxide cleaning enabling high-quality TIG welds on aluminum (280 base model has 60–80% range).

AC waveforms include advanced squarewave, soft squarewave, sine wave and triangular wave (280 base model has soft squarewave only).

AC frequency controls the width and the force of the arc in TIG welding (280 base model has limited range) and adds stability.

Dynasty 200 Additional Features See Literature No. AD/4.8

Two models available. SD model provides basic TIG and Stick functions. DX model adds pulser and sequencer functions.

Portable with adjustable shoulder strap. At 45 pounds you can take it anywhere.

COMING SOON! Dynasty 280 Additional Features See Literature No. AD/4.9

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

Portable with adjustable shoulder strap. At 50 pounds you can take it anywhere.

Sleep timer conserves electricity by powering down the system if left idle for a user-adjustable amount of time.

SD card memory slot for easy software upgrades.

Pro-Set™ provides the speed, convenience and confidence of recommended professional settings for balance, frequency, pulse and DIG.

Voltage Reduction Device (VRD) is menu selectable and reduces OCV when welder is idle.

Cooler Power™ (included on water-cooled packages only) to power Coolmate™ 1.3 cooler.

Dynasty 350/700 Additional Features See Literature No. AD/5.0

AC amperage allows independent amperages to precisely control heat input.

High-speed DC TIG pulse controls capable of 5000 pulses per second.

120 V auxiliary power dual receptacle to power cooling system or small tools.

Program memory features nine program memories that maintain/save your parameters.



COMING SOON! Dynasty 280

Choose the model that fits your needs. The Dynasty 280 offers a choice between essential features with limited ranges or fully featured with extended ranges.



The base model has an **operator-friendly control panel** that provides the essential features for industrial customers. Simply select the process, set the amperage and weld. Arc tailoring parameters are available for unique application by accessing the menu button.



- Dynasty 280**
- Essential features
 - Limited ranges
 - Pro-Set™ parameter settings
 - SD memory slot



- Dynasty 280 DX**
- Full-featured
 - Extended ranges
 - Pro-Set™ parameter settings
 - SD memory slot

Industrial ● 200/280 models
Heavy Industrial ● 350/700 models



Processes

- TIG (GTAW) ▪ Stick (SMAW)
- Pulsed TIG (GTAW-P) except 200 SD model
- Air Carbon Arc (CAC-A)

Dynasty 200, 280 and 350 Come With

- 8-ft. (2.4 m) primary cord (no plug)
- Two 50-mm Dinse connectors
- Air-cooled torch adapter #195 378 (except 350 model)
- Setup video and reference guide

Dynasty 700 Comes With

- Thread-lock torch adapter
- Two thread-lock weld cable connectors
- Setup video and reference guide
- Power cord NOT included, must be ordered separately

Most Popular Accessories

- Remote Controls (pg 43 and 87)
 - Wireless Foot #300 429
 - RFCS-14 HD Foot Control #194 744
 - RCCS-14 Fingertip Control #043 688
- Carts (pg 81)
- Coolers (pg 82)
 - Coolant (4 Gallons) #043 810 (pg 82)
- Contractor Kit with RFCS-14 HD Foot Control #195 054 (pg 87)
- Contractor Kit with RCCS-14 HD Fingertip Control #195 055 (pg 87)
- Weldcraft® Water-Cooled Torch Kits (pg 87)
 - 250 A Torch Kit #300 185 (200)
 - 280 A Torch Kit #300 990 (280)
 - 300 A Torch Kit #300 183 (350)
 - 700 A Torch Kit #300 186 (700)

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

Models/ Packages



Model	Machine Only	Air-Cooled Packages (Machine/Contractor Kit)		Water-Cooled (Machine/Cart/Cooler)	Water-Cooled Complete Packages (Machine/Cart/Cooler/Remote/Torch Kit)		
		Fingertip Control Contractor	Foot Control Contractor	TIGRunner	Fingertip Control Complete	Foot Control Complete	Wireless Foot Control Complete
Dynasty 200 SD	(#907 099)	–	–	–	–	–	–
Dynasty 200 DX	(#907 099-01-1)	(#951 175)	(#951 174)	(#907 099-02-1)	(#951 140)	(#951 139)	(#951 397)
Dynasty 280	(#907 537)	(#951 464)	(#951 465)	(#907 537-00-2)	–	(#951 466)	(#951 467)
Dynasty 280 DX	(#907 514)	–	–	(#907 514-00-1)	–	(#951 468)	(#951 469)
Dynasty 350	(#907 204)	–	–	(#907 204-00-1)	–	(#951 401)	(#951 402)
Dynasty 700	(#907 101)	–	–	(#907 101-00-1)	–	(#951 403)	(#951 404)

Notes: Duty cycle for Dynasty 200 is limited on 115 V power. Coolmate 1 used with the Dynasty 200 must be plugged into a 115 V source (wall). *Derate duty cycle by 20 percent. **Sense voltage for Low OCV Stick and Lift-Arc™ TIG.

Model	Welding Process	Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz								Max. Open-Circuit Voltage	Machine Only Dimensions	Complete Package Dimensions	Net Weight
					115 V	208 V	230 V	400 V	460 V	575 V	KVA	KW				
Dynasty 200	TIG	3-Phase	1-200	150 A at 16 V, 60% Duty Cycle	–	–	10	6	5	–	3.8	3.6	80 VDC (5-10 VDC**)	H: 13.5 in. (343 mm) W: 7.5 in. (191 mm) D: 21.5 in. (546 mm)	H: 46.25 in. (1175 mm) W: 23.5 in. (597 mm) D: 22.25 in. (565 mm)	Machine 45 lb. (20.5 kg) Complete 137 lb. (62 kg)
			1-200	150 A at 16 V, 60% Duty Cycle	–	–	16	–	8	–	3.6	3.6				
			1-150 (115 V)	140 A at 16 V, 40% Duty Cycle	31	–	–	–	–	–	3.6	3.5				
	Stick	3-Phase	1-200	130 A at 25 V, 60% Duty Cycle	–	–	13	8	6	–	4.8	4.6				
1-Phase			1-200	130 A at 25 V, 60% Duty Cycle	–	–	20	–	10	–	4.7	4.7				
Dynasty 280	TIG	3-Phase	1-280 (DC)	230 A at 19 V, 60% Duty Cycle	–	19	17	10	9	8	6.7	6.4	60 VDC (11 VRD**)	H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.4 in. (569 mm)	H: 33.5 in. (851 mm) W: 19.4 in. (493 mm) D: 41.4 in. (1052 mm)	Machine 52 lb. (24 kg) Complete 142 lb. (64 kg)
			1-Phase	2-280 (AC)	230 A at 19 V, 60% Duty Cycle	–	33*	30	17	15	12	6.7				
	Stick	3-Phase	5-280	250 A at 30 V, 60% Duty Cycle	–	29*	26	15	13	11	10.2	9.8				
			1-Phase	5-280	200 A at 28 V, 60% Duty Cycle	–	37	33	19	16	9	7.6				
Dynasty 350	TIG/ Stick	3-Phase	3-350	300 A at 32 V, 60% Duty Cycle	–	35	32	16	16	13	12.7	12.1	75 VDC (10-15 VDC**)	H: 24.75 in. (629 mm) W: 13.75 in. (349 mm) D: 22 in. (559 mm)	H: 45.125 in. (1146 mm) W: 23.125 in. (587 mm) D: 43.75 in. (1111 mm)	Machine 135 lb. (61 kg) Complete 308 lb. (140 kg)
			1-Phase	3-350	225 A at 29 V, 60% Duty Cycle	–	47	43	–	21	17	9.8				
Dynasty 700	TIG/ Stick	3-Phase	5-700	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: 13.75 in. (349 mm) D: 22 in. (559 mm)	H: 55.125 in. (1400 mm) W: 23.125 in. (587 mm) D: 43.75 in. (1111 mm)	Machine 198 lb. (90 kg) Complete 370 lb. (168 kg)
			1-Phase	5-700	450 A at 38 V, 60% Duty Cycle	–	115	104	–	52	42	24				



Diversion™ 165 and 180 AC/DC TIG

See Literature No. AD/1.5

Leave it to Miller to take a professional-grade arc and put it in a package designed specifically for personal users. Diversion AC/DC TIG welders contain all of the features you need and nothing more – simplicity combined with superior performance and honest value.



Diversion 165

Diversion 180

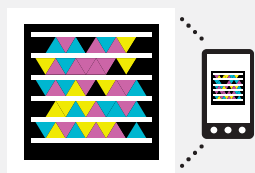
TIG Welding for Dummies book, setup and operation video, Smith Argon regulator/flow gauge with hose, and welding project blueprint (not shown) included with each Diversion model.



Welding Capability

Max. 3/16 in. (4.8 mm)	Max. 3/16 in. (4.8 mm)
Steel	Aluminum
Min. 0.025 in. (0.6 mm)	Min. 0.030 in. (0.75 mm)

Scan this tag to see video on the Diversion advantage.



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

Inverter-based, AC/DC power source provides a more consistent welding arc while using less power.

HF start for non-contact arc starting that eliminates tungsten and material contamination.

Fan-On-Demand™ cooling system only operates when needed to reduce noise and maintenance.

Portable. At 50 pounds they can be taken anywhere.

Auto-postflow protects the weld end zone and electrode by optimizing postflow time based on welding amperage.

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

Weldcraft® LS17 torch puts the control at your fingertips with built-in remote controls.

Diversion 180 model includes an **RFCS-RJ45 remote foot control** and a **multi-voltage plug (MVP™)**. Plug allows connection to 115 or 230 V receptacles without tools. Choose the plug that fits the receptacle and connect it to the power cord.

Light Industrial ● CC AC/DC Phase 1

Process

- TIG (GMAW)

Comes With

- Power source with primary cord (50 A, 230 V plug on 165 model) or (MVP™ plugs on 180 model)
- RFCS-RJ45 remote foot control (180 model only)
- 12.5-ft. (3.8 m) Weldcraft® LS17 TIG torch with backcap, ceramic gas cup, 3/32-in. (2.4 mm) collet and collet body, and 2% ceriated tungsten
- 12-ft. (3.7 m) work lead with clamp
- Smith® Argon regulator/flow gauge with hose
- TIG Welding for Dummies book
- Setup and operation video
- Welding project blueprint for a machine cart/cylinder rack

Most Popular Accessories

- Premium Running Gear/ Cylinder Rack #770 187 (pg 81)
- Protective Cover #300 579 (pg 87)
- RFCS-RJ45 Remote Foot Control #300 432 (pg 87)
- Flex 9 and 17 Torch Body Kit for Diversion #253 592
- Torch Accessory Kit w/Cerium #AK2C

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

*While idling.

Model/Stock Number	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
Diversion 165 (#907 005)	230 VAC	10 - 165	150 A at 16 V, 20% Duty Cycle	23 (.20)*	5.3 (.04)*	3.7 (.02)*	80	H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	50 lb. (23 kg)
			165 A at 16.6 V, 15% Duty Cycle	25.5 (.20)*	5.9 (.04)*	4.2 (.02)*			
Diversion 180 (#907 460)	115 VAC	10 - 125	125 A at 15 V, 35% Duty Cycle	26.5 (.88)*	3.1 (.1)*	3.0 (.03)*	80	H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	50 lb. (23 kg)
	230 VAC	10 - 180	150 A at 16 V, 20% Duty Cycle	16 (.44)*	3.7 (.1)*	3.6 (.03)*			
			180 A at 17.2 V, 10% Duty Cycle	20.5 (.44)*	4.7 (.1)*	4.6 (.03)*			



Syncrowave® Series AC/DC TIG and Stick

Syncrowave 200 – See Literature No. AD/4.4 Syncrowave 250 and 350 – See Literature No. AD/4.2

The world's first and most reliable conventional squarewave TIG power source.



Syncrowave 200 Runner

Syncrowave 250 machine only

Syncrowave 350 Complete Package

Steel Welding Capability

	200	250	350
Maximum	1/4 in. (6.4 mm)	1/2 in. (12.7 mm)	5/8 in. (15.9 mm)
Syncro			
Minimum	0.020 in. (0.5 mm)	0.012 in. (0.3 mm)	0.012 in. (0.3 mm)

Aluminum Welding Capability

	200	250	350
Maximum	1/4 in. (6.4 mm)	3/8 in. (9.5 mm)	1/2 in. (12.7 mm)
Syncro			
Minimum	0.020 in. (0.5 mm)	0.015 in. (0.4 mm)	0.015 in. (0.4 mm)

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

120 V auxiliary power receptacle for cooling system or small tools.

Syncro Start™ technology for customized arc starts. Allows more precise arc starts and fine-tuning based on tungsten diameter and material thickness.

HF arc starting provides non-contact arc starting that eliminates tungsten or material contamination.

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

Postflow protects the weld end zone and electrode. (Syncrowave 200 has auto-postflow which calculates the length of postflow time based on the amperage setting. Syncrowave 250/350 has adjustable postflow which has to be set independently.)

Syncrowave 250/350 Additional Features

Coolmate™ 3X 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 set-up when switching polarity.

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

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

Built-in consumable storage drawer located on front panel for easy access.

Light Industrial ● 200 model
Heavy Industrial ● 250/350 models



Processes

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P) (optional on 250 DX)
- Air Carbon Arc (CAC-A)

Syncrowave 200 Runner Comes With

- No. 39 Running Gear
- 6-ft. (1.8 m) primary cord (no plug)
- 12.5-ft. (3.8 m) Weldcraft® WP17 TIG torch
- 15-ft. (4.6 m) lead w/electrode holder
- 15-ft. (4.6 m) work lead with clamp
- RFCS-14 remote foot control
- Flow gauge regulator with hose
- Cable and remote foot pedal holders

Syncrowave 250 DX and 350 LX Come With

- Two 50-mm Dinse connectors
- Power cord NOT included, must be ordered separately

Syncrowave 250 DX and 350 LX Complete Packages Come With

- No. 37 Running Gear
- Coolmate™ 3X cooler
- Coolant (four gallons)
- 25-ft. (7.6 m) water-cooled torch (Syncro 250: Weldcraft® WP20) (Syncro 350: Weldcraft® CS310)
- 15-ft. (4.6 m) work lead with clamp
- RFCS-14 remote foot control
- Two 50-mm Dinse connectors
- Regulator/flowmeter with hose
- Torch accessory kit with tungsten
- Cable cover
- Power cord NOT included, must be ordered separately

Most Popular Accessories

- **Pulser Module for Syncrowave 250 DX #300 548**
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 #300 547**
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.

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

*Add 12.75 inches to height with Complete Package. **Add 139 pounds with Complete Package.

Model	Stock Number (Additional packages are available – visit MillerWelds.com or your distributor.)	Welding Amperage Range	Rated Output	Amps Input at Rated Output (Syncro 200/250: 60 Hz; Syncro 350: 50/60 Hz)						Max. Open-Circuit Voltage	Dimensions*	Net Weight**
				208 V	230 V	460 V	575 V	KVA	KW			
Syncrowave 200	(#907 308-00-1) 208-230 V, 60 Hz, Runner	5-200	150 A at 26 VAC, 40% Duty Cycle	54	54	–	–	12.5	6.0	80 VDC	H: 30.125 in. (765 mm) W: 21.125 in. (537 mm) D: 21.5 in. (546 mm)	238 lb. (108 kg)
Syncrowave 250 DX	(#907 195) 230/460/575 V, 50/60 Hz, Machine only (#951 118) 230/460/575 V, 50/60 Hz, Complete	3-310	200 A at 28 VAC, 60% Duty Cycle	–	77	38	31	17.6	8.6	80 VDC	H: 36.25 in. (921 mm) W: 22.5 in. (572 mm) D: 25 in. (635 mm)	378 lb. (172 kg)
			250 A at 30 VAC, 40% Duty Cycle	–	96	48	38	21.98	11.76			
Syncrowave 350 LX	(#907 199) 230/460/575 V, 50/60 Hz, Machine only (#951 120) 230/460/575 V, 50/60 Hz, Complete	3-400	300 A at 32 VAC, 60% Duty Cycle	–	110	55	42	25	10.6	80 VDC	H: 36.25 in. (921 mm) W: 22.5 in. (572 mm) D: 25 in. (635 mm)	496 lb. (225 kg)
			350 A at 34 VAC, 40% Duty Cycle	–	128	65	50	29.5	13.7			



WIRELESS REMOTES

(FOOT and HAND CONTROLS)



MillerWelds.com/Wireless

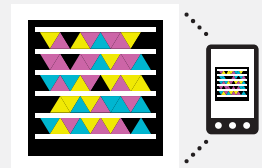
Complete Control with No Cords Attached

Increases Productivity · Saves Money · Improves Safety · Easy to Use

Experience Freedom and Control

- Repositioning the remote quickly and easily around the weld without having to untangle cords improves productivity. No need for trips back to the power source to change parameters.
- Going wireless eliminates standard remote control cords that are a regular point of wear, failures and the associated downtime.
- Safety is improved by reducing clutter and potential tripping hazards.
- Wireless provides the same performance, responsiveness and effectiveness as the corded remote models.
- Improves weld quality with precise operator control.
- Standard AA batteries have a long battery life and allow for quick and easy replacement.
- Hand Control belt clip keeps the remote secure and accessible.

Check out MillerWelds.com/wireless for videos, articles, and an ROI calculator tool!



Scan this tag to see wireless remote videos.

Suggested Power Sources



Wireless Remotes are recommended for use with the following power sources.

Wireless Remote Foot Control

Maxstar® 150 STL and STH¹ (pg 35)
Maxstar® 200², 280, 350 and 700 (pg 36)
Dynasty® 200, 280, 350 and 700 (pg 38)
Syncrowave® 250 DX and 350 LX (pg 41)
PipeWorx™ Welding System (pg 49)

¹Requires Adapter Cord #300 507.

²Excludes Maxstar 200 STR.

Wireless Remote Hand Control

Gold Star® Series (pg 32)
CST™ 280 (pg 33)
Maxstar® 200¹, 280, 350 and 700 (pg 36)
Dynasty® 200, 280, 350 and 700 (pg 38)
Dimension™ Series (pg 45)
XMT® Series² (pg 46 and 47)
CST™ 280 Rack (pg 50)
XMT® 304 and 350 Racks² (pg 50)
Trailblazer® (pg 56, 58 and 60)
Big Blue® 300 Pro³ (pg 61)
Big Blue® 350 PipePro³ (pg 62)
Big Blue® 400 Eco Pro³ (pg 63)
Big Blue® 450 Duo CST™³ and 700 Duo Pro³ (pg 64)

¹Excludes Maxstar 200 STR. ²Excludes XMT 350 VS.

³Requires Wireless Antenna Kit #300 749.



Wireless Remote Foot Control

See Literature No. AY/6.5

The Wireless Remote Foot Control, designed specifically for TIG welding in manufacturing, fabrication and plant applications, allows the operator to adjust amperage at the point of use without being limited to the range of the remote cord.



*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 90-foot (27.4 m) radius with accuracy and precision—and without delay, system interference, or crosstalk.

Auto on feature extends the battery life up to 250 hours of welding without turning the pedal on and off.

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.)

Easy-Glide Wear Pads™ glide across concrete, making it easy to reposition the pedal for comfort and speed.

Industrial

Processes

- TIG (GTAW) • Pulsed TIG (GTAW-P)

Comes Complete With

- Wireless foot control transmitter
- Wireless 14-pin receiver
- Battery box with three AA batteries
- Four Easy-Glide Wear Pads™

Suggested Power Sources

- Maxstar® 150 STL/STH² (pg 35)
- Maxstar® 200²/280/350/700 (pg 36)
- Dynasty® 200/280/350/700 (pg 38)
- Syncrowave® 250 DX/350 LX (pg 41)
- PipeWorx™ Welding System (pg 49)

¹ Requires Adapter Cord #300 507.

² Excludes Maxstar 200 STR.

Note: If your power source is not listed, visit MillerWelds.com/wireless to check compatibility.

Most Popular Accessories

- Replacement Easy-Glide Wear Pad™ #248 274 (sold individually)
- Replacement Battery Box #249 297

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

Model/Stock Number	Component	Power Supply	Battery Life	Rated Range*	Temperature	Radio Frequency	RF Power	Antenna	Dimensions	Weight
Wireless Foot Control System (#300 429)	Foot Control (Transmitter)	Three AA Batteries	250 hours	90 ft. (27.4 m)	-13° F to +158° F (-25° C to +70° C)	2.4 Ghz (ISM Band)	<3 mW	Internal	H: 6 in. (152 mm)	3 lb. (1.4 kg) w/Batteries
	14-Pin Receiver	10 - 35 V AC or DC	N/A						W: 5.75 in. (146 mm)	
									D: 3.5 in. (89 mm)	0.16 lb. (0.07 kg)
									Dia: 1.5 in. (38 mm)	

Wireless Remote Hand Control

See Literature No. AY/6.6

The Wireless Remote Hand Control, designed for Stick, TIG, MIG and Flux-Cored welding, allows the 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.



*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 by allowing parameter adjustments up to 300 feet away from welder without returning to the machine or calling for assistance.

Improves weld quality. Operators can easily adjust their machines to optimize the parameters for different joint configurations, electrodes, and wire types and sizes.

Improves safety by eliminating control cord and reducing potential trip hazard.

Reduces maintenance time and cost. No cord repairs.

Smart Touch™ buttons increase or decrease machine parameters in one or five percent increments, for quick and accurate adjustments.

Multiple frequency sharing allows up to 20 systems to operate in a 90-foot (27.4 m) radius with accuracy and precision—and without delay, system interference, or crosstalk.

Easy-to-install receiver plugs directly into the 14-pin receptacle of Miller machines.

Easily programmable. Control can be quickly and easily paired with any other Miller 14-pin wireless receiver.

Digital meter display allows presetting percentage of machine output before welding, and viewing amperage and voltage while welding.

High-visibility color makes hand control easy to locate on the jobsite.

Industrial

Processes

- TIG (GTAW) • Pulsed TIG (GTAW-P)
- Stick (SMAW) • MIG (GMAW)*
- Flux-Cored (FCAW)¹

¹ Only with voltage-sensing feeder.

Comes Complete With

- Wireless hand control transmitter
- Wireless 14-pin receiver
- Battery box with three AA batteries
- Belt clip

Suggested Power Sources

- Gold Star® Series (pg 32)
- CST™ 280 (pg 33)
- Maxstar® 200²/280/350/700 (pg 36)
- Dynasty® 200/280/350/700 (pg 38)
- Dimension™ Series (pg 45)
- XMT® Series (except VS) (pg 46/47)
- Trailblazer® (pg 56/58/60)
- Big Blue® 300 Pro³/350 PipePro³/400 Eco Pro³/450 Duo CST™³/700 Duo Pro³ (pg 61/62/63/64)

² Excludes Maxstar 200 STR.

³ Requires Wireless Antenna Kit #300 749.

Note: If your power source is not listed, visit MillerWelds.com/wireless to check compatibility.

Most Popular Accessories

- Replacement Belt Clip #249 233
- Replacement Battery Box #249 297

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

Model/Stock Number	Component	Power Supply	Battery Life	Rated Range*	Temperature	Radio Frequency	RF Power	Antenna	Dimensions	Weight
Wireless Hand Control System (#300 430)	Hand Control (Transmitter)	Three AA Batteries	250 hours	300 ft. (91 m)	-13° F to +158° F (-25° C to +70° C)	2.4 Ghz (ISM Band)	<3 mW	Internal	H: 5 in. (127 mm)	0.6 lb. (0.27 kg) w/Batteries
	14-Pin Receiver	10 - 35 V AC or DC	N/A						W: 2.75 in. (70 mm)	
									D: 3.5 in. (89 mm)	0.16 lb. (0.07 kg)
									Dia: 1.5 in. (38 mm)	



MULTIPROCESS

Multiprocess Power Sources and Packages for Demanding Industrial Applications

GOOD

BETTER

BEST



Shopmate/22A

Dimension/S-74D

Dimension NT 450/S-74D

XMT/SuitCase®



MORE
on
the
WEB

MillerWelds.com/Multiprocess

Power Source Welding Performance

		250 A	300 Amp			350 Amp			450 Amp				650 Amp
		Shopmate™ 300 DX (1-Phase) (Pg 45)	Dimension™ 302 (Pg 45)	XMT® 304 CC/CV (Pg 46)	XMT® 350 VS (Pg 46)	XMT® 350 CC/CV (Pg 46)	XMT® 350 MPa (Pg 47)	Dimension™ 452 (Pg 45)	Dimension™ NT 450 (Pg 45)	XMT® 450 CC/CV (Pg 46)	XMT® 450 MPa (Pg 47)	Dimension™ 652 (Pg 45)	
Material	Mild Steel	●	●	●	●	●	●	●	●	●	●	●	
	Stainless Steel	●	◎	●	●	●	●	◎	●	●	●	◎	
	Aluminum*	●	◎	●	●	●	●	◎	●	●	●	◎	
Material Thickness	Gauge (.020 - .125 in.)	●	●	●	●	●	●	◎	●	●	●		
	Sheet (.125 - .375 in.)	●	●	●	●	●	●	●	●	●	●	◎	
	Plate (.375 - 1 in.)							●	●	●	●	●	
	Plate (1+ in.)							◎	◎	◎	◎	●	
Wire Size	.030 in.	●	●	●	●	●	●	◎	●	●	●		
	.035 in.	●	●	●	●	●	●	●	●	●	●		
	.045 in.	◎	◎	◎	◎	◎	◎	●	●	●	●	●	
	.052 in.	◎	◎	◎	◎	◎	◎	●	●	●	●	●	
	1/16 in.		◎	◎	◎	◎	◎	●	●	●	●	●	
	5/64 in.							●	●	●	●	●	
	3/32 in.							◎	◎	◎	◎	●	
Process	Short Circuit	★★★★	★★	★★★★	★★★★	★★★★★	★★★★★	★★	★★★★★	★★★★★	★★★★★		
	Pulsed Spray			Optional ★★★		Optional ★★	★★★★			Optional ★★	★★★★		
	Stick	★★★★	★★	★★★★★	★★★★★	★★★★★	★★★★★	★★	★★★★★	★★★★★	★★★★★	★★	
	TIG	★★★★	★	★★★★	★★★★	★★★★	★★★★	★	★★★★	★★★★	★★★★	★	
	CAC-A	3/16 in.	1/4 in.	1/4 in.	5/16 in.	5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	3/8 in.	3/8 in.	

ICON KEY

CAPABILITY: ● Designed for ◎ Capable of
PROCESS QUALITY: ★ Good ★★ Better ★★★ Best ★★★★★ Optimized
 New! or Improved! products appear in blue type. *XR Push-Pull System recommended for best results.



Shopmate™ 300 DX See Literature No. DC/12.7

An economical single-phase DC multiprocess power source that provides versatility and outstanding arc performance in CV mode (MIG) and CC mode (Stick and TIG).



Shopmate 300 DX MIG package

Process selector switch is an “operator-friendly” single process switch that eliminates the confusion of several switch combinations.

Digital meters for presetting or monitoring voltage and amperage.

Built-in 10-pin connector for direct hookup of Spoolmatic® spool guns.

Built-in 14-pin connector provides direct connection for 14-pin, 24 VAC Miller wire feeders and accessories.

Fan-On-Demand™ cooling system operates only when needed.

Line voltage compensation keeps welding parameters constant.

Arc control adjusts inductance in MIG mode and DIG in Stick mode to optimize weld performance.

Lift-Arc™ start provides DC TIG arc starting without the use of high frequency. Starts the arc without contaminating the weld with tungsten.

