



2011

FULL-LINE CATALOG



THE POWER OF **BLUE**®

1-800-4-A-Miller MillerWelds.com



MORE POWER TO YOU

Miller recognizes that **The Power of Blue®** is not only in our products, services, and offerings—it's in you. Because you expect quality products, count on industry experience, and require responsive support, you push us to find innovative solutions to your biggest welding challenges.

The Power of Blue is all about you. You can maximize your productivity with reliable, easy-to-use, innovative Miller equipment that reduces downtime and increases efficiency. You can expand your capabilities with Miller products that are proven in the world's toughest applications under the most extreme conditions. And you can grow your business with a total welding solution from Miller. You have the power — **The Power of Blue.**



Enjoy the catalog! To see list prices or find your local distributor, go to our Web site MillerWelds.com

or give us a call at **1-800-4-A-MILLER**
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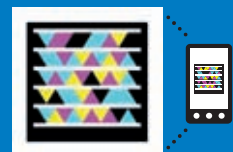
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1 FIND A TAG

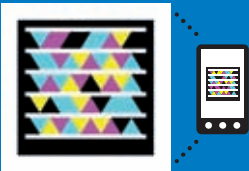
Look for tags throughout the catalog near products of interest.



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2 SCAN A TAG

Open your 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.



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 (FCAW)

- 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 a 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% 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% 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% 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% 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% 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's 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's 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.



Millermatic 140 Auto-Set See Literature No. BC12.42

Welding Capability

Material	Min. -- 24 ga. (0.8 mm)	Max. -- 3/16 in. (4.8 mm)
Mild Steel		
Aluminum	Min. -- 18 ga. (1.2 mm)	Max. -- 1/4 in. (3.2 mm)

Auto-Set feature makes set up quick and easy. On the Millermatic 140, Auto-Set works with .024 and .030 in diameter solid steel wire (for more info see pg 7).

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

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

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

Heavy-duty aluminum drive system (for more info see pg 7). Uses 4 or 8 in (102 or 253 mm) spools.

Recommended aluminum solution: Spawcote 100 Series (#300 301).

Process: MIG (GMAW) • Flux Cored (FCM)

Cones Complete With

- 10 ft (3 m) 6A-100 MIG gun and cable assembly (#F02 202)
- 10 ft (3 m) work cable with clamp
- Factory-installed gas solenoid valve
- Smooth® regulator and gas flow
- 4 ft (1.2 m) power cord with plug
- Dual-groove quick-change drive rolls for .024 in (0.6 mm) or .030 (3.0) in (0.8 mm) wire
- Extra contact tips, RedHot® speed of solid wire, information/settings chart, self-regulation CD and material thickness gauge (#229 395)

Most Popular Accessories

- Spawcote® 100 Series (#300 301) (pg 27)
- Running Gear/Cylinder Rack (pg 88)
- Stand (#300 425)
- Premium (#710 187)
- Protective Cover (#135 149) (pg 91)

See your Miller distributor at MillerWelds.com for other popular Miller systems and accessories.

Stock Number	Average Range	Rated Output at 20% Duty Cycle	Amps Input at Rated Output, 60 Hz	Wire Feed Speed	Wire Type and Diameter	Diameter*	Net Weight†
#M17 110 0	30-140	90 A @ 100°C	20 2.8 3.4	15-200 fpm	Solid Wire .024-.030 in (0.6-0.8 mm)	10 1/4 in (265 mm)	20 lb
#M17 110 0 with 502 Running Gear/C. Rack	30 A @ 21 100°C	10	2.7 4.8	(0.4-0.9 mm/min)	Spoolless .024-.030 in (0.6-0.8 mm)	10 1/4 in (265 mm)	27 lb

*Dimensions and net weight are for machine only.

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



MORE on the WEB

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® Passport® Plus	9	●	●	●		Handle		30-180 A	Welds on 115 or 230 V input, includes 12 oz gas cylinder inside power source	Up to 3/8 in*** maintenance/repair, fabrication, auto body, farm/home, construction	
	Millermatic® 211 Auto-Set™ w/MVP™	9	●	●	●		Handle, optional running gear		30-210 A	Welds on 120 or 230 V input, Auto-Set™, Smooth-Start™	Up to 3/8 in*** maintenance/repair, auto body, hobby	
	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	11	●	●	●				30-300 A	Standard timers menu, Fan-On-Demand™, can connect standard MIG or push-pull gun	Up to 1/2 in*** industrial production/fabrication, farm	
1 & 3-Phase	Millermatic® 350P	12	●	●	●		Installed running gear	Steel, stainless, aluminum	25-400 A	Can connect a standard MIG gun or push-pull 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	5-425 A 10-38 V	Profile Pulse, lightweight feeder can be carried up to 100 ft from power source	Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding	
	Invision™ MPa Plus System	18	●	●	●	●	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	50	●	See the Multiprocess section on page 48.								
3-Phase	CP-302	16	●	●	●		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	16	●	●	●				10-45 V	Material-specific output terminals	Light to medium fabrication, manufacturing	
	Deltaweld® 302	17	●	●	●				15-32 V	Power efficient, material-specific output terminals	Equip/auto mfg, metal fab, construction, agri equipment	
	Deltaweld® 452	17	●	●	●	1/4"			15-38 V	Power efficient, material-specific output terminals	Equip/auto mfg, metal fab, construction, agri equipment	
	Deltaweld® 652	17	●	●	●	3/8"			15-44 V	Power efficient, material-specific output terminals	Equip/auto mfg, metal fab, construction, agri equipment	
	Invision™ 456MP	19	●	●	●	1/4"	Handles, optional cart		10-38 V	Pulsing made easy	Metal fabrication, manufacturing	
	Invision™ 456P	19	●	●	●	1/4"	MIGRunner		10-38 V	600 A max output, power efficient	Industrial production, manufacturing	
	Access® 300	20	●	●	●		Optional cart, MIGRunner		10-44 V	Auto-Line™, Accu-Pulse™	Manufacturing and production	
	Access® 450	20	●	●	●	1/4"			10-44 V	Auto-Line™, Accu-Pulse™	Manufacturing and production	
	Access® 675	20	●	●	●	3/8"			10-44 V	Auto-Line™, Accu-Pulse™	Manufacturing and production	
	Dimension™ Series	49	See the Multiprocess section on page 48.									
PipeWorx™ System	54	See the PipeWorx Welding System on page 54.										

PRODUCT KEY

CLASS: ● Light Industrial ● Industrial ● Heavy Industrial CAPABILITY: ● Designed for this process ● Capable of this process
 *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 specification sheets.



Miller[®]matic Series

Whether it's thick steel or thin aluminum, conventional MIG or Pulsed MIG, the Miller[®]matic 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 Miller[®]matic features.**

Get the free mobile app at <http://gettag.mobi>
See page 2/3 for more information.

Auto-Set™

Available on Miller[®]matic 140, 180, 211, 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 Miller[®]matic 140 Auto-Set and a Spoolmate 100 Series spool gun or a Miller[®]matic 350P with an Aluma-Pro push-pull gun, the entire Miller[®]matic product line now offers an aluminum solution for your application.

Material thickness gauge.

To help select parameters every Miller[®]matic that features Auto-Set now comes with a material thickness gauge.



Aluminum drive systems. Every Miller[®]matic 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 Miller[®]matic is now equipped with built-in thermal overload protection... not that you'll need it.

Set-up and operation CD. Miller makes it easy to get started. Every Miller[®]matic 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 Miller[®]matic... 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

Miller[®]matic Product Selector

Machine	Thickness of Steel Welded in a Single Pass					Features
	Thin Gauge	3/16 in	1/4 in	5/16 in	3/8 in	
Miller [®] matic 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 • Miller[®]matic Reach Wire Feeder Compatible
Miller [®] matic 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 • Miller[®]matic Reach Wire Feeder Compatible
Miller [®] matic 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 • Miller[®]matic Reach Wire Feeder Compatible
Miller [®] matic 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 • Dual Voltage Input • Auto-Set™ • Spool Gun Ready
Miller [®] matic 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 • Auto-Line™ • Spool Gun Ready • 45 lb
Miller [®] matic 180 Auto-Set™	230 VAC 135 A at 30% Duty Cycle					<ul style="list-style-type: none"> • Auto-Set™ • Spool Gun Compatible
Miller [®] matic 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™

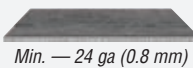
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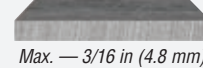
Welding Capability
Not to scale.



Mild Steel



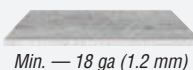
Min. — 24 ga (0.8 mm)



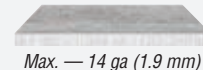
Max. — 3/16 in (4.8 mm)

Aluminum

w/Spoolmate 100
Series Spool Gun



Min. — 18 ga (1.2 mm)



Max. — 14 ga (1.9 mm)

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

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

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

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

Heavy-duty aluminum drive system (for more info see pg 7).
Uses 4 or 8 in (102 or 203 mm) spools.

Recommended aluminum solution:
Spoolmate 100 Series (#300 371).

*Dimensions and net weight are for machine only.

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
- Factory-installed gas solenoid valve
- Smith® regulator and gas hose
- 6 ft (1.8 m) power cord with plug
- 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, Hobart® spool of solid wire, information/settings chart, set-up/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Spoolmate™ 100 Series #300 371 (pg 27)
- Running Gear/Cylinder Rack (pg 88) Standard #300 425 Premium #770 187
- Protective Cover #195 149 (pg 91)

See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

Stock Number	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*
			115 V	KVA	KW				
#907 335 V #951 373) 115 V with Std. Running Gear/Cyl. Rack	30–140	90 A at 18 VDC	20	2.8	2.4	15–390 IPM (0.4–9.9 m/min)	Solid Steel .024–.030 in (0.6–0.8 mm)	H: 15¾ in (400 mm) W: 10⅞ in (270 mm) D: 17½ in (445 mm)	60 lb (27 kg)
		63 A at 21 VDC	15	2.1	1.8		Stainless .024–.030 in (0.6–0.8 mm)		
							Flux Cored .030–.035 in (0.8–0.9 mm)		

Millermatic® 180 Auto-Set™

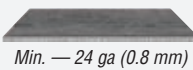
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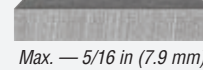
Welding Capability
Not to scale.



Mild Steel



Min. — 24 ga (0.8 mm)



Max. — 5/16 in (7.9 mm)

Aluminum

w/Spoolmate 100
Series Spool Gun



Min. — 18 ga (1.2 mm)



Max. — 1/4 in (6.4 mm)

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

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

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

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

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

Heavy-duty aluminum drive system (for more info see pg 7).
Uses 4 or 8 in (102 or 203 mm) spools.

Recommended aluminum solution:
Spoolmate 100 Series (#300 371).

*Dimensions and net weight are for machine only.

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
- Factory-installed gas solenoid valve
- Smith® regulator and gas hose
- 6 ft (1.8 m) power cord with plug
- 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, Hobart® spool of solid wire, information/settings chart, set-up/operation CD and material thickness gauge (#229 895)

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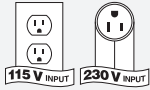
See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

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)	H: 15¾ in (400 mm) W: 10⅞ in (270 mm) D: 17½ in (445 mm)	72 lb (33 kg)
							Stainless .024–.035 in (0.6–0.9 mm)		
							Flux Cored .030–.045 in (0.8–1.2 mm)		



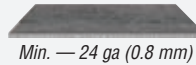
Millermatic® Passport® Plus

See Literature
No. DC/12.53



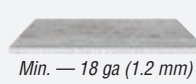
Welding Capability
Not to scale.

Mild Steel



Aluminum

w/Spoolmate 100
Series Spool Gun



Portability is #1 because not all jobs can come to you. Weighing only 45 lb and running either 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 ft of weld on 3/16 in thick material with .030 in 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.

Recommended aluminum solution:
Spoolmate 100 Series (#300 371).



Light Industrial ● CV DC 1
Phase

Processes

• MIG (GMAW) • Flux Cored (FCAW)

Comes Complete With

- 10 ft (3 m) power cord and MVP™ adapter plugs for 115 and 230 V
- 10 ft (3 m) M-100 MIG gun and cable assembly #248 282
- 10 ft (3 m) work cable with clamp
- 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 27)
- MVP™ Plugs (pg 93)
- CO₂ Gas Cylinder (empty) #195 272

See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

Stock Number (#907 401) 115/230 VAC	Input Power	Amperage Range	Rated Output at 20% Duty Cycle	Amps Input at Rated Output, 50/60 Hz		Wire Feed Speed (1.0–10 m/min)	Wire Type and Diameter	Dimensions	Net Weight
	115 V	230 V	KVA	KW					
	115 VAC	30–140	110 A at 19.5 V	20	—	2.7	2.7	H: 15½ in (394 mm) W: 12 in (305 mm) D: 20½ in (520 mm)	45 lb (20.4 kg)
	230 VAC	30–180	150 A at 21.5 V	—	18	4.0	3.8		

Millermatic® 211 Auto-Set™ with MVP™

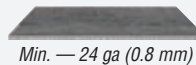
See Literature No. DC/12.54



Recommended aluminum solution:
Spoolmate 100 Series (#300 371).

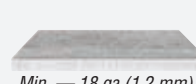
Welding Capability
Not to scale.

Mild Steel



Aluminum

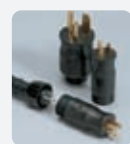
w/Spoolmate 100
Series Spool Gun



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

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

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



Multi-voltage plug (MVP™) allows connection to 120 or 230 V receptacles without tools.

“Tip saver” shuts down output if tip is shorted to work. Extends contact tip life and protects internal components from damage.

Smooth-Start™ technology provides smooth, spatter-free starts.

Light Industrial ● CV DC 1
Phase

Processes

• MIG (GMAW) • Flux Cored (FCAW)

Comes Complete With

- 6 ft (1.8 m) power cord and MVP™ adapter plugs for 115 and 230 V
- 10 ft (3 m) M-100 MIG gun and cable assembly #248 282
- 10 ft (3 m) work cable with clamp
- 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, Hobart® spool of solid wire, information/settings chart, set-up/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Spoolmate™ 100 Series #300 371 (pg 27)
- Running Gear/Cylinder Rack (pg 88) Standard #300 425 Premium #770 187
- Protective Cover #195 149 (pg 91)

See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

*Dimensions and net weight are for machine only.

Stock Number (#907 422) 120/230 V (#951 375) 120/230 V with Standard Running Gear/Cylinder Rack	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz		Wire Feed Speed (1.5–13.7 m/min)	Wire Type and Diameter	Dimensions*	Net Weight*
	120 V	230 V	KVA	KW					
	120 VAC	30–140	90 A at 20 V at 20% Duty Cycle	20	—	2.9	2.5	H: 15¾ in (400 mm) W: 10½ in (270 mm) D: 17½ 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		



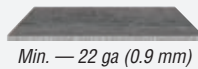
Millermatic® 212 Auto-Set™

See Literature
No. DC/12.46

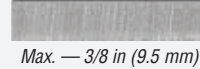


Welding Capability
Not to scale.

Mild Steel



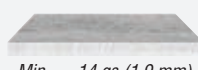
Min. — 22 ga (0.9 mm)



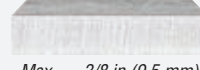
Max. — 3/8 in (9.5 mm)

Aluminum

w/Spoolmate 200
Series Spool Gun



Min. — 14 ga (1.9 mm)



Max. — 3/8 in (9.5 mm)



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

Recommended aluminum solution:
Spoolmate 200 Series (#300 497).

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
- Smith® argon mix regulator/flow gauge w/hose
- 7 ft (2.1 m) power cord and plug
- Factory-installed running gear/cylinder rack
- .030/.035 in reversible dual groove drive rolls
- Extra contact tips, set-up/operation CD and material thickness gauge (#229 895)

Most Popular Accessories

- Millermatic® Reach Wire Feeder #907 438 (see below)
- Spoolmate™ 200 Series Spool Gun for aluminum welding #300 497 (pg 27)
- Dual EZ Cyl. Rack #300 337 (pg 88)
- Elevated Gun and Cable Rack #300 335 (pg 88)
- Protective Cover #195 142 (pg 91)

See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

Stock Number (#907 405) 200(208)/230 V (#951 177) 200(208)/230 V with Spoolmate 200 Series, Dual Cylinder Rack, Regulator and Gas Hose	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz				Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight
	30–210	160 A at 24.5 VDC, 60% Duty Cycle	31	28	6.2	5.5				

Millermatic® Reach Wire Feeder

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.

Use as a dual feeder option! Keep one wire in the machine and a different wire in the feeder. No more downtime changing spools and drive rolls.

Polypropylene case with built-in slide rails gives you the ability to easily change wire when in vertical position. Holds a 12 in spool of wire.

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

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

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 Millermatic 350P

Suggested Power Sources

- Millermatic® 212 Auto-Set™ (see above)
- Millermatic® 251 (discontinued product)
- Millermatic® 252 (pg 11)
- Millermatic® 350P (pg 12)

Suggested Guns

- MIGmatic™ M-25 (GMAW) (pg 92)
- Bernard® Q300 (GMAW)

Most Popular Accessories

- Running Gear/Cylinder Rack (pg 88)
Standard #300 425
Premium #770 187

See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

Stock Number (#907 438) 25 ft (7.6 m) Cable Assembly	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter	Maximum Spool Size Capacity	Dimensions	Net Weight with 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: 15½ in (394 mm) W: 9 in (229 mm) D: 21 in (533 mm)	48 lb (21.8 kg)

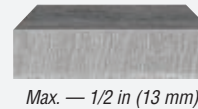
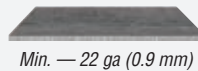


Millermatic® 252

See Literature No. DC/12.49

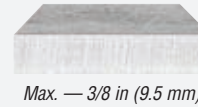
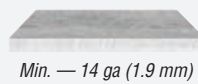
Welding Capability
Not to scale.

Mild Steel



Aluminum

w/Spoolmatic 15A
or 30A Spool Gun



Recommended aluminum solution:
Spoolmatic 15A (#195 156)
or 30A (#130 831).

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, easier switching between MIG, push-pull and spool guns.

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

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

15 ft (4.5 m) M-25 MIG gun features durable one-piece handle, unicable outer jacket, trigger rated for one million cycles, and steel spring coils protecting cable ends.

Industrial **CV DC 1**
Phase

Processes

• MIG (GMAW) • Flux Cored (FCAW)

Comes Complete With

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

Most Popular Accessories

- Millermatic® Reach Wire Feeder #907 438 (pg 10)
- XR™-A Push-Pull Guns (see below/pg 28/29)
- Spoolmate™ 200 Series Spool Gun for aluminum welding #300 497 (pg 27)
- Spoolmatic® 15A Spool Gun for aluminum welding #195 156 (pg 28)
- Spoolmatic® 30A Spool Gun for aluminum welding #130 831 (pg 28)
- Dual EZ-Change™ Low Cylinder Rack #300 337 (pg 88)
- Elevated Gun and Cable Rack #300 335 (pg 88)
- Protective Cover #195 142 (pg 91)
- MIG Consumable Kit (pg 92)

See your Miller distributor or MillerWelds.com for other popular 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
			200 V	230 V	460 V	575 V	KVA	KW				
(#907 321) 200(208)/230 V (#907 322) 230/460/575 V (#951 066*) 200(208)/230 V w/Spoolmatic 30A (#951 065*) 230/460/575 V w/Spoolmatic 30A	30–300	200 A at 28 VDC, 60% Duty Cycle 250 A at 28 VDC, 40% Duty Cycle	48	42	21	17	10	7.7	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)	207 lb (94 kg)

*Comes complete with Dual Cylinder Rack, Regulator and Gas Hose.

Featured Accessories



Wire Feeder Designed for Millermetics
Millermatic Reach (see page 10)
#907 438 25 ft (7.6 m) cable assembly
Extend your Millermatic work area up to 40 feet! No more moving the machine and pulling primary power cables around the shop. Or use as a dual feeder option! No more downtime changing spools and drive rolls. For use with Millermatic 212 Auto-Set, 251, 252 and 350P.
Note: For use with MIG guns only (sold separately).

Optional XR™-A Push-Pull Guns



Direct connect to Millermatic 252 and 350P.
Allows usage of 12 in rolls of aluminum reducing downtime from changing 1 lb 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



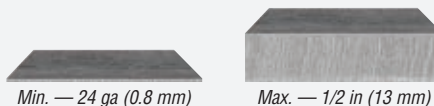
Millermatic® 350P

See Literature No. DC/12.51

Welding Capability
Not to scale.

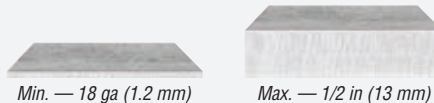


Mild Steel



Aluminum

w/Aluma-Pro
Push-Pull Gun



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

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

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.

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.

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

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

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

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
- Factory-installed gas solenoid
- Smith® argon mix regulator/flow gauge with hose
- 10 ft (3 m) industrial power cord (without plug) for single- or three-phase
- 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
- Set-up and operation CD

Most Popular Accessories

- Millermatic® Reach Wire Feeder #907 438 (pg 10)
- XR™-A Push-Pull Guns (pg 11/28/29)
- Spoolmatic® 15A Spool Gun for aluminum welding #195 156 (pg 28)
- Spoolmatic® 30A Spool Gun for aluminum welding #130 831 (pg 28)
- Dual Cylinder Rack #195 299 (pg 88)
- Protective Cover #195 142 (pg 91)

See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

Recommended aluminum solution:
XR-Aluma-Pro push-pull gun (see pages 11 and 29).
See Aluminum Solutions comparison chart on page 14.



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	575 V	KVA	KW				
Millermatic 350P (#907 300) 200/230/460 V	Three-Phase	25–400	300 A at 32 VDC, 60% Duty Cycle	34	30	15	12	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-Core .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	24	13.1	11.2				
Millermatic 350P/Aluma-Pro System (see below for contents) (#907 379) 200/230/460 V													

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 ft XR-Aluma-Pro™ push-pull gun. Allows usage of 12 inch rolls of aluminum.

Note: MIG gun not included (sold separately).

Miller recommends
MAXAL
aluminum wire
(see pg 100).



Wire Feeder Designed for Millermetics

Millermatic Reach (see page 10)

#907 438 25 ft (7.6 m) cable assembly
Extend your Millermatic work area up to 40 feet! No more moving the machine and pulling primary power cables around the shop. Or use as a dual feeder option! No more downtime changing spools and drive rolls. For use with Millermatic 212 Auto-Set, 251, 252 and 350P.

Note: For use with MIG guns only (sold separately).



AlumaFeed™ Synergic Aluminum Welding System

See Literature No. DC/34

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



Miller recommends
MAXAL
aluminum wire
(see pg 100).

AlumaFeed Synergic Aluminum Welding System with 25 ft XR-Aluma-Pro gun 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.



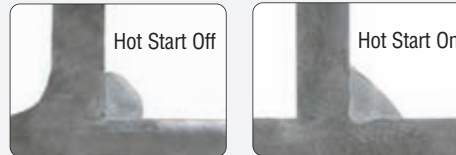
Synergic Pulsed MIG provides communication between the power source, feeder and gun. As wire speed increases/decreases, the pulse parameters also increase/decrease to match the right amount of power needed.

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 14.

**More system packages are available—see our Web site or your local distributor. Packages include gun and feeder drive rolls and consumables to run .035–3/64 in (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 pre- and post-flow 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.



Allows for **any** input voltage hookup (208–575 V) with no manual linking.

Optional MIGRunner packages available—AlumaFeed MIGRunner (#951 151) shown.



Heavy Industrial

CV DC 3 1
Phase Phase

Processes

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

Comes Complete With

- XR-AlumaFeed push-pull feeder
- AlumaPower 350 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, 3/64 (1.2 mm) installed

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 Connector (see contents below)

Most Popular Accessories

- MIGRunner™ Cart #195 445 (pg 88) Easily maneuverable with small footprint and a cylinder rack low enough that you do not have to lift bottles.



- **Industrial MIG 4/0 Kit with Dinse Connector #300 405** (pg 91) 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.
- **Extension Cables** (pg 96)
 - 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 #230 708

See your Miller distributor for other popular Miller options and accessories.