Light Industrial ● **CC CV** **DC** **1** Phase

- Processes**
- MIG (GMAW) • Flux-Cored (FCAW)
 - DC Stick (SMAW) • DC TIG (DC GTAW)
- MIG Pkg Comes Complete With**
- Power source
 - 22A wire feeder with Bernard® gun
 - MIG kit
- Most Popular Accessories**
- Shopmate Running Gear/ Dual Cylinder Rack #300 145 (pg 81)
 - Shopmate 300 Kit #300 150 (pg 84)
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Stock Number	Amperage Range	Voltage Range	Rated Output	Amps Input at Rated Load Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions (includes lift eye)	Net Weight
				208 V	230 V	460 V	575 V	KVA	KW			
(#907 315) 200(208)/230 V (#907 316) 230/460/575 V (#951 076) 200(208)/230 V w/MIG Pkg (#951 077) 230/460/575 V w/MIG Pkg	5 - 400	10 - 35	250 A at 30 VDC, 60% Duty Cycle	66	57	29	23	13	11.2	80 VDC	H: 24.5 in. (622 mm) W: 19 in. (483 mm) D: 25.5 in. (648 mm)	177 lb. (80.3 kg)

Dimension™ Series and NT 450

See Literature No. DC/19.2 and DC/19.5

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



Dimension Stationary package

Dimension NT 450 MIGRunner package

Dimension Series and Dimension NT 450 are available in three formats: machine only, stationary package (adds feeder, gun and MIG 4/0 kit), and MIGRunner™ package (adds running gear/cylinder rack to stationary package).

- 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.

- Dimension Series adds the following features:
- **Hot Start™** makes it easier to start difficult stick electrodes.
 - **Arc control** for added flexibility in tight stick locations.

- Dimension NT 450 adds the following features:
- **Electronic arc and inductance controls with digital display** for added flexibility and control on a large variety of stick electrodes and welding wires.
 - **Lift-Arc™** start for TIG arc starting without high frequency.

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 302: 1/4-in. carbons) (Dimension 452: 5/16-in. carbons) (Dimension NT 450: 5/16-in. carbons) (Dimension 652: 3/8-in. carbons)

- Most Popular Accessories**
- SuitCase® X-TREME™ Wire Feeders (pg 23)
 - 70 Series Wire Feeders (pg 28)
 - Standard Running Gear #042 886 (pg 81)
 - Standard Cylinder Rack #042 887 (pg 81)
 - Industrial MIG 4/0 Kit #300 390 (pg 84)
 - Includes Smith® regulator/flowmeter with 10-ft. (3 m) gas hose, 10-ft. (3 m) 4/0 feeder weld cable with lugs, and 15-ft. (4.6 m) work cable with 600-amp C-clamp.
 - Extension Cables (pg 88)
 - Bernard® and Tregaskiss™ MIG Guns
- When purchasing components separately, visit MillerWelds.com/equiptoweld or your distributor for other Miller® options and accessories.

See pages 42 and 43 for wireless remote controls. Not available with NT 450 model.

EQUIP TO WELD

Build your own system at MillerWelds.com/equiptoweld (see page 17) or see packages below.

*Additional packages are available – visit MillerWelds.com or your distributor.
While idling. *Dimensions and weight are for power source only – includes lift eye and strain relief.

Model	Stock Number*	Welding Mode	Amperage/Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions***	Net Weight***
					200 V	230 V	460 V	575 V	KVA	KW			
Dimension 302	(#903 216) 230/460/575 V, Machine only (#951 272) 230/460/575 V, Stationary Pkg (#951 276) 230/460/575 V, MIGRunner Pkg	CC	15-375 A	300 A at 32 VDC, 100% Duty Cycle	57.5	50	25	20	20	12.9	60 VDC	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 30.5 in. (775 mm)	361 lb. (164 kg)
		CV	10-32 V		69	60	30	24	23.7	13.4	36 VDC		
Dimension 452	(#903 255) 230/460/575 V, Machine only (#951 273) 230/460/575 V, Stationary Pkg (#951 277) 230/460/575 V, MIGRunner Pkg	CC	20-565 A	450 A at 38 VDC, 100% Duty Cycle	91	79	39	31	31.4	22	65 VDC	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 38 in. (966 mm)	424 lb. (192 kg)
		CV	10-38 V		104	90	45	36	35.3	22.3	43 VDC		
Dimension 652	(#903 379) 230/460/575 V, Machine only (#951 274) 230/460/575 V, Stationary Pkg (#951 278) 230/460/575 V, MIGRunner Pkg	CC	50-815 A	650 A at 44 VDC, 100% Duty Cycle	–	126	63	50.4	50	34.8	72 VDC	H: 30 in. (762 mm) W: 23 in. (585 mm) D: 38 in. (966 mm)	545 lb. (247 kg)
		CV	10-65 V		–	–	–	–	–	–	67 VDC		
Dimension NT 450	(#907 256) 230/460/575 V, Machine only (#951 275) 230/460/575 V, Stationary Pkg (#951 279) 230/460/575 V, MIGRunner Pkg	CC	5-500 A	450 A at 38 VDC, 100% Duty Cycle	–	57	29	23	22.6	21.0	80 VDC	H: 32.5 in. (826 mm) W: 23 in. (585 mm) D: 38 in. (966 mm)	376 lb. (171 kg)
		CV	10-38 V		–	–	2.18**	1.04**	0.84**	0.87**	0.29**		

XMT® Series

304 CC/CV – See Literature No. DC/18.8
 350 CC/CV, 350 VS and 450 CC/CV – See Literature No. DC/18.83

The proven “Best!” performer in portable multiprocess inverter applications.



See pages 42 and 43 for wireless remote controls. Not available with 350 VS model.



Wind Tunnel Technology™ protects electrical components and PC boards from contamination.

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

Lift-Arc™ allows TIG starting without use of high-frequency. Starts the arc without contaminating weld with tungsten.

Adaptive Hot Start™ increases the output amperage at the start of a weld if necessary, eliminating electrode sticking.

Inverter arc control technology provides greater puddle control for superior 6010 Stick electrode performance.

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

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

Lightweight, aerospace-grade aluminum case offers protection with the benefit of reduced weight.

Ultra-tough, polycarbonate-blended cover for control panel protects front controls from damage.



XMT 350 model allows for **any** input voltage hookup (208–575 V) with no manual linking. 304 model uses **Auto-Link®** which automatically links the power source to primary voltage being applied (230/460 or 460/575 VAC, single- or three-phase). 450 model is 230/460 V manual link.

Reduced OCV operation. An internal dip switch enables reduced open-circuit Stick welding capability. OCV is typically below 15 volts. 350 CC/CV and 450 CC/CV models only.

Pulsed MIG with optional Optima™ control reduces spatter and distortion, allows better out-of-position puddle control, and provides potential reduction of fume particle emissions. Pulsed MIG is not available on VS model.

Optional 115 VAC auxiliary power provides 10 amps of circuit-breaker-protected power for water circulators, etc. Optional on 304 and 350 CC/CV models. Not available on 350 VS or 450 model.

Heavy Industrial
 CC CV DC 3 1 XMT 450
 Phase Phase is 3-phase only.

Processes

- MIG (GMAW)
- Pulsed MIG (GMAW-P)*
- Stick (SMAW)
- TIG (GTAW)
- Flux-Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Carbons – 304: 1/4 in., 350: 5/16 in., 450: 3/8 in.)

*XMT CC/CV models with optional control. Not available on VS model.

Most Popular Accessories for non-VS Models

- XR-AlumaFeed™ Feeder for aluminum #300 509 (pg 13)
- SuitCase® RC Feeders (pg 24)
- Spoolmatic® 30A/ WC-24 (pg 26)
- XR™-Controls (pg 27)
- 22A and 24A Feeders (pg 28)
- 70 Series Feeders (pg 28)
- Optima™ MIG Pulse Control #043 389 (pg 84)

Most Popular Accessories for VS Model

- Spoolmatic® 30A/ WC-115A (with contactor) (pg 26)

Most Popular Accessories for all Models

- SuitCase® X-TREME™ VS Feeders (pg 23)
- XMT® Rack (pg 50)
- Cylinder Cart #042 537 (pg 81)
- Universal Cart and Cylinder Rack (XMT 304/350 only) #042 934 (pg 81)
- MIGRunner™ Cart #195 445 (pg 81)
- Running Gear Cylinder Rack #300 408 (pg 81)
- Coolmate™ Coolant System (pg 82)
- Protective Cover (XMT 304/350 only) #195 478 (pg 87)
- Bernard® Q-Gun™

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

*Wire feeders include Bernard MIG gun.

**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						Max. Open-Circuit Voltage	Dimensions	Net Weight	
					208 V	230 V	400 V	460 V	575 V	KVA	KW			
XMT 304 CC/CV (w/Dinse)	#903 471) 208-230/460 V #903 471-01-1) 208-230/460 V w/Aux. Pwr. #903 473) 460/575 V #951 343) 208/230/460 V MIGRunner w/22A*	Three-Phase	CC Mode: 5–400 A CV Mode: 10–35 V	300 A at 32 VDC, 60% Duty Cycle	33.7	30.5	17	18.9	15.2	12.2	11.6	90 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	79.5 lb. (36.1 kg)
		Single-Phase		225 A at 29 VDC, 60% Duty Cycle	52.4	47.4	–	24.5	–	11.3	7.6			
XMT 350 CC/CV (w/Dinse)	#907 161) 208–575 V #907 161-01-1) 208–575 V w/Aux. Pwr. #951 305) 208–575 V w/SuitCase X-TREME 12VS* #951 327) 208–575 V MIGRunner w/22A* #951 314) 208–575 V MIGRunner w/S-74D*	Three-Phase	CC Mode: 5–425 A CV Mode: 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: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
		Single-Phase		300 A at 32 VDC, 60% Duty Cycle**	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
XMT 350 VS (w/TwoCo®)	#907 224) 208–575 V (CC/CV inverter ideal for construction – no remote control, order mating TwoCo connectors separately) #951 306) 208–575 V w/SuitCase X-TREME 8VS*	Three-Phase	CC Mode: 5–425 A CV Mode: 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: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
		Single-Phase		300 A at 32 VDC, 60% Duty Cycle**	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
XMT 450 CC/CV (w/Stud 1/2")	#907 481) 230/460 V	Three-Phase	CC Mode: 15–600 A CV Mode: 10–38 V	450 A at 38 VDC, 100% Duty Cycle	–	51	–	27.6	–	22	18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)



XMT® MPa Series See Literature No. DC/18.84

The simple, powerful XMT MPa models can handle almost any portable welding application. Add a 70 Series MPa Plus or XR-AlumaFeed feeder for a synergic system that simplifies Pulsed MIG welding applications.



XMT 350 MPa

NEW! XMT 450 MPa



See pages 42 and 43 for wireless remote controls.

XMT MPa Series takes the features of the XMT 350 and 450 CC/CV multiprocess inverters and adds built-in Pulsed MIG capabilities.

- Easy-to-use Pulsed MIG, including programs for exotic alloys
- Eliminates need for separate pulse control pendant or other pulse controls
- Pulsed MIG works with voltage sensing, remote control and benchtop wire feeders

MPa – MIG; Pulsed; advanced Arc Control. Easy-to-use advanced arc control enables an improved Pulsed MIG welding arc.

Built-in Pulsed MIG programs contain optimal parameters for steel, metal-cored, stainless, aluminum, nickel, silicon bronze and copper nickel wire. Just dial in wire and gas type. As easy to use as traditional MIG, the MPa's intuitive programming virtually eliminates the Pulsed MIG learning curve for experienced MIG operators.

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



Synergic Pulsed MIG – Adding a 70 Series MPa Plus feeder for steel or a XR-AlumaFeed™ feeder for aluminum welding gives you the benefit of a Synergic Pulsed MIG system. 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. Additional systems available, please visit MillerWelds.com



XMT 350 model allows for **any** input voltage hookup (208–575 V) with no manual linking. 450 model is 230/460 V manual link.

Dinse- or Tweco®-style weld disconnects provide high-quality weld cable connections (two connectors supplied with each unit). 450 model has studs.

Optional 115 VAC auxiliary power provides 10 amps of circuit-breaker-protected power for water circulators, etc.

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

Processes

- MIG (GMAW)
- Pulsed MIG (GMAW-P)
- Stick (SMAW)
- TIG (GTAW)
- Flux-Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Carbons – 350: 5/16 in., 450: 3/8 in.)

Most Popular Accessories

- XR-AlumaFeed™ Feeder for aluminum #300 509 (pg 13)
- SuitCase® X-TREME™ VS Feeders (pg 23)
- SuitCase® RC Feeders (pg 24)
- Spoolmatic® 30A/WC-24 (pg 26)
- XR™ Controls (pg 27)
- 22A and 24A Feeders (pg 28)
- 70 Series Feeders (pg 28)
- 70 Series MPa Plus Feeders (pg 29)
- XMT® Rack (pg 50)
- Cylinder Cart #042 537 (pg 81)
- Universal Cart and Cylinder Rack (XMT 304/350 only) #042 934 (pg 81)
- MIGRunner™ Cart #195 445 (pg 81)
- Running Gear Cylinder Rack #300 408 (pg 81)
- Coolmate™ Coolant System (pg 82)
- Optima™ MIG Pulse Control #043 389 (pg 84)
- Protective Cover (XMT 350 only) #195 478 (pg 87)
- Bernard® Q-Gun™

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

*70 Series MPa Plus and SuitCase wire feeders include Bernard MIG gun.

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

Model	Stock Number*	Input Power	Amperage/Voltage Range	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
XMT 350 MPa (w/Dinse except where noted)	(#907 366) 208–575 V (#907 366-01-1) 208–575 V w/Aux. Pwr. (#907 366-01-4) 208–575 V w/Twoeco (#951 307) 208–575 V w/SuitCase 8RC* (#951 308) 208–575 V w/SuitCase X-TREME 8VS* (#951 309) 208–575 V w/SuitCase 12RC* (#951 310) 208–575 V w/SuitCase X-TREME 12VS* (#951 294) 208–575 V w/XR-AlumaFeed and air-cooled XR-Aluma-Pro Gun	Three-Phase	CC Mode: 5–425 A CV Mode: 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: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
		Single-Phase	CC Mode: 5–425 A CV Mode: 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 450 MPa (w/Stud 1/2")	(#907 479) 230/460 V (#907 479 001) 230/460 V w/Aux. Pwr.	Three-Phase	CC Mode: 15–600 A CV Mode: 10–38 V	450 A at 38 VDC, 100% Duty Cycle	– 51 – 27.6 – 22 18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)

XMT® WCC System See Literature No. DC/18.87

The XMT Weld Cable Control (WCC) System can increase your productivity, quality, efficiency, and safety. The WCC System includes either an XMT 350 or XMT 450 to deliver remote feeder voltage control at the operator's fingertips without the traditional control cable for MIG/Flux-Cored welding.



XMT 350 and 450 shown with WCC Control and SuitCase X-TREME 12VS and 8VS WCC feeders.

Note: System Packages come with WCC Control and either XMT 350 or 450 and SuitCase 12VS or 8VS feeder.

Provides remote voltage control when using a voltage-sensing (VS) WCC feeder. Simplifies system setup and improves productivity. With a WCC-equipped VS feeder and power source you can change the 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. WCC also extends remote control capability beyond the reach of a control cable system (+100 feet).

Built specifically for the construction and shipbuilding industries where the power source and feeder are separated by hundreds of feet.

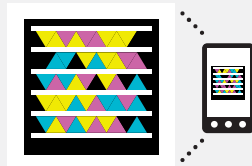
Improves productivity and quality control. Allows welders to easily adjust and set optimal voltage at the point of use. Reduces the need to leave the work area and travel back to the power source.

Improves safety and eliminates wear and damage problems associated with the control cable.

Ez-Bind™ feature

- Easily create a remote control connection. Prior to welding, hold the gun trigger for five seconds to establish a connection between the feeder and power supply via the weld cable.
- Connects the SuitCase VS WCC to any WCC-equipped power source or WCC Control for remote voltage control. Feeders and power supplies can be mixed and matched.
- Works with multiple WCC systems connected to the same work piece.

See page 46 for XMT power source features and page 23 for SuitCase X-TREME VS feeder features.



Scan this tag to view XMT WCC videos.

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

Processes

- MIG (GMAW)
- Stick (SMAW)
- TIG (GTAW)
- Flux-Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Carbons – 350: 5/16 in., 450: 3/8 in.)

System Package Includes

- XMT 350 CC/CV with Tweco® connections or XMT 450 CC/CV with ring lugs
- WCC Control with input connections matched to power source and Tweco® output connections
- SuitCase X-TREME 8VS or 12VS WCC feeder
- Bernard® Q300 gun

Power Source Package Includes

- XMT 350 CC/CV with Dinse or Tweco® connections or XMT 450 CC/CV with ring lugs
- WCC Control with input connections matched to power source and Dinse or Tweco® output connections

Most Popular Accessories

- XMT® Rack (pg 50)
- Cable Connectors and Adapters (pg 80)
- Cylinder Cart #042 537 (pg 81)
- Universal Cart and Cylinder Rack (XMT 350 only) #042 934 (pg 81)
- MIGRunner™ Cart #195 445 (pg 81)
- Running Gear Cylinder Rack #300 408 (pg 81)
- Protective Cover (XMT 350 only) #195 478 (pg 87)

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

*Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit). **Dimensions and weight are for power source only.

Model/Stock Number	Input Power	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz						Max. Open- Circuit Voltage	Dimensions**	Net Weight**		
				208 V	230 V	400 V	460 V	575 V	KVA	KW				
XMT 350 CC/CV 208-575 V	(#951 364) System Package with 8VS feeder (Tweco) (#951 365) System Package with 12VS feeder (Tweco) (#951 360) Power Source Package (Dinse) (#951 361) Power Source Package (Tweco)	Three-Phase	CC Mode: 5-425 A	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: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
		Single-Phase	CV Mode: 10-38 V	300 A at 32 VDC, 60% Duty Cycle*	60.8	54.6	29.7	25.4	19.9	11.7	11.2			
XMT 450 CC/CV 230/460 V	(#951 436) System Package with 8VS feeder (Tweco) (#951 435) System Package with 12VS feeder (Tweco) (#951 433) Power Source Package (Dinse) (#951 434) Power Source Package (Tweco)	Three-Phase	CC Mode: 15-600 A CV Mode: 10-38 V	450 A at 38 VDC, 100% Duty Cycle	-	51	-	27.6	-	22	18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)
Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity		Maximum Spool Size Capacity	Dimensions		Net Weight					
SuitCase X-TREME 8VS WCC Feeder only (#951 323) w/Bernard Q300 gun	Operates on open-circuit voltage and arc voltage: 14-48 VDC/ 110 Max. OCV	330 A at 60% Duty Cycle	50-780 IPM (1.3-19.8 m/min.) Actual range in CC mode is dependent on arc voltage applied	Solid Wire	.023-.062 in. (0.6-1.6 mm)	8 in. (203 mm), 14 lb. (6.4 kg)	H: 12.75 in. (324 mm) W: 7.25 in. (184 mm) D: 18 in. (457 mm)	28 lb. (13 kg)						
SuitCase X-TREME 12VS WCC Feeder only (#951 322) w/Bernard Q300 gun (#951 321) w/Bernard Dura-Flux™ gun		425 A at 60% Duty Cycle	Solid Wire	.023-5/64 in. (0.6-2.0 mm)	Flux-Cored				.030-.062 in. (0.8-1.6 mm)	12 in. (305 mm), 45 lb. (20 kg)	H: 15.5 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	35 lb. (15.9 kg)		



PipeWorx™ Welding System

See Literature No. PWS/2.0

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

Processes

- Stick (SMAW)
- DC TIG (GTAW) (HF and Lift-Arc™)
- MIG (GMAW) • Flux-Cored (FCAW)
- MIG RMD® (GMAW MSC)
- Pro-Pulse™ (GMAW-P)

PipeWorx Welding System Comes Complete With

- Power source with cable hangers #907 382 or #907 384
- Running gear with gas cylinder rack and handles #300 368
- Dual feeder with drive rolls #300 366
- Cable kit with 25-ft. (7.6 m) work sense lead #300 367
- Two 15-ft. (4.6 m) PipeWorx 300 guns #195 400

Most Popular Accessories

- PipeWorx Accessories Kit for Dual Feeder #300 568
Includes 25-ft. work cable, EG500 work clamp, two Smith® regulator/flowmeters, and two 4-ft. gas hoses.
- Cable Kit #300 367
For feeder used on power source. Includes feeder cable, weld cable and 25-ft. work sense lead.
- Composite Cable Kit
25 ft. (7.6 m) #300 454
50 ft. (15.2 m) #300 456
For remote feeder applications. Includes composite cable which encases feeder cable, gas hose and weld cable in protective sheath, and either 25- or 50-ft. work sense lead.
- PipeWorx Running Gear #300 368
Includes gas cylinder rack and handles.
- Feeder Cart with Drawer #300 467
For remote feeder applications.
- PipeWorx Cooler #300 370
- PipeWorx Remote Feeder Interface with Gun Triggers and Cable #300 597
- Spool Covers
Single/dual feeder (left) #057 607
Dual feeder (right) #090 389
- DSS-9 Dual Schedule Switch #071 833
- RFCS-14 HD #194 744
- Foot Control Bracket #300 676
- RPBS-14 On-Off Switch Remote #300 666
- Bernard® PipeWorx™ Guns
15 ft. (4.6 m) 250-15 #195 399
15 ft. (4.6 m) 300-15 #195 400

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

Optimized for pipe fabrication shops.

PipeWorx Welding System feeder includes drive rolls. Filler metal sold separately.



FREE! PipeWorx Welding System CD
Showcases the features and benefits of PipeWorx Welding System and new pipe welding techniques. Visit PipeWorx.com page at MillerWelds.com/pipeworxcd to order your CD today.

See pages 42 and 43 for wireless remote controls.

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 Pro-Pulse™ 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

RMD® (Regulated Metal Deposition)

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



RMD Carbon Steel

Pro-Pulse™

- Less heat input than traditional spray pulse transfer
- Shorter arc length
- Narrower arc cone
- Less training time required because Pro-Pulse:
 - Virtually eliminates arc wander
 - Is easier to control the puddle
 - Compensates for tip to work variations automatically
- Improved fusion and fill at the toes of the weld resulting in:
 - Faster travel speeds
 - Higher deposition rates
- When used with RMD, it is possible to use one wire and one gas for all passes



Pro-Pulse Stainless

PipeWorx Memory Card, Accu-Power #300 667

Displays instantaneous power during welding to meet the new ASME Requirement for calculating heat input on complex waveform processes (RMD and Pro Pulse). Requires version 1.07 software minimum.

*Dimensions and weight are for power source only.

Model/Stock Number	Welding Mode/ Process	Amperage/ Voltage Range	Rated Output at 100% Duty Cycle	Amps Input at Rated Output, 60 Hz, 3-Phase 230 V 460 V 575 V	KVA 230 V 460 V 575 V	KW 230 V 460 V 575 V	Max. Open-Circuit Voltage	Dimensions*	Net Weight*
PipeWorx Welding System (#951 381) 230/460 V (#951 382) 575 V	CC: Stick	40-350 A	350 A at 34 VDC	37.9 23.2 19.4	15.1 18.5 19.2	13.9 14 14	90 VDC	H: 28.5 in. (724 mm) W: 19.5 in. (495 mm) D: 31.75 in. (806 mm)	225 lb. (102 kg)
	CC/DC: TIG	10-350 A	350 A at 24 VDC	29.3 18.2 13.5	11.8 14.5 13.4	10.7 10.6 10			
	CV: MIG/ Flux-Cored	10-44 V	400 A at 34 VDC	42.9 24 20.5	17.3 19.2 20.5	16 15.8 16.2			
PipeWorx Power Source only (#907 382) 230/460 V (#907 384) 575 V									

Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
PipeWorx Feeder only (#300 365) Single-Wire model (#300 366) Dual-Wire model	24 VAC, 11 A	100 V, 750 A at 100% Duty Cycle	50-780 IPM (1.3-19.8 m/min.)	.035-.062 in. (0.9-1.6 mm)	60 lb. (27 kg)	H: 14 in. (356 mm) W: 19 in. (483 mm) D: 29 in. (737 mm)	Single 65 lb. (29.5 kg) Dual 90 lb. (41 kg)

MULTIOPERATOR

Also see page 64 for Big Blue® 450 Duo CST™ and 700 Duo Pro multioperator engine drives.

MillerWelds.com/Multioperator



CST™ 280 Racks

See Literature No. DC/18.82

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



See pages 42 and 43 for wireless remote controls.

CST 280 8-Pack Rack shown.

*Empty rack also available – visit MillerWelds.com or your distributor.

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

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) (Paralleled)
- CST 280s: 5/16-in. carbons

Most Popular Accessories



- 4-Pack Rack Running Gear #195 114
- 8-Pack Rack Running Gear #195 436

Model/Stock Number*	Rack Capacity	Input Power to Rack	Amps Input at Rated Output, 50/60 Hz						KVA	KW	Dimensions	Net Weight
			220 V	230 V	400 V	440 V	460 V	575 V				
4-Pack Rack (#907 247) Tweco®-style (#907 245) Dinse-style	4 units	220-230/460-575 V, 50/60 Hz, Three-Phase. Note: CST 280s are factory-linked for 460-575 V.	137	134	79	72	70	57	58.4	40.8	H: 50.75 in. (1289 mm) 4-Pack W: 25.5 in. (648 mm)	355 lb. (161 kg)
8-Pack Rack (#907 365) Tweco®-style	8 units	Dinse units include one set of male connectors; Tweco units do not. See page 33 for information on CST 280.	274	268	158	145	140	114	116.8	81.6	8-Pack W: 46 in. (1168 mm) D: 26.5 in. (673 mm)	640 lb. (290 kg)

XMT® 304 and 350 Racks

See Literature No. DC/18.81, DC/18.8, DC/18.83 and DC/18.84

XMT Rack conveniently houses multiple inverter power sources for multiple welders. This is an ideal system for onsite applications including construction and shipbuilding.



XMT 350 6-Pack Rack shown.



Except 350 VS rack. See pages 42 and 43 for wireless remote controls.

*Empty rack also available – visit MillerWelds.com or your distributor.

Custom build your own rack by mix and matching XMT 304 CC/CV, 350 CC/CV, 350 MPa, 350 VS, 450 CC/CV and 450 MPa; and Invision™ 352 MPa and 450 MPa. Rack holds a maximum of four of the following units: XMT 450 CC/CV, XMT 450 MPa and Invision 450 MPa.

Four-rack and six-rack models are available and come with **two lift eyes** for transportation and **rugged skids** for dragging or pushing.

Lift truck side and end pockets in base for forklift loading and worksite repositioning.

Rack roof panel and power source shelves are **fabricated from galvanized steel and painted** for added protection in harsh environments.

Liquid-tight strain reliefs designed to resist salt water, alcohol, oil, grease and common solvents are provided on both the welding power source and electrical junction box.

Isolated work terminal provides a connection point for common workpiece construction.

Meets IP23 which is more stringent than IP23S or IP23M ratings.

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

All racks with factory-equipped power sources include 20 A fuses to provide primary power line protection for each inverter power supply on 460 or 575 VAC.

Heavy Industrial ● CC CV DC 3 Phase

Processes

- MIG (GMAW)
- Pulsed MIG* (GMAW-P)
- Stick (SMAW)
- TIG and Lift-Arc™ TIG (GTAW)
- Pulsed TIG* (GTAW-P)
- Flux-Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (XMT 304: 1/4-in. carbons) (XMT 350: 5/16-in. carbons) (XMT 450: 3/8-in. carbons)

*With optional controls only – not available with XMT 350 VS model.

Note: TIG processes not available with Invision models.

Most Popular Accessories

- SuitCase® Wire Feeders (pg 23/24)
- Remote Controls (pg 87)
- Rack Running Gear #195 114
- Fuse Kits
XMT 304/350 (20 A, 460–575 V)
4-Pk #220 766/6-Pk #220 765
XMT 304/350 (45 A, 208–230 V)
4-Pk #220 764/6-Pk #220 763
XMT 450 (30 A, 460–575 V)
4-Pk #220 767

Model*	Stock Number with 4 Units	Stock Number with 6 Units	Input Power to Rack	Dimensions	Net Weight
XMT 304 CC/CV Rack	(#907 292) Dinse-style	(#907 291) Dinse-style	230/460 VAC, 60 Hz, Three-Phase (20 A fuses included)	H: 59.375 in. (1508 mm) W: 43 in. (1092 mm) D: 34.375 in. (873 mm)	4 Units 560 lb. (254 kg) 6 Units 712 lb. (323 kg)
	(#907 293) Dinse-style	(#907 294) Dinse-style	460/575 VAC, 60 Hz, Three-Phase (20 A fuses included)		
XMT 350 VS Rack	(#907 227) Tweco®-style	(#907 228) Tweco®-style	208–575 VAC, 50/60 Hz, Three-Phase (20 A fuses included)		4 Units 599 lb. (272 kg) 6 Units 759 lb. (344 kg)
XMT 350 CC/CV Rack	(#907 231) Dinse-style	(#907 232) Dinse-style			
	(#907 407) Tweco®-style	(#907 406) Tweco®-style			
XMT 350 MPa Rack	(#907 410) Tweco®-style	(#907 411) Tweco®-style			

ENGINE DRIVEN



MORE on the WEB

MillerWelds.com/EngineDriven

Product Guide

	Page	Class	Stick	MIG	Flux-Cored*	AC TIG	DC TIG	PAC**	CAC-A	Portability	Weldable Metals	Std. Generator Pwr. (Watts)	Welding Amperage Range	Engine Brand	Special Features	Typical Applications	
Blue Star® 145 DX	52	●	●				●	●		Optional lift eye, running gear	Steel	4500	40-145 DC	See options at MillerWelds.com	Compact, portable	Maintenance, service trucks	
Blue Star® 185 DX	52	●	●				●	●			Steel	6000	55-185 DC		Compact, portable	Maintenance, service trucks	
Wildcat® 200	52	●	●				●	●		Lift eye, pickup mount, optional running gear,	Steel	6500	50-200 DC	Subaru	Compact, lightweight	Maintenance, repair, farm/ranch	
Bobcat™ 225	54	●	●	●	●	●	●	●		Lift eye, optional running gear, trailer	Steel, alum, stainless	11,000	70-150 AC 50-225 DC	Kohler, Subaru	Cost-effective AC/DC Stick	Maintenance, farm/ranch, construction	
Bobcat™ 3 Phase	54	●	●	●	●	●	●	●			1-Ph / 10,500 3-Ph / 11,000	50-225 AC 50-225 DC	Kohler	Backup power for pivot irrigation	Farm/ranch		
Bobcat™ 250	54	●	●	●	●	●	●	●	3/16"		11,000 12,000 with EFI	40-250 CC 90-275 CV	Kohler, Subaru	Industry's most popular engine drive, optional EFI	Fab, maintenance, farm/ranch, construction		
Trailblazer® 275 DC	56	●	●	●	●	●	●	●	3/16"		11,000 12,000 with EFI	10-275 DC	Kohler, Subaru	Industry's best performing engine drive, optional EFI	Fab, structural, maintenance, repair, piping		
Trailblazer® 302	56	●	●	●	●	●	●	●	3/16"		11,000 12,000 with EFI	30-225 AC 10-325 DC	Kohler, Subaru	Industry's best performing engine drive, optional EFI	Fab, structural, maintenance, repair, piping		
Trailblazer® 302 Air Pak™	58	●	●	●	●	●	●	●	3/16"		13,000	30-225 AC 10-350 DC	Kohler	AC/DC, CC/CV, 31 CFM air, battery charge/jump start	Service/maintenance, construction		
Bobcat™ 250 Diesel	60	●	●	●	●	●	●	●	3/16"		Lift eye, optional running gear, trailer	Steel, alum, stainless	11,000	40-250 CC 90-275 CV	Kubota	Contractor's choice, AC/DC Stick, strong FCAW	Fab, maintenance, farm, construction
Trailblazer® 302 Diesel	60	●	●	●	●	●	●	●	3/16"			Steel, alum, stainless	11,000	30-225 AC 10-325 DC	Kubota	Pro's choice, premium arc quality	Fab, structural, maintenance, repair, piping
Big Blue® 300 Pro	61	●	●	●	●	●	●	●	1/4"	Lift eye, pickup mount, optional trailer	Steel, stainless	12,000	20-410 DC	CAT, Kubota, Mitsubishi	Low-speed engine, compact, rugged, quiet	Pipe, structural, construction	
Big Blue® 350 PipePro®	62	●	●	●	●	●	●	●	1/4"		Steel, stainless	12,000	20-400 DC	CAT, Mitsubishi	Premium pipe arc	Pipe, structural	
Big Blue® 450 Duo CST™	64	●	●	●	●	●	●	●	1/4"		Steel, stainless	12,000	5-450 DC	Mitsubishi	Multiprocess engine drive	Construction, fab, pipe	
Big Blue® 400 Eco Pro	63	●	●	●	●	●	●	●	3/16"		Steel, stainless	5500	20-500 DC	Mitsubishi	Compact, fuel efficient	Construction, rental	
Big Blue® 400	63	●	●	●	●	●	●	●	3/16"	Lift eye, generally mounted on optional trailer	Steel, stainless	5500	15-500 DC	Deutz, Perkins	Engine and process choice	Offshore, construction, rental	
Big Blue® 500	63	●	●	●	●	●	●	●	3/8"		Steel, stainless	5500	20-600 DC	Deutz	Engine and process choice	Offshore, construction, rental	
Big Blue® 700 Duo Pro	64	●	●	●	●	●	●	●	3/8"		Steel, stainless	32,000	15-600 DC	Deutz	Multiprocess engine drive	Pipe, structural, rental	
Big Blue® Turbo	65	●	●	●	●	●	●	●	1/2"		Steel, stainless	5500	20-750 DC	Deutz	Turbo for high altitude	Construction, mining	
Big Blue® Air Pak™	65	●	●	●	●	●	●	●	1/2"		Steel, alum, stainless	5500	20-750 DC	Deutz	AC on Deluxe model	Repair, mining, railroad	

Gasoline

Diesel

Why buy a GAS or DIESEL engine?

Gasoline Advantages

- Lower product cost (by 50 to 70 percent)
- Smaller size and less weight
- Less expensive engine repairs
- Better warranties
- Easier cold weather starting

EFI Advantages (vs. Carburetor Models)

- 12 to 27 percent better fuel economy
- Reduced emissions (approx. 1/3 lower)
- Easy starting in all climates (no choke)
- Elimination of carburetor icing
- Better high altitude performance

Diesel Advantages

- Uses 20 to 40 percent less fuel than carburetor gas
- 1-1/2 to 2-1/2 times the engine life
- Required on some job sites for safety
- Typically have longer maintenance intervals
- Convenient if other equipment is diesel

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. *If using self-shielded wire, use CV weld output. **With appropriate Spectrum, see engine-driven product descriptions.
 For more detailed information, see individual specification sheets.



ENGINE DRIVEN

Blue Star® 145 DX and 185 DX

See Literature No. ED/2.5

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



Blue Star 145 DX

Blue Star 185 DX

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

Includes electric start, five-gallon fuel capacity, auto-idle and engine hour meter.

Receptacle covers improve reliability by protecting receptacles from debris.

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

Light Industrial ● **CC DC**

Processes

- Stick (SMAW) • TIG (GTAW)

Gasoline Engines

See options at MillerWelds.com

Most Popular Accessories

- Millermatic® 140 Auto-Set™ #907 335 (pg 8)
- Millermatic® 180 Auto-Set™ #907 312 (pg 8)
- Lifting Eye #195 353 (pg 82)
- No. 38 Running Gear #195 352 (pg 82)
- Protective Cover #195 193 (pg 82) (not for use with running gear)
- No. 2 Stick Cable Set (pg 86)

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

*Additional models are available – visit MillerWelds.com or your distributor.

Gasoline	Model	Stock Number*	Welding Mode/Process	Amperage Range	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	Blue Star 145 DX	(#907 544) with GFCI (#907 544-001) with standard receptacles	CC/DC (Stick/TIG)	40-145	145 A at 25 V, 20% Duty Cycle 100 A at 25 V, 60% Duty Cycle	Peak: 4500 watts Continuous: 4000 watts	H: 22.75 in. (578 mm) W: 22.75 in. (578 mm) D: 31.625 in. (803 mm)	309 lb. (140 kg)
	Blue Star 185 DX	(#907 545) with GFCI (#907 545-001) with standard receptacles	CC/DC (Stick/TIG)	55-185	185 A at 25 V, 20% Duty Cycle 130 A at 25 V, 60% Duty Cycle	Peak: 6000 watts Continuous: 5500 watts		315 lb. (143 kg)

Wildcat® 200 See Literature No. ED/3.0

Compact, lightweight, durable and cost effective machine is designed for the contractor and is great for maintenance/repair, farm and ranch applications.



Fully enclosed durable case provides a fully protected engine to ensure long-term engine reliability.

Accu-Rated™ 6500 watts of usable peak power cranks out enough power for many construction, maintenance/repair, and farm/ranch applications. 5500 watts of continuous power.

12 hours of run time is provided by a seven-gallon fuel tank when using a typical 1/8-inch stick electrode.

Tested and rated at 104 degrees Fahrenheit (40° C) to ensure consistent operation of the welder and generator in all climates.

Heavy duty construction ensures protection from rough handling or the elements to keep you making money, rather than spending it.

Compact design takes up less truck space, is 20 inches wide to fit on service truck tool boxes and is only 24 inches tall allowing visibility out of the rear window when truck mounted.

Standard maintenance displays and front panel mounted engine controls make the Wildcat easy to service and operate.

Light Industrial ● **Industrial** ●
CC DC

Processes

- Stick (SMAW) • TIG (GTAW)

Gasoline Engine

Subaru EX40: 14 HP at 3600 RPM
One-cylinder, four-cycle, overhead cam, industrial, air-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

- Millermatic® 140 Auto-Set™ #907 335 (pg 8)
- Millermatic® 180 Auto-Set™ #907 312 (pg 8)
- Spectrum® 375 X-TREME™ Plasma Cutter #907 339 (pg 70)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Wildcat 200 Running Gear #300 532 (pg 82)
- Protective Cover #300 496 (pg 82) (not for use with running gear)

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

*Additional models are available – visit MillerWelds.com or your distributor.

Gasoline	Stock Number*	Welding Mode/Process	Amperage Range	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	(#907 546) Subaru with GFCI (#907 546-001) Subaru	CC/DC (Stick/TIG)	50-200	200 A at 25 V, 20% Duty Cycle 150 A at 25 V, 100% Duty Cycle	Peak: 6500 watts Continuous: 5500 watts	H: 24.75 in. (629 mm) W: 20 in. (508 mm) D: 35.5 in. (902 mm)	345 lb. (159 kg)



Choose the Right Gas Engine Drive

Bobcat™ (page 54)
The most popular welder/generator

Trailblazer® (page 56)
The best performer in the industry



Product Description	Bobcat™ 225	Bobcat™ 250	Trailblazer® 275 DC	Trailblazer® 302
Product Description	Cost-effective, multiprocess machine primarily used for Stick welding is great for farm, ranch, maintenance/repair operations, and as a stand-alone generator.	Rugged engine drive is great for Stick and Flux-Cored welding and is designed for maintenance/repair operations, construction, farm, ranch and generator use.	Unbeatable Stick, Wire, and DC TIG arc performance, and the independent weld and generator system are ideal for construction, fabrication, and maintenance/repair operations.	High output, unbeatable arc performance, and the independent weld and generator system make this perfect for construction, fabrication, and maintenance/repair operations.
Weld Performance				
Stick - DC	Good / Very Good	Very Good	Excellent	Excellent
Stick - AC (AC electrode)	Very Good	Very Good	–	Very Good
MIG - Wire (Solid/FCAW), Steel	Fair	Good	Excellent	Excellent (325 Amps)
MIG - Wire, Aluminum w/Spool Gun	Fair	Good	Excellent	Excellent (325 Amps)
TIG - DC, Steel	Good	Very Good	Excellent	Excellent
TIG - AC, Aluminum w/H.F.*	Fair	Fair/Good	–	Very Good
Generator				
Watts	11,000 Watts	11,000 Watts / 12,000 with EFI	11,000 Watts / 12,000 with EFI	11,000 Watts / 12,000 with EFI
Power Quality	Very Good	Very Good	Very Good / Excellent	Very Good / Excellent
Power While Welding	Fair / Good With voltage control set near maximum	Good Easier to fine tune arc with voltage control near maximum	Excellent Independent weld and generator – no interaction between tools and the welding arc	Excellent Independent weld and generator – no interaction between tools and the welding arc
Key Features				
Fuel Capacity	12 gallon	12 gallon	12 gallon	12 gallon
Digital Meters with SunVision™	No	No	Yes	Yes
Stick: DIG/Adaptive Hot Start™	No	No	Yes	Yes
Maintenance Displays	Hours / Oil Change	Hours / Oil Change / Fuel	Hours / Oil Change / Fuel / RPMs	Hours / Oil Change / Fuel / RPMs
Polarity Switch	Yes	Yes	No	Yes
14-pin Remote Receptacle	No	No	Yes	Yes
Sound at Max Power	73 dB at 225 amps	72.5 dB at 250 amps	75.5 dB at 275 amps	75.5 dB at 300 amps
Size (H x W x D)	28 x 20 x 40.5 in.	28 x 20 x 40.5 in.	28 x 20 x 45.5 in.	28 x 20 x 45.5 in.
New Bobcat Features				
Sound Change	1/4 less noise	1/3 less noise		
Daily Maintenance	Easy oil checks	Easy oil checks		
Size	5 inches shorter	5 inches shorter		

*High Frequency Arc Starter and Stabilizer

Bobcat™ Series

NEW! Available First Quarter!

The most popular welder/generator in the industry is getting better. Building on its exceptional value, the new Bobcats are:

- Quieter to operate
- Smaller and lighter
- More fuel efficient with EFI
- Easier to maintain



Bobcat 225

Bobcat 3 Phase

Bobcat 250

Our Bobcat engine-driven welder/generators have been the top-selling in their class because they are engineered to be reliable, powerful and durable from the start.

UP TO 33% SOUND REDUCTION

IMPROVED! Quieter and better sound.

Significant improvements in sound level

and quality offer better jobsite communication, which provides a safer, more efficient working environment for you and your crew. New Bobcat welder/generators have rotated the engine toward the front to create more efficient airflow, resulting in significantly quieter operation. Now you can start your job earlier in the day and end it later, as well as work around hospitals, businesses, and residential areas.

5" SHORTER UP TO 55lb. LIGHTER

IMPROVED! Smaller and lighter design.

New Bobcat welder/generators take up less space on

trucks and trailers – leaving more room for other equipment and tools. Plus, they're easier to move around jobsites – even with weld cables and running gear attached.

IMPROVED! Easier maintenance. Easy-to-read front panel maintenance displays show when your equipment needs to be serviced. With the intuitive design, the daily maintenance is faster and easier:

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



Smooth power. Better power means better performance. Our Bobcat welder/generators have smoother power – not the spiked power found with other brands – because of:

- Revolutionary ten-degree skewed-rotor design
- Optimized generator performance

Accu-Rated™ – not inflated generator power.

Our Accu-Rated peak power is usable for maximum generator loads, including plasma cutters, wire welders and motor starting. It also beats the competition's very short-duration peak or surge power. Accu-Rated power delivers:

- 11,000 watts (12,000 with EFI available on the Bobcat 250) of *usable* peak power
- Peak power delivered for a minimum of 30 seconds

Large 12-gallon fuel capacity means many hours of run time before refueling.

Versatile AC and DC weld output provides quality welds on all types of metals. DC is smooth and easy to run while AC Stick is used when arc blow occurs.

Maintenance displays show engine hours and hours left before an oil change is due.

Super-tough protective armor with covers has high-impact resistance in all temperatures and is chemical-resistant. Other applications include: automotive bumpers, tractor hoods and panels, lawn mower decks, large structural parts, etc.

Output stud and receptacle covers as required by OSHA and CSA for jobsite safety.

Fully enclosed case provides reduced sound levels and fully protects the engine.

Welding and power ratings are at 104 degrees Fahrenheit (40° C) – highest in its class to ensure reliable performance.

Heavy-duty construction. All internal components are designed to handle the harshest environments and will run better and last longer.



Bobcat™ 225 (Gas) See Literature No. ED/4.4

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

Bobcat™ 3 Phase (Gas) See Literature No. ED/4.33

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

Bobcat™ 250 (Gas or LP) Additional Features

Rugged engine drive is great for Stick and Flux-Cored welding, adds ability to Carbon Arc gouge, and is designed for maintenance/repair operations, construction, farm/ranch, and generator use.

Front panel fuel gauge provides convenient fuel level indication.

Smoother weld output and better generator power while welding.

More weld output than 225-amp welder generators for more versatility. 72 percent more power for MIG/FCAW, 67 percent more for AC welding, and 11 percent more for DC Stick.



Electronic Fuel Injection (EFI) – Recommended Option



EFI gas engines optimize the air/fuel ratio for all engine speeds and engine loads, resulting in lower operational costs, fewer emissions, longer runtimes and better performance when compared to carbureted models. The payback from fuel savings alone is a matter of months. EFI will give you:

- 12,000 watts of generator power and more weld output
- Easy starts with no choke required
- Reliable operation, even with infrequent use – less prone to fuel deterioration
- Fuel efficiency – use up to 27 percent less fuel
- Fewer emissions – 27 percent less CO and 33 percent lower HC+NOx levels

Industrial ● 225 and 3 Phase models
Heavy Industrial ● 250 model



Processes

- AC/DC Stick (SMAW)
- MIG (GMAW)¹
- Flux-Cored (FCAW)²
- AC²/DC TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A)³ (rated 3/16-in. carbons, capable 1/4-in. carbons)

¹With voltage-sensing feeder only.

²With Dynasty® 200 Series or HF-251 (non-critical).

³Bobcat 250 model only.

Gasoline/LP Engines

Gas – Kohler CH 730 or Subaru EH 65: 23 HP at 3600 RPM
EFI Gas – Kohler ECH 730:

25 HP at 3600 RPM

LP – Kohler CH 730:

25 HP at 3600 RPM

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

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ Wire Feeders (pg 23)
- Dynasty® 200 Series (pg 38)
- Spectrum® Plasma Cutters
- 375 X-TREME™ #907 339 (pg 70)
- 625 X-TREME™ #907 404 (pg 70)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Single-Phase Full KVA Plug Kit #119 172 (pg 82)
- Remote Oil Drain/Filter Kits (pg 83)
- Hose and LP Tank Mounting Assembly #300 917 (pg 83)
- Multi-Terrain Running Gear (pg 83)
- #300 913 with Inner Tubes
- #300 914 with Never Flat™ tires
- Off-Road Running Gear (pg 83)
- #300 909 with Inner Tubes
- #300 910 with Never Flat™ tires
- Protective Cage with Cable Holders #300 921 (pg 83)
- Protective Cover (pg 83)
- HWY-1000 Trailer #195 013 (pg 84)
- Engine Tune Up Kits are available from your Miller parts distributor.

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

Notes: Jobsites may require GFCI protection. See gas engine drive comparison chart on page 53.

*Additional models are available – visit MillerWelds.com or your distributor. See page 60 for Bobcat 250 diesel model. **Liquid Withdrawal LP System.

Model	Stock Number*	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Generator Power at 104° F (40° C)	Dimensions	Net Weight
Bobcat 225	(#907 498) Kohler with GFCI (#907 498-001) Kohler (#907 499) Subaru	CC/AC	Stick/TIG	70 – 150 A	150 A at 25 V, 100% Duty Cycle	Single-Phase Peak: 11,000 watts Continuous: 9500 watts	H: 28 in. (711 mm) H: 32.75 in. (832 mm) to top of exhaust W: 20 in. (508 mm) D: 40.5 in. (1029 mm)	485 lb. (220 kg)
		CC/DC	Stick/TIG	50 – 225 A	225 A at 25 V, 100% Duty Cycle			
		CV/DC	MIG/FCAW	19 – 28 V	200 A at 20 V, 100% Duty Cycle			
Bobcat 3 Phase	(#907 505) Kohler with GFCI	CC/AC	Stick/TIG	50 – 200 A	200 A at 25 V, 100% Duty Cycle	Single-Phase/Three-Phase Peak: 11,000 watts Continuous: 9500 watts/10,000 watts		495 lb. (225 kg)
		CC/DC	Stick/TIG	50 – 225 A	210 A at 25 V, 100% Duty Cycle			
		CV/DC	MIG/FCAW	19 – 28 V	200 A at 20 V, 100% Duty Cycle			
Bobcat 250	(#907 500) Kohler with GFCI (#907 500-001) Kohler (#907 501) Subaru (#907 502) EFI Kohler (#907 504) LP Kohler with GFCI (order #300 917 Hose and LP Tank Mounting Assembly separately)**	CC/AC	Stick/TIG	40 – 250 A	250 A at 25 V, 60% Duty Cycle 225 A at 25 V, 100% Duty Cycle	Single-Phase Peak: 11,000 watts Continuous: 9500 watts EFI Model Peak: 12,000 watts Continuous: 10,500 watts		501 lb. (227 kg)
		CC/DC	Stick/TIG	40 – 250 A	250 A at 25 V, 100% Duty Cycle			
		CV/DC	MIG/FCAW	17 – 28 V	275 A at 25 V, 60% Duty Cycle 250 A at 28 V, 100% Duty Cycle			

Gasoline/LP

Trailblazer® 302 and 275 DC (Gas or LP)

See Literature No. ED/4.77

High output, unbeatable arc performance, and the independent weld and generator system make these engine drives perfect for construction, fabrication, and maintenance/repair operations.



Trailblazer 302 gas model shown.



See pages 42 and 43 for wireless remote controls.

Superior arc performance

- Four preset DIG settings (Stick)
- Adaptive Hot Start™ (Stick)
- Excellent MIG/FCAW arc performance
- Lift-Arc™ TIG with Auto-Crater™ and Auto-Stop™

EXCLUSIVE! DC TIG arc end with Auto-Crater™

- Eliminates need for a remote control
- Maintains shielding gas coverage
- Eliminates tungsten and workpiece contamination
- Eliminates unwanted arc strikes outside the weld area

Accu-Rated™ – not inflated generator power.

Our Accu-Rated peak power is usable for maximum generator loads, including plasma cutters, wire welders and motor starting. It also beats the competition's very short-duration peak or surge power. Accu-Rated power delivers:

- 11,000 watts (12,000 with available EFI) of usable peak power
- Peak power delivered for a minimum of 30 seconds

Self-calibrating digital weld meters with maintenance displays

- Preset and actual weld amperage/voltage
- Fuel gauge
- Hour meter function and oil change interval
- Engine RPMs

Super-tough protective armor with covers has high-impact resistance in all temperatures and is chemical-resistant. Other applications include: automotive bumpers, tractor hoods and panels, lawn mower decks, large structural parts, etc.

Independent weld and generator. Trailblazer Series has the only truly independent weld and generator system – meaning no interaction between tools and the welding arc, and it has the strongest generator power while welding.

Heavy Industrial
 Trailblazer 275 DC is DC only.

Processes

- AC¹/DC Stick (SMAW)
- MIG (GMAW)²
- Flux-Cored (FCAW)²
- AC³/DC⁴ TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/16-in. carbons, capable 1/4-in. carbons)

¹302 model only.

²With wire feeder.

³Both models with Dynasty® 200 Series or 302 model with HF-251.

⁴Two-piece TIG torch recommended.

Gasoline/LP Engines

Gas – Kohler CH 730 or

Subaru EH 65: 23 HP at 3600 RPM

EFI Gas – Kohler ECH 730:

25 HP at 3600 RPM

LP – Kohler CH 730:

25 HP at 3600 RPM

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

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ 12VS Wire Feeder #951 184 (pg 23)
- Spoolmatic® 30A Aluminum Spool Gun / WC-24 Control #130 831 / #137 549 (pg 26)
- Dynasty® 200 Series (pg 38)
- Spectrum® Plasma Cutters 625 X-TREME™ #907 404 (pg 70) 875 #907 390-01-1 (pg 71)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Single-Phase Full KVA Plug Kit #119 172 (pg 82)
- Remote Oil Drain/Filter Kits (pg 83)
- Hose and LP Tank Mounting Assembly #195 329 (pg 83)
- All-Purpose Running Gear for Gas/LP models (pg 83) #300 396 with Inner Tubes #300 477 with Never Flat™ tires
- Protective Cage with Cable Holders (pg 83)
- Protective Covers (pg 83)
- HWY-1000 Trailer #195 013 (pg 84)
- HF-251D-1 #042 388 (pg 87)
- Engine Tune Up Kits are available from your Miller parts distributor.

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

Electronic Fuel Injection (EFI) – Recommended Option



- 12,000 watts of generator power and more weld output
- Easy starts with no choke required
- Reliable operation, even with infrequent use – less prone to fuel deterioration
- Fuel efficiency – use up to 27 percent less fuel
- Fewer emissions – 27 percent less CO and 33 percent lower HC+NOx levels

Notes: Jobsites may require GFCI protection. See gas engine drive comparison chart on page 53.

*Additional models are available – visit MillerWelds.com or your distributor. See page 60 for Trailblazer 302 diesel model. **Liquid Withdrawal LP System.

Gasoline/LP	Model	Stock Number*	Welding Mode	Process	Amp/Volt Ranges	Rated Weld Output at 25 V at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	Trailblazer 275 DC	(#907 214) Kohler (#907 215) Subaru (#907 451) EFI Kohler (#907 214-02-2) LP Kohler with GFCI (order #195 329 Hose and LP Tank Mounting Assembly separately)**	CC/DC	Stick/TIG	10-275 A	275 A at 100% Duty Cycle	Peak: 11,000 watts Continuous: 9500 watts	H: 28 in. (711 mm) H: 33 in. (838 mm) to top of exhaust W: 20 in. (508 mm) D: 45.5 in. (1156 mm)	568 lb. (258 kg)
Trailblazer 302	(#907 216) Kohler (#907 217) Subaru (#907 452) EFI Kohler (#907 216-02-2) LP Kohler with GFCI (order #195 329 Hose and LP Tank Mounting Assembly separately)**	CC/AC	Stick/TIG	10-225 A	200 A at 60% Duty Cycle	Peak: 12,000 watts Continuous: 10,500 watts			
		CC/DC	Stick/TIG	10-300 A	280 A at 100% Duty Cycle				
		CV/DC	MIG/FCAW	13-35 V, 10-325 A	300 A at 100% Duty Cycle				



Typical Equipment Power Usage

Bobcats and Trailblazers will easily start and run typical household and contractor tools, as well as welding and farm equipment.

		Starting Watts	Running Watts
Farm Equipment	Barn Cleaner (5 HP)	11,600	3000
	Silo Unloader (5 HP)	12,200	4300
	Portable Conveyor (1/2 HP)	3400	1000
	Milker (5 HP)	10,500	2800
Contractor Tools	Hand Drill (1/2 inch)	600	600
	Circular Saw (8-1/4 inch)	1400	1400
	Air Compressor (1-1/2 HP)	8200	2200
	Flood Lights (Vapor)	1250	1000
Household	Refrigerator/Freezer	2200	700
	Sump Pump	1300	800
Welding/Cutting Equipment	Millermatic® 212 Auto-Set™ (230 V MIG Welder)	6500	6500
	Spectrum® 625 X-TREME™ (30 A, 230 V, 1/2-in. cut)	6900	6900

The Green Revolution Starts by Owning Blue

Thanks to breakthrough work with our engine suppliers, Miller is the exclusive provider of gas welder/generators with EFI technology.

Savings Advantage Comparison Chart

	Carburetor Model	Optional EFI Model
Fuel use	—	12–27% less
Weekly fuel cost (25 gal./week; \$3.00 gas)	\$75	\$54.75 (a \$20 savings – \$20 x 50 weeks = \$1,000/yr!)
HC+NO ₂ emissions	—	33% lower
CO emissions	—	27% lower
Run time: 1/8-in. 7018	17 hours	20 hours
Run time: welding at 140 A and 40% duty cycle	14.5 hours	17 hours
Run time: 2400 watts (120 V, 20 A) continuous load	12 hours	15.2 hours
Total output at 3600 RPM	23 HP	25 HP
Accu-Rated™ power (same for Bobcat and Trailblazer)	11,000 W peak power 9,500 W continuous	12,000 W peak power 10,500 W continuous

SAVE UP TO \$1,000 PER YEAR!