Model	Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Wire Feeder Dimensions	Wire Feeder Net Weight					
AlumaFeed Synergic Aluminum Welding System*	(#951 147) w/25-ft, air-cooled XR-Aluma-Pro gun (#951 148) w/25-ft, water-cooled XR-Aluma-Pro gun (#951 149) w/30-ft, air-cooled XR-Pistol Grip gun (#951 150) w/30-ft, water-cooled XR-Pistol Grip gun (#951 151) MIGRunner w/25-ft air-cooled Aluma-Pro (#951 152) MIGRunner w/25-ft water-cooled Aluma-Pro	24 VAC, 5 A, 50/60 Hz	400 A at 100% Duty Cycle System duty cycle is limited to gun rating.	70–780 IPM (1.8–22.2 m/min)	.035–.062 in (0.9–1.6 mm) Wire kit #230 708 required to run 1/16 in (1.6 mm) wire.	12 in (305 mm)	H: 16 in (406 mm) W: 9½ in (241 mm) D: 21¼ in (540 mm)	42.5 lb (19.2 kg)					
XR-AlumaFeed Wire Feeder only	(#300 509) <i>Note: Feeder is 14-pin compliant, but only operates synergically with an MPa power source.</i>												
Model	Stock Number	Input Power	Amperage/Voltage Ranges	Rated Output at 60% Duty Cycle	Amps Input at Rated Load Output, 60 Hz			Dimensions	Net Weight				
AlumaPower 350 MPa Power Source only	(#907 420) <i>Note: Power source is MIG and Pulsed MIG aluminum-only machine.</i>	Three-Phase	CC Mode: 5–425 A CV Mode: 10–38 V	350 A at 34 VDC	40.4	36.1	20.6	17.8	14.1	14.2	13.6	H: 17 in (432 mm) W: 12½ 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	60.8	54.6	29.7	24.5	19.9	11.7	11.2		



Choose the Right Industrial Aluminum MIG Solution



Millermatic 350P Aluminum System shown with XR-Aluma-Pro gun (pg 12).



AlumaFeed Synergic Aluminum System shown with XR-Aluma-Pro gun (pg 13).



Invision MPa Plus System shown with dual feeder Stationary Package (pg 18).

Miller recommends
MAXAL
aluminum wire
(see pg 100).

	Millermatic® 350P	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-in 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 ft 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	Invision 352 MPa
Feeder	All-In-One — add optional Millermatic Reach to create dual-wire feeder (pg 10)	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	1- or 3-Phase	1- or 3-Phase	1- or 3-Phase
Rated Output	300 A at 60% Duty Cycle	350 A at 60% Duty Cycle	350 A at 60% 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.	Auto-Line™ — Allows for any primary input voltage (208 – 575 V, single- or three-phase, 50 or 60 hertz) with no manual linking. Also adjust for voltage spikes within the entire range.	Auto-Line™ — Allows for any primary input voltage (208 – 575 V, single- or three-phase, 50 or 60 hertz) with no manual linking. Also adjust for voltage spikes within the entire range.
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	—



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 16)	Delta-Fab™ (Pg 16)	Deltaweld® 302 (Pg 17)	Invision™ 352 MPa (Pg 18)	Access® 300 (Pg 20)	Deltaweld® 452 (Pg 17)	Invision™ 456P/MP (Pg 19)	Access® 450 (Pg 20)	Deltaweld® 652 (Pg 17)	Access® 675 (Pg 20)
Material	Mild Steel	●	●	●	●	●	●	●	●	●	●
	Stainless Steel	◎	◎	◎	●	●	◎	●	◎	●	●
	Aluminum		◎	◎	●	●	◎	●	◎	●	●
Material Thickness	Gauge (.020 – .125)	●	●	●	●	●	◎	●	●	◎	●
	Sheet (.125 – .375)	●	●	●	●	●	●	●	●	●	●
	Plate (.375 – 1 in)	◎	●	◎	◎	◎	●	●	●	●	●
	Plate (1+ in)						◎	◎	●	●	●
Wire Size	.030	●	●	●	●		◎	●			
	.035	●	●	●	●	●	●	●	●	●	●
	.045	◎	●	◎	◎	◎	●	●	●	●	●
	.052	◎	●	◎	◎	◎	●	●	●	●	●
	1/16	◎	◎	◎	◎		●	●	●	●	●
	5/64						●	●	●	●	●
	3/32						◎	◎	◎	●	●
Process	Short Circuit	★★★★	★★	★★	★★★★★	★★★★★	★★	★★★★★	★★★★★	★★	★★★★★
	Pulsed Spray				★★★★★	★★★★★		★	★★★★★		★★★★★
	Accu-Pulse®					★★★★★			★★★★★		★★★★★
	RMD™					Optional ★★★★★			Optional ★★★★★		Optional ★★★★★
	CAC-A				1/4"		1/4"	5/16"	1/4"	3/8"	3/8"

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

See Literature No. DC/13.0

Delivers dependable performance and productivity in more semiautomatic applications. Combined with 22A wire feeder it makes this a “Good!” light to medium industrial solution.



Machine only

Stationary Package

MIGRunner™ Package

Build your own system at MillerWelds.com/equiptoweld (see pg 19) or see package options below.



Adjustable weld stabilizer (high-low inductance) provides the flexibility to produce the optimal arc characteristics.

Solid-state weld contactor provides longevity to match the ultra-durable and reliable reputation of the CP Series.

Presetable welding voltage allows you to easily set weld output before welding.

Power efficiency gives exceptional value and return on your investment.

Large analog voltmeter and ammeter for easy viewing.

Industrial ● **CV DC 3** Phase

Processes

- MIG (GMAW) • Flux Cored (FCAW)

Most Popular Accessories

- 22A and 24A Wire Feeders (pg 30)
- 70 Series Wire Feeders (pg 30)
- Standard Running Gear #042 886 (pg 88)
- Standard Cylinder Rack #042 887 (pg 88)



- **Industrial MIG 4/0 Kit #300 390** (pg 91)
 - Bernard® and Tregaskiss™ MIG Guns
- When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.*

*Dimensions and weight are for power source only — includes lift eye and strain relief.

Stock Number	Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz					Open-Circuit Voltage	Dimensions*	Net Weight*	
			200 V	230 V	460 V	575	KVA				KW
#903 786) 200/230/460 V, Machine only #903 521) 575 V, Machine only #951 231) 200/230/460 V, Stationary Pkg #951 230) 200/230/460 V, MIGRunner Pkg	14 – 44 V	300 A at 32 V, 100% Duty Cycle	38	33	16.5	13	13.1	12.3	14–44	H: 30 in (762 mm) W: 23 in (585 mm) D: 30½ in (775 mm)	332 lb (151 kg)

Delta-Fab™ System

See Literature No. DC/15

375 amps, excellent arc performance, and a 24A wire feeder with remote voltage control make this a “Better!” system solution for light and medium industrial applications.



Power Source/
Feeder/Gun

Stationary
Package

MIGRunner™ Package



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

Solid-state weld contactor provides longevity to match the ultra-durable and reliable reputation of the Delta-Fab.

Line voltage compensation keeps welding parameters constant even when input voltages change ±10%. Eliminates need to change welding parameters throughout the day.

Thermal overload protection automatically shuts down the system to prevent high repair costs.

Large analog volt and ammeters for easy viewing.

115 VAC duplex receptacle provides 15 amps of auxiliary power.

Auto Remote Sense™ automatically selects remote control requirements through the 14-pin receptacle. Eliminates switches and confusion for the operator.

Remote voltage control is standard. Parameter adjustments can be made in weld cell or at a remote location.

Industrial ● **CV DC 3** Phase

Processes

- MIG (GMAW) • Flux Cored (FCAW)

Most Popular Accessories

- Standard Running Gear #042 886 (pg 88)
- Standard Cylinder Rack #042 887 (pg 88)



- **Industrial MIG 4/0 Kit #300 390** (pg 91)
 - Extension Cables (pg 96)
 - Bernard® and Tregaskiss™ MIG Guns
- When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.*

*Dimensions and weight are for power source only — includes lift eye and strain relief.

Model/Stock Number	Voltage Range	Rated Output	Amps Input at Rated Load Output, 60 Hz, 3-Phase					Dimensions*	Net Weight*
			230 V	460 V	575 V	KVA	KW		
Delta-Fab System (#951 304) 230/460/575 V, Pwr Source, Feeder and Gun Delta-Fab System (#951 233) 230/460/575 V, Stationary Pkg Delta-Fab System (#951 232) 230/460/575 V, MIGRunner Pkg	10–45	375 A at 35 VDC, 100% Duty Cycle	69	34.5	27.5	27.5	17.5	H: 30 in (762 mm) W: 23 in (585 mm) D: 30½ in (775 mm)	374 lb (180 kg)

Wire Feeder	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
24A (Includes .035/.045 drive rolls)	24 VAC, 7 A, 50/60 Hz	75–750 IPM (1.9–19 m/min)	.023–3/32 in (0.6–2.4 mm)	60 lb (27 kg) coil	H: 11 in (279 mm) W: 10¾ in (273 mm) D: 23½ in (597 mm)	40 lb (18 kg)



Deltaweld® Series

See Literature No. DC/16.2

Rock solid reliability, exceptional value and power efficient operation make this the “Better!” MIG solution for the most demanding industrial manufacturing applications. Combined with the 70 Series wire feeder this system is the workhorse of the industrial market.

Build your own system at
MillerWelds.com/equiptoweld
(see pg 19) or see package
options below.



Deltaweld (see stock numbers below)
Build your own system at
MillerWelds.com/equiptoweld.



Deltaweld Stationary Package (see stock numbers below)
Stationary display without running gear/cylinder rack.

Comes complete with:

- Deltaweld power source
- S-74D wire feeder with drive rolls
- Bernard® Q-Gun™
- Industrial MIG 4/0 Kit (see listing at right for kit contents)



Deltaweld MIGRunner™ Package (see stock numbers below)
MIGRunner system with factory-installed running gear/
cylinder rack.

- Comes complete with everything in Stationary Package plus:
- Factory-installed running gear/cylinder rack

*Dimensions and weight are for power source only — includes lift eye and strain relief.

Industrial ● 302 model
Hvy Industrial ● 452/652 models



Processes

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

Most Popular Accessories

- 70 Series Wire Feeders (pg 30)
- Standard Running Gear #042 886 (pg 88)
- Standard Cylinder Rack #042 887 (pg 88)



- **Industrial MIG 4/0 Kit #300 390** (pg 91)
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.
- Remote On/Off Control #242 197 025 (pg 94)
- Extension Cables (pg 96)
- Air Filter Kit #042 939
- Bernard® and Tregaskiss™ MIG Guns

When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.

Model	Stock Number	Voltage Range	Recommended Welding 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			
Deltaweld 302	(#903 376) 200-208/230/460 V, Machine only	10–32	15–32 V	300 A at 32 VDC, 100% Duty Cycle	48	42	21	17	16.9	12.9	42 VDC	H: 30 in (762 mm) W: 23 in (585 mm) D: 30½ 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												
Deltaweld 452	(#903 377) 200-208/230/460 V, Machine only	10–38	15–38 V	450 A at 38 VDC, 100% Duty Cycle	72	63	32	25	25.1	21.1	48 VDC	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												
Deltaweld 652	(#903 396) 230/460/575 V, Machine only	10–44	15–44 V	650 A at 44 VDC, 100% Duty Cycle	—	96	48	38	38.2	34.2	54 VDC	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												



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

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

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

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

AUTOLINE™ Allows for **any** input voltage hookup (208–575 V) with no manual linking.

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.

Build your own system at MillerWelds.com/equiptoweld (see pg 19) or see package options below.



Invision 352 MPa
(see stock numbers below)
Build your own system at MillerWelds.com/equiptoweld.



Air-cooled package with single feeder shown.



Invision MPa Plus Stationary Package
(see stock numbers below)
Stationary display without running gear/cylinder rack.

- Comes complete with:
- Invision 352 MPa power source 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 (2 included w/dual feeder pkgs)
 - Industrial MIG 4/0 Kit with Dinse Connector (see page 86 for kit contents)
 - Coolmate™ 3 for single feeders **or** Coolmate™ V3 for dual feeders (water-cooled packages only)

*Note: See Aluminum Solutions comparison chart on page 14. *Additional packages are available, see our Web site or literature sheets. **Duty cycle rating below achieved with 6 gauge input power cord (8 gauge cord supplied with unit). ***Dimensions/weight for power source only.*

Optimized arc control from start to finish is achieved using communication between Invision 352 MPa power source and 74 MPa Plus feeder.

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.

Profile Pulse™ provides TIG appearance with MIG simplicity and productivity. Achieve “stacked dimes” without gun manipulation.



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



Miller recommends **MAXAL™** aluminum wire (see pg 100).

Water-cooled package with dual feeder shown (wire not included).

Invision MPa Plus MIGRunner™ Package
(see stock numbers below)
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)



Processes

- MIG (GMAW) • Flux Cored (FCAW)
- Pulsed MIG (GMAW-P)
- Air Carbon Arc Cutting and Gouging (CAC-A) (1/4 in carbons)

Most Popular Accessories

- MIGRunner™ Cart (Single Feeders only) #195 445 (pg 88)
- Running Gear Cylinder Rack #300 408 (pg 88)
- Industrial MIG 4/0 Kit with Dinse Connector #300 405 (pg 91)
- Extension Cables (pg 96)
 - 25 ft (7.6 m) #247 831 025
 - 50 ft (15 m) #247 831 050
 - 80 ft (24.4 m) #247 831 080

74 MPa Plus Wire Feeders (pg 31)



Dual feeder shown.

S-74 MPa Plus (single) #951 291

- Synergic Pulsed MIG benefits when used with Invision 352 MPa.
- Wire speed of 50–780 IPM.
- Program locks allow operator to maintain proper weld parameters.
- Trigger hold reduces fatigue.

D-74 MPa Plus (dual) #951 292

- All of the features listed above plus:
- Cover all your wire needs with one feeder. Saves setup and changeover time by allowing two different wires to be ready at the same time.

Note: Feeders include Bernard Q-Guns (one for S-74 models and two for D-74 models. Feeders are 14-pin compliant, but only operate synergically with an MPa power source. For more information on 74 MPa Plus feeders, see Lit. No. M/3.0.

XR-Aluma-Pro Plus Push-Pull Guns

- 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

Dedicated gun works with MPa Plus feeders using tachometer feedback to coordinate wire feed speed of the gun and the feeder.

When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.

Stock Number*	Water-Cooled Pkgs with 25 ft Guns	Air-Cooled Pkgs with 25 ft Guns	Input Power	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz	Max. Open-Circuit Voltage	Dimensions***	Net Weight***
(#907 431) Machine only (#907 431 001) Machine only w/Auxiliary Power	Stationary Packages (#951 377) w/Aux Pwr and Single Feeder (#951 378) w/Aux Pwr and Dual Feeder MIGRunner Packages (#951 379) w/Aux Pwr and Single Feeder (#951 380) w/Aux Pwr and Dual Feeder	Stationary Packages (#951 283) w/Single Feeder (#951 285) w/Dual Feeder MIGRunner Packages (#951 287) w/Single Feeder (#951 289) w/Dual Feeder	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: 12½ 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 25.4 19.9 11.7 11.2			



Invision™ 456MP and 456P

See Literature No. DC/23 and No. DC/20

Inverter design with variable inductance control provides the “Best!” industrial MIG welding performance for manufacturing applications.



Build your own system at MillerWelds.com/equiptoweld (see pg 19) or see package options below.



MIGRunner™ Package

*Additional models are available, see our Web site or literature sheets.
 **Dimensions and weight are for power source only.

Variable electronic inductance helps minimize spatter and optimize weld bead profile.

Dual digital meters for quick and easy viewing.

14-pin select remote control allows “plug and play” convenience. Makes set-up time quicker.

Fan-On-Demand™ improves power efficiency and noise reduction.

MP Model Additional Features

Built-in Pulsed MIG capabilities eliminates pendants and cables that could potentially get damaged or lost.

Microprocessor-based technology allows process parameter storage to be retained between power down, power up, and also between program changes.

Heavy Industrial
 CC CV DC 3 Phase Invision 456P is CV only.

Processes

- MIG (GMAW)
- Flux Cored (FCAW)
- Pulsed MIG (GMAW-P) w/456MP (456P requires optional control)
- Stick (SMAW) with 456MP
- Air Carbon Arc Cutting and Gouging (CAC-A) (5/16 in carbons)

Most Popular Accessories

- 70 Series Wire Feeders (pg 30)
- Running Gear Cylinder Rack #300 408 (pg 88)



- **Industrial MIG 4/0 Kit** #300 390 (pg 91)
- Extension Cables (pg 96)

When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.

Model*	Stock Number	Amperage/ Voltage Range	Rated Output	RMS Amps Input at Rated Load Output, 60 Hz, at NEMA Load Voltages and Class I Rating					Max. Open- Circuit Voltage	Dimensions**	Net Weight**
				230 V	460 V	575 V	KVA	KW			
Invision 456MP	(#903 725) 230/460 V, Machine only	CC Mode: 5 – 600 A Stick CV Mode: 10 – 38 V	450 A at 38 VDC, 100% Duty Cycle	50.8	27.8	24.4	21.2	19.2	95 VDC	H: 17 in (432 mm) W: 14½ in (368 mm) D: 26 in (660 mm)	118 lb (53.5 kg)
	(#907 056) 575 V, Machine only										
	(#951 243) 230/460 V, Stationary Pkg (#951 242) 230/460 V, MIGRunner Pkg										
Invision 456P	(#903 505) 230/460 V, Machine only	CV Mode: 10 – 38 V									
	(#903 546) 575 V, Machine only										
	(#951 245) 230/460 V, Stationary Pkg (#951 244) 230/460 V, MIGRunner Pkg										



NEW!

A NEW 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.

Build your own system at MillerWelds.com/equiptoweld (see pg 19) or see package options below.



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/AMS/access.

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 core programs.

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

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.



Access (see stock numbers below) Build your own system at MillerWelds.com/equiptoweld.



Access Stationary Package (only available with 300 and 450 models, see stock numbers below) 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, see stock numbers below) MIGRunner system with running gear/cylinder rack.

Comes complete with everything in the Stationary Package plus:

- Running gear/cylinder rack

*Additional models are available, see our Web site or literature sheets.
**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)
- Metal Core
- MIG (GMAW)
- RMD™ Regulated Metal Deposition (GMAW-SCT) (optional)
- Carbon Arc Gouging (CAC-A) can also be activated

Most Popular Access-ories

- Accu-Speed™ (pg 23)
 - for Palm #300 719
 - for PC #300 720
- RMD™ (Regulated Metal Deposition) (pg 23)
 - 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 87)
- Running Gear Cylinder Rack (Access 300 and 450 only) #300 408 (pg 88)



- **Industrial MIG 4/0 Kit** #300 390 (pg 91)
 - 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 92)
 - .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 please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.

Model*	Stock Number	Amperage/Voltage 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 230 V 400 V 460 V 575 V KVA KW 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: 22-1/2 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	#195 182
Dual-Wire Model	#195 325
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)

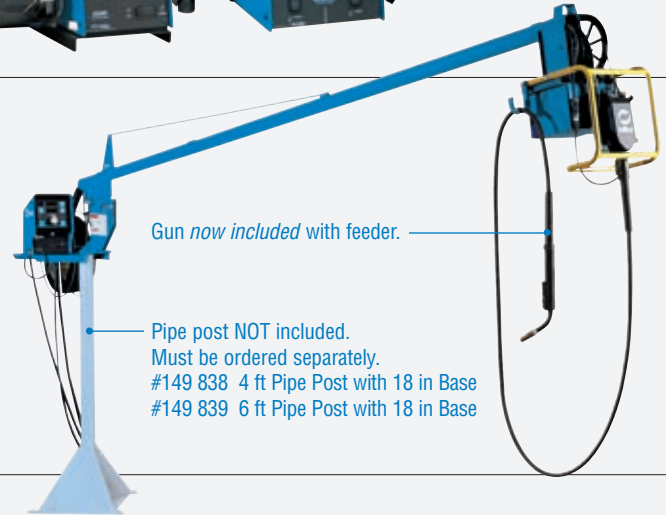
*Custom lengths available in 5 ft increments up to 50 ft and 10 ft increments up to 100 ft.



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.



Gun now included with feeder.

Pipe post NOT included.
Must be ordered separately.
#149 838 4 ft Pipe Post with 18 in Base
#149 839 6 ft Pipe Post with 18 in Base

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 ft cable for wiring to other external devices.

Cables and Wire Feed Motors

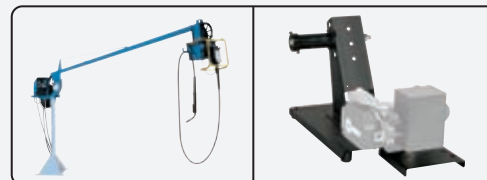


Access Power Source



ROI (Remote Operator Interface)

Boom Retrofit Applications



Flexible Mounting Options

Feeder Base with Spool Support #195 369



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 ft increments up to 50 ft and 10 ft increments up to 100 ft.



AUTOMATED MANUFACTURING SYSTEMS



MillerWelds.com/AMS

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.

Auto-Access® 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. New 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 core 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/AMS/access.

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

Processes CV DC 3 Phase

- Multi-MIG®**
- Accu-Pulse® MIG (GMAW-P)
 - Accu-Pulse® tandem (optional)
 - Accu-Curve™
 - Accu-Speed™ (optional)
 - Pulsed MIG (GMAW-P)
 - Metal Core
 - 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 23)
 - for Palm #300 719
 - for PC #300 720
- RMD™ (Regulated Metal Deposition) (pg 23)
 - 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*	Amperage/ Voltage 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-Access 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: 22-1/2 in (572 mm)	116 lb (52.6 kg)
Auto-Access 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-Access 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% in many applications.

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

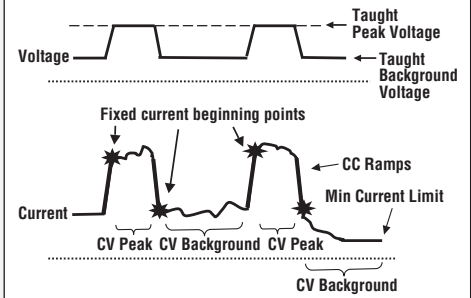
Miller technology synchronizes pulsing between two Auto-Axxess power supplies to achieve two stable, independent arcs in one torch. Each wire has its own power source, wire drive, and contact tip. Accu-Pulse tandem welding unites the arc characteristics of Accu-Pulse with the high deposition rates and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

See page 22 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.

Accu-Pulse — CV Peak/Background



Note: Accu-Curve can be added to existing Axxess or Auto-Axxess systems for FREE by updating code online at MillerWelds.com/AMS/axcess. 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 # 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 16-hour trial included with every new Axxess power supply. See page 22 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	Hard	Wire Types			Wire Diameters	Special Features	Typical Applications		
	Flux Core Dual Shld	Flux Core Self Shld									Alum							
Constant-Speed	Millermatic® Reach (MIG section)	10	●	●	●	●	●	●	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	26 26	●	●	●	●	●	●	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	30	●	●	●	●	●	●	CV	●	●	●	●	.023-5/64 in (0.6-2.0 mm)	(2) Quick-change drive rolls	Manufacturing, fabrication		
	24A	30	●	●	●	●	●	●	CV	●	●	●	●	.023-3/32 in (0.6-2.4 mm)	(4) Quick-change drive rolls	Manufacturing, fabrication		
	70 Series S/D/DX — Singles and Duals	30	●	●	●	●	●	●	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	31	●	●	●	●	●	●	CV	●	●	●	●	.035-3/32 in (0.9-2.4 mm)	Alumination allows push/pull gun. Optimized with Invision 352 MPa	Manufacturing requiring multiple wire types		
	70 Series Swingarc™ — Singles and Duals	32	●	●	●	●	●	●	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	25	●	●	●	●	●	●	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	25	●	●	●	●	●	●	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	27	●	●	●	●	●	●	CV	●	●	●	●	.023-.035 in (0.6-0.9 mm)	Economical, 135 A	Light-duty aluminum fabrication		
	Spoolmate™ 200 Series	27	●	●	●	●	●	●	CV	●	●	●	●	.023-.035 in (0.6-0.9 mm)	Economical, 160 A	Light-duty aluminum fabrication		
	Spoolmatic® 15A/30A	28	●	●	●	●	●	●	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	28	●	●	●	●	●	●	CC/CV	●	●	●	●	.030-1/16 in (0.8-1.6 mm)	Push-pull system	Heavy aluminum fabrication		
	XR™-Pistol 15W/30W	28	●	●	●	●	●	●	CC/CV	●	●	●	●	.030-1/16 in (0.8-1.6 mm)	Push-pull system	Heavy aluminum fabrication		
	XR-Aluma-Pro™ A	29	●	●	●	●	●	●	CC/CV	●	●	●	●	.030-1/16 in (0.8-1.6 mm)	High-amperage air-cooled gun	All aluminum fabrication needs		
	XR-Aluma-Pro™ W	29	●	●	●	●	●	●	CC/CV	●	●	●	●	.030-1/16 in (0.8-1.6 mm)	High-amperage water-cooled gun	All aluminum fabrication needs		
XR™-Controls	29	●	●	●	●	●	●	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 specification 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 pg 19).



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 49)
- XMT® Series (pg 50/51)
- Dimension™ NT 450 (pg 53)
- Mark VI™ (pg 56)
- Bobcat™ (pg 60/62/63)
- Trailblazer® (pg 64/65)
- Big Blue® 300 Pro (pg 67)
- Big Blue® 400/500 (pg 70)

Suggested Guns

- Bernard® Q300 (GMAW)
- Bernard® Dura-Flux™ (FCAW)
- Roughneck® (GMAW) (pg 92)
- Ironmate™ FC-1260 (FCAW) (pg 92)

Most Popular Accessories

- 8VS Meter Kit #300 331 (pg 91)
- 8VS Trigger Hold #300 332
- Flowmeter Kit #300 343

See your Miller distributor for other popular 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: 12¾ in (324 mm) W: 7¼ 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: 15½ 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 ¹ CC/CV	DC ¹ 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 pg 19).



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 in 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.

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

Industrial ● CV DC

Use with CV, DC Power Sources.

Processes

- MIG (GMAW) • Flux Cored (FCAW)

Suggested Power Sources

- CP-302 (pg 16)
- Deltaweld® 302 (pg 17)
- Invision® 352 MPa (pg 18)
- Invision® 456MP (pg 19)
- XMT® Series (except VS model) (pg 50/51)
- Trailblazer® (pg 64/65)

Suggested Guns

- Bernard® Q300 (GMAW)
- Bernard® Dura-Flux™ (FCAW)
- Roughneck® (GMAW) (pg 92)
- Ironmate™ (FCAW) (pg 92)

Most Popular Accessories

- Meter Kits (pg 91)
- Extension Cables (1 required) 25, 50, or 80 ft (7.6, 15, or 24.4 m) (pg 96)
- Shielding Gas Filter #195 189 Field
- Flowmeter Kit #300 343
- Volt/Current Sensor Kit #195 194 Field (For both models—required for digital meter operation with power sources not having pins F and H in 14-pin receptacle.)

See your Miller distributor for other popular 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	500 A at 100% Duty Cycle	75–700 IPM (1.9–17.8 m/min)	Solid Wire .023–5/64 in (0.6–2.0 mm)	8 in (203 mm), 14 lb (6.4 kg)	H: 14½ in (368 mm) W: 6½ in (165 mm) D: 15½ in (397 mm)	22 lb (10 kg)
	(#951 187) w/Bernard® Q300 Gun, Meters, Remote Voltage and Trigger Hold				Flux Cored .030–5/64 in (0.8–2.0 mm)			
SuitCase 12RC	(#951 188) w/Bernard® Q300 Gun and Remote Voltage	24 VAC, 10 A, 50/60 Hz	500 A at 100% Duty Cycle	75–700 IPM (1.9–17.8 m/min)	Solid Wire .023–5/64 in (0.6–2.0 mm)	12 in (305 mm), 44 lb (20 kg)	H: 15½ 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				Flux Cored .030–5/64 in (0.8–2.0 mm)			

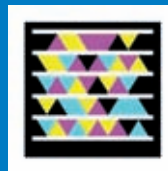


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Spoolmate™ 100 Series

See Literature No. M/1.45

Reliable and economical spool gun with excellent feeding to weld aluminum. For use with all Millermatic® 140 and 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% duty cycle.

12 ft direct-connect cable with heavy-duty strain relief provides 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.

Convenient carrying case holds gun and cable, extra contact tips, nozzle and wire (wire not included).

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

Most Popular Accessories

- Retrofit Kit for Millermatic 140 and 180 models (prior to serial #LH210051N) #300 409
- See your Miller distributor for other popular Miller options and accessories.

Stock Number (#300 371)	Welding Output Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Gun Weight
	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: 11½ in (291 mm) W: 3 in (76 mm) L: 13 in (330 mm)	6 lb (2.7 kg) with cable assembly 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% duty cycle. Ideal for welding with .023–.035 in (0.6–0.9 mm) wires.

20 ft 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 — makes setup easy and saves time.

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 11)
- Millermatic® 251 (discontinued product)
- Millermatic® 210/212 (discontinued product) with adapter cable #195 287

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 Millermatic 210 and 212 (non-Auto-Set). Wire feed speed controlled at the machine.

See your Miller distributor for other popular 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	70–875 IPM	.030–.035 (0.8–0.9 mm) aluminum .023–.035 (0.6–0.9 mm) mild and stainless steel	4 in (102 mm)	H: 9 in (229 mm) W: 2½ in (64 mm) L: 14 ½ in (368 mm)	11 lb (5 kg)



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 pg 100).

Engineered for operator comfort, our well-balanced pistol grip guns give you portability and a 15 or 30 ft 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°.

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/DC Use with CC/CV, DC Power Sources.

Processes

- MIG (GMAW) with aluminum and other wires (XR guns require optional hardwire 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 49)
- Bobcat™ (pg 60/62/63)

For Spoolmatic and XR Guns

- Millermatic® 252 (pg 11)
- Millermatic® 350P (pg 12)
- AlumaPower™ 350 MPa (pg 13)
- CP-302 (pg 16)
- Dimension™ Series (pg 49)
- XMT® Series (except VS model) (pg 50/51)
- Dimension™ NT 450 (pg 53)
- Trailblazer® (pg 64/65)
- Big Blue 300 Pro (pg 67)
- Big Blue 350 PipePro® (pg 68)

Most Popular Accessories

Weld Controls for Spoolmatic Guns Only

- WC-24 #137 549 (pg 96)
- WC-115A #137 546 (pg 96)
- WC-115A (with contactor) #137 546-01-1 (pg 96)
- WC-115 Contactor Kit #137 548 (pg 96)

Feeders for XR Guns Only

- XR-AlumaFeed™ (pg 13) or XR-Controls (pg 29) — Required with most power sources. See Hook-Up Recommendations chart at left.
- Hardwire Liner Kit #198 377

See your Miller distributor for other popular 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™*, DVIz™*, 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, 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 15W/30W Pistol Grip Guns	Millermatic 252, 350*, 350P	Direct Hook-Up
	AlumaPower™ 350 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 29)

*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: 10¼ in (260 mm) W: 2½ in (64 mm) L: 15½ in (384 mm)	9 lb (4.1 kg)
Spoolmatic 30A	(#130 831) 30 ft (9 m) cable						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: 7¾ in (187 mm) W: 1¾ in (48 mm) L: 10¾ in (270 mm)	13 lb (5.9 kg)
	(#198 128) 30 ft (9 m) cable						21 lb (9.6 kg)
XR-W Pistol Gun	(#198 129) 15 ft (4.6 m) cable	Water: 400 A at 100% Duty Cycle					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

 aluminum wire (see pg 100).

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, 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)

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 11)
- Millermatic® 350P (pg 12)
- AlumaPower™ 350 MPa (pg 13)
- Deltaweld® Series (pg 17)
- Invision™ 352 MPa (pg 18)
- Invision™ 456MP (pg 19)
- XMT® Series (except VS model) (pg 50/51)
- Trailblazer® (pg 64/65)

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

See your Miller distributor for other popular Miller options and accessories.

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: 2½ 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				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)

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 control box drive rolls separately (#195 591).

Miller recommends

 aluminum wire (see pg 100).

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 burnback 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 (pg 13)
- Deltaweld® Series (pg 17)
- Invision™ 352 MPa (pg 18)
- Invision™ 456MP (pg 19)
- XMT® Series (except VS model) (pg 50/51)
- Trailblazer® (pg 64/65)

Suggested Guns

- XR™-Pistol (GMAW) (pg 28)
- 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

See your Miller distributor for other popular 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	70–780 IPM (1.8–19.8 m/min)	.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.	12 in (305 mm)	H: 16 in (406 mm) W: 9¼ in (235 mm) D: 2¼ in (540 mm)	42.5 lb (19.2 kg)



22A and 24A

See Literature No. M/11.0

**Includes Bernard® Q300
15-ft 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 drive rolls! For more options, visit MillerWelds.com/equiptoweld (see pg 19).



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 16)
- Deltaweld® Series (pg 17)
- Invision™ 352 MPa (pg 18)
- Shopmate™ 300 DX (pg 49)
- XMT® Series (except VS) (pg 50/51)

Suggested Guns

- Bernard® and Tregaskiss™
- Roughneck® (pg 92)

Most Popular Accessories

- Digital Display #186 498
- Pre/Post Flow and Spot Control #186 496
- Voltage Control (22A) #194 211

See your Miller distributor for other popular 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 3/4 in (273 mm) D: 2 3/2 in (597 mm)	22A 36 lb (15.4 kg) 24A 40 lb (18 kg)
24A (#951 193) #951 194) w/Digital Display #951 195) w/Digital Display and Pre/Post Flow						

70 Series

See Literature No. M/3.0

**Includes Bernard® Q400
15-ft 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 tool-less rotatable drive.



Models include Bernard® Q400 MIG gun (two with D-74 models), .035/.045 drive rolls and Centerfire™ contact tips! For more options, visit MillerWelds.com/equiptoweld (see pg 19).



Tool-less 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-ft 14-pin interconnecting cord.

DX Models 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 17)
- Invision™ (pg 18/19)
- Dimension™ Series (pg 49)
- XMT® Series (except VS model) (pg 50/51)
- Dimension™ NT 450 (pg 53)

Suggested Guns

- Bernard® and Tregaskiss™

Most Popular Accessories

- Feeder Cart #142 382 (pg 87)
- Aluminum Gun Kits — for pushing aluminum wire (pg 92)
- Control Detachment Kits (pg 96)
- Extension Cables (pg 96)
- Spool Adapter #047 141 (pg 96)
- Turntable Assy #146 236 (pg 96)
- Wire Straightener (pg 96)
- 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

See your Miller distributor for other popular Miller options and accessories.

Models

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

*See page 31 for single- and dual-wire 74 MPa Plus feeders that operate synergically with Invision 352 MPa power source.

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) S-74DX (#951 201) w/High-Speed Motor S-74DX (#951 202) w/Low-Speed Motor	24 VAC, 10 A, 50/60 Hz	50–780 IPM (1.3–19.8 m/min) Optional Low Speed: 20–400 IPM (0.5–10.2 m/min) Optional High Speed: 92–1435 IPM (2.3–36.6 m/min)	.023–1/8 in (0.6–3.2 mm) Low-speed motor option is recommended when using 1/8 in (3.2 mm) wire.	60 lb (27 kg) coil with optional Wire Reel Assembly #108 008	Single H: 14 in (356 mm) W: 12 1/2 in (318 mm) D: 28 in (711 mm) Dual H: 14 in (356 mm) W: 21 in (533 mm) D: 35 in (889 mm)	Single 58 lb (26 kg) Dual 87 lb (39.5 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						



70 Series MPa Plus

See Literature No. M/3.0

Includes Bernard® Q400
15-ft 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 model), .035/.045 drive rolls and Centerfire™ contact tips! For more options, visit MillerWelds.com/equiptoweld (see pg 19).



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.



Optional XR-AlumaPro™ Plus push-pull gun for aluminum. Comes in 15-, 25- and 35-ft lengths for extended reach with trouble-free, reliable feeding. Gun is available in either air- or water-cooled versions.

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.

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 17)
- Invision™ (pg 18/19)
- Dimension™ Series (pg 49)
- XMT® Series (except VS model) (pg 50/51)
- Dimension™ NT 450 (pg 53)

Suggested Guns

- Bernard® and Tregaskiss™
- XR-AlumaPro™ Plus (see below)

Most Popular Accessories

- XR-AlumaPro™ Plus push-pull guns for aluminum
 - 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
 - Dedicated gun works with MPa Plus feeders using tachometer feedback to coordinate wire feed speed of the gun and the feeder.
 - Feeder Cart #142 382 (pg 87)
 - Aluminum Gun Kits —
 - for pushing aluminum wire (pg 92)
 - .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.™
 - Extension Cables (pg 96)
 - 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 96)
 - Turntable Assembly #146 236 (pg 96)
 - Wire Straightener (pg 96)
 - 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
- See your Miller distributor for other popular 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 .023–5/64 in (0.6–2.0 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: 12½ 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)



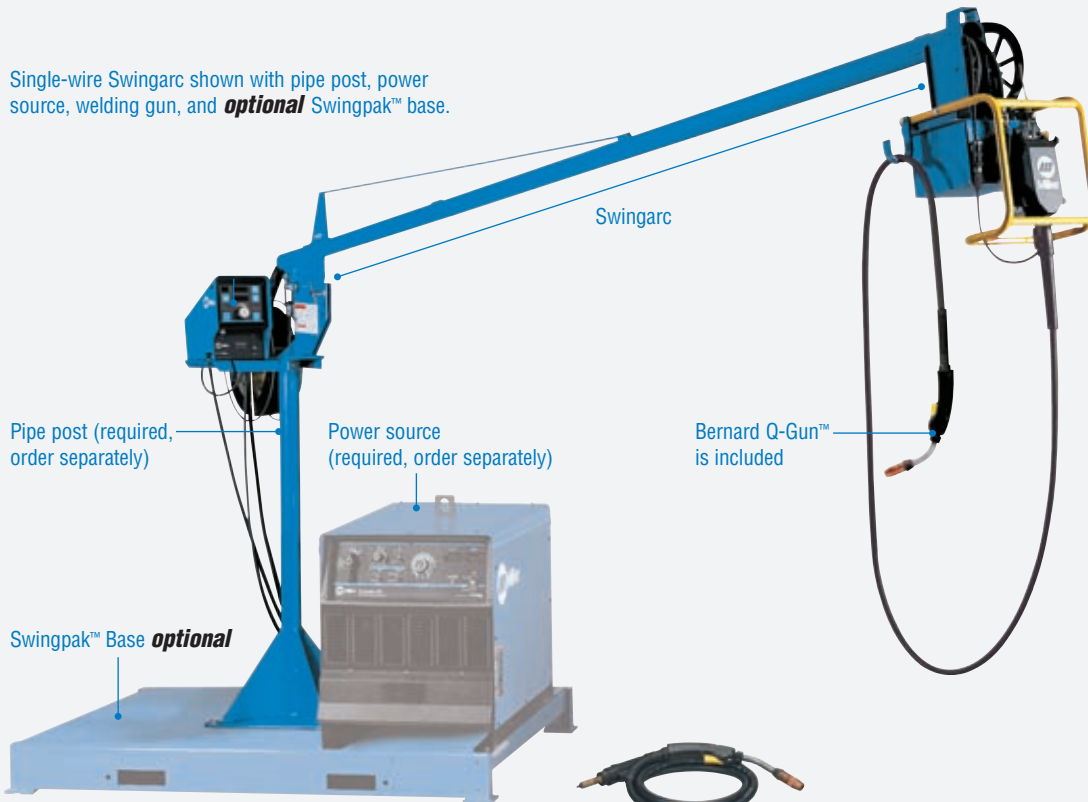
70 Series Swingarc™

Includes Bernard® Q400
15-ft MIG Welding Gun!

See Literature No. M/13.11

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

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



Models in 8-, 12- or 16-ft 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-ft diameter work area).

Includes 10-ft 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 drive rolls and Centerfire™ contact tips! For more options, visit MillerWelds.com/equiptoweld (see pg 19).



Heavy Industrial • CV DC

Use with CV, DC Power Sources.

Processes

- MIG (GMAW) • Flux Cored (FCAW)

Suggested Power Sources

- Deltaweld® Series (pg 17)
- Invision™ (pg 18/19)
- Dimension™ Series (pg 49)
- XMT® Series (except VS model) (pg 50/51)
- Dimension™ NT 450 (pg 53)

Suggested Guns

- Bernard® and Tregaskiss™

Most Popular Accessories

- Extension Cables (pg 96)
- 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

See your Miller distributor for other popular 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 SS-74D8 (#951 211) w/S-74D SS-74DX8 (#951 214) w/S-74DX	DS-74S8 (#951 217) w/D-74S DS-74D8 (#951 220) w/D-74D DS-74DX8 (#951 223) w/D-74DX	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	.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) Dual-Wire Feeder 134 lb (61 kg)
12 ft (3.7 m) Boom	SS-74S12 (#951 209) w/S-74S SS-74D12 (#951 212) w/S-74D SS-74DX12 (#951 215) w/S-74DX	DS-74S12 (#951 218) w/D-74S DS-74D12 (#951 221) w/D-74D DS-74DX12 (#951 224) w/D-74DX					Single-Wire Feeder 160 lb (73 kg) Dual-Wire Feeder 207 lb (94 kg)
16 ft (4.9 m) Boom	SS-74S16 (#951 210) w/S-74S SS-74D16 (#951 213) w/S-74D SS-74DX16 (#951 216) w/S-74DX	DS-74S16 (#951 219) w/D-74S DS-74D16 (#951 222) w/D-74D DS-74DX16 (#951 225) w/D-74DX					Single-Wire Feeder 210 lb (95 kg) Dual-Wire Feeder 280 lb (127 kg)



STICK



SMAW



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	34	●	●					Optional running gear	Steel, stainless	30–235 AC	Infinite control	Education, maintenance/repair, farm	1-Phase	
Thunderbolt® XL 225 AC/150 DC	34	●	●							30–235 AC 30–160 DC	Infinite control	Education, maintenance/repair, farm		
Dialarc® 250 AC/DC	34	●	●	●		●	3/16"			Lift eye, optional running gear	35–300 AC 35–265 DC	One control knob with high/low range		Education, maintenance/repair, fabrication
Maxstar® 150 S	35	●	●							Shoulder strap, optional case	20–150 DC	115–230 V Auto-Line™, MVP™ plugs		MRO, ship installation/repair, farm/ranch
Maxstar® 200 STR	35	●	●	●				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	36	●	●	●				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	50	●						See the Multiprocess section on page 48.						
SRH-444	34	●	●	●		●	5/16"	Lift eye, optional running gear	Most metals	30–280 DC 50–500 DC	Built-in Hot Start™	Steel erection, pipe, fab, shipbuilding, foundries	3-Phase	
Gold Star® 302	34	●	●	●		●	1/4"			15–395 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries		
Gold Star® 452	34	●	●	●		●	5/16"			20–590 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries		
Gold Star® 652	34	●	●	●		●	3/8"			50–850 DC	Built-in arc control	Steel erection, pipe, fab, shipbuilding, foundries		
Dimension™ Series	49	●						See the Multiprocess section on page 48.						

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 37) for machines that can also 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

See distributor for Miller 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		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: 18¾ in (476 mm) W: 12¾ in (323 mm) D: 17½ 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)

Dialarc[®] 250 AC/DC

See Literature No. AD/2.1



Superb performance and versatility in a flexible Stick machine.

- Single-dial infinite current control.
- High and low ranges.
- Forced-draft cooling fan.
- Superior 6010 and 7018 Stick welding.
- High output and duty cycle.
- Optional remote weld output control.

Light Industrial ● Industrial ●
CC AC/DC **1** Phase

Processes

- Stick (SMAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (3/16 in carbons)

See distributor for Miller accessories.

Stock Number	Welding Amperage Ranges	Rated Output	Amps Input at Rated Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions	Net Weight		
			200 V	208 V	230 V	460 V	575 V	KVA	KW				
Without Power Factor Correction (#907 017) 200(208)/230/460 V (#907 016) 230/460/575 V	AC	35–300	225 A at 29 VAC, 30% Duty Cycle	84	—	73	36	29	16.8	9.8	70	H: 24¼ in (616 mm) W: 19 in (483 mm) D: 28 in (711 mm)	360 lb (163 kg)
	DC	35–265	225 A at 29 VAC, 30% Duty Cycle	92	—	80	40	32	18.6	11.8	79		
With Power Factor Correction (#907 015) 208/230/460/575 V	AC	35–300	225 A at 29 VAC, 30% Duty Cycle	—	60	55	27	22	12.5	9.9	70		365 lb (166 kg)
	DC	35–265	225 A at 29 VAC, 30% Duty Cycle	—	66	60	30	24	13.7	10.8	79		

SRH-444

See Literature No. DC/7.0



Proven durability and the ability to handle a wide range of applications.

- Electrical amperage control.
- Remote control capability.
- High and low output studs.
- Control circuit overload protection.

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

Processes

- Stick (SMAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (5/16 in carbons)

See distributor for Miller accessories.

Stock Number	Welding Amperage Ranges	Rated Output at 60% Duty Cycle	Amps Input at Rated Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions	Net Weight
			208 V	230 V	460 V	575 V	KVA	KW			
(#900 751) 208/230/460 V (#900 753) 230/460/575 V	30–280 50–500	400 A at 36 V	89	80	40	32	31.9	19.6	75	H: 30¼ in (768 mm) W: 22½ in (572 mm) D: 35¾ in (908 mm)	784 lb (356 kg)

Gold Star[®] Series

See Literature No. DC/8.1



Gold Star 452 shown.



See pages 46 and 47 for wireless remote controls.

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

See distributor for Miller accessories.

Model	Stock Number	Amperage Range in CC Mode	Rated Output	Amps Input at Rated Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions (Includes lift eye and strain relief.)	Net Weight
				200 V	230 V	460 V	575 V	KVA	KW			
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)	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	302 D: 30½ in (775 mm) 450 D: 38 in (966 mm) 675 D: 38 in (966 mm)	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.

Portable in the shop or at the job site (13.2 lb). The shoulder strap allows the operator to easily move from location to location.

Auto-Line™ circuitry automatically connects to 115–230 VAC, single-phase power without removing the covers to relink the power source.

Low OCV Stick™ reduces open-circuit voltage to 12–16 VDC when power source is not in use.

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

- Power source
- 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
- Shoulder strap

#907 134-01-2 Includes Above Plus

- Protective X-CASE™

Most Popular Accessories

- MVP™ Plugs (pg 93)
- Protective X-CASE™ #300 184 (pg 93)

See your Miller distributor for other popular Miller options and accessories.

*See page 39 in the TIG section for Maxstar 150 STL and STH.
**Sense voltage for Stick and Lift-Arc™ TIG.

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	70 A at 22.8 VDC, 100% Duty Cycle	17.4	2.0	1.9	90 (12–16 VDC**)	H: 9 in (229 mm) W: 5½ in (140 mm) D: 13¼ in (337 mm)	13.2 lb (6.0 kg)
			100 A at 24 VDC, 35% Duty Cycle	26.4	3.0	3.0			
#907 134-01-2 115–230 VAC, 50/60 Hz w/Case	230 VAC	20–150	100 A at 24 VDC, 100% Duty Cycle	13.1	3.0	2.8	90 (12–16 VDC**)		
			150 A at 26 VDC, 30% Duty Cycle	21.6	4.9	4.7			

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 at 32 lb—easily moved from location to location.

Industrial ● **CC DC 3 1** Phase

Processes

- Stick (SMAW) • TIG (GTAW)

Comes Complete With

- Power source
- 8 ft (2.4 m) primary cord
- (2) 50 mm Dinse connectors
- Adjustable shoulder strap

Most Popular Accessories

- Air-Cooled TIG Torch Adapter #195 378 (pg 87)
- Protective Cover #195 321 (pg 95)
- RCCS-14 Remote Fingertip Control #043 688 (pg 95)
- RFCS-14 HD Remote Foot Control #194 744 (pg 95)
- Weldcraft® WP17V12RM TIG Torch

See your Miller distributor for other popular Miller options and accessories.

*See page 40 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	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: 13½ in (343 mm) W: 7½ in (191 mm) D: 17½ in (445 mm)	32 lb (14.5 kg)
			1–200 (1–90 on 115 VAC)	150 A at 26 V, 60% Duty Cycle	—	21.7	—	—	5.0	5.0			
		Single-Phase	125 A at 25 V, 50% Duty Cycle	34.1	—	—	—	4.0	3.8				
			90 A at 24 V, 100% Duty Cycle	25.0	—	—	—	4.0	3.8				
#907 036-00-1 Normal OCV	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**)		
			1–200 (1–150 on 115 VAC)	175 A at 17 V, 60% Duty Cycle	—	17.4	—	—	4.0	4.0			
		Single-Phase	150 A at 16 V, 70% Duty Cycle	29.7	14.1	—	—	3.4	3.4				
			110 A at 15 V, 100% Duty Cycle	20.0	—	—	—	2.0	2.0				

CST™ 280

See Literature No. DC/29.55

Durable Stick/TIG welding power source in a lightweight (41 lb) package designed for the construction industry. 280 amps of output is ideal for Stick electrodes up to 3/16 in 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 the power switch are located on front of machine for easy access. See page 56.

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.



See pages 46 and 47 for wireless remote controls.

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

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

Processes

• Stick (SMAW) • TIG (GTAW)

Most Popular Accessories

- CST 280 Rack (pg 56)
- RCC-14 Remote Fingertip Control #151 086 (pg 95)
- RCCS-14 Remote Fingertip Control #043 688 (pg 95)
- RFCS-14 Remote Foot Control #043 554 (pg 95)
- RFCS-14 HD Remote Foot Control #194 744 (pg 95)
- RHC-14 Remote Hand Cntrl (pg 95)
20 ft (6 m) #242 211 020
100 ft (30.5 m) #242 211 100
- RPBS-14 Remote Push Button Control #300 666 (pg 95)
- For TIG torches see Lit. Index No. DC/29.55

See your Miller distributor for other popular Miller options and accessories.