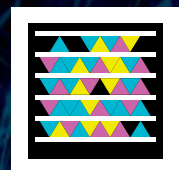
Here's how Bobcat™ and Trailblazer® welder/generators with optional EFI engines can save you money, help the planet and improve job site performance.

EFI — Electronic Fuel Injection. It's standard technology on most cars. EFI optimizes the air/fuel ratio for all engine speeds and all engine loads. It's what enables V6 engines to deliver small block V8 performance while getting better mileage.

Compared to carburetor models, Bobcats and Trailblazers with EFI gas engines deliver a Win-Win performance:

- Up to 27 percent better fuel economy.
- Up to 27 percent longer run times for less refueling.
- Reduced emissions because EFI engines use less fuel.
- No choke required. EFI means easy starting in all climates, at all altitudes and no carburetor icing.

Check out the Bobcat and Trailblazer EFI models on pages 54–56.



Scan this tag to hear from an EFI customer.

Trailblazer® 302 Air Pak™ See Literature No. ED/4.78

Powerful all-in-one tool is designed for repair and construction with unbeatable multiprocess weld quality, integrated rotary screw air compressor, 13,000 watts of generator power for jobsite tools, and battery charge/jump start.



See pages 42 and 43 for wireless remote controls.

Improved!

Now with Higher Air Output!

Battery charge / jump start

- For 12- and 24-volt batteries
- Adjustable 10 to 75 amps of charge current
- Up to 450 amps of jump start amperage

Optional air cooler with separator. Removes moisture, fully integrated. For tools, blasters, plasma cutting, and gouging. Effective when temperatures are above freezing and easily bypassed when below freezing.



Size and weight advantage. By adding just 14 inches of length to a Trailblazer, the Air Pak occupies up to 50 percent less truck bed space and up to 25 percent less axle weight compared to using a separate engine-driven air compressor.

Cutting and gouging advantage. Ample generator power for plasma cutters and weld power for Carbon Arc gouging, plus integrated air compressor delivers air for both.

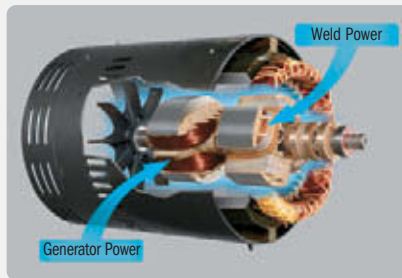
EXCLUSIVE! Capable of running air tools at idle. Reduce noise and fuel consumption by running impacts, decking punches, and many other types of air tools at idle speed.

Industry-leading 13,000 watts of peak power is voltage regulated and independent of weld settings. 11,000 watts of continuous power.



Rotary screw air compressor

- **IMPROVED!** Delivers up to 31 CFM and 160 PSI of air with no storage tank
- Runs many tools at idle speed
- Gives 100 percent deliverable air
- Compressor is warranted by Miller for three years
- Air outputs rated at an industry high 104 degrees Fahrenheit (40° C)
- Front panel air pressure adjustment (80 to 160 PSI)
- Screw compressor is designed for more than 30,000 hours of operation
- Automatic overpressure shutdown with indication



Independent weld and generator.

Trailblazer Series has the only truly independent weld and generator system – meaning no interaction between tools and the welding arc, and it has the strongest generator power while welding.

Heavy Industrial ● CC CV AC/DC

Processes

- AC/DC Stick (SMAW)
- MIG (GMAW)¹
- Flux-Cored (FCAW)¹
- AC²/DC³ TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/16-in. carbons, capable 1/4-in. carbons using integrated air compressor)
- Battery Charger/Jump Start

¹With wire feeder.

²With Dynasty® 200 Series or HF-251 (non-critical).

³Two-piece TIG torch recommended.

Gasoline Engine

Kohler CH 750: 30 HP at 3600 RPM V-twin-cylinder, four-cycle, overhead valve, industrial, air-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ 12VS Wire Feeder #951 184 (pg 23)
- Spoolmatic® 30A Aluminum Spool Gun / WC-24 Control #130 831 / #137 549 (pg 26)
- Dynasty® 200 Series (pg 38)
- Spectrum® Plasma Cutters 625 X-TREME™ #907 531 (pg 70) 875 #907 390-01-1 (pg 71)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Remote Oil Drain/Filter Kits (pg 83)



- Protective Cage with Cable Holders #300 473 (pg 83)
- Protective Cover #300 379 (pg 83)
- Air Cooler with Separator #300 420



- **25-ft. Battery Charge/Jump Cables with Plug** #300 422
- Engine Tune Up Kits are available from your Miller parts distributor.

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

*Additional models are available – visit MillerWelds.com or your distributor. **Battery charge/jump cables (#300 422) must be ordered separately.

Gasoline	Stock Number*		Welding Mode	Process	Amp/Volt Ranges	Rated Weld Output at 32 V at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
		(#907 549**)	Kohler with GFCL and Electric Fuel Pump	CC/DC	Stick/TIG	10–300 A	280 A at 100% Duty Cycle	Peak: 13,000 watts Continuous: 11,000 watts	H: 28 in. (711 mm) H: 34.5 in. (876 mm) to top of exhaust W: 20 in. (508 mm) D: 59.625 in. (1514 mm)
	(#907 549-001**)	Kohler	CV/DC	MIG/FCAW	13–35 V, 350 A	300 A at 100% Duty Cycle 350 A at 60% Duty Cycle			
	(#907 549-002**)	Kohler with Cooler/Separator	CC/AC	TIG/Stick	10–225 A	225 A at 60% Duty Cycle			
Air Compressor	Features	Free Air Delivery at 3600 RPM	Free Air Delivery at 3000 RPM	Free Air Delivery at 2400 RPM (Idle)	Working Pressure Constant	Duty Cycle	Oil Capacity		
By Miller	Rotary screw with electric clutch for on/off. Oil change intervals 500 hours. Life expectancy 30,000 hours.	31 CFM (0.88 m ³ /min.)	28 CFM (0.79 m ³ /min.)	22 CFM (0.62 m ³ /min.)	80–160 PSIG	100%	1.75 qt. (1.7 L)		



Product Applications

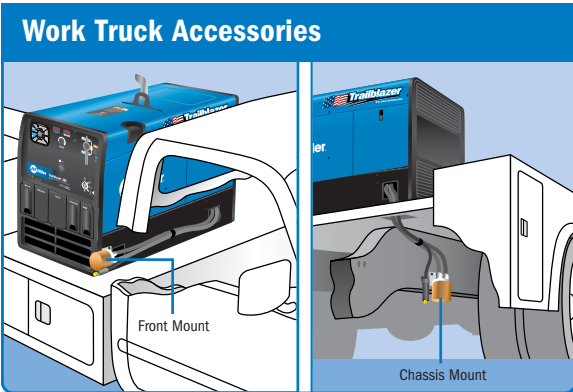


For Every Truck, There's a Solution from the Industry Leader

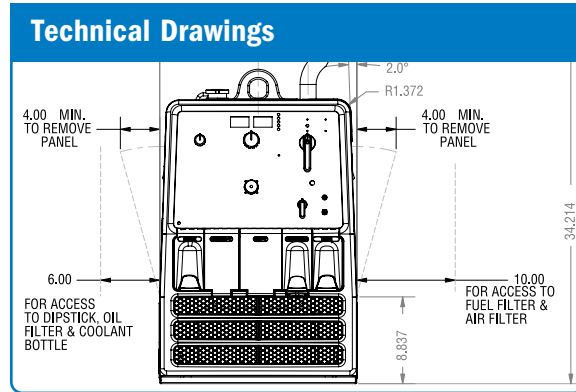
Whether your mobile repair work demands welding, generator power, air, or some other multifunctional need, Miller has a solution.

Learn more at MillerWelds.com/Worktrucks

Work Truck Accessories



Technical Drawings



Choose the Right Diesel Engine Drive

Miller provides an expansive choice of diesel welder/generators. These choices are made available because no two jobs are the same. See at right how to select the correct diesel engine drive that's right for your application.

High-Speed Diesel Advantages



Bobcat™ and Trailblazer® Diesels (page 60)

- **Lower product costs**
- **Smaller size**
 - Fits through small doors and on jobsite elevators
 - Fits on smaller trucks
- **Lightweight**
 - Easier to transport around the jobsite

Low-Speed Diesel Advantages



Big Blue® Series (pages 61–65)

- **Lower engine speeds**
 - Longer engine life at slower speeds
- **Quieter**
 - Some jobsites regulate noise level
- **Longer maintenance intervals**
- **Higher weld outputs**



Bobcat™ 250 Diesel See Literature No. ED/4.34

Rugged engine drive is great for Stick and Flux-Cored welding and is designed for maintenance/repair operations, construction, farm/ranch, and generator use.



Versatile AC and DC Stick/TIG plus Wire capabilities provide quality welds on all types of metals. DC is smooth and easy to run while AC Stick is used when arc blow occurs.

Note: AC TIG requires Dynasty 200 Series or HF-251 (non-critical).

Tri-Cor™ technology is a redesigned stabilizer with added iron core for smoother weld output, improved performance and decreased spatter with 7018 electrodes. All without sacrificing the excellent performance with 6010 electrodes.

Accu-Rated™ 11,000 watts of usable peak power is delivered for a minimum of 30 seconds. Accu-Rated means peak power is usable for maximum generator loads such as plasma cutting, Millermatic® MIG welders and motor starting. Accu-Rated peak power beats the competition's very short-duration peak or surge power. Use your peak power, it's more than a number.

Idle lock switch allows engine to be started at idle to extend engine life.

**Additional models are available – visit MillerWelds.com or your distributor.*

Industrial ● Hvy Industrial ●



Processes

- AC/DC Stick (SMAW)
- MIG (GMAW)¹ ▪ Flux-Cored (FCAW)¹
- AC²/DC TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/16-in. carbons, capable 1/4-in. carbons)

¹With voltage-sensing feeder only.

²With Dynasty® 200 Series or HF-251 (non-critical).

Diesel Engine

EPA Tier 4 Compliant! Kubota D722:

19 HP at 3600 RPM

Three-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

- Dynasty® 200 Series (pg 38)
- Spectrum® Plasma Cutters
375 X-TREME™ #907 339 (pg 70)
625 X-TREME™ #907 404 (pg 70)
- Protective Cage #300 052 (pg 83)
- Protective Cover (pg 83)
- HWY-1000 Trailer #195 013 (pg 84)

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

Diesel	Stock Number*	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	(#907 547) Kubota with GFCI (#907 547-001) Kubota	CC/AC CC/DC	Stick/TIG	40–100 A 60–140 A 80–200 A 100–275 A	250 A at 25 V, 100% Duty Cycle 275 A at 25 V, 60% Duty Cycle	Peak: 11,000 watts Continuous: 9500 watts	H: 30 in. (762 mm) H: 34.25 in. (870 mm) to top of exhaust W: 20 in. (508 mm) D: 52 in. (1321 mm)	700 lb. (318 kg)
	CV/DC	MIG/FCAW	17–22 V 20–28 V	250 A at 28 V, 100% Duty Cycle 275 A at 25 V, 60% Duty Cycle				

Trailblazer® 302 Diesel See Literature No. ED/4.77

High output, unbeatable arc performance, and the independent weld and generator system make this engine drive perfect for construction, fabrication, and maintenance/repair operations.



Independent weld and generator. Trailblazer Series has the only truly independent weld and generator system – meaning no interaction between tools and the welding arc, and it has the strongest generator power while welding.

Superior arc performance

- Four preset DIG settings (Stick)
- Adaptive Hot Start™ (Stick)
- Excellent MIG/FCAW arc performance
- Lift-Arc™ TIG with Auto-Crater™ and Auto-Stop™

Accu-Rated™ 11,000 watts of usable peak power cranks out enough power for most applications: job site, farm/ranch, or home. 9500 watts of continuous power.

Automatic start at idle idles engine immediately when started to extend engine life and reduce fuel use and noise.



See pages 42 and 43 for wireless remote controls.

**Additional models are available – visit MillerWelds.com or your distributor.*

Heavy Industrial ●



Processes

- AC/DC Stick (SMAW)
- MIG (GMAW)¹ ▪ Flux-Cored (FCAW)¹
- AC²/DC³ TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/16-in. carbons, capable 1/4-in. carbons)

¹With wire feeder.

²With Dynasty® 200 Series or with HF-251.

³Two-piece TIG torch recommended.

Diesel Engine

EPA Tier 4 Compliant! Kubota D722:

19 HP at 3600 RPM

Three-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

- Dynasty® 200 Series (pg 38)
- Spectrum® Plasma Cutters
625 X-TREME™ #907 404 (pg 70)
875 #907 390-01-1 (pg 71)
- Protective Cage #300 052 (pg 83)
- Protective Cover (pg 83)
- HWY-1000 Trailer #195 013 (pg 84)

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

Diesel	Stock Number*	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	(#907 548) Kubota with GFCI (#907 548-001) Kubota	CC/AC CC/DC	TIG/Stick Stick/TIG	10–225 A 10–300 A	200 A at 25 V, 60% Duty Cycle 280 A at 25 V, 100% Duty Cycle	Peak: 11,000 watts Continuous: 9500 watts	H: 30 in. (762 mm) H: 34.25 in. (870 mm) to top of exhaust W: 20 in. (508 mm) D: 52 in. (1321 mm)	720 lb. (327 kg)
	CV/DC	MIG/FCAW	13–35 V, 10–325 A	300 A at 25 V, 100% Duty Cycle				



Big Blue® 300 Pro See Literature No. ED/5.21

Reliable low-speed diesel with outstanding arc performance.
Ideal for construction, fabrication or process piping professionals.



**Legendary Big Blue
Reliability with
Professional Quality Arc!**



See pages 42 and 43 for wireless remote controls. Wireless Antenna Kit (#300 749) recommended.

*Additional models are available – visit MillerWelds.com or your distributor.

Meter maintenance displays

- Fuel gauge
- Hour meter function
- 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

The Vault – ultimate control board reliability. Housed in a sealed vault, sealed connections are made through watertight plugs that make these components impenetrable to dust and moisture.



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

Improved arc starts and arc stability for excellent performance in all applications.

Easy to use. Simple controls make it easy to set-up and weld.

Quiet. Only 72.2 db (97 Lwa) at maximum output. Improves jobsite communication and safety.

Compact design fits sideways in a standard pickup.

Optional stainless steel package available.

CSA, IEC and NEMA compliant.

Heavy Industrial

Processes

- Stick (SMAW)
- MIG (GMAW)
- Flux-Cored (FCAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/16-in. carbons, capable 1/4-in. carbons)

Diesel Engines

EPA Tier 4i Compliant Choices!

CAT C1.5: 21.7 HP at 1850 RPM

Three-cylinder, industrial, liquid-cooled

Kubota V1505: 20.2 HP at 1850 RPM

Four-cylinder, industrial, liquid-cooled

Mitsubishi S4L2: 24.4 HP at 1850 RPM

Four-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ 12VS (pg 23)
- SuitCase® 12RC (pg 24)
- Dynasty® 200 Series (pg 38)
- Wireless Remote Hand Control/ Wireless Antenna Kit #300 430 / #300 749 (pg 43)
- Spectrum® 875 (pg 71)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Single-Phase Full KVA Plug Kit #119 172 (pg 82)
- Protective Cover #195 301 (pg 82)
- HWY-224 Trailer #043 805 (pg 84)
- PRHC-14 Remote #195 511 (pg 86)

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

Diesel	Stock Number*	Welding Mode	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
		(#907 144) CAT (#907 144-02-1) CAT with Stainless Steel/120 V Block Heater (#907 521) Kubota with 120 V Block Heater (#907 472) Mitsubishi (#907 472-001) Mitsubishi with 120 V Block Heater	CC/DC	20-410 A	300 A at 32 V, 60% Duty Cycle	Peak: 12,000 watts Continuous: 10,000 watts	H: 32 in. (813 mm) W: 26.25 in. (667 mm) D: 56 in. (1422 mm)
		CV/DC	14-40 V				

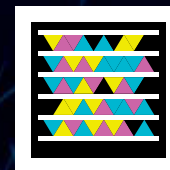


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Whether you weld for your Profession or are the Do-It-Yourself kind, we've got a market-specific PRO and DIY eNewsletter for you.

Delivered every six weeks, PRO and DIY feature topics selected for the professional or do-it-yourself welder.

Sign up for one or sign up for both and start receiving product updates, success stories, how-to and technical advice, project ideas and other welding information tailored to fit your world.



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Big Blue® 350 PipePro® System

Designed exclusively for transmission pipeline work, the system offers a complete welding solution. With Stick welding capabilities – as well as MIG/FCAW welding capabilities to meet high-strength steel requirements – it is ideal for the most demanding pipeline jobs.



Miller Big Blue 350 PipePro (Lit. No. ED/5.4)

- Easy arc starts and better arc control provide improved arc performance to produce more consistent welds.
- Enhanced MIG/FCAW arc control for best in class performance.
- Quieter – 40 percent less noise improves jobsite communication and safety.
- The Vault – ultimate control board reliability. A sealed aluminum case protects the circuit board from dust, dirt, moisture and heat.
- 12,000 watts of peak single-phase auxiliary power runs multiple jobsite tools.
- Compact size and weight optimizes truck space.
- 20 percent greater fuel efficiency.
- Tier 4i Compliant – meets tough EPA emission requirements.
- Auto Remote Sense™ (ARS) – eliminates confusion of a remote/panel switch.
- LINE-X® cover is tough to provide superior impact, corrosion and abrasion protection.
- Optional stainless steel package available.
- CSA, IEC and NEMA compliant.

Miller SuitCase® X-TREME™ 8HD DS

- Voltage-sensing, heavy-duty wire feeder features numerous performance-driven benefits.
- High-torque motor can handle large or small diameter flux-cored wires with ease.
- Improved motor control allows for incredible precision and arc control.
- Dual schedule operation when connected to PipePro Dura-Flux gun, fixed 12 percent reduction in wire feed in Schedule B.

Miller Wireless Remote Hand Control (page 43)

- Completely cordless design increases project productivity, saves money and improves operator safety.
- Extends remote welding control range to 300 feet for jobsite mobility.
- Eliminates costly cord failures.
- Improves weld quality with precise operator control.
- Belt clip keeps the remote secure and accessible.
- Wireless Antenna Kit #300 749 recommended.

Heavy Industrial ● CC CV DC

Processes

- Stick (SMAW)
- MIG (GMAW)
- Flux-Cored (FCAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 1/4-in. carbons)

Diesel Engine

EPA Tier 4i Compliant!

CAT C1.5T: 24.5 HP at 1850 RPM
Turbo-charged three-cylinder, industrial, liquid-cooled

Mitsubishi S4L2: 24.4 HP at 1850 RPM
Four-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

Big Blue 350 PipePro System Consists Of (ordered separately)

- Big Blue 350 PipePro engine drive (see chart below for stock numbers)
- SuitCase X-TREME 8HD DS wire feeder #300 594-003
- Wireless Remote Hand Control and 14-pin receiver #300 430
- Wireless Antenna Kit #300 749
- Bernard PipePro Dura-Flux gun with 15-ft. (4.5 m) cable with 1/16-in. liner #7010072 with 5/64-in. liner #7010082
- Hobart Brothers Fabshield 1/16 in. 79T8 #S228519-V32 1/16 in. 79T8Ni2 #S228819-V32 5/64 in. 79T8 #S228525-V32 5/64 in. 79T8Ni2 #S228825-V32

Most Popular Accessories

Big Blue 350 PipePro

- Single-Phase Full KVA Plug Kit #119 172 (pg 82)
- Engine Filter Kit #244 711 (includes air, oil and fuel filters)

SuitCase X-TREME 8HD DS Feeder

- V-Knurled Drive Rolls 1/16 in. (1.6 mm) #079 609 5/64 in. (2.0 mm) #079 610

PipePro Dura-Flux Gun

- Quik Tip™ Contact Tips 1/16 in. (1.6 mm) #T1116 5/64 in. (2.0 mm) #T1564
- Hi-Viz™ Quik Tip™ Insulator #7010062
- Neck (70° x R2 in.) #7010068
- Neck Liner 1/16 in. #QJL-116 5/64 in. #QJL-564
- Cable Liner 1/16 in. #44215 5/64 in. #44315

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

BERNARD® PipePro Dura-Flux™

- Features a lightweight, rotatable Hi-Viz™ neck that matches the SuitCase X-TREME HD DS performance, resulting in optimal arc characteristics.
- Power cable with internal trigger leads provides better weld-joint access.
- Replaceable liner makes maintenance simple.
- Comfortable handle with dual schedule switch optimizes wire feed speed and reduces user fatigue.

HOBART BROTHERS® Fabshield® 79T8/79T8Ni2

- Self-shielded flux-cored tubular wires specifically designed for transmission pipeline applications.
- Fast-freezing, easy-to-remove slag decreases time spent clearing weld beads.
- All-position welding, excellent vertical-down performance, reduces fatigue and weld cycle time.
- Four 10-pound vacuum-packed spools per jobsite-friendly bucket, 1080 pounds per pallet.
- Ideal for multipass welding on deep-groove pipe weld butt joints.
- 79T8 typical applications are on X70 grade pipe and below.
- 79T8Ni2 typical applications are on X80 grade pipe.

Diesel	Model/Stock Number		Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	Big Blue 350 PipePro Engine Drive only (#907 478) CAT Turbo (#907 478-001) CAT Turbo w/Stainless Steel (#907 428) Mitsubishi (#907 428-001) Mitsubishi w/Stainless Steel		CC/DC	TIG	20-400 A	400 A at 26 V, 40% Duty Cycle 350 A at 24 V, 100% Duty Cycle	Peak: 12,000 watts Continuous: 10,000 watts	H: 32 in. (813 mm) W: 26.25 in. (667 mm) D: 56 in. (1422 mm)	Caterpillar 1037 lb. (470 kg) Mitsubishi 1018 lb. (462 kg)
		CV/DC	MIG	14-40 V	350 A at 34 V, 60% Duty Cycle 325 A at 33 V, 100% Duty Cycle 350 A at 31.5 V, 100% Duty Cycle				
Model/Stock Number		Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight	
SuitCase X-TREME 8HD DS Feeder only (#300 594-003)		Operates on open-circuit voltage and arc voltage: 14-48 VDC, 110 Max. OCV	330 A at 60% Duty Cycle	Low Range 25-200 IPM (0.65-5.2 m/min.) High Range 175-780 IPM (4.5-19.8 m/min.) dependent on arc voltage	Solid Wire .023-.062 in. (0.6-1.6 mm) Flux-Cored .030-.078 in. (0.8-2.0 mm)	8 in. (203 mm), 14 lb. (6.4 kg)	H: 12.75 in. (324 mm) W: 7.25 in. (184 mm) D: 18 in. (457 mm)	30 lb. (14 kg)	



Heavy Industrial ● **CC** **CV** **DC**

Big Blue® 400 and 500 cc or CC/CV

See Literature No. ED/10.8

Designed for fleet owners, construction contractors and rental companies who want a powerful diesel welder/generator and place a premium on rugged reliability with proven performance.



Big Blue 500 CC/CV Deluxe model shown.

Note: All models come standard with Engine Gauges.
*Additional models are available – visit MillerWelds.com or your distributor.
**Adds Auto Idle, Weld Meters and Optional Generator Power.

- Meter maintenance displays**
- Fuel gauge
 - Hour meter function
 - Oil change interval
 - High coolant temperature, low oil pressure and low fuel shutdowns
- CC/CV models have the vault** for control board reliability (see page 61 for details).
- Designed and built with reliable, heavy-duty industrial components** to allow operation in remote locations.

- Hot Start™** makes it easy to start all types of Stick electrodes.
- Arc-Drive™** enhances Stick welding, especially on pipe, by focusing arc and preventing electrode from going out.
- 5500-watt peak AC power** independent of weld settings means no interaction between tools and the welding arc.
- Quick and easy maintenance** with single-side access to oil level check, oil fill, oil filter, fuel filter and air cleaner.
- CSA, IEC and NEMA compliant.**

- Processes**
- Stick (SMAW) • MIG (GMAW)*
 - Flux-Cored (FCAW)* • TIG (GTAW)
 - Air Carbon Arc Cutting and Gouging (CAC-A)
(Big Blue 400: rated 5/16-in. carbons, capable 3/8-in. carbons)
(Big Blue 500: rated 3/8-in. carbons)
 - Stud
- *CC/CV models only.
- Diesel Engines**
EPA Tier 4i Compliant Choices!
- 400 – Deutz D2011L03i:**
32 HP at 1800 RPM
Three-cylinder, industrial, air/oil-cooled
- 400 – Perkins 404D-22:**
32.6 HP at 1800 RPM
Four-cylinder, industrial, liquid-cooled
- 500 – Deutz D2011L04i:**
48.6 HP at 1800 RPM
Four-cylinder, industrial, air/oil-cooled
- Note: Engines are warranted separately by engine manufacturer.
Visit MillerWelds.com or your distributor for Miller® options and accessories.

Diesel	Model	Stock Number*	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
	Big Blue 400 CC	(#907 173) Deutz (#907 175) Perkins	DC Stick/TIG	55–500 A	400 A at 36 V (14.4 kW), 100% Duty Cycle	Peak: 5500 watts, Continuous: 4000 watts Additional Generator Power for Deluxe Model (While NOT Welding) 3-Phase: 15,000 watts or 1-Phase: 12,000 watts	H: 43 in. (1092 mm) W: 28.5 in. (724 mm) D: 65.125 in. (1654 mm)	Deutz 1655 lb. (751 kg) Perkins 1545 lb. (701 kg)
	Big Blue 400 CC/CV Deluxe Model	(#907 327)** Deutz (#907 329)** Perkins	DC Stick/TIG/MIG/FCAW	15–500 A 14–40 V				Deutz 1695 lb. (769 kg)
	Big Blue 500 CC	(#907 181) Deutz	DC Stick/TIG	55–600 A	500 A at 40 V (20 kW), 100% Duty Cycle	Peak: 5500 watts, Continuous: 4000 watts Additional Generator Power for Deluxe Model (While NOT Welding) 3-Phase: 20,000 watts or 1-Phase: 12,000 watts		
	Big Blue 500 CC/CV Deluxe Model	(#907 331)** Deutz	DC Stick/TIG/MIG/FCAW	20–600 A 14–40 V				

Big Blue® 400 Eco Pro See Literature No. ED/5.3

Rugged, compact, fuel-efficient diesel welder/generator that is Eco-friendly and Eco-nomical.



See pages 42 and 43 for wireless remote controls.
Wireless Antenna Kit (#300 749) recommended.