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	—	35.0	34.2	—	—	17.8	14.7	14.6	10.2	77 VDC	H: 13½ in (343 mm) W: 7½ in (191 mm) D: 18 in (457 mm)	41 lb (18.6 kg)
				200 A at 28 V, 100% Duty Cycle	—	23.3	22.5	—	—	11.7	9.7	9.6	6.4			
		Single-Phase	5-200	200 A at 28 V, 50% Duty Cycle	—	43.9	43.0	—	—	—	—	10.1	6.6			
				150 A at 26 V, 100% Duty Cycle	—	32.7	32.0	—	—	—	—	7.3	4.6			
#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	36.0	33.0	28.8	19.8	18.0	17.5	—	14.0	10.2	67 VDC		
				200 A at 28 V, 100% Duty Cycle	23.5	23.0	22.8	13.5	12.0	12.7	—	10.2	6.9			
		Single-Phase	5-200	200 A at 28 V, 50% Duty Cycle	43.9	43.3	43.0	—	—	—	—	9.9	6.5			
				150 A at 26 V, 100% Duty Cycle	35.0	33.9	32.9	—	—	—	—	7.6	4.8			



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TIG



GTAW



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MORE on the WEB

Power Source Welding Performance

		DC				AC/DC						
		Maxstar® 150 (Pg 39)	Maxstar® 200 (Pg 40)	Maxstar® 350 (Pg 41)	Maxstar® 700 (Pg 41)	Dynasty® 200 (Pg 42)	Dynasty® 350 (Pg 43)	Dynasty® 700 (Pg 43)	Syncrowave® 200 (Pg 44)	Syncrowave® 250 DX (Pg 44)	Syncrowave® 350 LX (Pg 44)	Diversion™ 165 and 180 (Pg 45)
Output	Min. – Max. (Amps)	5–150 A	1–200 A	3–350 A	5–700 A	5–200 A (AC) 1–200 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 and Magnesium)	—	—	—	—	.020–1/4"	.015–5/8"	.020–1"	.020–1/4"	.015–3/8"	.015–1/2"	.030–3/16"
DC TIG Material Thickness	Min. – Max. (Mild Steel, Stainless Steel, and Exotic Metals)	.020–3/16"	.004–1/4"	.012–5/8"	.020–1"	.004–1/4"	.012–5/8"	.020–1"	.020–1/4"	.012–1/2"	.012–5/8"	.025–3/16"
Stick Max. Electrode Diameter	E6010–6011	1/8"	3/16"	5/16"	5/16"	3/16"	5/16"	5/16"	3/16"	1/4"	5/16"	—
	E6013	1/8"	3/16"	5/16"	5/16"	3/16"	5/16"	5/16"	3/16"	1/4"	5/16"	—
	E7018	1/8"	5/32"	1/4"	5/16"	5/32"	1/4"	5/16"	5/32"	7/32"	1/4"	—
	E7024	3/32"	1/8"	1/4"	5/16"	1/8"	1/4"	5/16"	1/8"	3/16"	1/4"	—
Stick Process Quality	E6010–6011	★ 6011*	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★	★★	★★	—
	E6013	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★	★★	★★	—
	E7018	★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★	★★	★★	—
	E7024	★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★	★★	★★	—
Carbon Arc Gouging	Max. Electrode Diameter	—	5/32"	1/4"	3/8"	5/32"	1/4"	3/8"	5/32"	3/16"	1/4"	—
Features	Balance Control					●	●	●	●	●	●	
	AC Frequency					●	●	●				
	Pulse Capability	0.5, 1, 2.5, 60 PPS (STH Model)	0.1–500 PPS (DX Model)	0.1–5000 PPS	0.1–5000 PPS	0.1–500 PPS (DX Model)	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	12 kW	32 kW	8.5 kW	13 kW	35 kW	12.5 kW	22 kW	30 kW	5.5 kW

ICON KEY

PROCESS QUALITY: ★ Good ★★ Better ★★★ Best
*For best results choose 6011.



TIG Technology Innovations Improve Performance

Miller set the standard for TIG technology more than 35 years ago with the introduction of the Syncrowave® Series with squarewave technology.

Today, Maxstar® and Dynasty® welders continue that tradition of innovation, featuring advanced TIG technology. They set new standards for productivity and weld quality improvements while lowering the cost of product installation and operation.

Compared to conventional technology, Maxstar and Dynasty welders give you more tools for your specific application. Payback often occurs in 18 months or less. Here's how:



Maxstar

Advanced DC TIG Technology for Carbon, Stainless and Other Alloys

- **Superior arc control**
 - Focused arc cone results in faster travel speeds with advanced pulse
 - Reduced heat input for less warping, better part fit-up
 - Better arc control, optimizes weld bead profile to reduce post-weld grinding
- **Blue Lightning™ arc starter**
 - Precise arc starting, improves weld quality and consistency
 - More arc starts before re-sharpening the tungsten

Dynasty

Same as the Maxstar, Plus Advanced AC TIG Technology for Aluminum

- **Faster travel speeds**
- **Increased penetration on thicker sections**
- **Better arc and puddle control**
 - Improve weld quality
 - Optimize bead profile
 - Easier to train new operators to weld

Maxstar and Dynasty

Less to Install and Operate

- **Lower amperage draw than conventional welding power sources**
 - Smaller wiring and circuit breakers required
 - Add capacity with existing available power
 - Eliminate costly changes to primary power
 - Potential utility rebates; check with your local power company for details
- **Unmatched primary power flexibility**
 - Operates on single- or three-phase power
 - Plug into virtually any voltage
 - Extremely tolerant of voltage fluctuations to maintain weld quality and reduce rework

Better for Mobile Welding

- **Compact designs allow for easy transportation**
 - Take your welding machine to where you need to weld
 - No need for long lead extensions
 - Eliminate cable clutter and increase weld performance
 - Adjust settings quickly where you are welding
- **Amazing power per pound performance**
 - Superior TIG/Stick start and weld puddle control
 - The ability to run any electrode



Maxstar® 150

STL — DC Stick/TIG Lift-Arc
STH — DC Stick/TIG HF Start

See Literature No. DC/27.1

See Literature No. DC/27.2



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

Welding Capability

Not to scale. Steel Min. — 0.020 in (0.5 mm) Steel Max. — 3/16 in (4.8 mm)

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.

Auto-Line™ circuitry automatically connects to 115–230 V, single-phase power without removing the covers to relink the power source.

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.

Portable in the shop or at the job site (13.7 lb).

Low OCV Stick™ reduces open-circuit voltage to 12–16 VDC when power source is not in use.

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

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

Standard Pkg Comes With

- Power source
- 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
- Shoulder strap

TIG/Stick Pkg Includes Above Plus

- Weldcraft® WP1712RDI25 TIG torch with adapter
- Protective carrying case
- Smith® flow gauge regulator with hose

Most Popular Accessories

- MVP™ Plugs (pg 93)
- Protective X-CASE™ #300 184 (pg 93)
- RCCS-6M Remote Fingertip Control (pg 95) #195 184
- RFCS-6M Remote Foot Control (pg 95) #195 183
- Remote Controls (pg 95)

See your Miller distributor for other popular Miller options and accessories.

*See page 35 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) Standard Package (#907 135-01-6) TIG/Stick Package (#907 135-01-7) TIG/Stick Package with Remote Fingertip Control (#195 184)	TIG	115 VAC	5–150	100 A at 14 VDC, 100% Duty Cycle	18.4	2.1	2.1	90 VDC (12–16 VDC**)	H: 9 in (229 mm) W: 5½ in (140 mm) D: 13¼ in (337 mm)	13.7 lb (6.2 kg)
				150 A at 16 VDC, 30% Duty Cycle	28.0	3.4	3.1			
	230 VAC	5–150	100 A at 14 VDC, 100% Duty Cycle	8.3	2.0	1.9				
			150 A at 16 VDC, 30% Duty Cycle	14.2	3.2	3.1				
Maxstar 150 STH (#907 136) Standard Package (#907 136-01-7) TIG/Stick Package with Remote Fingertip Control (#195 184)	Stick	115 VAC	20–100	70 A at 22.8 VDC, 100% Duty Cycle	17.4	2.0	1.9	90 VDC (12–16 VDC**)		
				100 A at 24 VDC, 35% Duty Cycle	26.4	3.0	3.0			
	230 VAC	20–150	100 A at 24 VDC, 100% Duty Cycle	13.1	3.0	2.8				
			150 A at 26 VDC, 30% Duty Cycle	21.6	4.9	4.7				



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Stay connected at MillerWelds.com/interests



Maxstar® 350 and 700 DC TIG and Stick

See Literature No. DC/24.0



See pages 46 and 47 for wireless remote controls.

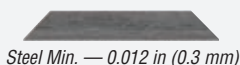


Maxstar 350 machine only

Maxstar 700 machine only

Maxstar 350 Welding Capability

Not to scale.



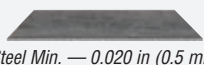
Steel Min. — 0.012 in (0.3 mm)



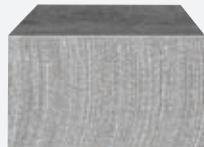
Steel Max. — 5/8 in (15.9 mm)

Maxstar 700 Welding Capability

Not to scale.



Steel Min. — 0.020 in (0.5 mm)



Steel Max. — 1 in (25.4 mm)

Auto-postflow calculates the length of postflow time based on the amperage setting. Eliminates need to independently set postflow time for different amperages, preserves tungsten and prevents porosity.

Program memory features 9 independent program memories that maintain/save your parameters.

Meter calibration for certification purposes.

Optional Automation Interface Kit (#195 516) includes automation PC board, 28-pin socket receptacle with harness, and 28-pin plug connector. Provides required and advanced automation controls.

DC TIG Features

- **Blue Lightning™** high frequency arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters. Easy to set and increases productivity.
- **Lift-Arc™** start provides DC arc starting without the use of high frequency.
- **Exceptionally smooth and precise arc** for welding exotic materials.
- **High-speed DC TIG pulse controls** capable of 5000 pulses per second.

DC Stick Features

- **Tailored arc control (DIG)** allows arc characteristics to be changed for specific application and electrode. Smooth running for 7018 or stiffer, more penetrating for 6010.
- **Hot Start™** adaptive control provides positive arc starts without electrode sticking.

NEW! Complete Package with Wireless Foot Control.

Improve productivity, maneuverability and reduce potential trip hazard with the wireless foot control. The wireless control operates the welding machine output up to 90 ft away without a cord. The package components have been selected to provide the optimum performance for TIG welding. See at right for package content.



Allows for any input voltage hook-up (208–575 V) with no manual linking, providing convenience in any job setting.

Wind Tunnel Technology™ protects internal electrical components from airborne contaminants, extending product life.

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

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

Heavy Industrial
CC DC 3 1
Phase Phase

Processes

- TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)
- Air Carbon Arc (CAC-A)

Maxstar 350 Comes With

- Power source
- 8 ft (2.4 m) primary cord
- (2) Dinse 50 mm connectors
- (1) Set-up and operation CD

Maxstar 700 Comes With

- Power source (primary cord not included)
- (1) thread lock torch adapter
- (2) thread lock weld cable connectors
- (1) Set-up and operation CD

Maxstar 350 Complete Package Includes Above Plus

- Runner™ cart
- Coolmate™ 3.5 cooler
- Coolant (4 gallons)
- Wireless Foot Control or RFCS-14 HD remote foot control
- 25 ft (7.6 m) Weldcraft® CS310 water-cooled torch
- 15 ft (4.6 m) work lead with clamp
- Gas hose
- Regulator/flowmeter
- Torch accessory kit with tungsten
- Cable cover

Note: Stick electrode holder not included, must be ordered separately.

Weldcraft® Water-Cooled Torch Kits

- 250 A Torch Kit #300 185 (pg 95)
- 300 A Torch Kit #300 183 (pg 95)
- 400 A Torch Kit #300 186 (pg 95)

Most Popular Accessories

- Wireless Remote Foot Control #300 429 (pg 47)
- Wireless Remote Hand Control #300 430 (pg 47)
- **Runner™ Cart** #300 244 (pg 87)
- Coolmate™ 3.5 Cooler #300 245 (pg 89)
- Low-Conductivity Coolant #043 810 (pg 89)
- Remote Controls (pg 95)



See your Miller distributor for other popular Miller options and accessories.

*More packages are available — see our Web site or Literature No. DC/24.0. **Sense voltage for Low OCV Stick and Lift-Arc™ TIG.

Model	Stock Number*	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	230 V	400 V	460 V	575 V	KVA	KW					
Maxstar 350	#907 334) Machine only Complete Packages #951 400) w/Wireless Foot Control #951 399) w/Foot Control	Three-Phase	3–350	250 A at 30 V, 100% Duty Cycle	27	24	14	12	9	9.7	9.3	75 VDC (10–15 VDC**)	Machine	H: 24¾ in (629 mm) W: 13¾ in (349 mm) D: 22 in (559 mm)	Machine 135 lb (61 kg)	
				300 A at 32 V, 60% Duty Cycle	33	30	17	15	12	12	11.5					
		Single-Phase	3–350	180 A at 27.2 V, 100% Duty Cycle	32	29	—	14	11	6.4	6		75 VDC (10–15 VDC**)	Complete	H: 45½ in (1146 mm) W: 23½ in (587 mm) D: 43¾ in (1111 mm)	Complete 308 lb (140 kg)
				225 A at 29 V, 60% Duty Cycle	41	37	—	19	15	8.6	8.2					
Maxstar 700	#907 103) Machine only	Three-Phase	5–700	500 A at 40 V, 100% Duty Cycle	67	60	35	30	24	24	23	75 VDC (10–15 VDC**)		Machine	H: 34½ in (876 mm) W: 13¾ in (349 mm) D: 22 in (559 mm)	Machine 198 lb (90 kg)
				600 A at 44 V, 60% Duty Cycle	89	80	46	40	32	32	31					
		Single-Phase	5–700	360 A at 34 V, 100% Duty Cycle	77	70	—	35	28	16	15		75 VDC (10–15 VDC**)	Machine	H: 34½ in (876 mm) W: 13¾ in (349 mm) D: 22 in (559 mm)	Machine 198 lb (90 kg)
				450 A at 38 V, 60% Duty Cycle	106	96	—	48	38	22	21					

Dynasty[®] 200 Series AC/DC TIG and Stick

See Literature No. AD/4.8



See pages 46 and 47 for wireless remote controls.

Dynasty 200 DX Water-Cooled Complete Package with Wireless Foot Control



Dynasty 200 SD machine only

NEW! Water-Cooled Complete Package with Wireless Foot Control. Improve productivity, maneuverability and reduce potential trip hazard with the wireless foot control. The wireless control operates the welding machine output up to 90 ft away without a cord. The package components have been selected to provide the optimum performance for TIG welding. See at right for package content.

AUTOLINE Power Management Technology Allows for any input voltage hook-up (115–460 V, single- or three-phase) with no manual linking, providing convenience in any job setting.

Blue Lightning™ high frequency arc starter for TIG non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters. Easy to set and increases productivity.

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

Portable in the shop or at the job site, the two-wheel cart makes it easy to maneuver the entire package to the work area. For more portability, detach the 45 lb welder and take it anywhere.

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

Note: Duty cycle is limited on 115 V power. Coolmate 1 must be plugged into a 115 V source (wall).

Welding Capability

Not to scale.

Aluminum Min. — 0.020 in (0.5 mm)
Steel Min. — 0.004 in (0.1 mm)

Aluminum Max. — 1/4 in (6.4 mm)
Steel Max. — 1/4 in (6.4 mm)

AC TIG Features

- **Extended AC balance** (30–99%) controls amount of oxide cleaning (amperage time in EN) which is essential for high quality welds on aluminum.
- **AC frequency** (20–250 hz) controls the width of the arc cone and the force of the arc.

AC Waveforms



Advanced squarewave, fast freezing puddle, deep penetration and fast travel speeds.



Soft squarewave for a soft buttery arc with maximum puddle control and good wetting action.



Sine wave for customers that like a traditional arc. Quiet with good wetting.



Triangular wave reduces the heat input and is good on thin aluminum. Fast travel speeds.

DC TIG Features

- **Exceptionally smooth** and precise arc for welding exotic materials.

AC/DC Stick Features

- **Tailored arc control (DIG)** allows the arc characteristic to be changed for specific applications and electrodes. Smooth running for 7018 or stiffer, more penetrating for 6010.
- **Hot Start™** adaptive control provides positive arc starts without sticking.
- **AC frequency control** adds additional stability when Stick welding in AC for smoother welds.

Industrial ● Heavy Industrial ●

CC AC/DC 3 1
DC Phase Phase

Processes

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P) w/DX model
- Air Carbon Arc (CAC-A)

Two Models Available: SD and DX

Feature	SD	DX
Digital Meters	●	●
HF	●	●
Lift-Arc™	●	●
Trigger Options	●	●
Pulser	●	●
Sequencer	●	●
Pre/Postflow	●	●
DIG	●	●
Wave Forms	●	●

Comes With

- Power source
- 8 ft (2.4 m) primary cord
- (2) 50 mm Dinse connectors
- Air-cooled TIG torch adapter #195 378
- Adjustable shoulder strap

Water-Cooled Complete Package Includes Above Plus

- 2-Wheel Trolley Cart
- Coolmate™ 1 cooler (115 V)
- Coolant (1 gallon)
- Wireless Foot Control or RFCS-14 HD remote foot control or RCCS-14 fingertip control
- 25 ft (7.6 m) Weldcraft® WP20 water-cooled torch
- 15 ft (4.6 m) work lead with clamp
- Gas hose
- Regulator/flowmeter
- Torch accessory kit with tungsten
- Cable cover

Note: Stick electrode holder not included, must be ordered separately. Air-cooled TIG torch adapter not included.

Air-Cooled Package Comes With

- Power source
- Protective carrying case containing the following:
 - RFCS-14 HD remote foot control or RCCS-14 fingertip control
 - 25 ft (7.6 m) Weldcraft® WP17 air-cooled torch
 - 15 ft (4.6 m) lead w/electrode holder
 - 15 ft (4.6 m) work lead with clamp
 - Gas hose
 - Flow gauge regulator
 - Torch accessory kit with tungsten

See your Miller distributor for popular Miller options and accessories.

Model/Stock Number Machine Only Machine Only Machine Only Machine Only	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			
#907 099) SD #907 099-01-1) DX	TIG	Three-Phase	1–200	200 A at 18 V, 20% Duty Cycle	—	13.7	8.7	6.9	5.5	5.2	80 VDC (5–10 VDC*)	Machine 45 lb (20.5 kg)
				150 A at 16 V, 60% Duty Cycle	—	9.4	6.0	4.7	3.8	3.6		
	Single-Phase	1–200	150 A at 16 V, 60% Duty Cycle	—	15.8	—	7.9	3.6	3.6			
			140 A at 15.6 V, 40% Duty Cycle	31.0	—	—	—	3.6	3.5			
#951 397) DX w/Wireless Foot Control #951 139) DX w/Foot Control #951 140) DX w/Fingertip Control	TIG	Three-Phase	1–200	100 A at 14 V, 100% Duty Cycle	20.7	—	—	—	2.3	2.3	Complete H: 46 1/4 in (1175 mm) W: 23 1/2 in (597 mm) D: 22 1/4 in (565 mm)	Complete 137 lb (62 kg)
				200 A at 28 V, 20% Duty Cycle	—	20.8	13.0	10.2	8.1	7.8		
	Single-Phase	1–200	130 A at 25.2 V, 60% Duty Cycle	—	12.3	7.6	6.0	4.8	4.6			
			130 A at 25.2 V, 60% Duty Cycle	—	20.0	—	10.0	4.7	4.7			
	Stick	Three-Phase	1–200	100 A at 24 V, 60% Duty Cycle	31.3	—	—	—	3.6	3.6		
				90 A at 23.6 V, 100% Duty Cycle	27.6	—	—	—	3.2	3.2		



Dynasty® 350 and 700 AC/DC TIG and Stick

See Literature No. AD/5.0

WIRELESS REMOTE COMPATIBLE

See pages 46 and 47 for wireless remote controls.



Dynasty 350 machine only

NEW! Complete Package with Wireless Foot Control. Improve productivity, maneuverability and reduce potential trip hazard with the wireless foot control. The wireless control operates the welding machine output up to 90 ft away without a cord. The package components have been selected to provide the optimum performance for TIG welding. See at right for package content.

AUTO-LINE Power Management Technology Allows for any input voltage hook-up (208–575 V) with no manual linking, providing convenience in any job setting.

Blue Lightning™ high frequency arc starter for TIG non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters. Easy to set and increases productivity.

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

Wind Tunnel Technology™ protects internal electrical components from airborne contaminants, extending product life.

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

Auto-postflow calculates the length of postflow time based on the amperage setting. Eliminates need to independently set postflow time for different amperages, preserves tungsten and prevents porosity.

Dynasty 350 Welding Capability

Not to scale.

Aluminum Min. — 0.015 in (0.38 mm)
Steel Min. — 0.012 in (0.3 mm)

Aluminum Max. — 5/8 in (15.9 mm)
Steel Max. — 5/8 in (15.9 mm)

Dynasty 700 Welding Capability

Not to scale.

Aluminum Min. — 0.020 in (0.5 mm)
Steel Min. — 0.020 in (0.5 mm)

Aluminum Max. — 1 in (25.4 mm)
Steel Max. — 1 in (25.4 mm)

Dynasty 350 Complete Package with Wireless Foot Control

Program memory features 9 independent program memories that maintain/save your parameters.

Meter calibration for certification purposes.

AC TIG Features

- **Independent amplitude/amperage control** allows the EP and EN amperages to be set independently to precisely control heat input to the work and electrode.
- **Extended balance (30–99%)** controls the amount of oxide cleaning (amperage time in EN) which is essential for high quality welds on aluminum.
- **AC frequency (20–400 Hz)** controls the width of the arc cone and the force of the arc (directional control).
- **AC waveforms** include advanced squarewave, soft squarewave, sine wave and triangular wave for the ultimate in control.

DC TIG Features

- **Exceptionally smooth and precise arc** for welding exotic materials.
- **High-speed DC TIG pulse controls** capable of 5000 pulses per second.

AC/DC Stick Features

- **Tailored arc control (DIG)** allows arc characteristics to be changed for specific application and electrode. Smooth running for 7018 or stiffer, more penetrating for 6010.
- **Hot Start™** adaptive control provides positive arc starts without electrode sticking.
- **AC frequency control** adds additional stability when Stick welding in AC for smoother welds.

Heavy Industrial
CC AC 3 1
DC Phase Phase

Processes

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P)
- Air Carbon Arc (CAC-A)

Dynasty 350 Comes With

- Power source
- 8 ft (2.4 m) primary cord
- (2) Dinse 50 mm connectors
- (1) Set-up and operation CD

Dynasty 700 Comes With

- Power source (primary cord not included)
- (1) thread lock torch adapter
- (2) thread lock weld cable connectors
- (1) Set-up and operation CD

Complete Package Includes Above Plus

- Runner™ cart
- Coolmate™ 3.5 cooler
- Coolant (4 gallons)
- Wireless Foot Control or RFCS-14 HD remote foot control
- 25 ft (7.6 m) water-cooled torch (350: Weldcraft® CS310) (700: Weldcraft® WP18SC)
- 15 ft (4.6 m) work lead with clamp
- Gas hose
- Regulator/flowmeter
- Torch accessory kit with tungsten
- Cable cover

Note: Stick electrode holder not included, must be ordered separately.

Weldcraft® Water-Cooled Torch Kits

- 250 A Torch Kit #300 185 (pg 95)
- 300 A Torch Kit #300 183 (pg 95)
- 400 A Torch Kit #300 186 (pg 95)

Most Popular Accessories

- Wireless Remote Foot Control #300 429 (pg 47)
- Wireless Remote Hand Control #300 430 (pg 47)
- **Runner™ Cart** #300 244 (pg 87)
- Coolmate™ 3.5 Cooler #300 245 (pg 89)
- Low-Conductivity Coolant #043 810 (pg 89)
- Remote Controls (pg 95)



See your Miller distributor for other popular Miller options and accessories.

*More packages are available — see our Web site or Literature No. AD/5.0. **Sense voltage for Low OCV Stick and Lift-Arc™ TIG.

Model	Stock Number*	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz	Max. Open-Circuit Voltage	Dimensions	Net Weight		
Dynasty 350	#(907 204) Machine only Complete Packages #(951 402) w/Wireless Foot Control #(951 401) w/Foot Control	Three-Phase	3–350	250 A at 30 V, 100% Duty Cycle	29 26 15 13 10 10.3 9.9	75 VDC (10–15 VDC**)	Machine H: 24¾ in (629 mm) W: 13¾ in (349 mm) D: 22 in (559 mm)	Machine 135 lb (61 kg)		
				300 A at 32 V, 60% Duty Cycle	35 32 16 16 13 12.7 12.1					
		Single-Phase	3–350	180 A at 27.2 V, 100% Duty Cycle	35 32 — 15 12 7.4 6.8				Complete H: 45½ in (1146 mm) W: 23½ in (587 mm) D: 43¾ in (1111 mm)	Complete 308 lb (140 kg)
				225 A at 29 V, 60% Duty Cycle	47 43 — 21 17 9.8 9.1					
Dynasty 700	#(907 101) Machine only Complete Packages #(951 404) w/Wireless Foot Control #(951 403) w/Foot Control	Three-Phase	5–700	500 A at 40 V, 100% Duty Cycle	75 68 39 34 27 27 26	75 VDC (10–15 VDC**)	Machine H: 34½ in (876 mm) W: 13¾ in (349 mm) D: 22 in (559 mm)	Machine 198 lb (90 kg)		
				600 A at 44 V, 60% Duty Cycle	97 88 51 44 35 35 34					
		Single-Phase	5–700	360 A at 34 V, 100% Duty Cycle	82 74 — 37 30 17 16				Complete H: 55½ in (1400 mm) W: 23½ in (587 mm) D: 43¾ in (1111 mm)	Complete 370 lb (168 kg)
				450 A at 38 V, 60% Duty Cycle	115 104 — 52 42 24 22					

Syncrowave® Series

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

Processes

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

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 for 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.

Syncrowave® 200 AC/DC TIG and Stick

See Literature No. AD/4.4



Syncrowave 200 Runner shown.

Welding Capability

Not to scale.

Aluminum Min. — 0.020 in (0.5 mm)
Steel Min. — 0.020 in (0.5 mm)

Aluminum Max. — 1/4 in (6.4 mm)
Steel Max. — 1/4 in (6.4 mm)

Cable management system uses dual cable hangers and foot control storage conveniently attached to the power source side panels.

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

Light Industrial ● CC AC/DC 1 Phase

Runner Model Comes With

- Power source
 - 6 ft (1.8 m) primary cord
 - No. 39 Running Gear
 - RFCS-14 remote foot control
 - 12-1/2 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
 - Flow gauge regulator with hose
 - Cable and remote foot pedal holders
- See distributor for Miller accessories.

Stock Number	Welding Amperage Range	Rated Output at 40% Duty Cycle	Amps Input at Rated Output, 60 Hz		Max. Open-Circuit Voltage	Dimensions	Net Weight
(#907 308-00-1) 208-230 V Runner	5 – 200	150 A at 26 V	54	KVA 12.5 KW 6.0	80	H: 30 1/8 in (765 mm) W: 21 1/8 in (537 mm) D: 21 1/2 in (546 mm)	238 lb (108 kg)

Syncrowave® 250 and 350 AC/DC TIG and Stick

See Literature No. AD/4.2



Syncrowave 250 machine only

Syncrowave 350 Complete Package

Welding Capability

Not to scale.

Aluminum Min. — 0.015 in (0.4 mm)
Steel Min. — 0.012 in (0.3 mm)

Aluminum Max. — 3/8 in (9.5 mm)
Steel Max. — 1/2 in (12.7 mm)

250 DX Model
Aluminum Max. — 3/8 in (9.5 mm)
Steel Max. — 1/2 in (12.7 mm)

350 LX Model
Aluminum Max. — 1/2 in (12.7 mm)
Steel Max. — 5/8 in (15.9 mm)

Coolmate™ 3X cooler (shown in Complete Package). 3-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%).

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.

Heavy Industrial ● CC AC/DC 1 Phase

Syncrowave 250 DX and 350 LX Come With

- Power source (primary cord not included)
- (2) Dinse 50 mm connectors

Complete Package Includes Above Plus

- No. 37 Running Gear
- Coolmate™ 3X cooler
- Coolant (4 gallons)
- RFCS-14 remote foot control
- 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
- Regulator/flowmeter with hose
- Torch accessory kit with tungsten
- Cable cover

Note: Stick electrode holder not included, must be ordered separately.

See distributor for Miller accessories.

*More packages are available — see our Web site or Literature No. AD/4.2.
Add 12 3/4 inches to height with Complete Package. *Add 139 pounds with Complete Package.

Model	Stock Number*	Welding Amp Range	Rated Output	Amps Input at AC Balanced Rated Load, 1-Phase (Syncro 250 DX, 60 Hz) (Syncro 350 LX, 50/60 Hz)					Max. Open-Circuit Voltage	Dimensions**	Net Weight***
				230 V	460 V	575 V	KVA	KW			
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	H: 36 1/4 in (921 mm) W: 22 1/2 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	H: 36 1/4 in (921 mm) W: 22 1/2 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			



Diversion™ TIG Welders



Scan this tag to see **video on the Diversion advantage.**

Get the free mobile app at <http://gettag.mobi>
See page 2/3 for more information.

Personal Appeal. Professional Grade.

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. Just simplicity combined with superior performance and honest value.

The Diversion series of TIG welders: Making welding easy, fun and affordable — with a TIG arc quality that's undeniably Miller.

Diversion™ 165 and 180 AC/DC TIG See Literature No. AD/1.5

Welding Capability

Not to scale.

Aluminum Min. — 0.030 in (0.75 mm)
Steel Min. — 0.025 in (0.6 mm)

Aluminum Max. — 3/16 in (4.8 mm)
Steel Max. — 3/16 in (4.8 mm)



Diversion 165

Diversion 180



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

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 lb 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.

The 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 (GTAW)

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)
- 12-1/2 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 with content written by Miller
- Set-up and operation DVD
- Welding project blueprint for a machine cart/cylinder rack

Most Popular Accessories

- Premium Running Gear/ Cylinder Rack #770 187 (pg 88)
- Protective Cover #300 579 (pg 95)
- Adapter Cord for RJ45 to 14-Pin #300 688 (pg 95)
- RFCS-RJ45 Remote Foot Control #300 432 (pg 95)
- 125 A, Air-Cooled Standard Torch Body #9LGC
- 125 A, Air-Cooled Pencil Torch Body #9PLGC
- 125 A, Air-Cooled Flex Torch Body #9FXLGC
- 150 A, Air-Cooled Flex Torch Body #17FXLGC

See your Miller distributor for other popular 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	60 A at 12.4 V, 100% Duty Cycle	8 (.20)*	1.8 (.04)*	1.2 (.02)*	80	H: 17 in (433 mm) W: 9 7/8 in (251 mm) D: 23 7/8 in (608 mm)	50 lb (23 kg)
			150 A at 16 V, 20% Duty Cycle	23 (.20)*	5.3 (.04)*	3.7 (.02)*			
			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	60 A at 12.4 V, 100% Duty Cycle	11.3 (.88)*	1.3 (.1)*	1.2 (.03)*			
			125 A at 15 V, 35% Duty Cycle	26.5 (.88)*	3.1 (.1)*	3.0 (.03)*			
	230 VAC	10–180	60 A at 12.4 V, 100% Duty Cycle	5.6 (.44)*	1.3 (.1)*	1.2 (.03)*			
			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)*			



WIRELESS

REMOTES (FOOT & HAND CONTROLS)

MillerWelds.com/Wireless



MORE on the WEB

Complete Control with No Cords Attached



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Get the free mobile app at <http://gettag.mobi>
See page 2/3 for more information.

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!

Suggested Power Sources



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

Wireless Remote Foot Control

Maxstar® 150 STL and STH* (pg 39)
 Maxstar® 200 SD, DX and LX (pg 40)
 Maxstar® 350 and 700 (pg 41)
 Dynasty® 200 SD and DX (pg 42)
 Dynasty® 350 and 700 (pg 43)
 Syncrowave® 250 DX and 350 LX (pg 44)
 PipeWorx™ Welding System** (pg 54)

*Requires Adapter Cord #300 507.

**Requires PipeWorx Wireless Remote Control Kit #300 859 for PipeWorx Systems purchased before March 2011.

Wireless Remote Hand Control

Gold Star® Series (pg 34)
 CST™ 280 (pg 36)
 Maxstar® 200*, 350 and 700 (pg 40 and 41)
 Dynasty® 200, 350 and 700 (pg 42 and 43)
 Dimension™ Series (pg 49)
 XMT® Series** (pg 50 and 51)
 CST™ 280 Rack (pg 56)
 XMT® 304 and 350 Racks** (pg 57)
 Trailblazer® Series (pg 64 and 65)
 Big Blue® 300 Pro (pg 67)
 Big Blue® 350 PipePro® (pg 68)
 Big Blue® 400 Eco Pro (pg 69)
 Miller Du-Op® (pg 69)

*Excludes Maxstar 200 STR. **Excludes XMT 350 VS.



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-ft (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 3 AA batteries
- 4 Easy-Glide Wear Pads™

Suggested Power Sources

- Maxstar® 150 STL/STH* (pg 39)
- Maxstar® 200 SD/DX/LX (pg 40)
- Maxstar® 350/700 (pg 41)
- Dynasty® 200 SD/DX (pg 42)
- Dynasty® 350/700 (pg 43)
- Syncrowave® 250 DX (pg 44)
- Syncrowave® 350 LX (pg 44)
- PipeWorx™ Welding System (may require separate kit, see pg 54)

*Requires Adapter Cord #300 507.

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

See your Miller distributor for other popular 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)	(3) AA Batteries	250 hrs	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)
	14-Pin Receiver	10–35 V AC or DC	N/A	90 ft (27.4 m)					W: 5¾ in (146 mm)	w/Batteries
									D: 11½ in (292 mm)	
									D: 3½ in (89 mm)	0.16 lb (0.07 kg)
									Dia: 1½ in (38 mm)	(0.07 kg)



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 ft 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 1% or 5% increments, for quick and accurate adjustments.

Multiple frequency sharing allows up to 20 systems to operate in a 90-ft (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 job site.

Industrial

Processes

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

*Only with voltage-sensing feeder.

Comes Complete With

- Wireless hand control transmitter
- Wireless 14-pin receiver
- Battery box with 3 AA batteries
- Belt clip

Suggested Power Sources

- Gold Star® Series (pg 34)
- CST™ 280 (pg 36)
- Maxstar® (except STR) (pg 40/41)
- Dynasty® (pg 42/43)
- Dimension™ Series (pg 49)
- XMT® Series (except VS) (pg 50/51)
- Trailblazer® (pg 64/65)
- Big Blue® 300 Pro (pg 67)
- Big Blue® 350 PipePro® (pg 68)
- Big Blue® 400 Eco Pro (pg 69)

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

See your Miller distributor for other popular 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)	(3) AA Batteries	250 hrs	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)
	14-Pin Receiver	10–35 V AC or DC	N/A	300 ft (91 m)					W: 2¾ in (70 mm)	w/Batteries
									D: 1¾ in (35 mm)	
									D: 3½ in (89 mm)	0.16 lb (0.07 kg)
									Dia: 1½ in (38 mm)	(0.07 kg)



MULTIPROCESS



Multiprocess Power Sources and Packages for Demanding Industrial Applications



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 49)	Dimension™ 302 (Pg 49)	XMT® 304 CC/CV (Pg 50)	XMT® 350 VS (Pg 50)	XMT® 350 CC/CV (Pg 50)	XMT® 350 MPa (Pg 51)	Dimension™ 452 (Pg 49)	Dimension™ NT 450 (Pg 53)	XMT® 456 CC/CV (Pg 50)	Dimension™ 652 (Pg 49)
Material	Mild Steel	●	●	●	●	●	●	●	●	●	●
	Stainless Steel	●	◎	●	●	●	●	◎	●	●	◎
	Aluminum*	●	◎	●	●	●	●	◎	●	●	◎
Material Thickness	Gauge (.020 - .125)	●	●	●	●	●	●	◎	●	●	
	Sheet (.125 - .375)	●	●	●	●	●	●	●	●	●	◎
	Plate (.375 - 1 in)							●	●	●	●
	Plate (1+ in)							◎	◎	◎	●
Wire Size	.030	●	●	●	●	●	●	◎	●	●	
	.035	●	●	●	●	●	●	●	●	●	
	.045	◎	◎	◎	◎	◎	◎	●	●	●	●
	.052	◎	◎	◎	◎	◎	◎	●	●	●	●
	1/16		◎	◎	◎	◎	◎	●	●	●	●
	5/64							●	●	●	●
3/32							◎	◎	◎	●	
Process	Short Circuit	★★★★	★★	★★★★	★★★★	★★★★★	★★★★★	★★	★★★★★	★★★★★	
	Pulsed Spray			Optional **		Optional **	★★★★			Optional **	
	Stick	★★★★	★★	★★★★★	★★★★★	★★★★★	★★★★★	★★	★★★★★	★★★★★	★★
	TIG	★★★★	★	★★★★	★★★★	★★★★	★★★★	★	★★★★	★★★★	★
	CAC-A	3/16"	1/4"	1/4"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	3/8"

ICON KEY

CAPABILITY: ● Designed for ◎ Capable of
*XR Push-Pull System recommended for best results.

PROCESS QUALITY: ★ Good ★★ Better ★★★ Best ★★★★★ Optimized



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 (#951 077) shown.

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

Digital meters for presetting or monitoring welding voltage in CV mode and amperage in CC mode.

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

Built-in 14-pin connector provides quick, 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 even when input voltages change $\pm 10\%$.

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

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 88)
- Shopmate 300 Kit #300 150 (pg 91)

See your Miller distributor for other popular 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: 24½ in (622 mm) W: 19 in (483 mm) D: 25½ in (648 mm)	177 lb (80.3 kg)

Dimension™ Series

See Literature No. DC/19.2

"Good!" multiprocess solution delivers dependable performance in demanding applications and combines with the 70 Series wire feeder for a complete welding solution.



WIRELESS REMOTE COMPATIBLE
See pages 46 and 47 for wireless remote controls.

Dimension 452 MIGRunner™ Package (#951 277) shown.

Build your own system at MillerWelds.com/equiptoweld (see pg 19) or see package options below.



DC multiprocess versatility with excellent arc performance in CV (MIG) and CC (Stick, TIG, CAC-A).

Digital voltage control (DVC) enables operator to preset voltage in the CV mode prior to welding.

Arc control for Stick applications allows operators more flexibility when welding in tight areas where sticking electrodes is a problem.

Hot Start™ makes it easy to start difficult electrodes.

Line voltage compensation keeps welding parameters constant even when input voltages change $\pm 10\%$ throughout the day.

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

Power efficient for exceptional return on your investment.

Digital meters display voltage and amperage while welding and also display preset voltage in CV mode.

Heavy Industrial

Processes

- MIG (GMAW)
- Stick (SMAW)
- TIG (GTAW)
- Flux Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A)

Most Popular Accessories

- SuitCase® X-TREME™ Wire Feeders (pg 25)
- 70 Series Wire Feeders (pg 30)
- Standard Running Gear #042 886 (pg 88)
- Standard Cylinder Rack #042 887 (pg 88)
- Industrial MIG 4/0 Kit #300 390 (pg 91)
- Extension Cables (pg 96)
- Bernard® and Tregaskiss™ MIG Guns

When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.

*More models are available — see our Web site or Literature No. DC/19.2.

**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: 30½ 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		—	—	—	—	—	—	—		

XMT® Series

304 CC/CV and 456 CC/CV — See Literature No. DC/18.8
 350 CC/CV, 350 MPa and 350 VS — See Literature No. DC/18.83

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



Except 350 VS model.
 See pages 46 and 47 for wireless remote controls.



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 the use of high-frequency. Starts the arc without contaminating the 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.

Line voltage compensation keeps power constant even if power input varies by ±10%. XMT 350 models further expand line voltage compensation to an amazing +37% and -59% when operating on 460 VAC.

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.

Ultra-tough, polycarbonate-blended cover for control panel protects front controls from damage. *XMT 304 and 350 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. *Optima control can be used with XMT CC/CV models only. Pulsed MIG is built-in on XMT 350 MPa and is not available on XMT 350 VS.*

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

115 VAC auxiliary power provides 10 amps of circuit-breaker-protected power for water circulators, etc. *Standard on XMT 456 and optional on XMT 304, XMT 350 CC/CV and XMT 350 MPa. Not available on XMT 350 VS.*

*Wire feeders include Bernard® MIG gun.

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

Heavy Industrial XMT 456 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, 456: 3/8 in)

*XMT 350 MPa. XMT CC/CV models with optional control. Not available on VS model.

Most Popular Accessories for non-VS Models

- XR-AlumaFeed™ Feeder for aluminum (XMT 350 MPa only) #300 509 (pg 13)
- SuitCase® RC Feeders (pg 26)
- Spoolmatic® 30A/WC-24 (pg 28)
- XR™-Controls (pg 29)
- 22A and 24A Feeders (pg 30)
- 70 Series MPa Plus Feeders (XMT 350 MPa only) (pg 31)
- Optima™ MIG Pulse Control #043 389 (pg 91)
- Current Sensor (XMT 456 only) #194 807 (Field)

Most Popular Accessories for VS Model

- Spoolmatic® 30A/WC-115A (with contactor) (pg 28)

Most Popular Accessories for all Models

- SuitCase® X-TREME™ VS Feeders (pg 25)
- XMT® Rack (pg 57)
- Cylinder Cart #042 537 (pg 87)
- Universal Cart and Cylinder Rack (XMT 304/350 only) #042 934 (pg 87)
- MIGRunner™ Cart (XMT 304/350 only) #195 445 (pg 88)
- Running Gear Cylinder Rack (XMT 456 only) #300 408 (pg 88)
- Coolmate™ Coolant System (pg 89)
- Protective Cover (XMT 304/350 only) #195 478 (pg 95)
- Bernard® Q-Gun™

See your Miller distributor for other popular Miller options and accessories.

Model	Stock Number	Input Power	Amperage/Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz 208 V 230 V 400 V 460 V 575 V KVA KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
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: 12½ 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: 12½ 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 25.4 19.9 11.7 11.2			
XMT 350 VS (w/Tweco®)	(#907 224) 208–575 V (CC/CV inverter ideal for construction — no remote control, order mating Tweco 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: 12½ 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 25.4 19.9 11.7 11.2			
XMT 456 CC/CV (w/Stud ½")	(#907 010) 230/460 V (#907 010-01-1) 230/460 V w/Remote On/Off (#907 011) 575 V	Three-Phase	CC Mode: 5–600 A CV Mode: 10–38 V	450 A at 38 VDC, 100% Duty Cycle; 565 A at 43 VDC, 60% Duty Cycle	— 50.8 31 27.8 24.4 21.2 19.2	95 VDC	H: 17 in (432 mm) W: 14½ in (368 mm) D: 26 in (660 mm)	118 lb (53.5 kg)



XMT® 304 CC/CV Additional Features

Auto-Link® circuit automatically links the power source to primary voltage being applied (230/460 or 460/575 VAC, single- or three-phase).

Dinse-style weld disconnects provide high-quality weld cable connections (two connectors supplied with each unit).

XMT® 350 Additional Features

CC/CV, MPa and VS models available. See MPa model below for built-in Pulsed MIG features. VS model is capable of both CV and CC operation, but has a simple four-position front panel *without remote control receptacle. Ideal for construction.*



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

Reduced OCV operation—an internal dip switch enables reduced open-circuit voltage Stick welding capability. OCV is typically below 15 volts.

Auto Remote Sense™ enables unit to automatically use remote control if connected to remote control receptacle *CC/CV and MPa models only.*

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

Optional gas solenoid kit (#195 286) for TIG welding. Works with VS and non-VS models.

XMT® 456 CC/CV Additional Features

Unique case design helps protect internal components from dirt and dust. To connect input power cord and/or set unit up for correct input power, remove the easy-to-handle panel (1/3 case). The remaining two-thirds of the case never needs to be removed!

Primary voltage display shows what primary voltage the power source is set for without removing the side panels. Saves time and assures you that the power source has been correctly set for available input voltage.

Optional 230/460 V model with remote on/off (#907 010-01-1) provides ability to turn power source on or off when it is located away from your work.

XMT® 350 MPa Additional Features

Superior Pulsed MIG welding capabilities with simple-to-use multiprocess controls. Reliable inverter design combines with the SuitCase® X-TREME™ feeders to provide the industry's "Best!" portable solution.

XMT 350 MPa takes the features of the XMT 350 CC/CV multiprocess inverter 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 core, 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—The XR-AlumaFeed™ feeder for aluminum welding or the S-74 MPa for steel give 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



*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/Tweco (#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: 12½ 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 25.4 19.9 11.7 11.2			



XMT® WCC System

See Literature No. DC/18.87

The WCC (Weld Cable Control) System matches an XMT 350 or XMT 456 multiprocess welding inverter with a WCC Control to provide remote voltage control for MIG/Flux Cored welding when used with a SuitCase X-TREME WCC voltage-sensing feeder.



XMT 350 and 456 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 456 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 ft).

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 5 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 pg 50–51 for XMT power source features and pg 25 for SuitCase X-TREME VS feeder features.



Scan this tag to view XMT WCC videos.

Get the free mobile app at <http://gettag.mobi>
See page 2/3 for more information.

*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.

Heavy Industrial ●
DC 3 1 ● XMT 456
 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, 456: 3/8 in)

System Package Includes

- XMT 350 CC/CV with Tweco connections OR XMT 456 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 456 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 57)
- Cable Connectors and Adapters (pg 87)
- Cylinder Cart #042 537 (pg 87)
- Universal Cart and Cylinder Rack (XMT 350 only) #042 934 (pg 87)
- MIGRunner™ Cart (XMT 350 only) #195 445 (pg 88)
- Running Gear Cylinder Rack (XMT 456 only) #300 408 (pg 88)
- Protective Cover (XMT 350 only) #195 478 (pg 95)

See your Miller distributor for other popular Miller options and accessories.

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**
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: 12½ 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 456 CC/CV 230/460 V (#951 366) System Package with 8VS feeder (Tweco®) (#951 367) System Package with 12VS feeder (Tweco®) (#951 362) Power Source Package (Dinse) (#951 363) Power Source Package (Tweco®)	Three-Phase	CC Mode: 5–600 A	450 A at 38 VDC, 100% Duty Cycle; CV Mode: 565 A at 43 VDC, 60% Duty Cycle	— 50.8 31 27.8 24.4 21.2 19.2	95 VDC	H: 17 in (432 mm) W: 14½ in (368 mm) D: 26 in (660 mm)	118 lb (53.5 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) Flux Cored .030–.062 in (0.8–1.6 mm)	8 in (203 mm), 14 lb (6.4 kg)	H: 12¾ in (324 mm) W: 7¼ 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 .030–5/64 in (0.8–2.0 mm)	12 in (305 mm), 45 lb (20 kg)	H: 15½ in (394 mm) W: 9 in (229 mm) D: 21 in (533 mm)	35 lb (15.9 kg)

Dimension™ NT 450

See Literature No. DC/19.5

A new generation of hybrid welding technology that improves arc starting and welding performance. Combining this power source with 70 Series wire feeders offers a “Better!” solution for industrial market applications.

Build your own system at MillerWelds.com/equiptoweld (see pg 19) or see package options below.



Dimension NT 450 (#907 256)

Build your own system at MillerWelds.com/equiptoweld.

DC multiprocess flexibility with outstanding arc performance in all welding processes.

Digital meters allow presetting of voltage or amperage prior to welding in all modes for more precise welding control.

Electronic arc control with digital display gives operator added flexibility on a variety of Stick electrodes.

Electronic inductance control with digital display reduces spatter and gives operator added control on a larger variety of welding wires.

Line voltage compensation keeps welding parameters constant even when input voltages change $\pm 10\%$.

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

Power efficient for exceptional return on your investment.

Help codes to help troubleshoot and service power source. Codes are displayed on the volt/amp meters and help reduce service time.

Processes

- MIG (GMAW)
- Stick (SMAW)
- TIG (GTAW)
- Flux Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A)



Most Popular Accessories

- SuitCase® X-TREME™ Wire Feeders (pg 25)
- 70 Series Wire Feeders (pg 30)
- Standard Running Gear #042 886 (pg 88)
- Standard Cylinder Rack #042 887 (pg 88)



- **Industrial MIG 4/0 Kit #300 390** (pg 91)
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.
- Remote Controls (pg 95)
- Extension Cables (pg 96)
- Air Filter Kit #042 939
- Bernard® and Tregaskiss™ MIG Guns

When purchasing components separately please see your Miller distributor or visit MillerWelds.com/equiptoweld for other popular Miller options and accessories.



Dimension NT 450 Stationary Package (#951 275)

Stationary display without running gear/cylinder rack.

Comes complete with:

- Dimension NT 450 power source
- S-74D wire feeder with drive rolls
- Bernard® Q-Gun™
- Industrial MIG 4/0 Kit (see listing at right for kit contents)



Dimension NT 450 MIGRunner™ Package (#951 279)

MIGRunner system with factory-installed running gear/cylinder rack.

Comes complete with everything in Stationary Package plus:

- Factory-installed running gear/cylinder rack

*While idling. **Dimensions and weight are for power source only — includes lift eye and strain relief.

Stock Number	Amperage Range	Voltage Range	Rated Output	Amps Input at Rated Output, 60 Hz					Max. Open-Circuit Voltage	Dimensions**	Net Weight
				230 V	460 V	575 V	KVA	KW			
(#907 256) 230/460/575 V, Machine only	5–500 A in CC mode	10–38 V in CV mode	450 A at 38 VDC, 100% Duty Cycle	57	29	23	22.6	21.0	80 VDC	H: 32½ in (826 mm) W: 23 in (585 mm) D: 38 in (966 mm)	376 lb (171 kg)
(#951 275) 230/460/575 V, Stationary Pkg				2.18*	1.04*	0.84*	0.87*	0.29*			
(#951 279) 230/460/575 V, MIGRunner Pkg											

PipeWorx™ Welding System

See Literature
No. PWS/2.0

Optimized for pipe fabrication shops.