- Superior arc and efficient operation in a compact package**
- Saves fuel – designed to be up to 25 percent more efficient than competitive models
 - Runs quieter – in economy mode, 71.5 dB at 23 feet (7 m) is quieter than most competitive models
 - Easier to transport – up to 44 percent smaller and 41 percent lighter than other models
 - Compact design fits sideways in a standard pickup
 - Exceptional arc control in Stick, TIG or MIG process

- Dual-speed technology**
- High engine power is available when needed for high amp applications up to 500 amps
 - Low-speed operation (1850 RPM) provides power for all welding applications up to 350 amps, keeping the engine quiet and more fuel efficient. Provides optimal performance in a small package
- Ultimate reliability**
- Proven solid-state control technology is fully enclosed, protected and sealed by the Vault
 - The Vault's sealed connections make these components impenetrable to dust and moisture

Heavy Industrial ● **CC** **CV** **DC**

- Processes**
- Stick (SMAW) • MIG (GMAW)
 - Flux-Cored (FCAW) • TIG (GTAW)
 - Air Carbon Arc Cutting and Gouging (CAC-A) (5/16-in. carbons)
- Diesel Engine**
EPA Tier 4i Compliant!
Mitsubishi S4L2: 35 HP at 3000 RPM
Four-cylinder, industrial, liquid-cooled
Note: Engine is warranted separately by engine manufacturer.
- Most Popular Accessories**
- SuitCase® X-TREME™ 8VS/12VS (pg 23)
 - Wireless Remote Hand Control/Wireless Antenna Kit
#300 430 / #300 749 (pg 43)
 - Spectrum® 375 X-TREME™ / 625 X-TREME™ (pg 71)
 - Protective Cover #195 301 (pg 82)
 - HWY-224 Trailer #043 805 (pg 84)
 - PRHC-14 Remote #195 511 (pg 86)
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Diesel	Stock Number	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight	
	(#907 426) Mitsubishi (#907 426-001) Mitsubishi with Weld Meters and 120 V Block Heater	CC/DC	Stick/TIG		20–450 A	300 A at 32 V, 100% Duty Cycle 450 A at 30 V, 40% Duty Cycle	Peak: 5500 watts, Continuous: 4000 watts	H: 32 in. (813 mm) W: 26.25 in. (667 mm) D: 56 in. (1422 mm)	1095 lb. (497 kg)
			CAC-A		40–500 A	400 A at 36 V, 100% Duty Cycle 500 A at 30 V, 40% Duty Cycle			
	CV/DC	MIG/FCAW		14–40 V	300 A at 28 V, 100% Duty Cycle 450 A at 30 V, 40% Duty Cycle				

NEW! Big Blue® 450 Duo CST™

See Literature No. ED/5.5

Durable dual-operator welder/generator, delivers proven CST 280 Stick/TIG performance maximizing productivity and efficiency. Two separate outputs powered by one low-speed diesel engine delivers 280 amps of output per operator. Fuel efficient and quiet operation makes it ideal for any jobsite.



Two superior arcs in one compact package.

Save fuel, reduce maintenance costs and increase productivity.

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

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

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

Quiet operation. At just 72.2 dB at 23 feet (7 m) it's quieter than most single-operator models, improving jobsite communication and safety.

Low-speed Mitsubishi diesel engine.



See pages 42 and 43 for wireless remote controls. Wireless Antenna Kit (#300 749) recommended.

Heavy Industrial ● CC DC

Processes

- Stick (SMAW) • TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/16-in. carbons, capable 1/4-in. carbons)

Diesel Engine

EPA Tier 4i Compliant!

Mitsubishi S4L2: 24.4 HP at 1850 RPM

Four-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ 8VS/12VS (pg 23)
- Wireless Remote Hand Control / Wireless Antenna Kit #300 430 / #300 749 (pg 43)
- Spectrum® 875 (pg 71)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Single-Phase Full KVA Plug Kit #119 172 (pg 82)
- Protective Cover #195 301 (pg 82)
- HWY-224 Trailer #043 805 (pg 84)

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

Diesel	Stock Number (#907 477) Mitsubishi	Welding Mode/Process	Output Mode	Amperage Range	Rated Output at 122° F (50° C)	Single-Phase Generator Power at 122° F (50° C)	Dimensions	Net Weight
		CC/DC (Stick/TIG)	Separate (Dual Outputs)	5–280 A	200 A at 28 VDC, 100% Duty Cycle	Peak: 12,000 watts, Continuous: 10,000 watts 120/240 VAC, 60 Hz	H: 32 in. (813 mm) W: 26.25 in. (667 mm) D: 56 in. (1422 mm)	1064 lb. (483 kg)
			Combined: (Paralleled)	10–450 A	400 A at 28 VDC, 100% Duty Cycle			

NEW! Big Blue® 700 Duo Pro

See Literature No. 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.



Two independent pipe quality arcs in one compact package.

Two independent generators provide up to 32,000 watts of power.

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

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

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

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

Big Blue® 350 PipePro® System compatible.

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.



See pages 42 and 43 for wireless remote controls. Wireless Antenna Kit (#300 749) recommended.

Heavy Industrial ● CC CV DC

Processes

- Stick (SMAW) • MIG (GMAW)
- Flux-Cored (FCAW) • TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/8-in. carbons)

Diesel Engine

EPA Tier 4i Compliant!

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

- SuitCase® X-TREME™ 8VS/12VS (pg 23)
- Wireless Remote Hand Control / Wireless Antenna Kit #300 430 / #300 749 (pg 43)
- Spectrum® 875 (pg 71)
- Adapter Cord, Full KVA #300 517 (pg 82)
- Full KVA Plug Kit (pg 82)
- Single-Phase #119 172
- Three-Phase #254 140
- Protective Cover #194 683 (pg 82)
- HWY-224 Trailer #043 805 (pg 84)

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

Diesel	Stock Number (#907 461) Deutz	Welding Mode/Process	Output Mode	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Generator Power at 104° F (40° C)	Dimensions	Net Weight
		CC/DC (Stick/TIG)	Separate (Dual Outputs)	20–400 A	300 A at 32 VDC, 100% Duty Cycle 400 A at 36 VDC, 40% Duty Cycle	Single-Phase: 5500 watts peak/ 4000 watts continuous	H: 43 in. (1092 mm) W: 28.5 in. (724 mm) D: 65.125 in. (1654 mm)	1729 lb. (784 kg)
			Combined: (Paralleled)	40–800 A	500 A at 40 VDC, 100% Duty Cycle 700 A at 28 VDC, 60% Duty Cycle	Additional Generator Power Three-Phase: 27,000 watts peak/ 20,000 watts continuous or Single-Phase: 19,000 watts peak/ 12,000 watts continuous		
			Separate (Dual Outputs)	14–40 V	300 A at 29 VDC, 100% Duty Cycle 400 A at 34 VDC, 40% Duty Cycle			
			Combined: (Paralleled)	14–40 V	500 A at 39 VDC, 100% Duty Cycle 700 A at 28 VDC, 60% Duty Cycle			



Big Blue® Air Pak™ See Literature No. ED/10.5

Designed for heavy construction or maintenance and repair contractors, this all-in-one multiprocess welder/generator/compressor and optional AC weld/battery charge/jump-start package sets the standard for power and performance.



Deluxe model shown without the Vandalism Lockout Kit.

Meter maintenance displays

- Fuel gauge
- Hour meter function
- Oil change interval
- High coolant temperature, low oil pressure and low fuel shutdowns

Ingersoll-Rand ultra-reliable industrial rotary screw air compressor. Belt-driven with automatic belt tensioner.

Independent compressor controls include an on/off switch for applications not requiring compressed air.

Turbocharged engine provides superior performance in high altitudes.

Quiet. Only 70 dB (95 Lwa) at idle and 79 dB (104 Lwa) at maximum output.

Hot Start™ makes it easy to start all types of Stick electrodes.

Arc-Drive™ enhances Stick welding, especially on pipe, by focusing arc and preventing electrode from going out.

Optional battery charge / jump start for 12 and 24 volt batteries.

Note: Option includes AC weld.

CSA, IEC and NEMA compliant.

Heavy Industrial

Processes

- AC¹/DC Stick (SMAW)
- MIG (GMAW)
- Flux-Cored (FCAW)
- AC²/DC TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 1/2-in. carbons)
- Stud
- Battery Charger/Jump Start¹

¹Deluxe model only.

²Deluxe model with HF-251, or all models with Dynasty® 200 Series.

Diesel Engine

EPA Tier 4i Compliant!

Deutz TD2011L04:

63.4 HP at 1850 RPM
Turbocharged, four-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

• Desiccant

Air Dry System

#195 117



Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates.

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

* Comes complete with Engine Gauges, Auto Idle and 12 Volt Intake Manifold Heater.

** Cold Weather Model — Comes complete with Engine Gauges, Auto Idle, Weld Meters, Battery Lockout/Tagout Disconnect Switch, 12 Volt Intake Manifold Heater and 120 Volt Oil Pan Heater.

*** Deluxe Model — Comes complete with Engine Gauges, Auto Idle, Weld Meters, Battery Lockout/Tagout Disconnect Switch, 12 Volt Intake Manifold Heater, 120 Volt Oil Pan Heater, Vandalism Lockout Kit, AC/DC/Battery Charge/Jump-Start Switch and Optional Generator Power.

Diesel	Stock Number (#907 062)* Deutz (#907 062-04-1)** Deutz, Cold Weather Model (#907 062-07-1)*** Deutz, Deluxe Model		Welding Mode	Amp/Volt Ranges	Weld Output Rated at 104° F (40° C) NEMA Amperage and Voltage	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
			CC/DC	20-750 A	600 A at 44 V (26.4 kW), 40% Duty Cycle 550 A at 42 V (23.1 kW), 60% Duty Cycle 500 A at 40 V (20 kW), 100% Duty Cycle	Peak: 5500 watts Continuous: 4000 watts Additional Generator Power for Deluxe Model (While NOT Welding) Three-Phase: 20,000 watts or Single-Phase: 12,000 watts	H: 43 in. (1092 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1765 mm)	Base and Cold Weather Models 1931 lb. (876 kg) Deluxe Model 1956 lb. (887 kg)
			CV/DC	14-40 V	500 A at 40 V (20 kW), 100% Duty Cycle			
			CC/AC (Deluxe Model Only)	20-575 A	400 A at 36 V (14.4 kW), 100% Duty Cycle			
			Battery Charge / Jump Start (Deluxe Model Only)	12/24 V	750 A, 12 V, Jump-Start 750 A, 24 V, Jump-Start			
Air Compressor	Features	Free Air Delivery at 1850 RPM	Free Air Delivery at 1235 RPM (Idle)	Working Pressure Constant	Duty Cycle	Oil Capacity	Automatic Compressor Shutdowns	
Ingersoll-Rand CE55 G1	Rotary screw with electric clutch for on/off. Oil change intervals 500 hours (same as engine). Life expectancy 30,000 hours.	60 CFM (1.70 m ³ /min.)	40 CFM (1.13 m ³ /min.)	100 PSIG 7 bar	100%	5 qt. (4.7 L)	Oil Temperature	

Big Blue® Turbo See Literature No. ED/10.3

Similar to the Big Blue Air Pak, but without the air compressor.



Meter maintenance displays

- Fuel gauge
- Hour meter function
- Oil change interval
- High coolant temperature, low oil pressure and low fuel shutdowns

Turbocharged engine provides superior performance in high altitudes.

Highest output rating available on an engine-driven welder: 20 to 750 amp range, 600 amps at 100 percent duty cycle!

Quiet. Only 70 dB (95 Lwa) at idle and 79 dB (104 Lwa) at maximum output.

Hot Start™ makes it easy to start all types of Stick electrodes.

Arc-Drive™ enhances Stick welding, especially on pipe, by focusing arc and preventing electrode from going out.

5500-watt peak AC power independent of weld settings means no interaction between tools and the welding arc.

CSA, IEC and NEMA compliant.

Heavy Industrial

Processes

- Stick (SMAW)
- MIG (GMAW)
- Flux-Cored (FCAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 1/2-in. carbons, capable 5/8-in. carbons)
- Stud

Diesel Engine

EPA Tier 4i Compliant!

Deutz TD2011L04:


63.4 HP at 1850 RPM
Turbocharged, four-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

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


Diesel	Stock Number (#907 157) Deutz	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104° F (40° C)	Single-Phase Generator Power at 104° F (40° C)	Dimensions	Net Weight
			CC/DC	Stick/TIG	20-750 A	600 A at 44 V (26.4 kW), 100% Duty Cycle	Peak: 5500 watts Continuous: 4000 watts	H: 43 in. (1092 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1765 mm)
		CV/DC	MIG/FCAW	14-40 V				


SPOT WELDERS

 Standard Tip

 Flat Tip

 Offset Tip

 Standard Tong

 Optional Tong



MillerWelds.com/SpotWelders

Tongs and Tips. Miller offers a wide variety of both symmetrical and asymmetrical tong and tip configurations. Maximum capabilities of spot welders are obtained with minimum tong lengths. Tips are made of durable Class 2, long-wearing copper alloy.

See Literature No. SW/1.0 and SW/3.1 for full range of tongs and tips.

Air-Cooled Spot Welders See Literature No. SW/1.0

MSW and LMSW Series lightweight, air-cooled units are portable, easy to operate, and provide a quick and effective means for spot welding mild, galvanized or stainless materials.



“T” models include timer panel

with a 0 to 5 second weld timer and power on/off switch. Timer panel can be mounted on the optional SWP-2 pedestal or any other convenient location. Includes 10-foot (3 m) input power and interconnecting cords.

Hand lever locks tongs firmly on material, ensuring positive, accurate fit-up.

Accommodates a wide variety of tongs and tips.

Quick and easy adjustment for material thickness.

Reversible for left- or right-hand operation.

**Tongs and tips must be ordered separately – see Lit No. SW/1.0 for full range of tongs and tips.*

1 Phase

Process

- Resistance Spot Welding

Note: Not recommended for welding aluminum, copper or copper alloys.

Most Popular Accessories

- Gyro Bail** #041 979
Supports weight of welder. Operates with boom and counterweight or from spring-loaded cable. Spot welds in any position.
- Spot Welder Pedestal #040 872

Note: Tongs/tips must be ordered separately. One standard set of tips is supplied with each set of tongs; see diagram above.

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

Model/Stock Number*	Input 50/60 Hz	Work Capacity (Combined thickness uncoated mild steel using 6-in. [152 mm] tongs)	Rated Output	Rated Output (Calibrated with standard-type tongs)			Max Open-Circuit Voltage	Dimensions	Net Weight
				6 in. (152 mm)	12 in. (305 mm)	18 in. (457 mm)			
MSW-41 (#900 371) MSW-41T (#901 345) w/Timer	110 VAC 30 A	1/8 in. (3.2 mm) or two pieces of 20-ga. (1.8 mm) galvanized steel	1.5 kVA at 50% Duty Cycle	5550 A	4500 A	3600 A	1.6	H: 6 in. (152 mm) W: 3.75 in. (95 mm) D: 13 in. (330 mm)	22 lb. (10 kg) 34 lb. (15 kg) w/Timer
LMSW-52 (#900 377) LMSW-52T (#901 357) w/Timer	220 VAC 30 A	3/16 in. (4.7 mm) or two pieces of 16-ga. (3.0 mm) galvanized steel	2.5 kVA at 50% Duty Cycle	6750 A	5800 A	4850 A	2.5	H: 6 in. (152 mm) W: 3.75 in. (95 mm) D: 16 in. (406 mm)	30 lb. (14 kg) 42 lb. (19 kg) w/Timer

Water-Cooled Spot Welders See Literature No. SW/3.1

SSW Series of water-cooled resistance spot welders offer the power needed for light fabrication and sheet metal work.



Built-in squeeze/weld timer makes it quick and easy to set or adjust squeeze and/or weld time in hundredths of a second.

Set-up/weld switch permits checking of tong pressure and alignment without making a weld.

LED display makes it easy to read and see timer settings.

Ten-step current control adjusts output current with no change in duty cycle.

Adjustable tong pressure nuts to adjust tong pressure for different thicknesses and applications.

**Coolant system required to operate—order separately.
Tongs and tips must be ordered separately—see Lit. No. SW/3.1 for full range of tongs and tips.*

1 Phase

Process

- Resistance Spot Welding

Note: Not recommended for welding aluminum, copper or copper alloys.

Comes Complete With

- Stationary welding head
- Remote foot switch
- 37.125-inch high, all-steel pedestal inclusive of controls and timer
- Air filter, regulator assembly

Note: Order tongs/tips separately to match your applications.

Most Popular Accessories

- Coolant Systems (pg 82)
Coolmate™ 3, 115 VAC #043 007
Coolmate™ 3, 230 VAC #043 008
Coolmate™ V3 #043 009
Coolmate™ 4 #042 288

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

Model/Stock Number*	Input 50/60 Hz	Work Capacity (Combined thickness uncoated mild steel using 6-in. [152 mm] tongs)	Rated Output	Rated Output (Calibrated with standard-type tongs)			Max Open-Circuit Voltage	Net Weight
				6 in. (152 mm)	12 in. (305 mm)	18 in. (457 mm)		
SSW-2020 ATT (#903 826)	230 VAC, 90 A	1/4 in. (6.3 mm)	20 kVA at 40% Duty Cycle	12,500 A	10,500 A	9000 A	3.55	185 lb. (84 kg)
SSW-2040 ATT (#903 827)	460 VAC, 45 A							

SUB ARC



Miller offers an array of versatile Sub Arc components, including controllers, wire feed systems, tractors, torches and power sources. Our DC and new AC/DC systems optimized for Submerged Arc welding (SAW) can also be used for Air Carbon Arc cutting and gouging with 1/2-inch carbons. To learn more, visit MillerWelds.com/SubArc



MillerWelds.com/SubArc

Subarc Series



Subarc DC 650 and
NEW! Subarc AC/DC 1000 shown.



DC Series — See Literature No. DC/19.8
AC/DC Series — See Literature No. AD/7.2

Subarc DC Series power sources are known for stable, consistent arc output with a variety of electrode sizes, electrode types, and fluxes in single-arc system configurations.

NEW! Subarc AC/DC 1000 power sources work in single-arc or multi-arc configurations: AC + DC or AC + AC combined welding output. They feature:

- **Practical, easy-to-use operator interface** allows polarity/balance to be set at the front control panel.
- **Enhanced arc stability** from built-in digital arc control increases throughput.
- **More precise parallel operation** for multi-arc configurations with optional Parallel Control (#194 711).
- **Interchangeable accessories** (HDC controls, RAD wire drives, tractors, etc.) are fully compatible with DC or AC/DC systems.

Heavy Industrial Subarc DC Series is DC only.

Processes

- Submerged Arc (SAW)
 - Air Carbon Arc Cutting and Gouging (CAC-A) (1/2-in. carbons)
 - Flux-Cored (FCAW)*
 - Stick (SMAW)*
- *Subarc DC Series only.

Most Popular Accessories

- Flux Hopper with Valve #194 775 (pg 86)
- Self-Propelled Tractor Pkgs (pg 87)
MT 1500 DX (Digital) #951 060
MT 1500 A (Analog) #951 061
- See additional Sub Arc Accessories on pages 86 and 87

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

Model	Stock Number	Amperage Range	Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz					Max. Open-Circuit Voltage	Dimensions (Includes lift eye and strain relief.)	Net Weight
					230 V	460 V	575 V	KVA	KW			
Subarc DC 650	(#907 338) 230/460/575 V	50–815 A in CC Mode	10–65 V in CV Mode	650 A at 44 VDC, 100% Duty Cycle	126	63	50.4	50	34.8	72 VDC	H: 27.25 in. (692 mm) W: 22.25 in. (565 mm) D: 36 in. (914 mm)	545 lb. (247 kg)
Subarc DC 1000	(#907 342) 230/460/575 V	100–1250 A in CC Mode	10–60 V in CV Mode	1000 A at 44 VDC, 100% Duty Cycle	180	90	72	73	53	66 VDC in CC Mode, 38 VDC in CV Mode	H: 44 in. (1118 mm) W: 27.25 in. (692 mm) D: 46 in. (1168 mm)	644 lb. (292 kg)
Subarc AC/DC 1000	(#907 454) 460 V	350–1250 A in CC Mode	25–44 V in CV Mode	1000 A at 44 VDC, 100% Duty Cycle	—	122	—	98	53	71 VDC		1225 lb. (540 kg)

Automatic Weld Control



HDC 1500 DX



HDC 1500 A

HDC 1500 DX #300 438 With Digital Meters
HDC 1500 A #300 439 With Analog Meters

Reliable and flexible Miller weld controls work with AC or DC CC/CV power sources that have remote contactor and output control capabilities. Internal power strips allow interfacing with non-Miller power supplies. Run-in control ensures smoother arc starting and bumback control helps prevent wire sticking on weld termination. Crater time, speed, and output rates can also be controlled with HDCs. See Literature No. DC/19.8 or AD/7.2 for more details.

Wire Drive Assemblies



RAD wire drive assemblies include an adapter plate for mounting to 2.5-inch, 4.25-inch, and 4.625-inch bolt-hole patterns.

RAD-400 shown.

RAD-400 #195 265 Standard-speed, 20–400 IPM (0.5–10 MPM), for 1/8-inch or larger wire
RAD-780 #195 266 High-speed, 20–780 IPM (0.5–19.8 MPM), for 1/8-inch or larger wire
SAW4 #300 481 Standard-speed, 20–400 IPM (0.5–10 MPM), for smaller than 1/8-inch wire

Miller wire drive assemblies operate using 115-volt power and are available for a wide range of wire diameters. Right angle wire drives (RAD) are designed for larger diameter wires while the SAW4 is optimized for smaller diameters. Recommended drive rolls can be found on page 86.

Sub Arc Torches



OBT 600



OBT 1200

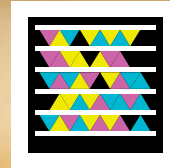
OBT 600 #043 923 600-amp, 100% duty cycle torch, for 1/16–7/32-inch (1.6–5.6 mm) wire
OBT 1200 #043 900 1200-amp, 100% duty cycle torch, for 1/16–7/32-inch (1.6–5.6 mm) wire

Miller offers a choice of torches for Submerged Arc welding: OBT 600 (600 amp maximum output) and OBT 1200 (1200 amp maximum output). Both feature a concentric flux flow nozzle and have optional body extensions available. OBT 1200 also has a replaceable breakaway adapter end to prevent costly damage should the torch run into an obstruction. Torch body extensions and contact tips can be found on page 87.

PLASMA CUTTERS



MillerWelds.com/PlasmaCutters



Scan this tag to see videos on new XT torch and Spectrum plasma cutters.

Product Guide

	Page	Class	Gouging	Piercing	Rated Output/ Duty Cycle	Rated Cutting Thicknesses*			Special Features	Typical Applications
						Mild Steel	Stainless Steel	Aluminum		
1-Phase	Spectrum® 125C	69	●	○	12 A at 35%	1/8 in.	1/8 in.	1/16 in.	Built-in air compressor	HVAC, hobbyist, auto body, plumbing
	Spectrum® 375	69	●	●	27 A at 35%	3/8 in.	3/8 in.	1/4 in.	115/230 V dual input voltage, new XT30C torch	Hobbyist, auto restoration, fabrication
	Spectrum® 375 X-TREME™	70	●	●	30 A at 35%	3/8 in.	3/8 in.	1/4 in.	Auto-Line™: 115-230 V, MVP™ plugs, only 19 lb., Auto-Refire™, new XT30 torch	HVAC, maintenance, construction
	Spectrum® 625 X-TREME™	70	●	●	40 A at 50%	5/8 in.	1/2 in.	3/8 in.	Auto-Line™: 115-230 V, MVP™ adapters, only 21 lb., Auto-Refire™ automatic air regulation, new XT40 torch	Maintenance, light construction, body shops, prototyping
	Spectrum® 875	71	●	●	60 A at 50%	7/8 in.	7/8 in.	5/8 in.	Auto-Refire™ automatic air regulation, only 52 lb.	Construction, maintenance/repair, fabrication
1 & 3-Ph	Spectrum® 875 Auto-Line™	71	●	●	208: 60 A at 40% 230-380 V: 60 A at 50% 380-575 V: 60 A at 60%	7/8 in.	7/8 in.	5/8 in.	Auto-Line™: 208-575 V, Auto-Refire™ automatic air regulation	Construction, maintenance/repair, fabrication

Cutting w/Engine Drives	Engine-Driven Welders	Generator Power	Spectrum 375 X-TREME		Spectrum 625 X-TREME		Spectrum 875 / 875 Auto-Line	
			Steel Cut	Output Amp Setting**	Steel Cut	Output Amp Setting**	Steel Cut	Output Amp Setting**
	Wildcat® 200	6.5 kW	3/8 in.	30 A	3/8 in.	30 A	Not Recommended	Not Recommended
	Bobcat™ Trailblazer®	11 kW	3/8 in.	30 A	5/8 in.	40 A	1/2 in.	45 A
	Big Blue® 300 Pro Big Blue® 350 PipePro®	12 kW	3/8 in.	30 A	5/8 in.	40 A	5/8 in.	50 A
	Big Blue® 500 CC/CV	20 kW (optional)	3/8 in.	30 A	5/8 in.	40 A	7/8 in.	60 A

***Note on cut capacity ratings:** The Spectrum Series rating system is designed to provide a guide to help our customers choose the right machine for their application. Rated cut capacity is based on traveling approximately 15 inches per minute to achieve a steady, precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Sever cut is the maximum cut achieved in ideal conditions. Some factors that dictate actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For aluminum and other metals with high thermal conductivity, cutting capacities may be derated as much as 30 percent.

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. *See note on cut capacity ratings above. **240 V, full KVA plug. Derate cut capacity with less generator power.
 For more detailed information, see individual specification sheets.




Spectrum® Series



Miller Industrial-Grade Technologies/Features

Each Spectrum model features these technologies (except as noted).

- Power Factor Correction (PFC) (not available on 125C model).** Uses less energy by utilizing input power more efficiently and increases productivity by reducing nuisance circuit breaker trips.
- Miller engine drive generator compatibility.**
- Industrial, heavy-duty work clamp (not available on 125C model).**
- 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.
- Built-in gas/air filter and regulator (not available on 125C model).** Provides air filtration of airborne particles five microns and larger. Additional filtration and water separation recommended.



These technologies provide reliability and performance others can't match...

See why at MillerWelds.com/reliable

LVC™ line voltage compensation provides peak performance power under variable input voltage conditions for clean, steady cuts.

Wind Tunnel Technology™ (not available on 125C model) 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.

Spectrum® 125C

See Literature No. PC/13.0



Mild Steel Cutting Capability

12 ga. (2.7 mm) at 35 IPM
Rated
1/8 in. (3.2 mm) at 10 IPM



Includes Industrial-Grade Technologies/Features (see above)

- Built-in, heavy-duty industrial piston-driven compressor** provides long life and superior airflow.
- Constant-current design offers **consistent 12-amp cutting arc** for continuous quality cutting up to 3/16-inch steel.
- Auto-Retire™ technology** provides ultimate customer convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.
- 35 percent duty cycle** is tested at 104 degrees Fahrenheit (40° C) to give you the cutting power whenever you need it.

Stock Number (#907 149) 120 V, 60 Hz	Rated Output at 104° F (40° C) 12 A at 110 VDC, 35% Duty Cycle	Amps Input at Rated Output, 60 Hz			Dimensions H: 13.5 in. (343 mm) W: 8.5 in. (216 mm) D: 16 in. (406 mm)	Net Weight with Torch 31 lb. (14 kg)
		120 V	KVA	KW		

Light Industrial ● DC 1 Phase

Process - Air Plasma Cutting

- 125C Model Comes Complete With**
 - ICE-12C hand-held torch with 20-ft. (6.1 m) cable
 - Work clamp with 20-ft. (6.1 m) cable
 - 10-ft. (3 m) power cord
 - Extra consumables (two electrodes and two tips)
- 375 Model Comes Complete With**
 - NEW! XT30C hand-held torch with 20-ft. (6.1 m) cable
 - Heavy-duty work clamp with 20-ft. (6.1 m) cable
 - 10-ft. (3 m) power cord with 115 VAC, 20 A plug
 - Extra consumables (three electrodes, three tips and one air fitting)
 - Built-in gas/air filter and regulator

Most Popular Accessories (pg 85)

- Protective Cover** #195 144 
- Circle Cutting Guide** #253 055 
- Standoff Roller Guide** #253 054 
- MIG Gloves** (pg 79) 

Spectrum® 375

See Literature No. PC/9.1



Mild Steel Cutting Capability

1/4 in. (6.4 mm) at 27 IPM
Rated
3/8 in. (9.5 mm) at 14 IPM
Maximum Sever cut of 5/8 in. (15.9 mm)



NEW XT30C Torch with Ergonomic Design and Flexible Cable!



Includes Industrial-Grade Technologies/Features (see above)

- Dual input voltage** allows either 115 or 230 VAC input power and provides patented protection in case of incorrect switch position. The unit comes with a 115 V, 20 A plug.
- Electronic pilot arc controller** automatically controls the pilot circuit to provide expanded metal cutting capability without having to re-trigger the torch, increasing productivity and extending tip life.
- Pressure gauge and pressure knob** for manual adjustment of pressure to the torch.

*Recommended 30 A branch circuit for maximum performance.

Stock Number (#907 532) 115/230 V, 60 Hz	Rated Output at 104° F (40° C) 15-27 A at 90 VDC, 35% Duty Cycle	Amps Input at Rated Output, 60 Hz				Compressor Requirement 4.5 CFM (128 L/min.) at 90 PSI (621 kPa)	Dimensions H: 13.5 in. (343 mm) W: 8.5 in. (216 mm) D: 16 in. (406 mm)	Net Weight with Torch 55 lb. (25 kg)
		115 V	230 V	KVA	KW			

- No. 30B Economy Cart with Cord Wrap #300 511
- In-Line Air Filter Kit #228 926 (375 model only)

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

Spectrum® 375 X-TREME™

See Literature No. PC/9.2

Improved!

Enhanced Features and NEW XT30 Torch with Ergonomic Design and Flexible Cable!



Mild Steel Cutting Capability

Input	Rated
1/4 in. (6.4 mm) at 36 IPM	3/8 in. (9.5 mm) at 18 IPM
Maximum Sever cut of 5/8 in. (15.9 mm) cutting at 30 amps (120 V, 30 A service with 5-20P MVP or 240 V 6-50P MVP).	

Includes Industrial-Grade Technologies/Features (see page 69)



Allows for any input voltage hook-up (120–240 VAC, single-phase, 50/60 Hz) with no manual linking, providing convenience in any job setting.

Multi-voltage plug (MVP™) allows connection to 120 or 240 V receptacles without tools—choose the plug that fits the receptacle and connect it to the power cord.

NEW! Auto-Retire™ provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

X-CASE™ provides the ultimate protection during transport and storage. Additional space is ideal for MVP plugs, consumables box, gloves, etc.

Stock Number	Input Power	Rated Output at 104° F (40° C)	Amps Input at Rated Output, 50/60 Hz	KVA	KW	Compressor Requirement	Dimensions	Net Weight with Torch
#907 529 120–240 VAC, 50/60 Hz	120 V (15 A)	20 A at 88 VDC, 35% Duty Cycle	18.1	2.2	2.1	5.0 CFM (142 L/min.) at 90 PSI (621 kPa)	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	19 lb. (8.6 kg)
	120 V (20 A)	27 A at 92 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			

Spectrum® 625 X-TREME™

See Literature No. PC/9.6

Improved!

Enhanced Features and NEW XT40 Torch with Ergonomic Design and Flexible Cable!



Mild Steel Cutting Capability

Input	Rated
1/4 in. (6.4 mm) at 64 IPM	5/8 in. (15.9 mm) at 13 IPM
Maximum Sever cut of 7/8 in. (22.2 mm) cutting at 40 amps (240 V service).	

Includes Industrial-Grade Technologies/Features (see page 69)



Allows for any input voltage hook-up (120–240 VAC, single-phase, 60 Hz) with no manual linking, providing convenience in any job setting.

NEW! MVP™ Adapters allow connection to 120 or 240 V receptacles without tools—choose the adapter cord with the right plug that fits the receptacle and connect it to the power cord with the L6-30R twist lock.

Automatic consumable detection detects consumable type installed and adjusts gas pressure to optimize cutting performance, eliminating the need for a manual regulator.

Auto-Retire™ provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

X-CASE™ provides the ultimate protection during transport and storage. Additional space is ideal for MVP plugs, consumables box, gloves, etc.

Stock Number	Input Power	Rated Output at 104° F (40° C)	Amps Input at Rated Output, 60 Hz	KVA	KW	Compressor Requirement	Dimensions	Net Weight with Torch
#907 531 120–240 VAC, 60 Hz, with 12-ft. (3.7 m) Torch #907 531-00-1 120–240 VAC, 60 Hz, with 20-ft. (6.1 m) Torch	120 V (15 A)	20 A at 88 VDC, 35% Duty Cycle	18	2.2	2.1	6.0 CFM (170 L/min.) at 90 PSI (621 kPa)	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	12-ft. Torch 21 lb. (9.5 kg)
	120 V (20 A)	27 A at 91 VDC, 20% Duty Cycle	26	3.0	2.9			20-ft. Torch 23 lb. (10.5 kg)
	240 V	40 A at 140 VDC, 50% Duty Cycle	27	6.4	6.3			

Light Industrial ● DC 1 Phase

Processes

- Air Plasma Cutting
- Air Plasma Gouging with 625 model

375 X-TREME Model Comes Complete With

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

625 X-TREME Model Comes Complete With

- **NEW!** XT40 hand-held torch with 12-ft. (3.7 m) or 20-ft. (6.1 m) cable
- Heavy-duty work clamp with 12-ft. (3.7 m) or 20-ft. (6.1 m) cable
- 12-ft. (3.7 m) power cord with 240 V, L6-30P twist lock plug
- **NEW!** MVP™ Adapters with 240 V, 50 A (6-50P) plug and 120 V, 15 A (5-15P) plug
- 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
- Built-in gas/air filter and regulator

Most Popular Accessories (pg 85)

- **Circle Cutting Guide**
#253 055



- **In-Line Air Filter Kit**
#228 926



- **Standoff Roller Guide**
#253 054



- **Plasma Torch Consumable Kits**
For XT30 #253 520
For XT40 #253 521

- **MIG Gloves**
(pg 79)



- X-CASE™ #300 184
 - MVP™ Plugs (375 model only)
 - MVP™ Adapters (625 model only)
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.



Spectrum® 875 and 875 Auto-Line™

See Literature No. PC/9.8



Mild Steel Cutting Capability



1/2 in. (12.7 mm) at 34 IPM



Rated

7/8 in. (22.2 mm) at 11 IPM

Maximum Sever cut of 1-1/4 in. (32 mm)

Spectrum 875 model shown.

Auto-Line model offers hand-held torch packages, and machine-held torch packages for CNC/robotic applications.

Includes Industrial-Grade Technologies/Features (see page 69)



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.

Auto postflow calculates the length of postflow time based on the amount of cutting time to optimize consumable life and eliminate excessive air usage.

Auto-Retire™ provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

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

Ultra-Quick Connect™ torch and work cable offers the fastest plasma torch and work cable connection and removal in the industry.



Industrial DC **1** **3** Phase Phase

Spectrum 875 is 1-phase only.

Processes

- Air Plasma Cutting and Gouging

Comes Complete With

- ICE-60T hand-held torch with 20-ft. (6 m) or 50-ft. (15.2 m) cable;
- or ICE-60TM machine-held torch (Auto-Line model only) with 25-ft. (7.6 m) or 50-ft. (15.2 m) cable
- Heavy-duty work clamp with 20-ft. (6 m) or 50-ft. (15.2 m) cable
- 10-ft. (3 m) power cord
- Built-in gas/air filter and regulator
- Extra consumables

Most Popular Accessories (pg 85)

- **Protective Cover** #300 388



- **No. 30B Economy Cart with Cord Wrap** #300 511



- **RTI Filter and Bracket** #300 491



- **Adapter Cord** #300 517



- **Cable Covers**
20 ft. #239 642
25 ft. #231 867
50 ft. #231 868



- Circle Cutting Guide #253 055
- MIG Gloves (pg 79)

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

Model	Stock Number	Input	Rated Output at 104° F (40° C)	Amps Input at Rated Output, 50/60 Hz	Compressor Requirement	Dimensions	Net Weight with Torch
Spectrum 875	(#907 390-01-1) 208/230 VAC with 20-ft. (6.1 m) Torch (#907 390-01-2) 208/230 VAC with 50-ft. (15.2 m) Torch	1-Phase	60 A at 140 VDC Duty Cycle: 208 V: 40% 230 V: 50%	208 V 47 KVA 9.9 230 V 42 KW 9.8	6.75 CFM (191 L/min.) at 90 PSI (621 kPa)	H: 13.5 in. (343 mm) W: 8.75 in. (222 mm) D: 18.5 in. (470 mm)	20 ft. 51 lb. (23 kg) 50 ft. 62 lb. (28 kg)
			60 A at 140 VDC Duty Cycle: 208 V: 40% 230 V: 50%	208 V 28 KVA 9.9 230 V 25 KW 9.4 380 V 15 460 V 12 575 V 10			
Spectrum 875 Auto-Line	(#907 396) 208 - 575 VAC with 20-ft. (6.1 m) Torch (#907 396-00-1) 208 - 575 VAC with 50-ft. (15.2 m) Torch (#907 396-00-2) 208 - 575 VAC with 25-ft. (7.6 m) Machine Torch (#907 396-00-3) 208 - 575 VAC with 50-ft. (15.2 m) Machine Torch	3-Phase	60 A at 140 VDC Duty Cycle: 208 V: 40% 230 - 380 V: 50% 380 - 575 V: 60% 380 - 575 V: 100% at 50 A	208 V 28 KVA 9.9 230 V 25 KW 9.4 380 V 15 460 V 12 575 V 10	6.75 CFM (191 L/min.) at 90 PSI (621 kPa)	H: 13.5 in. (343 mm) W: 8.75 in. (222 mm) D: 18.5 in. (470 mm)	20 ft. 56 lb. (25 kg) 25 ft. 59 lb. (27 kg) 50 ft. 67 lb. (30 kg)*
		1-Phase	60 A at 140 VDC Duty Cycle: 208 V: 40% 230 V: 50% 230 V: 100% at 50 A	208 V 47 KVA 9.9 230 V 42 KW 9.7			

MillerWeldsStore.com

Buy Miller Gear online.
Shirts, hats, mugs
and more!



MORE on the WEB



WORKSTATIONS



MillerWelds.com/ArcStation

ArcStation™

The only workbench designed for welders.

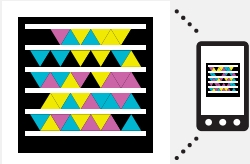
Count on Miller to design the perfect workbench to make welding projects faster and easier. The Miller® ArcStation is the first-ever, all-in-one workstation designed for welding and metalworking. It's versatile and affordable.

ArcStation makes welding and metalworking easier!

No more welding on the floor or makeshift benches! ArcStation is just the right height to work comfortably. It's properly engineered for the welding process, with smart features designed for safety and convenience. You can organize equipment, tools, and raw materials into one convenient workspace. And you can also customize your workbench with a wide range of handy accessories.

Now available in two series! The original S-Series and portable F-Series.

Reference the chart below to find out which ArcStation is right for you!



Scan this tag to see videos on ArcStation workbenches.

Choose the Right ArcStation

	F-Series	S-Series
Application	Portable, folding workbench ideal for bringing to the jobsite and saving space	Heavy-duty, sturdy workbench designed to remain set up in a shop or garage
Available Sizes	30 x 30 in.	30 x 30 in. or 30 x 60 in.
Tabletop Style	3/16-in. X-pattern	3/16-in. solid or 3/8-in. X-pattern
Load Capacity	500 lb. (227 kg)	1000 lb. (454 kg)
Portability	Yes, 74 lb., wheels standard	No
Accessories Available	5-in. X-clamps	See accessories on page 73



S-Series ArcStation™

The S-Series is perfect for the welder who needs a tough workbench for the fab shop or the home garage.



Fully accessorized 60SX model (#951 413) shown. See below for base models.

Four S-Series models available, depending on your needs.

- 30S (30 x 30 inch with solid tabletop)
- 30SX (30 x 30 inch with X-pattern tabletop)
- 60S (30 x 60 inch with solid tabletop)
- 60SX (30 x 60 inch with X-pattern and solid tabletop combo)

SX model includes X-pattern tabletop for trouble-free clamping!

Durable 1/8-inch steel frame with cross bar and heavy-duty tabletops provide a sturdy area for welding or metalworking.

Lower shelf provides a convenient place to store equipment, tools and raw materials.

Adjustable leveling feet keep bench rock-steady.

Customize with a wide range of handy accessories to make this the *ultimate* workbench (see at right).

Most Popular Accessories

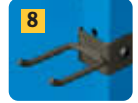
Miller ArcStation accessories allow you to get the most out of your ArcStation.

- 1** X-clamps
6-inch #300 613
5-inch #300 850 (not shown)
- 2** Side Shelf #300 680
- 3** Tool Chest with Ball-Bearing Slides #300 610
- 4** Interior Shelf #300 679
- 5** Quick-Remove Vise
5-inch Vise and Mount #300 611
Mount only #300 612
- 6** Weld Curtain
30S Series #300 685
60S Series #300 686
- 7** Casters #300 849



Convenience Kit #300 614 includes the following:

- 8** Gun Holder
- 9** Tool Holder
- 10** Clamp Bar



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

F-Series ArcStation™

When portability or space-savings is a concern, the F-Series ArcStation is your solution.

Shown with optional 5-inch X-clamps.



Wheels, handle, and fold-up design make unit easy to take to the jobsite or move around the shop.

Compact size makes storing unit a breeze. Unit folds down to 6 x 29 x 48 inches (152 x 737 x 1219 mm).

30 x 30 inch size tabletop provides plenty of work surface.

3/16-inch X-pattern steel tabletop allows trouble-free clamping.

1.5-inch diameter steel tube frame provides strength and durability.

Includes removable gun holder.

Add the optional 5-inch X-clamps (#300 850) to make this the *ultimate* portable workbench.



ArcStation Models

	 30FX (#300 837)	 30S (#951 167)	 30SX (#951 168)	 60S (#951 169)	 60SX (#951 170)
Steel Top	(1) 29 x 29 x 3/16-in. X-Pattern	(1) 29 x 29 x 3/16-in. Solid	(1) 29 x 29 x 3/8-in. X-Pattern	(2) 29 x 29 x 3/16-in. Solid	(1) 29 x 29 x 3/8-in. Solid (1) 29 x 29 x 3/8-in. X-Pattern
Load Capacity	500 lb. (227 kg)	1000 lb. (454 kg)	1000 lb. (454 kg)	1000 lb. (454 kg)	1000 lb. (454 kg)
Dimensions	35 x 29 x 35 in. (889 x 737 x 889 mm)	35 x 29 x 29 in. (889 x 737 x 737 mm)	35 x 29 x 29 in. (889 x 737 x 737 mm)	35 x 58 x 29 in. (889 x 1473 x 737 mm)	35 x 58 x 29 in. (889 x 1473 x 737 mm)
Weight	74 lb. (34 kg)	123 lb. (56 kg)	177 lb. (80 kg)	230 lb. (104 kg)	318 lb. (144 kg)



FUME EXTRACTION

Designed exclusively for welding applications.

MillerWelds.com/FumeExtraction



Choose the Right Fume Extractor

FILTAIR	130	400	MWX Series	SWX Series	Industrial Series
Application	Portable, high-vacuum unit ideal for MRO, contractors and intermittent welding	Stationary, high-vacuum unit ideal for heavy manufacturing	Mobile systems designed for manufacturing and fabrication shops, schools and training facilities	Stationary systems designed to maximize floor space in manufacturing and fab shops, schools and training facilities	Centralized systems designed for heavy manufacturing
Source/Submicron Capture	Yes	Yes	Yes	Yes	Yes
Filter Type	Manually cleanable filter	Automatic online filter cleaning	MWX-S: Self-cleaning filter mechanism MWX-D: Disposable filter	SWX-S: Self-cleaning filter mechanism SWX-D: Disposable filter	Automatic online/offline filter cleaning
Filter Media Area	16 ft ² (1.49 m ²)	108 ft ² (10 m ²)	490 ft ² (45.52 m ²)	490 ft ² (45.52 m ²)	280-1680 ft ² (26-156 m ²)
CFM (Airflow)	132	400	875	875	960-13,440
Accessories	Three optional magnetic nozzles and a fume gun	Three optional magnetic nozzles, fume gun and a start/stop sensor	One arc sensor/light kit	One arc sensor/light kit	Arms, hoods and ducting

FILTAIR® 130 and 400

See Literature No. AY/3.1 and AY/3.3

Portable (130 model) and stationary (400 model) high-vacuum weld fume extractors designed for use with fume guns to collect weld fume particles at the source.



FILTAIR 130
(includes 8-ft. collection hose)

NEW! FILTAIR 400
(collection hoses not included, order separately)

FILTAIR 130 Features

Highest performing filter in the industry will last longer and capture the smallest submicron (<1 micron) particles. Our filter is manually cleanable and the unit features a fume collection tray to minimize maintenance.

Less noise. One of the quietest portable systems in the industry at 68.5 dBA at five feet.

Portable and compact unit has castor wheels and handle bar to increase portability, allowing operators to maneuver into small spaces or hard-to-reach areas. Includes 20-foot power cord and an 8-foot collection hose.

FILTAIR 400 Features

User Flexibility. With four-port access, the unit can remain centrally located while providing mobility of accessories ideally suited for use with fume gun.

Miller® MERV 16 TruLock™ filter technology ensures quality weld fume extraction. The surface-loading filter technology captures submicron particles, providing optimal cleaning and the highest weld fume filtration quality for the life of the filter.

Automated Filter Cleaning. The intelligent filter-control system generates automatic filter cleaning, saving overall cost.

Rigid Metal Housing. Designed for industrial use, the FILTAIR 400 will withstand the toughest environments while providing the highest level of weld fume extraction.

Processes

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

Comes With

- Filter
- 8-ft. collection hose (130 model only)

Most Popular Accessories

- Replacement Filters
- Disposable (130 model) #300 671
- Self-cleaning (400 model) #300 925



Collection Hose

- 17 ft. (5.2 m) #300 672
- 34 ft. (10.4 m) #300 673



Magnetic Nozzles

- 11.8 in. (300 mm) width #300 669
- 23.6 in. (600 mm) width #300 670



Flexible Funnel Magnetic Nozzle

- #300 668
 - Start/Stop Sensor (400 model only)
 - 20 ft. (6.1 m) #300 932
 - 35 ft. (10.7 m) #300 973
- Starts/stops extractor automatically when welding begins or ends. One required per inlet port being used.



NEW! Bernard® FILTAIR Extraction Gun Series

Ideally suited for almost any solid-wire welding application. Available in 400 and 600 A models. Contact Bernard at 1-800-946-2281 to order. When ordering gun, be sure to order Bernard gun adaptor.

Model/Stock Number	Filter Media	Nominal Airflow	Sound Level	Motor	Input Power	Dimensions	Net Weight
FILTAIR 130 (#300 595)	16 ft ² (1.49 m ²)	132 CFM (62 L/sec.)	68.5 dBA at 5 ft. (1.5 m)	1 HP	115 VAC/1-Phase/60 Hz at 11 A	H: 23 in. (584 mm) W: 12 in. (305 mm) D: 12 in. (305 mm)	46 lb. (21 kg)
FILTAIR 400 (#300 894)	108 ft ² (10 m ²)	400 CFM (189 L/sec.)	74 dBA at 5 ft. (1.5 m)	8.85 HP	460 VAC/3-Phase/60 Hz	H: 54 in. (1372 mm) W: 26 in. (660 mm) D: 48 in. (1219 mm)	551 lb. (250 kg)



FILTAIR® MWX and SWX Series See Literature No. AY/3.0 and AY/3.2

Experience extended filter life, increased efficiency and cleaner air with our advanced nanofiber filter technology. Both the MWX (mobile) and SWX (stationary) source capture systems include an S model (self cleaning) and D model (disposable filter).

The MWX Series of mobile fume extractors provides a portable means of fume extraction.



MWX-S (self-cleaning) model with 10-ft. extraction arm shown.



SWX-D (disposable filter) model with 7-ft. extraction arm shown.

The SWX Series of stationary wall-mounted fume extractors maximizes floor space, plus allows the flexibility to connect one or two extraction arms to extend fume extraction capability.

Features Common to All Models

Superior filter life from our exclusive MERV 15 TruLock™ nanofiber filter ensures capture of submicron weld fumes, more holding capacity and the ability to maintain low pressure drop—resulting in a longer lasting filter and a cleaner work space.

MERV 15 rating of FILTAIR nanofiber filters is the highest in the industry. Up to 95 percent of weld fumes are submicron and FILTAIR filters capture 85–95 percent of these particles.

Strong suction power of 875 CFM delivers long-lasting airflow throughout the life of the filter.

Extraction arm is obstruction free so air can pass through with less airflow resistance, giving you stronger CFM (airflow).

Self-Cleaning Models Additional Features

Self-cleaning filter technology features an innovative filter cleaning mechanism designed to increase productivity and greatly extend filter life.

One-minute cleaning cycle operates with a push of a button on the control panel.

Miller® TruLock™ nanofiber filter is surface loading. Weld fume does not penetrate deep into the filter. This enables particles to be easily released during the cleaning process and keeps pressure drop low.

Disposal drawer provides easy and convenient access to empty out collected particles. Handle releases drawer allowing it to slide out.

Note: Compressed air required to operate cleaning mechanism.

Processes

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

Comes With

- Filter

Most Popular Accessories

• Replacement Filters

Self-Cleaning Filter #300 540

Disposable Filter #300 539



Nanofiber cartridge filter features an ultra-thin surface webbing of tiny fibers that capture weld fumes on the filter surface. FILTAIR's MERV 15* TruLock™ filter provides higher efficiency and longer filter life overall.

**MERV (Minimum Efficiency Reporting Value) is between 1 and 16. A higher MERV indicates a more efficient filter and is more effective against submicron-sized particles .30 to 1.0 micron.*

• Hood Light with Arc Sensor

For MWX Series #300 689

For SWX Series #300 763



Illuminates the welding zone and enables the fume extractor to start automatically when welding begins.



• SWX Dual Arm Add-On Packages

- SA-W807 (7-ft. arm) #951 344
- SA-W810 (10-ft. arm) #951 345
- SA-W812 (12-ft. arm) #951 346

Includes arm, blower and back draft dampers to turn single-arm weld fume extractor into dual-arm extractor.

- SA-W Arm Ducting Kit #300 771
- Includes a supporting bracket, collar and hardware for connecting an arm to existing duct work.

Model/Stock Number	Filter Media	Nominal Airflow	Extraction Arm Diameter	Sound Level	Motor	Input Power	Dimensions	Net Weight
MWX-S (Self-Cleaning) Models (#951 178) 7-ft. extraction arm (#951 179) 10-ft. extraction arm (#951 180) 12-ft. extraction arm	MWX-D (Disposable Filter) Models (#951 143) 7-ft. extraction arm (#951 144) 10-ft. extraction arm (#951 145) 12-ft. extraction arm	490 ft. ² (45.52 m ²)	875 CFM (413 L/sec.)	8 in. (203 mm)	Approximately 70 dBA at 5 ft. (1.5 m)	1 HP, 3450 RPM	H: 34.75 in. (883 mm) W: 31.75 in. (806 mm) D: 48 in. (1219 mm)	MWX-S 300 lb. (136 kg) MWX-D 238 lb. (108 kg)
SWX-S (Self-Cleaning) Models (#951 339) 7-ft. extraction arm (#951 335) 10-ft. extraction arm (#951 340) 12-ft. extraction arm	SWX-D (Disposable Filter) Models (#951 336) 7-ft. extraction arm (#951 337) 10-ft. extraction arm (#951 338) 12-ft. extraction arm	490 ft. ² (45.52 m ²)	875 CFM (413 L/sec.)	8 in. (203 mm)	Approximately 74 dBA at 5 ft. (1.5 m)	1 HP, 3450 RPM	SWX-S H: 33 in. (838 mm) SWX-D H: 29 in. (737 mm) W: 27.25 in. (692 mm) D: 33 in. (838 mm)	SWX-S 195 lb. (88 kg) SWX-D 130 lb. (59 kg)

NEW! FILTAIR® Industrial Series Centralized Systems See Literature No. AY/3.4

Packaged filter efficiency. Our exclusive MERV 15 TruLock™ nanofiber filter pack has a compressed design and replaces up to three traditional cartridge filters.

Easy-clean filter with surface-loaded filter technology.

Stand-alone space saver. Our design provides up to a 65 percent smaller footprint versus the traditional cartridge filter collector. This fully assembled weld fume filter box provides all the necessary extraction tools, while offering customizable options.



Call toll-free 855-FILTAIR (345-8247) for information on custom engineered solutions to fit your needs.

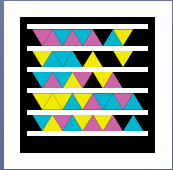
FILTAIR 4000 model shown. Other models are available (2000, 6000, 8000, and 12000).



WELDING PROTECTION



MillerWelds.com/WeldingProtection



Scan this tag to discover a new revolution in welder protection.



Industrial Protection

Respiratory

PAPR Powered Air-Purifying Respirator

NEW! With Titanium 9400i™ helmet

#247 531 With Auto-Darkening Lens Assembly

#247 532 Without Auto-Darkening Lens Assembly

NEW! With Titanium 9400™ helmet

#247 533 With Auto-Darkening Lens Assembly

#247 534 Without Auto-Darkening Lens Assembly



NEW!

NEW!

- Respiratory protection with a lightweight design for all day comfort
- Comfortable load-bearing shoulder straps for extended wear
- Two air speeds for increased comfort in varied working conditions
- Audible and vibrating alarms notify user in noisy environments
- Low-profile blower design for unrestricted movement

LPR100 Low Profile Respirator P100 Half Mask #245 642

- Provides protection against various airborne contaminants
- Low-profile filter design
- Fits easily under most welding helmets
- Large non-return exhaust valve for reduced user fatigue



NEW!

Titanium Series™ Helmets

Industrial Helmets for the Most Extreme Welding and Grinding Applications

Titanium 1600™ #245 799

Titanium 7300™ #245 800

Titanium 9400™ #245 801

Titanium 9400i™ #245 804

- Aluminum heat shield protects analog lens in high amperage applications
- Durable shock-absorbing gasket protects lens from drop impact
- Silver shell reflects heat to keep helmet and user cool



Titanium 1600

Titanium 7300

Titanium 9400

Titanium 9400i
(features integrated grinding shield)

Model	Shade Type (all lenses have light state 3)	Viewing Field	Arc Sensors	Grind Mode	Power Control	Power Supply	Lens Speed (Seconds)	Sensitivity Control	Delay Control	TIG Rating	Magnifying Lens Holder	Weight
Titanium 1600	Passive Shade 10	4 x 4 in. (102 x 102 mm)	0	No	N/A	N/A	N/A	N/A	N/A	N/A	Yes	17 oz. (482 g)
Titanium 7300	Variable Shade 8-13	3.85 x 1.85 in. (97 x 47 mm)	3	Yes	Auto-On Auto-Off	Replaceable lithium batteries, 2000 hrs.	1/20,000	Yes	.10-1.0 sec.	5 amps	Yes	19 oz. (539 g)
Titanium 9400i and 9400	Variable Shade 8-13	3.85 x 2.38 in. (97 x 60 mm)	4	Yes	Auto-On Auto-Off	Replaceable lithium batteries, (2) 3000 hrs.	1/20,000	Yes	.10-1.0 sec.	5 amps	Yes	24 oz. (680 g)



Heat Stress

CoolBand™ Integrated Headgear Cooling System #244 094

- Up to **8 degrees Fahrenheit cooler** under the hood
- Strategically placed air vents reduce fogging
- Constant air movement removes stagnant air
- Removable air deflector provides airflow adjustability



Note: Not compatible with XL Series™ and Titanium 9400i™ helmets.

CoolBelt™ Belt-Mounted Cooling System #245 230

- 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



Note: Not compatible with XL Series™ helmets.