PipeWorx Welding System (Includes feeder drive rolls. Filler metal sold separately.)
230/460 V system (#951 381) shown.
575 V system (#951 382) also available.



Requires PipeWorx Wireless Remote Control Kit #300 859 for PipeWorx Systems purchased before March 2011. See pages 46 and 47 for wireless remote controls.

Now Available!

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.

Free PipeWorx Welding System CD

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

RMD™ (Regulated Metal Deposition).

Precisely controlled short-circuit metal transfer process provides a calm, stable arc and weld puddle for less chance of cold lap or lack of fusion, less spatter and a higher quality root pass on pipe.

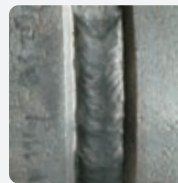
The stability of the weld process lessens the need for puddle manipulation and is more tolerant to hi-lo conditions, reducing training requirements. Weld bead profiles are thicker than conventional root passes which can eliminate the need for a hot pass. In some stainless steel applications, it may be possible to eliminate the backing (purge) gas to further improve productivity and reduce welding costs.



RMD Carbon Steel

Pro-Pulse™ Pulse welding method that provides a shorter arc length, narrower arc cone and less heat input than traditional spray pulse transfer.

Closed-loop process control virtually eliminates arc wander and variations in tip-to-work (arc length) distance, providing easier puddle control and less training time. Also improves fusion and fill at the toe of the weld, for higher travel speeds and deposition. This process coupled with RMD for root passes permits procedures using the same wire and gas, eliminating process switch-over time.



Pro-Pulse Stainless

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 4 programs for each selection: Stick, DC TIG, and MIG (left and right side of feeder). Eliminates the need to remember parameters.

Multiprocess Machine

- Weld processes are optimized to deliver superior arc performance and stability specifically for root pass, fill and cap pipe welding.
- RMD™ and Pro-Pulse™.

Quick Process Changeover

- No need to manually switch polarity or cables and hoses between processes. Simply push a process selection button to choose a welding process. PipeWorx “Quick-Select” technology automatically selects the welding process, the correct polarity, cable outputs and user programmed welding parameters.
- Quick process changeover eliminates set-up time for switching cables and gas hoses. Also, reduces the risk of weld reworks due to incorrect cable connection.

Streamlined System

- Wind Tunnel Technology™ and Fan-On-Demand™ provide system protection in the dusty shop environment.
- All system components have been selected to meet the needs of a pipe fabrication shop.

Heavy Industrial

Processes

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

PipeWorx Welding System Comes Complete With

- Power source with cable hangers #907 382 or #907 384
- Running gear 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 #300 467
For remote feeder applications. Includes consumables drawer.
- PipeWorx Cooler #300 370
- PipeWorx Remote Feeder Interface w/gun triggers and cable #300 597
- Spool Cover #057 607
For single or left side of dual feeder.
- Spool Cover #090 389
For right side of dual feeder.
- 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

See distributor or visit MillerWelds.com for other Miller options and accessories.

*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			KVA			KW			Max. Open-Circuit Voltage	Dimensions*	Net Weight*
				230 V	460 V	575 V	230 V	460 V	575 V	230 V	460 V	575 V			
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: 28½ in (724 mm) W: 19½ in (495 mm) D: 31¼ 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			
PipeWorx Power Source only (#907 382) 230/460 V (#907 384) 575 V	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			

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



MORE on the WEB

MillerWelds.com/Multioperator

Product Guide	Page	Class	Stick	MIG	MIG-P	Flux Cored	DC TIG	DC TIG-P	CAC-A (1-Unit)	Portability	Weldable Metals	Welding Output Range	Special Features	Typical Applications
Mark VI™	56	●	●	●	●*	●	●	●	3/16"	Lift eye	Steel, stainless	20–315 A	Up to 6 operators	Construction, fabrication, pipe, shipbuilding
Mark VIII®-2	56	●	●	●	●	●	●	●	3/16"	Lift eye	Steel, stainless	35–300 A	Up to 8 operators	Construction, fabrication, pipe, shipbuilding
CST™ 280 Racks	56	●	●	●	●	●	●	●	5/16"†	Lift eye, optional running gear	Steel, stainless	5–280 A	Up to 4 or 8 operators, lightweight	Construction, maintenance/repair, shipbuilding
XMT® 304 Rack	57	●	●	●	●**	●	●	●**	1/4"	Lift eye, optional running gear	Steel, stainless	10–35 V 5–400 A	Up to 6 operators	Construction, fabrication, pipe, maintenance/repair
XMT® 350 VS Rack	57	●	●	●	●	●	●	●	5/16"	Lift eye, optional running gear	Steel, stainless	10–38 V 5–425 A	Up to 6 operators	Construction, fabrication, pipe, maintenance/repair
XMT® 350 CC/CV Rack	57	●	●	●	●**	●	●	●**	5/16"	Lift eye, optional running gear	Steel, stainless	10–38 V 5–425 A	Up to 6 operators	Construction, fabrication, pipe, maintenance/repair
XMT® 350 MPa Rack	57	●	●	●	●	●	●	●**	5/16"	Lift eye, optional running gear	Steel, stainless	10–38 V 5–425 A	Up to 6 operators	Construction, fabrication, pipe, maintenance/repair
Miller Du-Op™ (Engine Drive section)	69	●	●	●	●	●	●	●	3/8"	Lift eye, optional trailer	Steel, stainless	15–600 A	Multioperator engine drive	Construction, rental

3-Phase

PRODUCT KEY

CLASS: ● Light Industrial ● Industrial ● Heavy Industrial CAPABILITY: ● Designed for this process ● Capable of this process
 *CC/CV models only. **With optional controls. †Two machines paralleled. For more detailed information, see individual specification sheets.

Mark VI™ and Mark VIII-2®

See Literature
No. DC/9.8 and DC/10.0

Durable, heavy-duty multiple-operator welding systems drive four, six or eight modules from a single main transformer.



Mark VI

Mark VIII-2



Mark VI Features

Multiple capabilities CC or CC/CV. Versatility and outstanding arc welding in both CV (MIG) and CC (TIG and Stick). CC/CV module has a high quality arc for welding with cored wires. CC module has same great arc characteristic as the Gold Star® 302.

Four to six welding modules that can be paralleled for higher output.

Line voltage compensation keeps output constant, even if primary input power varies by ±10%.

Optional Low OCV modules reduce maximum open-circuit voltage to 26 volts in CC and CV modes when not welding.

Mark VIII-2 Features

Eight modules that can be paralleled for higher output.

MagAmp Technology provides excellent arc and puddle control.

Multiple CC capabilities. Stick, TIG, Air Carbon Arc cutting and gouging, and Flux Cored welding with a voltage-sensing feeder.

15 amp 115 VAC duplex receptacle allows operators the flexibility to run grinders, drills, coolers, etc. from the power source.

Heavy Industrial Mark VIII-2 is CC only.

Processes

- Stick (SMAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (3/16 in carbons)
- Flux Cored (FCAW) and MIG Spray Transfer (GMAW) with voltage-sensing feeder
- MIG (GMAW) with Mark VI CC/CV units

Most Popular Accessories



- SuitCase® X-TREME™ VS Wire Feeders (pg 25)
- Remote Controls (pg 95)

See your Miller distributor for other popular Miller options and accessories.

Model	Stock Number	DC Welding Range, Single Module	Rated Welding Output	Amps Input	Max. Open-Circuit Voltage (DC)	Dimensions	Net Weight
Mark VI-2 (4 CC Modules)	(#903 588) 230/460/575 V, 60 Hz	CC: 20–315 A	Single Module 250 A at 44 VDC, 60% Duty Cycle	At 750 Amps Output, 50/60 Hz 230 V 164 460 V 82.5 575 V 66.1 KVA 65.2 KW 41.9	CC: 75 VDC	H: 65 in (1.7 m) W: 56¾ in (1.4 m) D: 34¼ in (0.9 m)	Mark VI-2 1575 lb (718 kg)
Mark VI CC (6 CC Modules)	(#903 512) 230/460/575 V, 60 Hz		Main Transformer 1500 A at 44 VDC, 25% Duty Cycle 750 A at 44 VDC, 100% Duty Cycle				
Mark VI CC/CV (6 CC/CV Modules)	(#903 645) 230/460/575 V, 60 Hz (#903 645-01-1) Low OCV Module	CC: 20–315 A CV: 10–30 V			CC: 75 VDC, CV: 38 VDC Low OCV modules: 26 VDC		Mark VI 1825 lb (828 kg)
Mark VIII-2	(#901 348) 230/460/575 V	CC: 35–300	Single Module 200 A at 40 VDC, 60% Duty Cycle	At 800 Amps Output, 60 Hz 230 V 170 460 V 85 575 V 68 KVA 68 KW 48.6	CC: 80	H: 70¼ in (1.8 m) W: 72 in (1.8 m) D: 40 in (1 m)	4050 lb (1837 kg)
			Main Transformer 1600 A at 40 VDC, 25% Duty Cycle 800 A at 40 VDC, 100% Duty Cycle				

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 46 and 47 for wireless remote controls.



CST 280 8-Pack Rack shown.

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

Top cover protects machines from falling debris.

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 dual rack kit connects two 4-pack CST racks to form an 8-pack rack, utilizing one input power cable and one lift.

Optional rack running gear available for moving the rack.

Heavy Industrial

Processes

- Stick (SMAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Paralleled CST 280s: 5/16 in carbons)

Most Popular Accessories

- Dual Rack Kit #195 267



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

Model/Stock Number	Rack Capacity	Input Power to Rack	Welding Power Source	Dimensions	Net Weight
4-Pack Rack (#907 247) Tweco®-style (#907 245) Dinse-style	4 units, 8 units with optional dual rack kit	220-230/460-575 V, 50/60 Hz, Three-Phase	CST 280s linked for 460-575 V with Tweco- or Dinse-style connectors. The Dinse-style includes one set of male connectors; the Tweco-style does not. See pg 36 for information on CST 280.	H: 50¾ in (1289 mm) 4-Pack W: 25½ in (648 mm) 8-Pack W: 46 in (1168 mm) D: 26½ in (673 mm)	355 lb (161 kg)
8-Pack Rack (#907 365) Tweco®-style	8 units				
Empty Rack (#195 051)	4 units	—	Can contain any CST models.	Same as 4-Pack Rack	166 lb (75 kg)

XMT[®] 304 and 350 Racks

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

Heavy Industrial

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



Except 350 VS rack.
See pages 46 and 47
for wireless remote
controls.

XMT 350 6-Pack
Rack shown.

Custom build your own system by mix and matching Miller's XMT[®] 304 CC/CV, 350 CC/CV, 350 MPa, 350 VS and 456 CC/CV; and Invision[™] 352 MPa, 456MP and 456P. (XMT[®] 456 CC/CV, Invision[™] 456MP and 456P — maximum of 4 units.)

Both 4-rack and 6-rack models are available with **two lift eyes** for transportation and **rugged skids** for dragging or pushing.

Lift truck side and end pockets in base enable loading and work site repositioning with forklift.

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

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

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 VAC. (575 VAC operation, if applicable, also utilizes 20 A fuses.)

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 456: 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[®] X-TREME[™] VS Feeders (pg 25)
- SuitCase[®] RC Feeders (pg 26)
- Remote Controls (pg 95)



- 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 456 (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 3/8 in (1508 mm) W: 43 in (1092 mm) D: 34 3/8 in (873 mm)	4 Units 560 lb (254 kg) 6 Units 712 lb (323 kg)
	(#907 293) Dinse-style	(#907 294) Dinse-style			
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			
Empty Rack	(#195 466) Can contain XMT 304, XMT 350, or Invision 350 MPa (6 Units); XMT 456 CC/CV or Invision 456 (4 Units)		(Order required fuse kit separately)		279 lb (127 kg)



ENGINE

DRIVEN



MORE on the WEB

MillerWelds.com/EngineDriven

Product Guide

	Page	Class	Stick	MIG	Flux Core†*	AC TIG	DC TIG	PAC**	CAC-A	Portability	Weldable Metals	Std. Generator Pwr. (Watts)	Welding Amperage Range	Engine Brand	Special Features	Typical Applications
Gasoline	Blue Star® 145 and 145 DX	59	●	●			●	●		Optional lift eye, running gear	Steel	4500	40-145 DC	Kohler	Compact, portable	Maintenance, service trucks
	Blue Star® 185 DX	59	●	●			●	●			Steel	6000	55-185 DC	Kohler	Compact, portable	Maintenance, service trucks
	Wildcat® 200	59	●	●			●	●		Lift eye, pickup mount, optional running gear,	Steel	6500	50-200 DC	Subaru	Compact, lightweight	Maintenance, repair, farm/ranch
	Bobcat™ 225	62	●	●	●	●	●	●			Steel, alum, stainless	11,000	50-225 AC 50-210 DC	Kohler, Subaru	Cost-effective AC/DC Stick	Maintenance, farm/ranch, construction
	Bobcat™ 3 Phase	60	●	●	●	●	●	●				1-Ph/10,500 3-Ph/11,000	50-225 AC 50-210 DC	Kohler	Backup power for pivot irrigation	Farm/ranch
	Bobcat™ 250	63	●	●	●	●	●	●	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	64	●	●	●	●	●	●	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	64	●	●	●	●	●	●	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™	65	●	●	●	●	●	●	3/16"			13,000	30-225 AC 10-350 DC	Kohler	AC/DC, CC/CV, 26 CFM air, battery charge/jump start	Service/maintenance, construction
Diesel	Bobcat™ 250 Diesel	63	●	●	●	●	●	●	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	64	●	●	●	●	●	●	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	67	●	●	●	●	●	●	1/4"	Lift eye, pickup mount, optional trailer	Steel, stainless	12,000	20-410 DC	Caterpillar, Mitsubishi	Low-speed engine, compact, rugged, quiet	Pipe, structural, construction
	Big Blue® 350 PipePro®	68	●	●	●	●	●	●	1/4"		Steel, stainless	12,000	20-400 DC	Mitsubishi	Premium pipe arc	Pipe, structural
	Big Blue® 400 Eco Pro	69	●	●	●	●	●	●	5/16"		Steel, stainless	5500	20-500 DC	Mitsubishi	Compact, fuel efficient	Construction, rental
	Big 40®	70	●	●	●	●	●	●	5/16"	Lift eye, generally mounted on optional trailer	Steel, alum, stainless	5500	15-500 DC	Caterpillar	AC/DC on Deluxe model	Construction, rental
	Big Blue® 400	70	●	●	●	●	●	●	5/16"		Steel, stainless	5500	15-500 DC	Deutz, Perkins	Engine & process choice	Offshore, construction, rental
	Big Blue® 500	70	●	●	●	●	●	●	3/8"		Steel, stainless	5500	20-600 DC	Deutz	Engine & process choice	Offshore, construction, rental
	Miller Du-Op®	69	●	●	●	●	●	●	1/2"		Steel, stainless	5500	15-600 DC	Deutz	Multioperator engine drive	Construction, rental
Big Blue® Turbo	71	●	●	●	●	●	●	1/2"		Steel, stainless	5500	20-750 DC	Deutz	Turbo for high altitude	Construction, mining	
Big Blue® Air Pak™	71	●	●	●	●	●	●	1/2"		Steel, alum, stainless	5500	20-750 DC	Deutz	AC on Deluxe model	Repair, mining, railroad	

Why buy a GAS or DIESEL engine?

Gasoline Advantages

- Lower product cost (by 50 - 70%)
- Smaller size and less weight
- Less expensive engine repairs
- Better warranties
- Easier cold weather starting

EFI Advantages (vs. Carburetor Models)

- 12 - 27% 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 - 40% 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.



Blue Star® Series 145, 145 DX, 185 DX

See Literature No. ED/2.5

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



Blue Star 145

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.

DX models include electric start, 5-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

Kohler CS10: Blue Star 145/145 DX
Kohler CS12.75: Blue Star 185 DX
 1-cylinder, 4-cycle, overhead valve, air-cooled

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- Millermatic® 140 Auto-Set™ #907 335 (pg 8)
- Millermatic® 180 Auto-Set™ #907 312 (pg 8)
- Lifting Eye #195 353 (pg 90)
- No. 38 Running Gear #195 352 (pg 90)
- Protective Cover #195 193 (pg 90)
- No. 2 Stick Cable Set (pg 94)

See your Miller distributor for other popular Miller options and accessories.

*More models available — see our Web site or Literature No. ED/2.5.

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	(#907 266) Kohler Recoil Start, 10 HP at 3600 RPM	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: 22¾ in (578 mm)	263 lb (119 kg)
	Blue Star 145 DX	(#907 267) Kohler Electric Start, 10 HP at 3600 RPM					W: 22¾ in (578 mm)	309 lb (140 kg)
	Blue Star 185 DX	(#907 269) Kohler Electric Start, 12.75 HP at 3600 RPM	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	D: 31½ in (803 mm)	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 7-gallon fuel tank when using a typical 1/8 in Stick electrode.

Tested and rated at 104°F (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

1-cylinder, 4-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 76)
- Adapter Cord, Full KVA #300 517 (pg 90)
- Wildcat 200 Running Gear #300 532 (pg 90)
- Protective Cover #300 496 (pg 90)

See your Miller distributor for other popular Miller options and accessories.

Note: See gas engine drive comparison chart on page 61.

*More models available — see our Web site or Literature No. ED/3.0.

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
	(#907 403) Subaru 14 HP at 3600 RPM	CC/DC (Stick/TIG)	50–200	150 A at 25 V, 100% Duty Cycle 200 A at 25 V, 20% Duty Cycle	Peak: 6500 watts Continuous: 5500 watts	H: 24¾ in (629 mm) W: 20 in (508 mm) D: 35½ in (902 mm)	345 lb (159 kg)

Bobcat™ 3 Phase

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.



Accu-Rated™ 11,000 watts of 3-phase (480 V) for irrigation pivot systems or Accu-Rated 10,500 watts of 1-phase (120/240 V) for your house, barn, or on the job tools.

Maintenance displays, fully enclosed case and fuel gauge.

Welding and power ratings are at 104°F (40°C)—highest in its class to ensure reliable performance.

Bobcat 3 Phase is a 11,000 watt generator with Bobcat 225 weld output.



Industrial CC CV AC DC

Processes

- Stick (SMAW)
- MIG (GMAW)¹
- Flux Cored (FCAW)¹
- AC²/DC TIG (GTAW)

¹With voltage-sensing feeder only.

²With Dynasty® 200 Series or HF-251 (non-critical).

Engines

Gasoline: Kohler CH 23

Twin-cylinder, 4-cycle, OHV, industrial, air-cooled

Note: Engines are warranted separately by engine manufacturer.

See distributor for Miller accessories.

Gasoline

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
#907 255 Kohler 23 HP at 3600 RPM	CC/AC	Stick/TIG	50–100 A	225 A at 25 V, 100% Duty Cycle	1-Phase Peak: 10,500 watts Continuous: 9500 watts 3-Phase (480 V) Peak: 11,000 watts Continuous: 10,000 watts	H: 28 in (711 mm) H: 33 in (838 mm) to top of exhaust W: 20 in (508 mm) D: 45½ in (1156 mm)	540 lb (245 kg)
	CC/DC		70–150 A 85–225 A (210 DC)	210 A at 25 V, 100% Duty Cycle			
	CV/DC	MIG/FCAW	19–28 V	200 A at 20 V, 100% Duty Cycle			

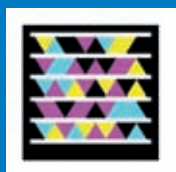
Electronic Fuel Injection

Savings Advantage Comparison Chart

	Carburetor Models	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.



Scan this tag to hear from an EFI customer.

Get the free mobile app at <http://gettag.mobi>
See page 2/3 for more information.

THE GREEN REVOLUTION STARTS BY OWNING BLUE

Now, thanks to breakthrough work with our engine suppliers, Miller is the exclusive provider of gas welder/generators with EFI technology.

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% better fuel economy.
- Up to 27% 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 63 and 64.



Choose the Right Gas Engine Drive

Wildcat® 200 (pg 59)



UPGRADE

Bobcat™ 225 (pg 62)



UPGRADE

Bobcat™ 250 (pg 63)



UPGRADE

Trailblazer® 275 DC (pg 64)



UPGRADE

Trailblazer® 302 (pg 64)



Product Description

Compact, lightweight, durable, and cost-effective machine is designed for contractors, maintenance/repair, and farm and ranch applications.

Cost-effective, multiprocess machine primarily used for Stick, is great for farm, ranch, stand-alone generator, and maintenance/repair operations.

Rugged engine drive is great for Stick and Flux Cored welding and is designed for maintenance/repair operations, ranch 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 Very Good

Stick – AC (AC electrode) —

MIG – Wire (Solid/FCAW), Steel See Accessories below

MIG – Wire, Aluminum w/Spool Gun —

TIG – DC, Steel Good

TIG – AC, Aluminum w/H.F.* —

Generator

Watts 6,500 Watts

Power Quality Good/Very Good

Power While Welding Fair
With voltage control set near maximum

Key Features

Fuel Capacity 7 gallon

Sound Levels at 23 ft (7 m) 82.3 dB

Digital Meters with SunVision™ No

Stick: DIG/Adaptive Hot Start™ No

Maintenance Displays Hours/Oil Change

Polarity Switch No

14-pin Remote Receptacle No

Accessories

Wire Feeders —

Spool Guns —

MIG (All-in-One), Plug-In Millermatic® 180 and smaller

TIG (AC/DC), Plug-In Dynasty® 200

Plasma Cutters (see chart on pg 70) Spectrum® 375 X-TREME™

Very Good/Excellent

Very Good/Excellent

Good

Good

Very Good

Fair/Good

11,000 Watts

Very Good/Excellent

Good
Easier to fine tune arc with voltage control near maximum

12 gallon

75.5 dB (1/3 less noise)

No

No

Hours/Oil Change/Fuel

Yes

No

SuitCase® VS**

Spoolmatic™ 3035/SGA 100C

Millermatic® 212 and smaller

Dynasty® 200

Spectrum® 875 at 50 A and smaller

Excellent

Very Good/Excellent

Excellent (325 Amps)

Excellent (325 Amps)

Excellent

Very Good

11,000 Watts/12,000 with EFI

Very Good/Excellent

Excellent
Independent weld and generator — no interaction between tools and the welding arc

12 gallon

75.5 dB (1/3 less noise)

Yes

Yes

Hours/Oil Change/Fuel/RPWMs

Yes

Yes

SuitCase® VS and RC**

Spoolmatic® 30A/WC-24 (325 Amps)

Millermatic® 212 and smaller

Dynasty® 200

Spectrum® 875 at 50 A and smaller

Bobcat™ 225 See Literature No. ED/4.4

Cost-effective, multiprocess machine primarily used for Stick welding is great for farm/ranch, stand-alone generator, and maintenance/repair operations.



Toughest Welders...



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).

Fully enclosed case provides reduced sound levels and fully protects the engine.

Maintenance displays show engine hours and hours left before an oil change is due.

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.

Ten-degree skewed-rotor design for smoother generator power — better power, better performance.

Fuel capacity of 12 gallons means many hours of run time before refueling.

EXCLUSIVE! 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 are required by OSHA and CSA for job site safety.

Welding and power ratings are at 104°F (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.

Typical Equipment Power Usage

Bobcats and Trailblazers will easily start and run the following equipment:

Farm Equipment	Starting Watts	Running Watts
Barn cleaner (5 HP)	11,600	3000
Silo unloader (5 HP)	12,200	4300
Portable conveyer (1/2 HP)	3400	1000
Milker (5 HP)	10,500	2800
Contractor Tools		
Hand drill (1/2 in)	600	600
Circular saw (8 1/4 in)	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™ MIG welder, 230 V	6500	6500
Spectrum® 625 X-TREME™ 30 A, 230 V, 1/2 in cut	6900	6900

Note: See gas engine drive comparison chart on page 61.

**More models available — see our Web site or Literature No. ED/4.4.*

Industrial ● CC CV AC DC

Processes

- AC/DC Stick (SMAW)
- MIG (GMAW)¹
- Flux Cored (FCAW)¹
- AC²/DC TIG (GTAW)

¹With voltage-sensing feeder only.

²With Dynasty® 200 Series or HF-251 (non-critical).

Gasoline Engines

Kohler CH 23 or Subaru EH 65

V-twin-cylinder, 4-cycle, overhead valve, industrial, air-cooled

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ Wire Feeders (pg 25)
- Dynasty® 200 Series (pg 42)
- Spectrum® Plasma Cutters 375 X-TREME™ #907 339 (pg 76) 625 X-TREME™ #907 404 (pg 76)
- Adapter Cord, Full KVA #300 517 (pg 90)
- 1-Phase Full KVA Plug Kit #119 172 (pg 90)
- Remote Oil Drain/Filter Kits (pg 90)
- All-Purpose Running Gear (pg 90) #300 396 with Inner Tubes #300 477 with Never Flat™ tires



- **Protective Cover #195 333** (pg 90) (for use **without** Running Gear or Protective Cage)
- **Protective Cover #195 529** (pg 90) (for use **with** Running Gear)



- **Protective Cage with Cable Holders #195 331** (pg 90)
- **HWY-1000 Trailer #195 013** (pg 91)
- Engine Tune-up Kits are available from your Miller parts distributor.