Industrial Welding Gloves (See Size Chart)

MIG

- Exclusive pre-curved form-fitting pattern conforms to the natural shape of the hand
- Moisture-wicking cotton fleece lining for additional protection



MIG (Long Cuff)

- Extra long 9-inch cuff for additional protection
- Fully welted seams for extended life



HD MIG/Stick

- Premium side split cowhide for extreme durability
- Aluminized insulation reflects radiant heat



TIG

- Unlined pigskin leather palm provides superior dexterity
- Reinforced palm patch for added comfort



Industrial Welding Apparel



Classic Cloth Apparel

- 9-ounce flame-resistant navy cotton
- Pre-shrunk fabric
- Finished hems and reinforced stitching

1 Classic Cloth Jacket (See Size Chart)

- Barracuda-style collar
- Convenient inside pocket

2 Classic Cloth Cape Sleeves (See Size Chart)

- Allows for bib attachment (sold separately)
- Barracuda-style collar
- Fold-in sleeve snaps

3 Classic Cloth Bib #247 147

- 19-inch length
- Attaches to cape sleeves

4 Classic Cloth Apron #247 149

- 35-inch length
- Adjustable drawstring

5 Classic Cloth Sleeves #247 148

- 18-inch length
- One-handed cinch closure



WeldX™ Apparel

- 7-ounce WeldX provides extreme flame-resistant properties and repels sparks, spatter and molten metals
- Machine washable pre-shrunk fabric
- Chromium free
- Finished hems and reinforced stitching

6 WeldX Jacket (See Size Chart)

- WeldX front and flame-resistant navy cotton back
- Vented back and extended rear tail
- Zipper closure with Velcro® storm flap
- Accessible inside pocket

7 WeldX Cape Sleeves (See Size Chart)

- Allows for bib attachment (sold separately)
- WeldX front and flame-resistant navy cotton back
- Barracuda-style collar
- Fold-in sleeve snaps

8 WeldX Bib #247 133

- 19-inch length
- Attaches to cape sleeves

9 WeldX Apron #247 134

- 35-inch length
- Adjustable drawstring

10 WeldX Sleeves #247 137

- 18-inch length
- One-handed cinch closure

Size Chart (Industrial Welding Gloves)

Glove	Large	X-Large
MIG	#249 195	#249 196
MIG (Long Cuff)	#249 197	#249 198
HD MIG/Stick	#249 193	#249 194
TIG	#249 199	#249 200

Size Chart (Industrial Welding Apparel)

Apparel	Small	Medium	Large	X-Large	2X-Large	3X-Large	4X-Large	5X-Large
Classic Cloth Jacket	#244 749	#244 750	#244 751	#244 752	#244 754	#244 755	#244 756	#244 758
Classic Cloth Cape Sleeves	#247 138	#247 139	#247 140	#247 142	#247 143	#247 144	#247 145	#247 146
WeldX Jacket	#247 114	#247 115	#247 116	#247 117	#247 118	#247 119	#247 120	#247 121
WeldX Cape Sleeves	#247 122	#247 123	#247 124	#247 126	#247 127	#247 128	#247 130	#247 131



WELDING PROTECTION

MP-10™ Series

Miller® Quality for the Value-Minded Welder



- Black #235 626 (6 Pk) #238 497 (Each)
- Inferno™ #235 627 (6 Pk) #238 496 (Each)
- Passive shade 10 lens
- Upgradable to auto-darkening lens

Classic Series

Miller® Quality for the Value-Minded Welder Who Wants an Auto-Darkening Lens



- FS#10 #231 703
- Variable Shade #251 292
- Variable Shade features shade #8-13

Pro-Hobby™ Series

Ideal Helmets for Light-Duty Applications

- 1 Black #231 404
- 2 American Eagle™ II #231 405
- 3 Red Flame #231 408
- 4 Camouflage #231 407
- 5 Blue Heat #250 366



Performance Series™

Mid-Range Helmets for Most Applications

- 6 Black #232 035
- 7 America's Eagle™ #232 036
- 8 Blue Rage™ #241 458
- 9 Fireball™ #234 514
- 10 Camouflage #241 460
- 11 '64 Custom #250 532



Elite Series™

Ultimate Helmets for Most Applications

- 12 Black #241 975
- 13 Stars and Stripes II™ #234 065
- 14 Vintage USA™ #237 838
- 15 Inferno™ #222 669
- 16 Wicked™ #241 464
- 17 Lucky's Speed Shop™ #237 744
- 18 The Joker™ #227 187
- 19 Camouflage #227 188
- 20 Sinister™ #250 088



Digital Elite™ Series

Ultimate Helmets PLUS Four Modes of Digital Versatility for Most Welding and Cutting Applications

- 22 Black #241 979
- 22 Stars and Stripes II™ #234 762
- 23 Vintage USA™ #236 340
- 24 Inferno™ #234 761
- 25 Wicked™ #241 462
- 26 Lucky's Speed Shop™ #237 745
- 27 The Joker™ #235 041



X-mode eliminates: Sunlight interference ▪ Low-amp lens opening – TIG ▪ Lens opening from obstructed sensors – hidden and cavity welds ▪ Lens opening – pipe and curves

Model	Shade Type (all lenses have light state 3)	Viewing Field	Arc Sensors	Grind Mode	Power Control	Power Supply	Lens Speed (Seconds)	Sensitivity Control	Delay Control	TIG Rating	Magnifying Lens Holder	Weight
MP-10™ Series	Passive Shade 10	4 x 4 in. (102 x 102 mm)	0	No	N/A	N/A	N/A	N/A	N/A	N/A	Yes	18 oz. (510 g)
Classic Series FS#10	Fixed Shade 10	3.70 x 1.37 in. (94 x 35 mm)	2	No	Auto-On Auto-Off	Rechargeable solar cell	1/3,600	No	No	20 amps	Yes	16 oz. (454 g)
Classic Series Variable Shade	Variable Shade 8-13	3.75 x 1.38 in. (95 x 35 mm)	2	No	Auto-On Auto-Off	Rechargeable solar cell	1/10,000	Yes	Yes	20 amps	Yes	16 oz. (454 g)
Pro-Hobby™ Series	Variable Shade 8-12	3.85 x 1.57 in. (97 x 40 mm)	2	No	Manual-On Auto-Off	Replaceable alkaline batteries, (2) 2000 hrs.	1/12,000	Yes	Slow/Fast	20 amps	Yes	16 oz. (454 g)
Performance Series™	Variable Shade 8-13	3.85 x 1.85 in. (97 x 47 mm)	3	Yes	Auto-On Auto-Off	Replaceable lithium batteries, 2000 hrs.	1/20,000	Yes	.10-1.0 sec.	5 amps	Yes	17 oz. (482 g)
Elite Series™	Variable Shade 8-13	3.85 x 2.38 in. (97 x 60 mm)	4	Yes	Auto-On Auto-Off	Replaceable lithium batteries, (2) 3000 hrs.	1/20,000	Yes	.10-1.0 sec.	5 amps	Yes	18 oz. (510 g)
Digital Elite™ Series	Variable Shade 8-13 (5-8 for cut mode)	3.85 x 2.38 in. (97 x 60 mm)	4	Yes	Manual-On Auto-Off	Replaceable lithium batteries, (2) 3000 hrs.	1/20,000	Yes	.10-1.0 sec.	5 amps	Yes	18 oz. (510 g)

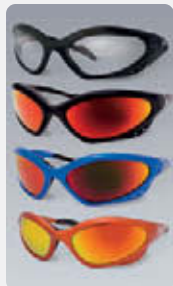


Accessories



2x4 Auto-Darkening Lens

- #770 660 (Shade 8)
- #770 659 (Shade 9)
- #770 226 (Shade 10)
 - Fits all 2x4-inch windows
 - Solar powered, two arc sensors
 - Light state shade 3
 - Two-year warranty



Safety Glasses

- Black** #238 979 (Clear)
- Frame** #235 656 (Smoked)
 - #235 662 (Shade 3)
 - #235 658 (Shade 5)
- Blue** #235 655 (Smoked)
- Frame** #235 661 (Shade 3)
 - #235 657 (Shade 5)
- Orange** #235 663 (Shade 3)
- Frame** #235 659 (Shade 5)
 - Form fitting orbital eye coverage
 - ANSI Z87.1 compliant



Hard Hat Adapter

- #213 110 (XL and XLI)
- #222 003 (All other Miller Series)
 - Compatible with Fibre Metal and MSA hats. Other brands may fit depending on size and shape. Helmet and hat not included.



Helmet Hook #251 018

- Holds welding helmets, grinding shields or other helmets with a headgear. Silicone strap secures the helmet in place.



Job-Site Tool Bag #228 028

- Over twenty separate pockets
- Opening of 12 x 18.5 inches (305 x 470 mm)



Head Threads

- Bandannas have a sewn-in sweatband
- Caps are reversible with a low, soft bill
- See your distributor for styles and sizes

Packages

Performance Pak shown.



Protection Paks

- Starter Pak** (includes #251 292 Classic VS helmet)
 - #255 848 Large
 - #255 850 X-Large
 - #255 851 2X-Large
- Performance Pak** (includes #232 035 Performance helmet)
 - #240 886 Large
 - #240 887 X-Large
 - #240 888 2X-Large

Welding Gloves (See Size Chart)



Metalworker

- Spandex backing and goatskin palm provide optimal comfort
- Neoprene wrist with Velcro® closure for better fit and support
- HD gloves add a reinforced palm and heavy-duty impact patch



Multi-Purpose

- Breathable pigsplit back with top grain cowhide palm for excellent heat protection
- Moisture-wicking mesh lining and padded palm



MIG

- Breathable pigsplit back with genuine American deerskin palm for ultimate comfort
- Moisture-wicking fleece lining provides additional protection



HD MIG/Stick

- Breathable pigsplit back with top grain cowhide palm provides utmost protection
- FR cotton fleece lining with exclusive channeled foam



TIG (Short Cuff)

- Durable pigsplit back with goatskin palm provide superior protection and dexterity
- Three-inch cuff for additional mobility



TIG

- Durable goatskin back and palm for extended wear and ultimate dexterity
- FR cotton fleece back and padded palm provide excellent protection

Welding Apparel



INDURA® Cloth Jacket (See Size Chart)

- INDURA® flame-resistant cotton (flame resistant guaranteed for life of jacket)
- Nomex® flame-resistant thread
- Allows for patented bib/apron attachment



Combo Jacket (See Size Chart)

- INDURA® flame-resistant cotton (flame resistant guaranteed for life of jacket)
- Premium top grain leather
- Allows for patented bib/apron attachment



Leather Jacket (See Size Chart)

- Premium top grain leather
- Expandable leather strategically placed for optimal mobility
- Satin lined
- Tapered, athletic cut



Combo Sleeves #231 096

- INDURA® flame-resistant cotton/top grain leather
- 21-inch (533 mm) length



Bib/Apron #231 125

- Attaches to INDURA® Cloth and Combo Jackets with snaps across the chest as a bib or along the bottom as an apron

Size Chart (Welding Gloves)

Glove	Medium	Large	X-Large
Metalworker	#251 066	#251 067	#251 068
Metalworker HD	#251 069	#251 070	#251 071
Multi-Purpose	#249 184	#249 185	#249 186
MIG	#249 175	#249 176	#249 177
HD MIG/Stick	#249 172	#249 173	#249 174
TIG (Short Cuff)	#249 181	#249 182	#249 183
TIG	#249 178	#249 179	#249 180

Size Chart (Welding Apparel)

Apparel	Small	Medium	Large	X-Large	2X-Large	3X-Large	4X-Large	5X-Large
INDURA Cloth Jacket	#231 072	#231 073	#231 074	#231 075	#231 076	#231 077	#231 078	#231 079
Combo Jacket	#231 080	#231 081	#231 082	#231 083	#231 084	#231 085	#231 086	#231 087
Leather Jacket	#231 088	#231 089	#231 090	#231 091	#231 092	#231 093	#231 094	#231 095

ACCESSORIES



MillerWelds.com/Accessories

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- Turntable Assembly
- Wire Straightener

Aluminum MIG Welding

See Spoolmate, Spoolmatic and XR-Control System on pages 25-27.

Automated Manufacturing System Accessories

For adapters and drive motors, visit MillerWelds.com.



Coolant Flow Switch #195 461

For Auto-Access. To ensure coolant is flowing in the system. Lack of coolant flow may cause damage to water-cooled guns. Module allows wiring into the peripheral connector port. 50-foot (15.2 m) cable with connector and separate shell connector for simple modification to desired length in the field. It can be mounted on Auto-Access or as desired elsewhere. Quarter-turn quick connection.

MCS-2 Motorized Cross Slide

#098 380 Control
#045 623 Adapter Plate*
Provides accurate weld head adjustment with convenient motorized control. Used to align the welding head (gun) to the weld joint, by providing vertical or horizontal adjustments, based on mounting preferences.

*Required when using two slides.

Cable Connectors and Adapters

For AlumaFeed System, Invision 352 MPa, CST 280, Maxstars, Dynastys, Syncrowaves, and XMT 304 and 350. 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 size.

Dinse-Style Connectors

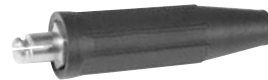
#042 418
Accepts #4 to #1/0 AWG cable size.

#042 533
Accepts #1/0 to #2/0 AWG cable size. Kits include one Dinse-style male plug which attaches to the work and/or weld cables and plugs into the Dinse-style receptacles on the power source.

Extension Kits for Dinse-Style Cable Connectors

#042 419
Accepts #4 to #1/0 AWG size cable.

#042 534
Accepts #1/0 to #2/0 AWG size 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.



Tweco®-Style Connector #195 981

Accepts #1/0 to #2/0 AWG cable size. 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.



Thread Lock Connectors #225 029

For Maxstar/Dynasty 700. Contains two male connectors that accept #1/0 to #4/0 AWG size cable.



Dinse/Tweco® Adapter #042 465

Dinse/Cam-Lok Adapter #042 466

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 #210 061

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.

Air-Cooled TIG (GTAW) Torch Adapters

#195 234
For Maxstar 150. 25-mm (small) Dinse-style flow thru for (WP17, WP9, WP50) one-piece torch.



#194 722
For Syncrowave 200. 50-mm Dinse-style flow thru for (WP17, WP9, WP50, WP23) one-piece torch.



#195 379 (WP26)
#195 378 (WP17, WP9, WP50, WP23)
For CST 280, Maxstar/Dynasty 200, 280 and 350, and Syncrowave 250 and 350. 50-mm Dinse-style for one-piece torch.



Water-Cooled TIG (GTAW) Torch Adapters

#195 380
For Syncrowave 200. 50-mm Dinse-style flow thru with gas and water return lines for (WP125, WP24W, WP25, and WP20) water-cooled torch.



#195 377
For Maxstar/Dynasty 200, 280 and 350, and Syncrowave 250 and 350. 50-mm Dinse-style with water return line for (WP125, WP24W, WP25, WP20, WP18, WP12, CS310, CS410, WP22, WP27) water-cooled torch.



#225 028
For Maxstar/Dynasty. 50-mm thread lock-style for (WP125, WP24W, WP25, WP20, WP18, WP12, CS310, CS410, WP22, WP27) water-cooled torch.





Carts, Cylinder Racks and Running Gear

See also *Engine Drive Accessories and Plasma Accessories* on pages 82, 83 and 85.



Carrying Cart #056 301

For smaller Maxstars, CST 280, XMTs, and wire feeders. Cart is 34-inches high x 30 inches wide x 17 inches deep (864 x 762 x 432 mm).



Cylinder Cart #042 537

For Invisions, CST 280, and XMTs. Has adjustable handles and is slanted for convenient access to power source front panel controls. Carries two 160-pound (72.6 kg) gas bottles or one gas bottle and one Coolmate V3 for TIG welding. Feeder mounted to tray above power source. Accommodates Coolmate 3 or 4 coolant systems.



Feeder Cart #142 382

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



Universal Cart and Cylinder Rack #042 934

For Invision 352 MPa, CST 280, Maxstar/Dynasty 200 and 280, Diversion 165 and 180, and XMT 304 and 350. Also accommodates single gas cylinder up to 56 inches (142.2 cm) high measuring 6 to 9 inches (15.2 to 22.8 cm) in diameter. Provides storage for auxiliary items such as electrodes, helmets and gloves.



2-Wheel Trolley Cart #300 480

For Maxstar/Dynasty 200 with or without Coolmate 1. Easy-to-manuever 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 #300 244

For Maxstar/Dynasty 280 with or without Coolmate 1.3.

Runner™ Cart #300 244

For Maxstar/Dynasty 350 and 700 with or without Coolmate 3.5.

#300 244 cart shown.

Carts feature single cylinder rack, foot pedal holder, three cable/torch holders and two TIG electrode filler holders.



MIGRunner™ Cart #195 445

For AlumaFeed System, Invisions, and XMTs with single or dual feeders. Small footprint and easily

maneuverable, with 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 #300 408

For Invisions, Axxess 300 and 450, and XMTs with single or dual feeders. Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front for easy access. A convenient handle allows the cart to be pulled easily through doorways. System components including power source, single or dual feeders, and Coolmate V3 can be mounted to the cart and secured.



Dual EZ-Change™ Low Cylinder Rack with Elevated Gun and Cable Rack #300 337

For Millermatic 212 Auto-Set and 252. 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 #300 335

For Millermatic 212 Auto-Set and 252. For use with single cylinder rack. (Included with Dual EZ-Change Low Cylinder Rack.)



Dual Cylinder Rack #195 299

For Millermatic 350P. Replaces single cylinder rack.



No. 37 Running Gear #195 282

For Syncrowave 250 DX and 350 LX. Includes two 10-inch (254 mm) wheels, two 5-inch (127 mm) casters, two-compartment rack (for gas cylinder(s) or Coolmate V3 coolant system), and handles. Provides excellent mobility and easy to install.



Shopmate 300 Running Gear/ Dual Cylinder Rack #300 145

For Shopmate 300/300 DX. The large 10-inch (254 mm) rear wheels and 5-inch (127 mm) front casters on this running gear provide excellent mobility on the shop floor, making it easier to move the power source. Very easy to install. Handles double as a cable holder. Holds two cylinders.



Premium Running Gear/ Cylinder Rack #770 187

For Millermatic 140 Auto-Set, 180 Auto-Set, 211 Auto-Set, and Diversions. Heavy-duty construction. For gas cylinders no larger than 7 inches (178 mm) in diameter. Maximum weight is 100 pounds (45 kg).



Standard Running Gear/ Cylinder Rack #300 425

For Millermatic 140 Auto-Set, 180 Auto-Set, 211 Auto-Set, and Diversions. Durable construction. For gas cylinders no larger than 7 inches (178 mm) in diameter. Maximum weight is 75 pounds (34 kg).



Shown with optional cylinder rack (#042 887).

Standard Running Gear #042 886

For CP-302, Deltawelds, Gold Stars, and Dimensions. The 10-inch (254 mm) rear wheels and 5-inch (127 mm) front casters on this running gear provide excellent mobility on the shop floor, making it easier to move the power source. Very easy to install. Handles double as a cable holder.

Standard Cylinder Rack #042 887

Installs on Standard Running Gear (#042 886) only.



Thunderbolt XL Running Gear #043 927

Mounts easily to unit and provides convenient portability. Includes two wheels, two feet and a handle.

Coolant Systems

See Literature No. AY/7.2

1 Phase



Coolmate™ 1.3 #300 972 115 VAC
For Maxstar/Dynasty 280. Light industrial, 1.3-gallon cooler designed for water-cooled torches on power sources rated up to 280 A*.

Coolmate™ 3 #043 007 115 VAC
#043 008 230 VAC
Economical, 3-gallon cooler designed for water-cooled torches rated up to 500 A*.

Coolmate™ V3 #043 009
Vertical, 3-gallon cooler designed for water-cooled torches rated up to 500 A*.

Coolmate™ 3.5 #300 245
For Maxstar/Dynasty 350 and 700.
Industrial, 3.5-gallon cooler designed for water-cooled torches rated up to 600 A*.

Coolmate™ 4 #042 288
The best performer in its class – industrial, 4-gallon cooler designed for water-cooled torches rated up to 600 A*.

*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 one-gallon recyclable plastic bottles. Miller® coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37° Fahrenheit (-38° C) or boiling to 227° Fahrenheit (108° C).

Low-Conductivity Coolant (Clear, Pre-Mixed) #043 810
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) #043 809
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 Shipping Weight
Coolmate 1.3	115 VAC, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	2850 W (9700 BTU/hr.) 1.8 qt./min. (1.7 L/min.)	1210 W (4120 BTU/hr.) 1.1 qt./min. (1 L/min.)	1.3 gal. (4.9 L)	H: 11.75 in. (299 mm) W: 10.25 in. (260 mm) D: 24.5 in. (622 mm)	45 lb. (20.5 kg)
Coolmate 3	115 VAC, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	3820 W (13,000 BTU/hr.) 4.2 qt./min. (4.0 L/min.)	1420 W (4840 BTU/hr.) 1.1 qt./min. (1 L/min.)	3 gal. (11.4 L)	H: 13.25 in. (337 mm) W: 12.25 in. (311 mm) D: 23.25 in. (584 mm)	43 lb. (20 kg)
	230 VAC, 50/60 Hz	2.5 A (50 Hz), 3.0 A (60 Hz)					
Coolmate V3	115 VAC, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	3820 W (13,000 BTU/hr.) 4.2 qt./min. (4.0 L/min.)	1420 W (4840 BTU/hr.) 1.1 qt./min. (1 L/min.)	3 gal. (11.4 L)	H: 33 in. (838 mm) W: 9.25 in. (235 mm) D: 9.25 in. (235 mm)	54 lb. (24 kg)
Coolmate 3.5	115 VAC, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	4140 W (14,000 BTU/hr.) 5.0 qt./min. (4.7 L/min.)	1660 W (5660 BTU/hr.) 1.1 qt./min. (1 L/min.)	3.5 gal. (13.2 L)	H: 11.75 in. (298 mm) W: 15.75 in. (400 mm) D: 26 in. (660 mm)	70 lb. (32 kg)
Coolmate 4	115 VAC, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	5500 W (18,000 BTU/hr.) 5.9 qt./min. (5.6 L/min.)	1780 W (6070 BTU/hr.) 1.1 qt./min. (1 L/min.)	4 gal. (15 L)	H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm)	40 lb. (18 kg)

Engine Drive Accessories

See also Trailers, Remote Controls and HF Arc Starters on pages 84, 86 and 87.

Generator Accessories



Female Receptacle

Adapter Cord, Full KVA #300 517 Field

For Bobcats, Trailblazers, Big Blue 300 Pro, Big Blue 350 PipePro, Big Blue 450 Duo CST, and Big Blue 700 Duo Pro. NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.



Single-Phase Full KVA Plug Kit #119 172

For Bobcats, Trailblazers, Big Blue 300 Pro, Big Blue 350 PipePro, Big Blue 450

Duo CST and Big Blue 700 Duo Pro. Can be wired for 120 or 240 VAC loads.

Three-Phase Full KVA Plug Kit

#165 963 For Bobcat 3 Phase.
#254 140 For Big Blue 700 Duo Pro.

Big Blue/Blue Star/Wildcat Accessories



Cable Holder #043 946

For Big Blue 400, 500, 700 Duo Pro, Air Pak, and Turbo.



Lifting Eye

#195 353
For Blue Stars.



No. 38 Hand Running Gear #195 352

For Blue Stars.

Compact and balanced, lightweight wheelbarrow-style running gear provides easy onsite mobility.



Wildcat 200 Running Gear #300 532

For Wildcat 200.

Running gear designed for excellent portability on the jobsite.

Protective Covers

#195 193 For Blue Stars.

#300 496 For Wildcat 200.

#195 301 For Big Blue 300 Pro, 350 PipePro, 400 Eco Pro, and 450 Duo CST.

#194 683 For Big Blue 400, 500, and 700 Duo Pro.

#195 159 For Big Blue Air Pak and Turbo.

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



Vandalism Lockout Kit #195 118 Field

For Big Blue 400, 500, Air Pak, and Turbo.

Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.



Engine Drive Accys (cont.)

See also Trailers, Remote Controls and HF Arc Starters on pages 84, 86 and 87.

New Bobcat Front Engine Model Accessories

(stock #907 498 - #907 512)



NEW! Multi-Terrain Running Gear

#300 913 With inner tubes
#300 914 With Never Flat™ tires
 For Gas/LP Bobcats. Includes two heavy-duty 15-inch tires, two 8-inch rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.



NEW! Off-Road Running Gear

#300 909 With inner tubes
#300 910 With Never Flat™ tires
 For Gas Bobcats. Includes four heavy-duty 15-inch tires and a rugged handle to provide maximum maneuverability.
 Note: Not for use with Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.



NEW! Off-Road Running Gear with Protective Cage and Never Flat™ Tires

#300 912
 For Gas Bobcats. Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.
 Note: Not for use with Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.



Protective Cage with Cable Holders

#300 921 For Gas/LP Bobcats
 Rugged cage with cable holders protects your investment. Works with Running Gear, Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.



NEW! Gas Cylinder Mounting Assembly #300 918

For Gas Bobcats. Designed for use with the Multi-Terrain Running Gears (see note below), Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.
 Note: Cannot be used with LP Tank Mounting Assembly or Off-Road Running Gears. Not recommended for use with Protective Cover.



NEW! Hose and LP Tank Mounting Assembly #300 917

For LP Bobcats. Designed for use with the Multi-Terrain Running Gears, Protective Cage, or by itself. Includes bracket and clamp to mount 33- and 43-pound tanks horizontally, and hose with fittings to converter.
 Note: Cannot be used with Gas Cylinder Mounting Assembly or Off-Road Running Gears. Not recommended for use with Protective Cover.



#300 919 cover shown.

Protective Covers

#300 919 For Gas Bobcats **without** Protective Cage or Running Gear.
#300 920 For Gas Bobcats **with** Protective Cage or Running Gear.
 Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of welders. See MIG, Plasma Cutter, and TIG Accessories for additional covers.



Remote Oil Drain and Filter Kits

#300 922 Field For Kohler, rear mount
#300 923 Field For Kohler, front mount
 For Gas Bobcats. Makes servicing easy when engine drive is mounted in tight spots.

Bobcat/Trailblazer Rear Engine Model Accessories

(stock #907 209 - #907 218 and #907 447 - #907 452)



All-Purpose Running Gear

#300 396 With inner tubes
#300 477 With Never Flat™ tires
 For Gas/LP Bobcats and Trailblazers (except Air Pak). Includes two heavy-duty 15-inch tires, two 8-inch swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.

All-Purpose Running Gear with Protective Cage

#300 428 With inner tubes
#300 478 With Never Flat™ tires
 For Gas/LP Bobcats and Trailblazers (except Air Pak). Running gear and rugged cage with cable holders protects your investment and is easy to move around flat surfaces.

All-Terrain Running Gear EZ

#300 572 With inner tubes
#300 574 With Never Flat™ tires
 For Gas Bobcats and Trailblazers (except Air Pak). Includes two heavy-duty 15-inch tires, two 10-inch pneumatic tires with innertubes and a rugged handle to provide maximum maneuverability.

Note: Not for use with Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.



All-Terrain Running Gear EZ with Protective Cage

#300 573 With inner tubes
#300 575 With Never Flat™ tires
 For Gas Bobcats and Trailblazers (except Air Pak). Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.

Note: Not for use with Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.

Protective Cage with Cable Holders

#195 331 For Gas/LP Bobcats and Trailblazers (except Air Pak)
#300 473 For Trailblazer 302 Air Pak
#300 052 For Diesel Bobcat/Trailblazers
 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 #195 330

For Gas/Diesel Bobcats and Trailblazers (except Air Pak). Designed for use with the All-Purpose Running Gears (see note below), Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.
 Note: Not recommended for diesel models when equipped with All-Purpose Running Gear. Cannot be used with LP Tank Mounting Assembly or All-Terrain Running Gears.

Hose and LP Tank Mounting Assembly #195 329

For LP Bobcats and Trailblazers. Designed for use with the All-Purpose Running Gears, Protective Cage, or by itself. Includes bracket and clamp to mount 33- and 43-pound tanks horizontally, and hose with fittings to converter.
 Note: Cannot be used with Gas Cylinder Mounting Assembly or All-Terrain Running Gears.