See your Miller distributor for other popular Miller options and accessories.

Gasoline	Stock Number* (#907 209) Kohler 23 HP at 3600 RPM (#907 210) Subaru 23 HP at 3600 RPM	Welding Mode	Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions H: 28 in (711 mm) H: 33 in (838 mm) to top of exhaust W: 20 in (508 mm) D: 45 1/2 in (1156 mm)	Net Weight 530 lb (240 kg)
		CC/AC	Stick/TIG	50–100 A 70–150 A	225 A at 25 V, 100% Duty Cycle	Peak: 11,000 watts Continuous: 9500 watts		
		CC/DC		85–225 A (210 DC)	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 (Gas, LP or Diesel)

See Literature No. ED/4.4

Rugged engine drive is great for Stick and Flux Cored welding and is designed for maintenance/repair operations, construction, farm/ranch, and generator use.



Bobcat 250 gas model shown.

Toughest Welders...



Optional EFI Electronic Fuel Injection (EFI) Benefits vs Carburetor Models

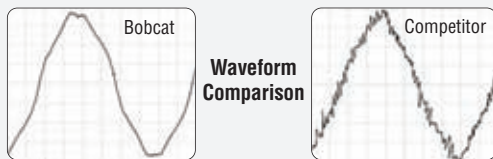
- 12% to 27% better fuel economy!
- Reduced emissions — 33% lower HC+Nox levels and 27% lower CO! (EPA 1000 Hour Certification)
- Easy starting in all climates with no choke required
- Elimination of carburetor icing
- Better high-altitude performance (electric fuel pump is recommended)
- 12,000 watts of generator power and more weld output

Accu-Rated™ — Not Inflated Generator Power

Miller's Accu-Rated™ 11,000 watts (12,000 with EFI) 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.

Smooth Power — Not Spike Power

Revolutionary ten-degree skewed-rotor design optimizes generator performance for smoother power — not spiked power found with other brands. Better power — better performance.



Note: See gas engine drive comparison chart on page 61 and diesel engine drive comparison chart on page 66.

*More models available — see our Web site or Literature No. ED/4.4.

**AC welding output is not available with Battery Charger option.

***Liquid Withdrawal LP System.

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.

Fuel capacity of 12 gallons means many hours of run time before refueling.

EXCLUSIVE! Super-tough protective armor w/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.

Welding and power ratings are at 104°F (40°C) — highest in its class to ensure reliable performance.

Meter maintenance displays

- Fuel gauge
- Hour meter function
- Oil change interval
- Diesel: High coolant temperature and low oil pressure shutdowns
- Diesel: Low fuel shutdown — engine shuts down before system runs out of fuel making restarts easy

Industrial ● Heavy 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) (Carbons—rated 3/16 in and capable 1/4 in)
- Optional Battery Charger (replaces AC weld output)

¹With voltage-sensing feeder only.

²With Dynasty® 200 Series or HF-251 (non-critical).

Gasoline/LP Engines

Gas: Kohler CH 23 or Subaru EH 65

EFI Gas: Kohler ECH 730

LP: Kohler CH 25

V-twin-cylinder, 4-cycle, overhead valve, industrial, air-cooled

Diesel Engine

EPA Tier 4 Compliant! Kubota D722

3-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ Wire Feeders (pg 25)
- Dynasty® 200 Series (pg 42)
- Spectrum® Plasma Cutters 375 X-TREME™ #907 339 (pg 76) 625 X-TREME™ #907 404 (pg 76)
- Adapter Cord, Full KVA #300 517 (pg 90)
- 1-Phase Full KVA Plug Kit #119 172 (pg 90)
- Remote Oil Drain/Filter Kits (pg 90)
- LP Tank Mounting Assembly with Hose #195 329 (pg 90)
- All-Purpose Running Gear for Gas/LP models (pg 90) #300 396 with Inner Tubes #300 477 with Never Flat™ tires
- Protective Covers (pg 90)
- Protective Cage with Cable Holders (pg 90) #195 331 for Gas/LP models #300 052 for Diesel models
- HWY-1000 Trailer #195 013 (pg 91)
- Engine Tune Up Kits are available from your Miller parts distributor.

See your Miller distributor for other popular Miller options and accessories.

	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
Gasoline/LP	(#907 211) Kohler, 23 HP at 3600 RPM (#907 212) Subaru, 23 HP at 3600 RPM (#907 211-02-1)** Kohler, 23 HP at 3600 RPM w/12/24/36 V Battery Charger	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 EFI Model 250 A at 28 V, 100% Duty Cycle 275 A at 25 V, 100% Duty Cycle	Peak: 11,000 watts Continuous: 9500 watts EFI Model Peak: 12,000 watts Continuous: 10,500 watts	Gas/LP Models H: 28 in (711 mm) H: 33 in (838 mm) to top of exhaust W: 20 in (508 mm) D: 45½ in (1156 mm)	Gas/LP Models 556 lb (252 kg) Diesel Model 700 lb (318 kg)
	(#907 450) Kohler EFI, 25 HP at 3600 RPM (#907 211-03-1/#195 329)*** Kohler LP 25 HP at 3600 RPM with GFCl and LP Tank Mounting Assembly with Hose	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		Diesel Model H: 30 in (762 mm) H: 34¼ in (870 mm) to top of exhaust W: 20 in (508 mm) D: 52 in (1321 mm)	
Diesel	(#907 213) Kubota 19 HP at 3600 RPM							

Trailblazer® 302 & 275 DC (Gas, LP or Diesel)

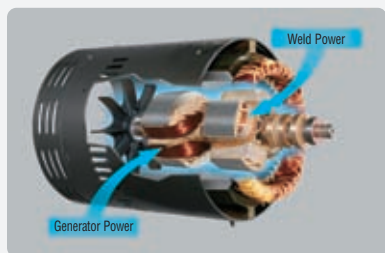
See Literature No. ED/4.77

High output, unbeatable arc performance, and the independent weld and generator system make these engine drives perfect for construction, fabrication, and maintenance/repair operations.



See pages 46 and 47 for wireless remote controls.

Trailblazer 302 gas model shown.



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™

Note: See gas engine drive comparison chart on page 61 and diesel engine drive comparison chart on page 66.

**More models available—see our Web site or Literature No. ED/4.77.*

***Liquid Withdrawal LP System.*

Toughest Welders...



Optional EFI Electronic Fuel Injection (EFI) Benefits vs Carburetor Models

- 12% to 27% better fuel economy!
- Reduced emissions — 33% lower HC+Nox levels and 27% lower CO! (EPA 1000 Hour Certification)
- Easy starting in all climates with no choke required
- Elimination of carburetor icing
- Better high-altitude performance (electric fuel pump is recommended)
- 12,000 watts of generator power

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™ 11,000 watts (12,000 with EFI) of usable peak power cranks out enough power for most applications: job site, farm/ranch, or home. 9,500 watts of continuous power (10,500 with EFI).

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
- Diesel: High coolant temperature, low oil pressure and low fuel shutdown—engine shuts down before system runs out of fuel making restarts easy

EXCLUSIVE! 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.

Heavy Industrial

Processes

- AC/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 23 or Subaru EH 65

EFI Gas: Kohler ECH 730

LP: Kohler CH 25

V-twin-cylinder, 4-cycle, overhead valve, industrial, air-cooled

Diesel Engine

EPA Tier 4 Compliant! Kubota D722

3-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ 12VS Wire Feeder #951 184 (pg 25)
- Spoolmatic® 30A Aluminum Spool Gun / WC-24 Control #130 831 / #137 549 (pg 28)
- Dynasty® 200 Series (pg 42)
- Spectrum® Plasma Cutters 625 X-TREME™ #907 404 (pg 76) 875 #907 390-01-1 (pg 77)
- Adapter Cord, Full KVA #300 517 (pg 90)
- 1-Phase Full KVA Plug Kit #119 172 (pg 90)
- Remote Oil Drain/Filter Kits (pg 90)
- LP Tank Mounting Assembly with Hose #195 329 (pg 90)
- All-Purpose Running Gear for Gas/LP models (pg 90) #300 396 with Inner Tubes #300 477 with Never Flat™ tires
- Protective Covers (pg 90)
- Protective Cage with Cable Holders (pg 90)
- HWY-1000 Trailer #195 013 (pg 91)
- HF-251D-1 #042 388 (pg 95)
- Engine Tune Up Kits are available from your Miller parts distributor.

See your Miller distributor for other popular Miller options and accessories.

	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
Gasoline/LP	Trailblazer 275 DC	(#907 214) Kohler, 23 HP at 3600 RPM (#907 215) Subaru, 23 HP at 3600 RPM (#907 451) Kohler EFI, 25 HP at 3600 RPM (#907 214-02-2/#195 329)** Kohler LP 25 HP at 3600 RPM with GFCl and LP Tank Mounting Assembly with Hose	CC/DC	Stick/TIG	10–275 A	275 A at 100% Duty Cycle	Peak: 11,000 watts Continuous: 9500 watts EFI Model Peak: 12,000 watts Continuous: 10,500 watts	Gas/LP Models H: 28 in (711 mm) H: 33 in (838 mm) to top of exhaust W: 20 in (508 mm) D: 45½ in (1156 mm)	Gas/LP Models 568 lb (258 kg) Diesel Model 720 lb (327 kg)
			CV/DC	MIG/FCAW	13–33 V, 10–275 A	275 A at 100% Duty Cycle			
	Trailblazer 302	(#907 216) Kohler, 23 HP at 3600 RPM (#907 217) Subaru, 23 HP at 3600 RPM (#907 452) Kohler EFI, 25 HP at 3600 RPM (#907 216-02-2/#195 329)** Kohler LP 25 HP at 3600 RPM with GFCl and LP Tank Mounting Assembly with Hose	CC/AC	TIG/Stick	10–225 A	200 A at 60% Duty Cycle			
			CC/DC	Stick/TIG	10–300 A	280 A at 100% Duty Cycle			
Diesel	Trailblazer 302	(#907 218) Kubota 19 HP at 3600 RPM	CV/DC	MIG/FCAW	13–35 V, 10–325 A	300 A at 100% Duty Cycle			



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 job site tools, and battery charge/jump start.



See pages 46 and 47 for wireless remote controls.

Includes Battery Charge/Jump Start!

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% less truck bed space and up to 25% 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.

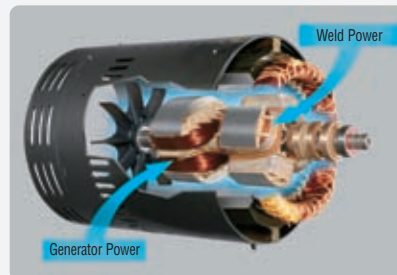
EXCLUSIVE! Capable of running air tools at idle. Reduce noise and fuel consumption by running impacts, decking punches, and many other types of air tools at idle speed.

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

- Runs many tools at idle speed
- Delivers up to 26 CFM and 160 PSI of air with no storage tank
- Gives 100% deliverable air
- Compressor is warranted by Miller for 3 years
- Air outputs rated at an industry high 104°F (40°C)
- Front panel air pressure adjustment (80–160 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



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

V-twin-cylinder, 4-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 25)
- Spoolmatic® 30A Aluminum Spool Gun / WC-24 Control #130 831 / #137 549 (pg 28)
- Dynasty® 200 Series (pg 42)
- Spectrum® Plasma Cutters 625 X-TREME™ #907 404 (pg 76) 875 #907 390-01-1 (pg 77)
- Adapter Cord, Full KVA #300 517 (pg 90)
- Remote Oil Drain/Filter Kits (pg 90)
- Protective Cover #300 379 (pg 90)
- Air Cooler with Separator #300 420
- 50 ft Air Hose with 1/2 in NPT Swivel Fitting #300 571



- 25 ft Battery Charge/Jump Cables with Plug #300 422



- Protective Cage with Cable Holders #300 473 (pg 90)
 - Engine Tune Up Kits are available from your Miller parts distributor.
- See your Miller distributor for other popular Miller options and accessories.

*More models available — see our Web site or Literature No. ED/4.78. **Battery charge/jump cables (#300 422) must be ordered separately.

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		
								(#907 447**) Kohler, 30 HP at 3600 RPM with Battery Charger/Jump Start (#907 447-00-4**) Kohler, 30 HP at 3600 RPM with Battery Charger/Jump Start and Cooler/Separator	CC/DC Stick/TIG CV/DC MIG/FCAW CC/AC TIG/Stick
			10–300 A	280 A at 100% Duty Cycle	Peak: 13,000 watts Continuous: 11,000 watts	H: 28 in (711 mm) H: 34½ in (876 mm) to top of exhaust W: 20 in (508 mm) D: 59½ in (1514 mm)	771 lb (350 kg)		
			13–35 V, 350 A	300 A at 100% Duty Cycle 350 A at 60% Duty Cycle					
			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.			26 cfm (0.73 m³/min)	21 cfm (0.59 m³/min)	17 cfm (0.48 m³/min)	80–160 psig	100%	1.75 qt (1.7 L)

Choose the Right Diesel Engine Drive

Bobcat™ 250 Diesel (pg 63)



EPA Tier 4 Compliant

- Compact
- Lightest weight
- Lowest price point

Product Description

Rugged, compact, and lightweight diesel engine drive is great for Stick and Flux Cored welding and is the lowest priced diesel welder/generator.

Trailblazer® 302 Diesel (pg 64)



EPA Tier 4 Compliant

- Compact
- Lightweight
- Unbeatable arc performance

Compact, lightweight, unbeatable arc performance, and independent weld and generator make this perfect for construction (pipe and structural), maintenance/repair operations, and fabrication.

Big Blue® 300 Pro (pg 67)



EPA Tier 4 Compliant

- Low speed
- Quiet
- Unbeatable arc performance

Low speed and quiet with unbeatable arc performance make this perfect for construction (process piping and structural), maintenance/repair operations, and fabrication.

Big Blue® 400 Eco Pro (pg 69)



EPA Tier 4 Compliant

- Big power in a small package
- Quiet
- Unbeatable arc performance

Powerful, multiprocess diesel engine drive is great for construction (process piping and structural), and maintenance/repair operations.

Weld Performance

Stick	Very Good	Excellent	Excellent
MIG – Wire (Solid/FCAW), Steel	Very Good	Excellent	Excellent
MIG – Wire, Aluminum with Spool Gun	Good	Excellent	Excellent
TIG – DC, Steel	Very Good	Excellent	Excellent
TIG – AC, Aluminum w/H.F.*	Fair	Not Available	Not Available
Carbon Arc Gouging (Rated, Capable of)	3/16 in, 1/4 in	3/16 in, 1/4 in	5/16 in
Amperage/Voltage Range	40–275 A, 17–28 V	10–325 A, 13–35 V	20–410 A, 14–40 V

Key Features

Standard Generator Power	11,000 Watts	11,000 Watts	5500 Watts
Optional Generator Power	—	—	—
Sound Level (Fully Loaded)	80.5 dB	80.5 dB	71.5 dB at 1850 RPM/81.5 dB at 3000 RPM
Weight	700 lb	720 lb	1095 lb
Size (H x W x D in Inches) Height is without exhaust stack	30 x 20 x 52 in	30 x 20 x 52 in	32 x 26-1/4 x 56 in
Engine Speed (Idle/High)	2400/3600 RPM	2400/3600 RPM	1500/1850/3000 RPM
Weld Meters	Not Available	Digital with Preset and Weld Displays	Optional Digital w/Preset and Weld Displays

*Note: See the following pages for other diesel machines that may fit your applications. *High Frequency Arc Starter and Stabilizer*



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 46 and 47 for wireless remote controls.

*Note: See diesel engine drive comparison chart on page 66.
More models are available — see our Web site or Literature No. ED/5.21.

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 dba (97 Lwa) at maximum output. Improves work site 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!

Caterpillar C1.5

3-cylinder, industrial, liquid-cooled

Mitsubishi S4L2

4-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® X-TREME™ 12VS (pg 25)
- SuitCase® 12RC (pg 26)
- Dynasty® 200 Series (pg 42)
- Wireless Remote Hand Control #300 430 (pg 47)
- Spectrum® 875 (pg 77)
- Adapter Cord, Full KVA #300 517 (pg 90)
- 1-Phase Full KVA Plug Kit #119 172 (pg 90)
- Protective Cover #195 301 (pg 90)
- HWY-224 Trailer #043 805 (pg 91)
- PRHC-14 Remote #195 511 (pg 94)

See your Miller distributor for other popular 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
	(#907 144-02-1) CAT w/Stainless Steel/120 V Block Heater						Mitsubishi 1083 lb (491 kg)
	(#907 472) Mitsubishi, 24.4 HP at 1850 RPM						
	(#907 472-001) Mitsubishi w/120 V Block Heater	CV/DC	14–40 V				



WELDING KNOWLEDGE AT YOUR FINGERTIPS

MillerWelds.com Makes Welding Easy!

Improve your welding skills — with how-to articles, suggested weld calculator settings and tech tips on MIG, TIG, Stick and Plasma.

Check out our **Video Library** where you can see welding and cutting demos, troubleshooting guides and product set up videos!

Learn more at MillerWelds.com/ImprovingYourSkills

NEW! 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

- 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% less noise improves work site 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% 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% reduction in wire feed in Schedule B.

Miller Wireless Remote Hand Control (see pg 47)

- Completely cordless design increases project productivity, saves money and improves operator safety.
- Extends remote welding control range to 300 ft for jobsite mobility.
- Eliminates costly cord failures.
- Improves weld quality with precise operator control.
- Belt clip keeps the remote secure and accessible.

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-lb vacuum-packed spools per jobsite-friendly bucket, 1080 lb 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.

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!

Mitsubishi S4L2

4-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

Big Blue 350 PipePro System Consists Of

- Big Blue® 350 PipePro® engine drive #907 428 or #907 428-001
- SuitCase® X-TREME™ 8HD DS wire feeder #300 594-003
- Wireless Remote Hand Control and 14-pin receiver #300 430
- 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-V01 1/16 in 79T8Ni2 #S228825-V01 5/64 in 79T8 #S228525-P01 5/64 in 79T8Ni2 #S228819-V01

Most Popular Accessories

Big Blue 350 PipePro

- 1-Phase Full KVA Plug Kit #119 172 (pg 90)
- 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

See your Miller distributor for other popular Miller options and accessories.

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 300 PipePro Engine Drive only (#907 428) Mitsubishi, 24.4 HP at 1850 RPM (#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: 26¼ in (667 mm) D: 56 in (1422 mm)	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: 12¾ in (324 mm) W: 7¼ in (184 mm) D: 18 in (457 mm)	30 lb (14 kg)	



NEW!

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 46 and 47 for wireless remote controls.

Superior Arc Performance in a Compact Package!

An Eco-nomical and Eco-friendly workhorse, the Big Blue 400 Eco Pro:

- Saves fuel — designed to be up to 25% more efficient than competitive models.
- Produces fewer emissions — meets tough EPA Tier 4i compliance standards.
- Runs quieter — in economy mode, 71.5 dBA at 23 ft (7 m) is quieter than most competitive models.
- Easier to transport — up to 44% smaller and 41% lighter than other models.
- Compact design fits sideways in a standard pickup.
- Offers exceptional arc control whether using Stick, TIG or Flux Cored 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.

Note: See diesel engine drive comparison chart on page 66.

Diesel	Stock Number (#907 426) Mitsubishi, 35 HP at 3000 RPM (#907 426-001) with Weld Meters and 120 V Block Heater	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	20–450 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 1/4 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					

Miller Du-Op®

See Literature No. ED/10.9

Designed for fleet owners and construction contractors who want one low-speed diesel engine to provide two independent high-quality multiprocess arcs.



See pages 46 and 47 for wireless remote controls.

Save fuel, reduce maintenance costs, increase productivity.

Automatic engine shutdown protects engine if low oil pressure or high coolant temperature occurs.

Multiprocess capabilities performed independently at the same time. Each operator has a choice of Stick, TIG or MIG.

Paralleling switch parallels both outputs to a single side for double the amperage. This provides a safe and easy way to run large electrodes, Stud weld or Air Carbon Arc gouge.

Hot Start™ automatically provides additional amperage making it easy to start all types of Stick electrodes.

Heavy Industrial ● CC CV DC

Processes

- Stick (SMAW)
- TIG (GTAW)
- MIG (GMAW)
- Flux Cored (FCAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (rated 3/8 in carbons)

Diesel Engine

EPA Tier 4i Compliant!

Deutz D 914 L03i

3-cylinder, industrial, air-cooled

Note: Engine is warranted separately by engine manufacturer.

Most Popular Accessories

- SuitCase® Wire Feeders (pg 25/26)
- Wireless Remote Hand Control #300 430 (pg 47)
- HWY-224 Trailer #043 805 (pg 91)
- RHC-14 Remote Hand Control #242 211 020 (pg 95)

See your Miller distributor for other popular Miller options and accessories.

Diesel	Stock Number (#907 317) Deutz 48 HP at 1800 RPM	Process	Amp/Volt Ranges	Rated Output at 40% Duty Cycle at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
		DC Stick/TIG/ MIG/FCAW	1 Welder: 15–600 A, 10–32 V 2 Welders: 15–300 A, 10–32 V	1 Welder: 550 A at 30 V (16.5 kW) 2 Welders: 275 A at 31 V (8.5 kW)	Peak: 5500 watts Continuous: 4000 watts	H: 47 7/8 in (1210 mm) W: 31 1/4 in (794 mm) D: 60 1/2 in (1537 mm)	2005 lb (909 kg)

Big 40[®] CC or CC/CV

See Literature No. ED/8.5



Superior CAT power with added features for the owner/operator compared to the Big Blue 400.



Big 40 CC/CV Deluxe model shown.

Deluxe Model has AC/DC polarity switch. Quiet. Only 65 db (90 Lwa) at idle and 73.2 db (98 Lwa) at maximum output.

Automatic idle and engine gauges standard on all models.

Meter maintenance displays

- Fuel gauge
- Hour meter function
- Oil change interval
- High coolant temperature, low oil pressure shutdowns
- Low fuel shutdown — engine shuts down before system runs out of fuel making restarts easy

Designed and built with reliable, heavy-duty industrial components to allow it to operate in remote locations without downtime.

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

CC^{CC} CV^{CV} DC^{AC} DC^{DC}

Processes

- AC/DC Stick (SMAW)
- AC²/DC TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Carbons — rated 5/16 in and capable 3/8 in)
- Stud
- MIG (GMAW)³
- Flux Cored (FCAW)³

¹Deluxe model only.

²Deluxe model with HF-251, or all models with Dynasty[®] 200 Series.

³CC/CV models only.

Diesel Engine

EPA Tier 4i Compliant!
Caterpillar C2.2

4-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

See distributor for Miller accessories.

Diesel	Model	Stock Number	Process	Amp/Volt Ranges	Rated Output at 100% Duty Cycle at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
		Big 40 CC	(#907 171) CAT, 32.6 HP at 1850 RPM	DC Stick/TIG	55–500 A	400 A at 36 V (14.4 kW)	Peak: 5500 watts, Continuous: 4000 watts	H: 43 in (1092 mm) W: 28½ in (724 mm) D: 65½ in (1654 mm)
	Big 40 CC/CV Deluxe Model	(#907 170-03-1) w/15,000 watts, Weld Meters and AC/DC Polarity Switch CAT, 33 HP at 1800 RPM	AC/DC Stick/TIG/MIG/FCAW	15–350 A (AC) 15–500 A (DC) 14–40 V (DC)	AC: 300 A at 32 V (9.6 kW) DC: 400 A at 36 V (14.4 kW)	Additional Generator Power for Deluxe Model (While NOT Welding) 3-Phase: 15,000 watts or 1-Phase: 12,000 watts		

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.

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

CC/CV models have the vault for control board reliability (see pg 67 for details).

Designed and built with reliable, heavy-duty industrial components to allow operation in remote locations, without downtime.

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

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.

Heavy Industrial

CC^{CC} CV^{CV} DC^{AC} DC^{DC}

Processes

- Stick (SMAW) • TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (Carbons — 400: rated 5/16 in and capable 3/8 in, 500: rated 3/8 in)
- Stud
- MIG (GMAW)*
- Flux Cored (FCAW)*

*CC/CV models only.

Diesel Engines

EPA Tier 4i Compliant Choices!

400 — Deutz D 2011 L03i

3-cylinder, industrial, air/oil-cooled

400 — Perkins 404D-22

4-cylinder, industrial, liquid-cooled

500 — Deutz D 2011 L04i

4-cylinder, industrial, air/oil-cooled

Note: Engines are warranted separately by engine manufacturer.

See distributor for Miller accessories.

*More models are available — see our Web site or Literature No. ED/10.8.

**Adds Auto Idle, Weld Meters and Optional Generator Power.

Note: All models come standard with Engine Gauges.