Protective Covers

#195 333 For Gas Bobcats and Trailblazers (except Air Pak) **without** Protective Cage or Running Gear.
#195 529 For Gas Bobcats and Trailblazers (except Air Pak) **with** Running Gear.
#195 334 For Bobcat 250 Diesel and Trailblazer 302 Diesel **without** Protective Cage or Running Gear.
#300 379 For Trailblazer 302 Air Pak.
 Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of welders. See MIG, Plasma Cutter, and TIG Accessories for additional covers.



Remote Oil Drain and Filter Kits Rear Mounted (shown)

#300 106 Field For Kohler
#300 417 Field For Subaru
 For Gas Bobcats and Trailblazers. Oil can be drained from the rear of the machine.

Front/Chassis Truck Mounted

#300 236 Field For Kohler
#300 418 Field For Subaru
 For Gas Bobcats and Trailblazers. Oil can be drained from the front of the machine or below the truck, mounted on the chassis.

ACCESSORIES

Trailers

See Literature No. AY/20.0



HWY-1000 Trailer #195 013
For Wildcat 200, Bobcats, and Trailblazers (except Air Pak model). A 1000-pound (454 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, 2-inch (50 mm) ball hitch, fenders and lights.



4 West Four-Wheel Steerable Off-Road Trailer #042 801
For Big Blues. Heavy-duty 2570-pound (1166 kg) capacity trailer designed for use in mines, quarries, and other rough terrain. Has narrow 22-foot (6.7 m) turning radius. Includes 3-inch lunette eye, universal hitch and safety chains.



HWY-224 Trailer #043 805
OFR-224 Trailer #043 802
For Bobcats, Trailblazers, and Big Blues. A 2650-pound (1202 kg) capacity trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, and 2-inch (50 mm) ball hitch. HWY-224 also includes fenders and lights.

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

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-1000	1500 lb. (680 kg)	1265 lb. (574 kg)	1000 lb. (454 kg)	18.5 in. (470 mm)	6.5 in. (165 mm)	50 in. (1270 mm)	4.8-12	L: 98 in. (2489 mm) W: 57.5 in. (1460 mm)*	265 lb. (120 kg)
4 West	2000 lb./axle (907 kg/axle)	3000 lb. (1361 kg)	2570 lb. (1166 kg)	21.25 in. (540 mm)	8 in. (203 mm)	55.25 in. (1403 mm)	B78-13	L: 91 in. (2311 mm)** W: 61.25 in. (1556 mm)	430 lb. (195 kg)
HWY-224 OFR-224	3500 lb. (1588 kg)	2960 lb. (1343 kg)	2650 lb. (1202 kg)	18.5 in. (470 mm)	7.5 in. (191 mm)	52 in. (1321 mm)	B-78-13	L: 105 in. (2667 mm) W: HWY-59.5 in. (1511 mm)* OFR-58.437 in. (1484 mm)	320 lb. (145 kg)

Load Banks



LBP-350 #043 329
Designed to provide an adjustable load for troubleshooting or calibrating welding

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



Welding Power Load Bank #902 804

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

Meters



Digi-Meter #041 656

Used to monitor welding voltage and amperage of constant-voltage and constant-current arc welding power sources, and engine-driven welding generators. This unit is not designed to measure primary voltage and amperage.

Digital Meters #043 812 Field

For Gold Star models AFTER serial number KG283595. Easy-to-install, front-panel-mount, digital amp and volt meters.

Digital Weld Meters Kit #195 289 Field
For Big Blue 400 Eco Pro.

SuitCase Wire Feeder Meter Kits

#300 331 Field For X-TREME 8VS.
#195 169 Field For 12RC BEFORE serial number LF232632.
#300 178 Field For 12RC AFTER serial number LF232631.

Weld Ammeter and Voltmeter Kit

#195 131 Field For Big Blue 400, 500, and Air Pak. Panel-mounted analog meters monitor welding output.

MIG Accessories

Accessory Kits



Industrial MIG 4/0 Kit #300 390
Consists of Smith® regulator/flowmeter with 10-foot (3 m) gas hose, 10-foot (3 m) 4/0 feeder weld cable with lugs, and 15-foot (4.6 m) work cable with 600-amp C-clamp.

Industrial MIG 4/0 Kit with Dinse Connector #300 405

Same as above except weld and work cables have Dinse connector on one end instead of lug.



Shopmate 300 MIG Kit #300 150
Includes Smith® Ar/CO₂ regulator with flowtube, 10-foot (3 m) gas hose, 10-foot (3 m) 1/0 interconnecting cable, 15-foot (4.6 m) 1/0 work cable with clamp, and consumable storage box.

Protective Covers



#195 149
For Millermatic 140 Auto-Set, 180 Auto-Set, and 211 Auto-Set with MVP.



#195 142
For Millermatic 212 Auto-Set, 252 and 350P. Features side pocket.

Pulsing Control



Optima™ MIG Pulse Control #043 389

For XMT CC/CV models. A multipurpose, micro-processor-based pulse control for synergic MIG (wire welding or GMAW),

manual MIG pulsing or standard MIG welding. Use this control with above power sources and any Miller wire feeder, including automatic feeders and spool guns. Includes 25-foot (7.6 m) cord with 14-pin plug.

MIG Gun Accessories

MIGmatic™ M-Series Consumable Kits

#234 607 .023-in. wire For M-100/M-150.
#234 608 .030-in. wire For M-100/M-150.
#234 609 .035-in. wire For M-100/M-150.
#234 610 .030-in. wire For M-25.
#234 611 .035-in. wire For M-25.
#234 612 .045-in. wire For M-25.

Contains contact tips, tip adapters, nozzle adapters and a standard nozzle.

Trailer Accessories



Dual Hitch #300 831

For HWY-1000, HWY-224, and OFR-224. Combination 2-inch (50 mm) ball and 3-inch (76 mm) lunette eye in one reversible assembly.

Cable Tree

#195 023 For HWY-1000.

#043 826 For HWY-224 and OFR-224. Provides an area to conveniently wrap weld cables and extension cords.

Fender Kit #300 160

For HWY-224 and OFR-224. Add fenders to OFR-224 or replacement fenders for HWY-224.

Roughneck® Aluminum Conversion Kit #202 895

Allows 10-foot Roughneck guns to feed 3/64-1/16 inch aluminum wires.

Roughneck® Consumable Kit #206 073

Contains contact tips, diffuser, nozzle, nozzle insulator and gun hook.

Roughneck® Gun Hook #199 662

Enables Roughneck gun to be stored between welds.

Roughneck® Locking Trigger Switch #199 661

Allows Roughneck trigger to be locked during long welds.

Roughneck® Machine Adapter Kits

#199 663 For older Hobart and Thermal products.

#199 664 For Lincoln products.

Adapts Roughneck guns to be used with listed products.

Ironmate™ .045 Conversion Kit

#199 178

Allows FC-1260 and FC-1260LM guns to feed .045-inch self-shielded wire.

Bernard® Aluminum Gun Kits

#300 541 .035 in., 10 ft. (3 m)

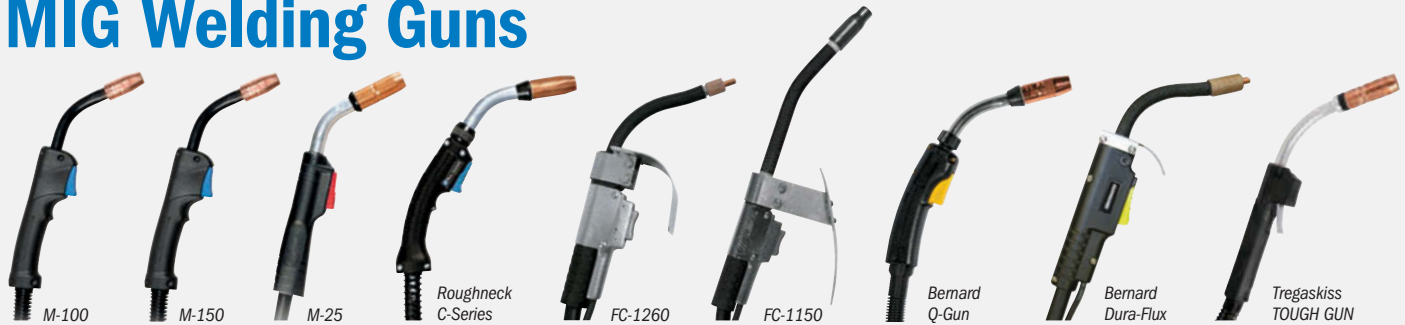
#300 542 .047 in., 12 ft. (3.7 m)

#300 543 1/16 in., 12 ft. (3.7 m)

For Access Systems and 70 Series. These aluminum gun kits have components designed specifically for pushing aluminum wire. Includes U-grooved .035-, .047- or 1/16-inch drive rolls, plastic guides, specific aluminum consumables, and a 10- or 12-foot Bernard Q-Gun.™



MIG Welding Guns



*Rated duty cycle for MIGmatic and Roughneck guns using CO₂ gas. Please see individual Literature Sheets for detailed specifications.

Model	Stock Number	Cable Length	Process	Rated Output	Rated Duty Cycle*	Standard Wire Size	Max. Recommended Wire Size
MIGmatic™ M-Series guns are an ideal match for Miller® integrated MIG packages and other Miller wire feeders. See Literature No. AY/15.0							
M-100	#248 282	10 ft. (3 m)	MIG, Flux-Cored	100 Amps	100%	.030-.035 in. (0.8-0.9 mm)	.045 in. (1.2 mm)
M-150	#249 039	10 ft. (3 m)	MIG, Flux-Cored	150 Amps	100%	.030-.035 in. (0.8-0.9 mm)	.045 in. (1.2 mm)
	#249 040	12 ft. (3.7 m)					
	#249 041	15 ft. (4.6 m)					
M-25	#169 594	10 ft. (3 m)	MIG, Flux-Cored	250 Amps	100%	.030-.035 in. (0.8-0.9 mm)	3/64 in. (1.2 mm)
	#169 596	12 ft. (3.7 m)					
	#169 598	15 ft. (4.6 m)				.035-.045 in. (0.9-1.2 mm)	3/64 in. (1.2 mm)
	#169 599	15 ft. (4.6 m)					
Roughneck® C-Series guns are fully compatible with all current Miller wire feeders and are also adaptable to other major brands of welding equipment. See Literature No. AY/17.0							
C-3010	#194 751	10 ft. (3 m)	MIG, Flux-Cored	300 Amps	100%	.035-.045 in. (0.9-1.2 mm)	5/64 in. (2.0 mm)
C-3012	#194 752	12 ft. (3.7 m)					
C-3015	#194 753	15 ft. (4.6 m)					
C-4010	#194 754	10 ft. (3 m)	MIG, Flux-Cored	400 Amps	100%	.035-.045 in. (0.9-1.2 mm)	5/64 in. (2.0 mm)
C-4012	#194 755	12 ft. (3.7 m)					
C-4015	#194 756	15 ft. (4.6 m)	MIG, Flux-Cored	500 Amps	100%	.052-1/16 in. (1.3-1.6 mm)	1/8 in. (3.2 mm)
C-5010	#194 757	10 ft. (3 m)					
C-5012	#194 758	12 ft. (3.7 m)					
C-5015	#194 759	15 ft. (4.6 m)					
Ironmate™ Series guns are ideal for feeding self-shielded (gasless) flux-cored wires with portable as well as standard-type wire feeders. See Literature No. AY/16.0							
FC-1260	#195 732	10 ft. (3 m)	Self-Shielded Flux-Cored	350 Amps	60%	1/16-3/32 in. (1.6-2.4 mm)	3/32 in. (2.4 mm)
	#195 729	15 ft. (4.6 m)					
FC-1260LM <i>(For Lincoln and Miller Wire Feeders)</i>	#194 912	10 ft. (3 m)	Self-Shielded Flux-Cored	450 Amps	60%	3/32-1/8 in. (2.4-3.2 mm)	1/8 in. (3.2 mm)
	#194 911	15 ft. (4.6 m)					
FC-1150	#194 864	10 ft. (3 m)	Self-Shielded Flux-Cored	450 Amps	60%	3/32-1/8 in. (2.4-3.2 mm)	1/8 in. (3.2 mm)
	#194 863	15 ft. (4.6 m)					

Bernard® Q-Gun™ and Dura-Flux™ gun – see website at bernardwelds.com

Tregaskiss™ TOUGH GUN™ Semi-Automatic MIG Torch – see website at tregaskiss.com/semiauto

Plasma Cutter Accessories

Cable Covers



#239 642 20 ft.
#231 867 25 ft.
#231 868 50 ft.

Cart



No. 30B Economy Cart with Cord Wrap #300 511

For Spectrum 125C, 375, 875, and 875 Auto-Line. This economical

running gear provides mobility, includes a cord wrap and extra storage space, and is angled for easy front panel access.

Cutting Guides



Plasma Circle-Cutting Guides #253 055

For ICE-12C and 60T, and XT30C, XT30, and XT40. Cut straight lines or circles up to 12 inches in diameter.



Suction/Magnetic Pivot Base #195 979

Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 30 inches in diameter.



Plasma Standoff Roller Guide #253 054

Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

Filters



In-Line Air Filter Kit #228 926

For Spectrum 375, 375 X-TREME, 625 X-TREME, 875, and 875 Auto-Line. Mounts to back of the plasma cutter.

Includes male and female 1/4-inch NPT quick-disconnect fittings and hose for easy on/off connection. The replaceable filter element (#228 928) filters to .85 microns for removal of 99.9 percent of water, dirt and oil.



RTI Filter and Bracket #300 491

For Spectrum 375, 875, and 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 (#212 771).

Plasma cutter accessories continued on page 86.



Sub Arc Accessories (cont.)

Parallel Control



Parallel Control
#194 711
Must be used when paralleling two units.

Torch Accessories and Tips

OBT 600 Torch Body Extensions

#043 967 1 inch
#043 969 2 inch
#043 973 4 inch
#043 975 6 inch

OBT 1200 Torch Body Extension

#043 981
Overall length with extension is 9 inches. Actual length of extension is 8.5 inches.

Torch Contact Tips

OBT 600	OBT 1200	Wire Size
#192 700	#192 141	1/16 in. (1.6 mm)
#192 701	#199 026	5/64 in. (2.0 mm)
#192 702	#192 142	3/32 in. (2.4 mm)
#192 703	#200 771	7/64 in. (2.8 mm)
#192 704	#192 143	1/8 in. (3.2 mm)
#192 705	#192 144	5/32 in. (4.0 mm)
#192 706	#192 136	3/16 in. (4.8 mm)
#192 707	#200 756	7/32 in. (5.6 mm)

Welding Carriages

Most Submerged Arc welding systems traverse the arc, wire and flux along the joint to be fused in one of two ways: a self-propelled tractor package for weld lengths greater than 8 feet (2.4 m) or a motorized side beam for weld lengths less than 8 feet (2.4 m).



Self-Propelled Tractor Packages

MT 1500 DX (with HDC 1500 DX Digital Weld Control) #951 060

MT 1500 A (with HDC 1500 A Analog Weld Control) #951 061

Self-propelled tractor packages include:

- Weld control
- Travel system complete with a main mounting mast and handle assembly
- Mounting arm for one wire reel, vertical and horizontal 4 x 4 inch cross slides, a control support arm and an adjustable guide roll arm

See Lit. No. DC/19.9 for more information.

Motorized Side Beam Systems

We recommend side beam systems from Jetline Engineering (949-951-1515). They have extensive experience assembling custom mechanized welding systems like Sub Arc.

TIG Accessories

High-Frequency Arc Starters and Stabilizers



High Frequency Arc Starter/Stabilizer
HF-251D-1
#042 388 115 VAC
HF-251-2
#042 387 230 VAC

These portable 250-amp, 60 percent duty cycle units add high-frequency to the welding circuit to help start arc when using the TIG process.

Secondary Contactor Kit

#041 969 Field For HF-251D-1.
#041 906 Field For HF-251-2.
For power sources without a contactor. Mounts inside HF-251 cabinet.

Kits



#195 055 kit shown.

Contractor Kits

#195 055 150 A TIG/Stick Package with RCCS-14 Fingertip

#195 054 150 A TIG/Stick Package with RFCS-14 HD Foot Pedal

For Maxstar/Dynasty 200 SD and DX. Kit is an all-in-one welding package and comes complete with either a RCCS-14 fingertip control or RFCS-14 HD foot control plus protective carrying case, Weldcraft® 150-amp TIG torch, Dinse-style torch adapter, 200-amp Stick electrode holder with 15-foot (4.6 m) cable, 300-amp work clamp with 15-foot (4.6 m) cable, Smith® flow gauge regulator with 12-foot (3.7 m) gas hose, gas hose coupler, and AK-2 torch accessory kit.



#300 183 kit shown.

Weldcraft® Water-Cooled Torch Kits

#300 185 250 A, WP20

#300 990 280 A, WP280

#300 183 300 A, CS310

#300 186 400 A, WP18SC

For Maxstar/Dynasty 200, 280, 350, and 700, and Syncrowave 250 DX and 350 LX. Each torch kit includes a 25-foot (7.6 m) TIG torch, torch cable cover, work clamp with 15-foot (4.6 m) cable [12-foot (3.7 m) cable on 400-amp kit], Smith® regulator/flowmeter with 12-foot (3.7 m) gas hose, torch adapter, and torch accessory kit. See Lit. No. AD/5.0 for complete individual package details.

Protective Covers



#300 579 and #195 478 covers shown.

#195 321 For Maxstar 200 Series.

#195 322 For Dynasty 200 Series.

#300 059 For Syncrowave 200.

#300 579 For Diversion 165 and 180.

#195 320 For Syncrowave 250/350.

#195 478 For XMT 304 and 350.

Remote Controls



RCC-14 (14-pin plug) #151 086

Side-to-side (east/west) rotary-motion fingertip current/contacter control fastens to TIG torch using two Velcro® straps. Great for production or contractors that need quick ramp-up. Includes 26.5-foot (8 m) cord and plug.



RCCS-6M (6-pin plug)

#195 184 13.25-ft. (4 m) cord

#195 503 26.5-ft. (8 m) cord

For Maxstar 150 STL and STH.

RCCS-14 (14-pin plug)

#043 688 26.5-ft. (8 m) cord

North/south rotary-motion fingertip current/contacter control fastens to TIG torch using two Velcro® straps. Great for applications that require a finer amperage control. Includes cord and plug.



RFCS-6M (6-pin plug)

#195 183 13.25-ft (4 m) cord

#195 504 20-ft (6 m) cord

For Maxstar 150 STL and STH.

RFCS-5 (5-pin plug)

#043 716 20-ft (6 m) cord

RFCS-14 (14-pin plug)

#043 554 20-ft (6 m) cord

Foot pedal current/contacter control.

Includes cord and plug.



RFCS-14 HD (14-pin plug) #194 744

Heavy-duty foot pedal current/contacter control with increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility. Includes 20-foot (6 m) cord and plug.



RFCS-RJ45 #300 432

For Diversion 165 and 180. Foot pedal current/contacter control. Includes 14-foot (4.3 m) cord and plug.



RHC-14* (14-pin plug)

#242 211 020 20-ft. (6 m) cord

#242 211 100 100-ft. (30.5 m) cord

Miniature hand current/contacter control. Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 82 mm). Includes cord and plug.

*Custom lengths available in 5-foot increments up to 50 feet and 10-foot increments up to 100 feet.



RMLS-14 (14-pin plug) #129 337

Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 26.5-foot (8 m) cord and plug.



RMS-6M (6-pin plug) #195 269

For Maxstar 150 STL and STH.

RMS-14 (14-pin plug) #187 208

Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord and plug.



RPBS-14 (14-pin plug) #300 666

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

Wire Feeder Accessories

Control Detachment Kits

#194 914 10 ft. (3 m)
#194 913 25 ft. (7.6 m)
 For all S-74S and S-74D feeders, and S-74DX feeders BEFORE serial number LJ440752U.

#300 560 10 ft. (3 m)
#300 562 25 ft. (7.6 m)
 For S-74DX feeders AFTER serial number LJ440752U.

#300 561 10 ft. (3 m)
#300 563 25 ft. (7.6 m)
 For all D-74S and D-74D feeders, and D-74DX feeders BEFORE serial number LJ440752U.

Kits allow separation of control module from the wire drive assembly and base.

Extension Cables (14-Pin)

8-Conductor Cables*
#242 208 025 25 ft. (7.6 m)
#242 208 050 50 ft. (15 m)
#242 208 080 80 ft. (24.4 m)
 For XR-S and XR-D Controls, 20 Series feeders, and 70 Series (S/D/DX model) 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*
#247 831 025 25 ft. (7.6 m)
#247 831 050 50 ft. (15 m)
#247 831 080 80 ft. (24.4 m)
 For XR-AlumaFeed, MPa Plus feeders, and 60M feeders. 11-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 352 and 450 MPa power source include synergic Pulsed MIG, remote process select and side select capabilities.

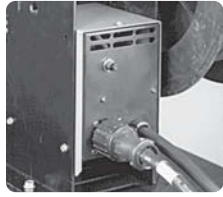
14-Conductor Cables*
#242 205 025 25 ft. (7.6 m)
#242 205 050 50 ft. (15 m)
#242 205 080 80 ft. (24.4 m)
 For HDC and WC-115 weld controls, XR-Controls prior to serial number KK309906, and 50 Series feeders. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

*Custom lengths available in 5-foot increments up to 50 feet and 10-foot increments up to 100 feet.

Extension Hose and Cable Kits

Spoolmatic 15A/30A Extension Hose and Cable Kits
#132 228 25 ft. (7.6 m)
#132 229 50 ft. (15 m)
 Extends leads, etc. between Spoolmatic gun and power source.

Power Supply Adapters



PSA-2 Control #141 604
 Required when using SuitCase 8RC and 12RC, 22A and 24A, and 70 Series wire feeders with power sources having only 115 VAC available. Control can be mounted on wire feeder or positioned at power source and is equipped with a 14-pin receptacle for direct connection of wire feeder control cord. A short cord with a 4-pin plug is hard wired to the control. A 10-foot (3 m) interconnecting cord with a 4-pin for connection to PSA-2 and Hubbell connectors for older-style Miller® CV power sources is included. Control can also be used with competitive power sources requiring a contact closure for contactor control. See below for PSA-2 Extension Cord.

PSA-2 Extension Cord #047 813
 25-foot (7.6 m) cord used to extend the 10-foot (3 m) cord supplied with the PSA-2 control (4-pin to 4-pin connection).

Secondary Contactor

External Secondary Contactor #108 921
 For S-32S and S-32SL feeders. The 115 VAC/12 VDC secondary contactor, rated at 250 amps, 60 percent duty cycle, is designed for use with welding power sources not having an output contactor. It allows welding wire to be electrically cold until operator is ready to weld. The contactor can be used with DC power sources operating with electrode positive or negative. Contactor will operate off 115 VAC or can be connected to 12 VDC battery of an engine driven welder without 115 VAC auxiliary power available. Gun trigger switch controls contactor and must remain closed while welding.

Note: 25-foot Remote Contactor Cord (#108 925) required.

Spool Adapter

#047 141
 For use with 14-pound (6.4 kg) spool of Hobart or Lincoln self-shielding wire.

Spool Gun Controls

For more information see Lit. No. M/1.73.



WC-24 Weld Control #137 549
 Packaged in a compact and lightweight non-metallic enclosure, the WC-24 easily mounts on the power source. Designed for use with Miller CV power sources supplying 24 VAC and 14-pin receptacles, the control includes a board-mounted potentiometer which can alter the arc motor acceleration rate to optimize drive starting performance.



WC-115A Weld Control #137 546
 Without contactor
#137 546-01-1
 With contactor

Operates on 115 VAC, and designed primarily for constant-current DC power sources. Can also be used with constant-voltage power sources or DC engine drives supplying 115 VAC. 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-115 Contactor Kit #137 548 Field
 Recommended for Spoolmatic gun and WC-115A control when using power sources without weld output contactor. (This is installed in the WC-115A.)

Spoolmate 3035 Spool Gun

For more information see Lit. No. M/1.5.



Spoolmate 3035 #195 016
 This reliable, yet economical light industrial spool gun provides 20-foot cable reach and accessibility, with smooth feeding of aluminum wire. Lightweight (9.1 pounds) and well-balanced for operator comfort, the 3035 is rated at 150 amps at 60 percent duty cycle. It handles aluminum, steel and stainless wire from .023-.035 inches (0.6-0.9 mm) with a wire speed of 115-715 IPM. Includes cable sheath, spring strain relief, clear spool canister and easy-to-remove barrel assembly.

Spoolmate 3035 Heavy-Duty Barrel #195 375
 Ideal for demanding applications. Rated at 200 amps, 60 percent duty cycle.

Spoolmate 3035 Extension Kit #194 996 25 ft. (7.6 m)
 Extends hose and cables between Spoolmate gun and power source.

Gas Valve/Trigger Receptacle Kit #300 338
 Required to connect Spoolmate 3035 to Millermatic DVlz.



SGA 100 #043 856
 Required to connect Spoolmate 3035 spool gun to any Millermatic 140, 180, or 211. Also allows connection to virtually any similar MIG welder—Miller or other brands. Includes 10-foot (3 m) 115 VAC power cable and plug, 6-foot (1.8 m) interconnecting cable, and 5-foot (1.5 m) gas hose.

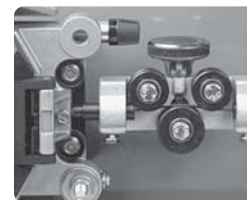


SGA 100C #043 857
 SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like the Miller Bobcat. Includes 10-foot (3 m) 115 VAC power cable and plug, 6-foot (1.8 m) interconnecting cable, and 5-foot (1.5 m) gas hose.

Turntable Assembly

#146 236
 Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

Wire Straightener



For 20 Series and 70 Series.
#141 580
 For .035-.045 inch (0.9-1.1 mm) wire.
#141 581
 For 1/16-1/8 inch (1.6-3.2 mm) wire.

MILLER



RECOMMENDED BRANDS

Countless Capabilities. Expert Advice. Integrated Offerings.

Get more choices and improve your welding productivity with ITW Welding North America brands.

Miller and other brands within ITW Welding North America work together to provide a breadth of solutions that encompass welding, cutting, consumables and accessories.

Together, we're serving more industries, applications and end-users, in more global locations than ever before. These ITW Welding North America businesses share a common passion for excellence through innovation, customer service and reliability.

HOBART BROTHERS



Since 1937, Hobart Brothers has been developing and manufacturing premium filler metals, including stick electrodes, solid wires and tubular (flux-cored and metal-cored) wires. Marketed under four brands—Hobart®, McKay®, Tri-Mark® and Corex®—these filler metals have become synonymous with excellence, innovation and performance across the manufacturing, fabricating, construction and pipeline industries... and more.

Each filler metal from Hobart Brothers has been developed with productivity, quality and cost savings in mind. From filler metals that help reduce cracking and minimize cleanup to specialty wires with unique chemical and mechanical properties, customers can always find the right product for their application—no matter how challenging. Plus, Hobart Brothers has a dedicated team of experts available to provide technical support and product advice that can help improve welding performance.

HOBART®

McKAY®

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Bernard is a leading manufacturer of premium GMAW (MIG) and FCAW (Flux-Cored) welding guns, consumables, accessories and manual arc products. For more than 60 years, Bernard has been an innovator in heavy-duty MIG welding and a contributor to improving welding productivity by providing such products as its popular Q-Gun™ MIG Gun and Centerfire™ Series consumables.

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Smith Equipment manufactures premium quality torches, tips and gas regulators designed for cutting, welding, heating and brazing applications. The company has made it a goal to improve its products continually in order to best satisfy its customers needs, deliver on-time, defect-free products and provide excellent customer support. Plus, the company's torches feature a lifetime warranty, making them a reliable, long-term option for customers.

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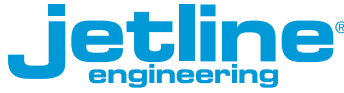
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Contact Information:
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