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, 32.0 HP at 1800 RPM (#907 175) Perkins, 32.6 HP at 1800 RPM	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: 28½ in (724 mm) D: 65½ in (1654 mm)
	Big Blue 400 CC/CV Deluxe Model	(#907 327)** Deutz, 32.0 HP at 1800 RPM (#907 329)** Perkins, 32.6 HP at 1800 RPM	DC Stick/TIG/MIG/FCAW	15–500 A 14–40 V				
	Big Blue 500 CC	(#907 181) Deutz, 48.6 HP at 1800 RPM	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	H: 43 in (1092 mm) W: 28½ in (724 mm) D: 65½ in (1654 mm)	Deutz 1695 lb (769 kg)
	Big Blue 500 CC/CV Deluxe Model	(#907 331)** Deutz, 48.6 HP at 1800 RPM	DC Stick/TIG/MIG/FCAW	20–600 A 14–40 V				



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 and low oil pressure shutdowns
- Low fuel shutdown — engine shuts down before system runs out of fuel making restarts easy

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

- AC/DC Stick (SMAW)
- MIG (GMAW)
- AC/DC TIG (GTAW)
- Flux Cored (FCAW)
- 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 TD 2011 L04

Turbocharged, 4-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.

See your Miller distributor for other popular Miller options and accessories.

* Comes complete with Engine Gauges, Auto Idle and 12 V Intake Manifold Heater.

** Cold Weather Model — Comes complete with Engine Gauges, Auto Idle, Weld Meters, Battery Lockout/Tagout Disconnect Switch, 12 V Intake Manifold Heater and 120 V Oil Pan Heater.

*** Deluxe Model — Comes complete with Engine Gauges, Auto Idle, Weld Meters, Battery Lockout/Tagout Disconnect Switch, 12 V Intake Manifold Heater, 120 V Oil Pan Heater, Vandalism Lockout Kit, AC/DC/Battery Charge/Jump-Start Switch and Optional Generator Power.

Diesel	Stock Number	Welding Mode	Weld Output Range	Weld Output Rated at 104°F (40°C) NEMA Amperage and Voltage	Max. Open-Circuit Voltage	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Weight
	(#907 062)* Base Model	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	95	Peak: 5500 watts Continuous: 4000 watts	H: 43 in (1092 mm) W: 28½ in (724 mm) D: 69½ in (1765 mm)	Base and Cold Weather Models Net: 1931 lb (876 kg) Ship: 1982 lb (899 kg)
	(#907 062-04-1)** Cold Weather Model	CV/DC	14–40 V	500 A at 40 V (20 kW), 100% Duty Cycle	56	Additional Generator Power for Deluxe Model (While NOT Welding) 3-Phase: 20,000 watts or 1-Phase: 12,000 watts		Deluxe Model Net: 1956 lb (887 kg) Ship: 2007 lb (910 kg)
	(#907 062-07-1)*** Deluxe Model	CC/AC (Deluxe Model Only)	20–575 A	400 A at 36 V (14.4 kW), 100% Duty Cycle	64			
Deutz 63.4 HP at 1850 RPM	Battery Charge/Jump Start (Deluxe Model Only)	12/24 V	750 A, 12 V, Jump-Start 750 A, 24 V, Jump-Start	14/28				
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 m³/min)	40 cfm (1.13 m³/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 and low oil pressure shutdowns
- Low fuel shutdown — engine shuts down before system runs out of fuel making restarts easy

Turbocharged engine provides superior performance in high altitudes.

Quiet. Only 70 dB (95 Lwa) at idle and 79 dB (104 Lwa) at maximum output.

Highest output rating available on an engine-driven welder: 20–750 A range, 600 amps at 100% duty cycle!

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)
- TIG (GTAW)
- Flux Cored (FCAW)
- 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 TD 2011 L04

Turbocharged, 4-cylinder, industrial, liquid-cooled

Note: Engine is warranted separately by engine manufacturer.

See distributor for Miller accessories.

Diesel	Stock Number	Welding Mode	Process	Weld Output Range	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
	(#907 157) Deutz, 63.4 HP at 1850 RPM	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: 28½ in (724 mm) D: 69½ in (1765 mm)	1755 lb (796 kg)
	CV/DC	MIG/FCAW	14–40 V					



SPOT

WELDERS



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.



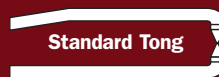
Standard Tip



Flat Tip



Offset Tip



Standard Tong



Optional Tong

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 ft (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 (pg 94)
- Spot Welder Pedestal #040 872
- Spot Welder Timer MSW-41 #041 081
- LMSW-52 #041 082

Note: Tongs/tips must be ordered separately. One standard set of tips is supplied with each set of tongs; see diagram above.

See your Miller distributor for other popular 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 gauge (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 3/4 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 gauge (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 3/4 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
- 37-1/8 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 89)
- Coolmate™ 3, 115 VAC #043 007
- Coolmate™ 3, 230 VAC #043 008
- Coolmate™ V3 #043 009
- Coolmate™ 4 #042 288

See your Miller distributor for other popular 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 a wide array of versatile Sub Arc components, including digital controllers, tractors, wire feed systems, torches, and power sources. To learn more, visit MillerWelds.com/SubArc

MillerWelds.com/SubArc



Sub Arc DC Series

See Literature No. DC/19.8 and AY/12.0



Sub Arc DC 650

Sub Arc DC 1000

Optimized for the Sub Arc process, the versatile Sub Arc DC 650 and 1000 also provide Air Carbon Arc cutting and gouging, Stick and Flux Cored capabilities. This Series' arc control provides stable and consistent output regardless of electrode size, electrode type or flux used.

Heavy Industrial CC CV DC 3 Phase

Processes

- Submerged Arc (SAW)
- Flux Cored (FCAW) • Stick (SMAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (1/2 in carbons)

Most Popular Accessories

- Flux Hopper with Valve #194 775 (pg 94)
- Self-Propelled Tractor Pkgs (pg 94)
- MT 1500 DX (Digital) #951 060
- MT 1500 A (Analog) #951 061
- See additional Sub Arc Accessories on page 94

See your Miller distributor for other popular Miller options and accessories.

Model	Stock Number	Description	Welding Mode	Amperage/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			
Sub Arc DC 650	#907 338 230/460/575 V	CC/CV, DC, Three-Phase	CC	50-815 A	650 A at 44 VDC, 100% Duty Cycle	126	63	50.4	50	34.8	72 VDC	H: 27 1/4 in (692 mm) W: 22 1/4 in (565 mm) D: 36 in (914 mm)	545 lb (247 kg)
			CV	10-65 V									
Sub Arc DC 1000	#907 342 230/460/575 V	CC/CV, DC, Three-Phase	CC	100-1250 A	1000 A at 44 VDC, 100% Duty Cycle	180	90	72	73	53	66 VDC		644 lb (292 kg)
			CV	10-60 V							38 VDC		

Automatic Weld Control

- HDC 1500 DX #300 438 With Digital Meters
HDC 1500 A #300 439 With Analog Meters



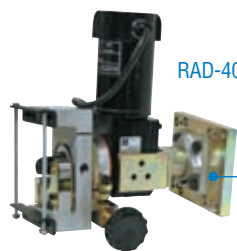
HDC 1500 DX

HDC 1500 A

Reliable and flexible Miller digital and analog weld controls interface 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 burnback control helps prevent wire sticking on weld termination. Crater time, speed, and output rates can also be controlled with these devices. See page 94 for more accessories. See Literature No. AY/12.0 for more details.

Wire Drive Assemblies

- RAD-400 #195 265 Standard-speed, right-angle wire drive assembly for 1/8 in or larger wires.
RAD-780 #195 266 High-speed, right-angle wire drive assembly for 1/8 in or larger wires.
SAW4 #300 481 Standard-speed assembly for smaller than 1/8 in wires.



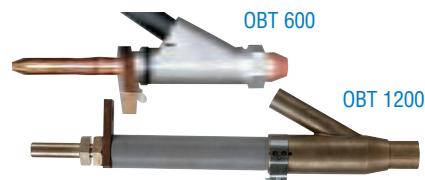
RAD-400 shown.

RAD motors include adapter plate which allows mounting to 2-1/2, 4-1/4, and 4-5/8 inch bolt-hole patterns.

Miller wire drive assemblies operate using 115-volt power and are available for a range of wire diameters. Right angle wire drives (RAD) are designed for larger diameter wires while the SAW4 is optimized for smaller diameters. The RAD-400 and SAW4 have a wire feed speed range of 20-400 inches per minute (0.5-10 MPM). The RAD-780 has a wire feed speed range of 20-780 IPM (0.5-19.8 MPM). Both RAD motors include an adapter plate that allows mounting to 2-1/2 inch (65.5 mm), 4-1/4 inch (108 mm), and 4-5/8 inch (117.5 mm) bolt-hole patterns. See page 94 for recommended drive rolls.

Sub Arc Torches

- OBT 600 #043 923 600-amp, 100% duty cycle torch used with 1/16-7/32 in (1.6-5.6 mm) wire.
OBT 1200 #043 900 1200-amp, 100% duty cycle torch used with 1/16-7/32 in (1.6-5.6 mm) wire.



OBT 600

OBT 1200

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 features a replaceable breakaway adapter end to prevent costly damage should the torch run into an obstruction. See page 94 for torch body extensions and contact tips.



PLASMA

CUTTERS



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MORE on the WEB

MillerWelds.com/PlasmaCutters



Product Guide

	Page	Class	Couging	Piercing	Rated Output/ Duty Cycle	Rated Cutting Thicknesses*			Special Features	Typical Applications
						Mild Steel	Stainless Steel	Aluminum		
1-Phase	Spectrum® 125C	75	●	○	12 A at 35%	1/8 in	1/8 in	1/16 in	Built-in air compressor	HVAC, hobbyist, auto body, plumbing
	Spectrum® 375	75	●	●	27 A at 35%	3/8 in	3/8 in	1/4 in	115/230 V dual input voltage	Hobbyist, auto restoration, fabrication
	Spectrum® 375 X-TREME™	76	●	●	27 A at 35%	3/8 in	3/8 in	1/4 in	Auto-Line™: 115–230 V, MVP™ plugs, only 18 lb	HVAC, maintenance, construction
	Spectrum® 625 X-TREME™	76	●	●	40 A at 50%	5/8 in	1/2 in	3/8 in	Auto-Refire™, automatic air regulation, only 21 lb	Maintenance, light construction, body shops, prototyping
	Spectrum® 875	77	●	●	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™	77	●	●	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 375/375 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	27 A	3/8 in	30 A	Not Recommended	Not Recommended
Bobcat™, Trailblazer®	11 kW	3/8 in	27 A	5/8 in	40 A	1/2 in	45 A
Big Blue® 300 Pro Big Blue® 350 PipePro®	12 kW	3/8 in	27 A	5/8 in	40 A	5/8 in	50 A
Big 40® CC/CV	15 kW (optional)	3/8 in	27 A	5/8 in	40 A	7/8 in	60 A
Big Blue® 500 CC/CV	20 kW (optional)	3/8 in	27 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 10 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%.

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



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.**
- LED indicators for easy troubleshooting.**
- Non-high-frequency arc starting** does not interfere with or damage controls or computers.
- Post-flow cooling circuitry** extends life of the consumable and torch by cooling them with postflow air after the trigger is released.
- Built-in gas/air filter and regulator** (not available on 125C model). Provides air filtration of airborne particles 5 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.

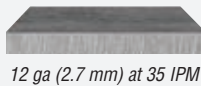
Spectrum[®] 125C

See Literature No. PC/13.0



Mild Steel Cutting Capability

Not to scale.



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 in steel.

Auto-Retire™ technology provides ultimate customer convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

35% duty cycle is tested at 104°F (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)	Amps Input at Rated Output, 60 Hz			Dimensions H: 13½ in (343 mm) W: 8½ in (216 mm) D: 16 in (406 mm)	Net Weight with Torch 31 lb (14 kg)
	12 A at 110 VDC, 35% Duty Cycle	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
- Heavy-duty work clamp with 20 ft (6.1 m) cable
- 10 ft (3 m) power cord
- Extra consumables (2 electrodes, 2 tips)

375 Model Comes Complete With

- ICE-27C 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 (3 electrodes, 3 tips and 1 air fitting)
- Built-in gas/air filter and regulator

Most Popular Accessories (pg 93)



- No. 30B Economy Cart with Cord Wrap #300 511
- In-Line Air Filter Kit #228 926 (375 model only)

See your Miller distributor for other popular Miller options and accessories.

Spectrum[®] 375

See Literature No. PC/9.1



Mild Steel Cutting Capability

Not to scale.



Maximum Sever cut of 5/8 in (15.9 mm)



Dual input voltage allows either 115 or 230 VAC input power and provides patented protection in case of incorrect switch position.

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 (#903 891) 115/230 V, 60 Hz	Rated Output at 104°F (40°C)	Amps Input at Rated Output, 60 Hz, 1-Phase				Compressor Requirement 4.5 CFM (128 L/min) at 90 PSI (621 kPa)	Dimensions H: 13½ in (343 mm) W: 8½ in (216 mm) D: 16 in (406 mm)	Net Weight with Torch 55 lb (25 kg)
	15–27 A at 90 VDC, 35% Duty Cycle	115 V	230 V	KVA	KW			

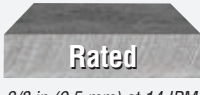
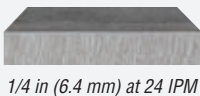
Spectrum® 375 X-TREME™

See Literature No. PC/9.2



Mild Steel Cutting Capability

Not to scale.



Rated
Maximum Sever cut of 5/8 in (15.9 mm) — cutting at 27 amps (120 V, 20 A service with 5-20P MVP or 240 V 6-50P MVP).

Spectrum 375 X-TREME includes X-CASE!

Includes Industrial-Grade Technologies/Features (see pg 75)



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.

Automatic air regulation automatically compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

X-CASE™ provides the ultimate protection during transport and storage. Additional space is ideal for MVP plugs, consumables box, gloves, etc.

Shoulder strap allows the end user to easily move from location to location.

Stock Number	Input Power	Rated Output at 104°F (40°C)	Amps Input at Rated Output, 50/60 Hz, 1-Phase	KVA	KW	Compressor Requirement	Dimensions	Net Weight with Torch
#907 339 120–240 V, 50/60 Hz	120 V (15 A)	20 A at 88 VDC, 35% Duty Cycle	20.6	2.5	2.3	4.5 CFM (128 L/min) at 90 PSI (621 kPa)	H: 9 in (229 mm) W: 5½ in (140 mm) D: 13¼ in (337 mm)	18 lb (8.2 kg)
	120 V (20 A)	27 A at 92 VDC, 20% Duty Cycle	28.8	3.4	3.2			
	240 V	27 A at 92 VDC, 35% Duty Cycle	13.9	3.4	3.2			

Spectrum® 625 X-TREME™

See Literature No. PC/9.6



Mild Steel Cutting Capability

Not to scale.



Rated
Maximum Sever cut of 7/8 in (22.2 mm)

All Spectrum 625 X-TREME models include X-CASE!

Includes Industrial-Grade Technologies/Features (see pg 75)

Auto-Refire™ provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

Automatic consumable detection detects consumable type installed and adjusts gas pressure to optimize cutting performance, eliminating the need for a manual regulator.

Automatic air regulation automatically compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

X-CASE™ provides the ultimate protection during transport and storage. Additional space is ideal for MVP plugs, consumables box, gloves, etc.

Shoulder strap allows the end user to easily move from location to location.

Stock Number	Rated Output at 104°F (40°C)	Amps Input at Rated Output, 50/60 Hz		Compressor Requirement	Dimensions	Net Weight with Torch
		208 V	230 V			
#907 404 208/230 VAC with 12 ft (3.7 m) Torch #907 404-01-1 208/230 VAC with 20 ft (6.1 m) Torch	40 A at 140 VDC, 50% Duty Cycle	33	30	6.8	6.6	6.0 CFM (170 L/min) at 90 PSI (621 kPa)
		H: 9 in (229 mm) W: 5½ in (140 mm) D: 13¼ in (337 mm)		12 ft Torch 21 lb (10 kg)	20 ft Torch 23 lb (11 kg)	

Light Industrial ● DC 1 Phase

Processes

- Air Plasma Cutting
- Air Plasma Gouging with 625 model

375 Model Comes Complete With

- X-CASE™ for protection and storage
- ICE-27T 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 (115 VAC, 15 A) and 6-50P (230 V, 50 A)
- Consumables box with 3 electrodes and 3 tips
- Built-in gas/air filter and regulator

625 Model Comes Complete With

- X-CASE™ for protection and storage
- ICE-40T 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
- Consumables box with 3 electrodes, 3 tips and deflector
- Built-in gas/air filter and regulator

Most Popular Accessories (pg 93)



• Circle Cutting Guide #195 981



• In-Line Air Filter Kit #228 926



• Standoff Roller Guide #194 883



• Plasma Torch Consumable Kits
For ICE-27T #222 939
For ICE-40T #222 940



• MIG Gloves (pg 85)

• X-CASE™ #300 184

• MVP™ Plugs (375 model only)

See your Miller distributor for other popular Miller options and accessories.

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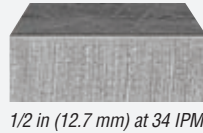


Spectrum® 875 and 875 Auto-Line™

See Literature No. PG/9.8



**Mild Steel
Cutting Capability**
Not to scale.



Spectrum 875 model shown.

NEW! Auto-Line model with hand-held torch or machine-held torch with CNC/robotic interface.

*Add 1 lb (0.5 kg) for 875 Auto-Line with 50 ft machine-held torch.

Includes Industrial-Grade Technologies/Features (see pg 75)



NEW! 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-refire™ 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.

Process

- 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 (875 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 93)

- **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** #195 981
- **MIG Gloves** (pg 85)

See your Miller distributor for other popular 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: 13½ in (343 mm) W: 8¾ in (222 mm) D: 18½ in (470 mm)	20 ft 51 lb (23 kg) 50 ft 62 lb (28 kg)
		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)	20 ft 56 lb (25 kg) 25 ft 59 lb (27 kg) 50 ft 67 lb (30 kg)*	
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	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			



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WORKSTATIONS

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ArcStation™

The only workbench designed for welders.



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See page 2/3 for more information.

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 new portable F-Series.

Reference the chart below to find out which ArcStation is right for you!

Choose the Right ArcStation

	F-Series	S-Series
Application	Portable, folding workbench ideal for bringing to the job site 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 pg 79



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 shown. See below for base models.

Four S-Series models available, depending on your needs.

- 30S (30 x 30 in with solid tabletop)
- 30SX (30 x 30 in with X-pattern tabletop)
- 60S (30 x 60 in with solid tabletop)
- 60SX (30 x 60 in 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's 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-in Vise/Mount #300 611
Mount only #300 612
- 6** Weld Curtain
30 Series #300 685
60 Series #300 686
- 7** Casters
#300 849
(not shown in 60SX photo at left)



Convenience Kit #300 614 includes the following:

- 8** Gun Holder
- 9** Tool Holder
- 10** Clamp Bar



See your Miller distributor or MillerWelds.com for other popular Miller options and accessories.

NEW! 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 job site or move around the shop.

Compact size makes storing unit a breeze. Unit folds down to 6 x 29 x 48 in (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.



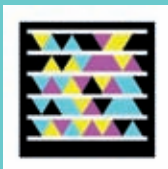
ArcStation Models

	 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



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See page 2/3 for more information.



MillerWelds.com/FumeExtraction



Choose the Right Fume Extractor

Fume Extractor	FILTAIR™ 130	FILTAIR™ MWX-S and MWX-D	FILTAIR™ SWX-S and SWX-D
Application	Portable, high-vacuum unit ideal for MRO, contractors and intermittent welding	Mobile systems designed for manufacturing and fabrication shops, schools and training facilities	Stationary systems designed to maximize floor space in manufacturing and fab shops, school and training facilities
Source/Submicron Capture	Yes	Yes	Yes
Filter Type	Manually cleanable filter	MWX-S: Self cleaning filter mechanism* MWX-D: Disposable filter	SWX-S: Self cleaning filter mechanism* SWX-D: Disposable filter
Filter Media Area	16 ft ² (1.49 m ²)	490 ft ² (45.52 m ²)	490 ft ² (45.52 m ²)
CFM (Airflow)	132	875	875
Accessories	3 optional magnetic nozzles and a fume gun	1 arc sensor/light kit	1 arc sensor/light kit

**Self-cleaning filter mechanism is designed to increase productivity by greatly extending filter life, saving both filter costs and downtime.*

FILTAIR™ 130

See Literature No. AY/3.1

Portable weld fume extractor designed with 132 CFM and a high-efficiency cartridge filter to collect weld fume particles at the source.

Designed exclusively for welding applications.

Highest performing filter in the industry will last longer and capture the smallest submicron (<1 micron) particles. Miller's 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 5 ft.

Easy to use. Adjustable airflow control allows you to change your airflow capacity for different welding applications.

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 ft power cord and an 8 ft collection hose.



Processes

- Stick (SMAW) • Flux Cored (FCAW)
- MIG (GMAW) • TIG (GTAW)

Comes With

- Filter • 8 ft collection hose

Most Popular Accessories

- 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
- Disposable Filter #300 671



Bernard® Clean Air Gun Series

Ideal for almost any heavy-duty MIG welding application. Attaches to FILTAIR 130 with gun adaptor and available in 400 and 600 A models. Contact Bernard® at 1-800-946-2281 to order.

Stock Number (#300 595)	Filter Media	Nominal Airflow	Sound Level	Motor	Input Power	Dimensions	Net Weight
	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 (92 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.

Designed exclusively for welding applications.



NEW!

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.

SWX-D (disposable filter) model with 7 ft extraction arm shown.

Features Common to All Models

Superior filter life from Miller's exclusive MERV 15 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% of weld fumes are submicron and FILTAIR filters capture 85–95% 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.

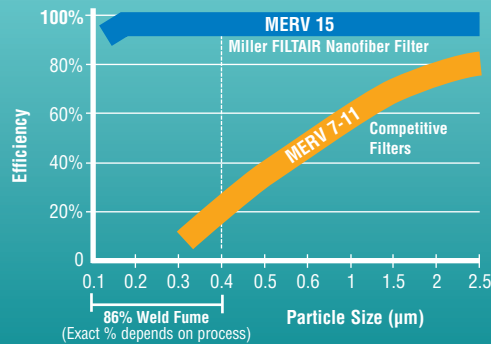
One-minute cleaning cycle operates with a push of a button on the control panel.

Miller's 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.

Air-Cleaning Efficiency with Specific Particulate Sizes



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 to capture weld fumes on the surface of the filter instead of within. This extends the filter life, maintains longer lasting air flow, and lengthens your maintenance intervals. FILTAIR's MERV 15* 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 Dual Arm (7 ft arm) #951 344
- SA-W810 Dual Arm (10 ft arm) #951 345
- SA-W812 Dual Arm (12 ft arm) #951 346

Packages include arm, blower and back draft dampers to turn a single-arm weld fume extractor into a 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.

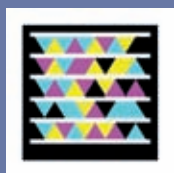
Model/Stock Number	Filter Media	Nominal Airflow	Extraction Arm Diameter	Sound Level	Motor	Input Power	Dimensions	Net Weight
MWX-S (Self-Cleaning) Models #951 178) 7 ft extraction arm #951 179) 10 ft extraction arm #951 180) 12 ft extraction arm	490 ft ² (45.52 m ²)	875 CFM (413 L/sec)	8 in (203 mm)	Approximately 70 dBA at 5 ft (1.5 m)	1 HP, 3450 RPM	115 V/1-Ph/60 Hz at approximately 11.9 A	H: 34¾ in (883 mm) W: 31¾ in (806 mm) D: 48 in (1219 mm)	MWX-S 300 lb (136 kg) MWX-D 238 lb (108 kg)
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 74 dBA at 5 ft (1.5 m)	1 HP, 3450 RPM	115 V/1-Ph/60 Hz at approximately 11.9 A	SWX-S H: 33 in (838 mm) SWX-D H: 29 in (737 mm) W: 27¼ in (692 mm) D: 33 in (838 mm)	SWX-S 195 lb (88 kg) SWX-D 130 lb (59 kg)
SWX-S (Self-Cleaning) Models #951 339) 7 ft extraction arm #951 335) 10 ft extraction arm #951 340) 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	115 V/1-Ph/60 Hz at approximately 11.9 A	SWX-S H: 33 in (838 mm) SWX-D H: 29 in (737 mm) W: 27¼ in (692 mm) D: 33 in (838 mm)	SWX-S 195 lb (88 kg) SWX-D 130 lb (59 kg)
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	115 V/1-Ph/60 Hz at approximately 11.9 A	SWX-S H: 33 in (838 mm) SWX-D H: 29 in (737 mm) W: 27¼ in (692 mm) D: 33 in (838 mm)	SWX-S 195 lb (88 kg) SWX-D 130 lb (59 kg)



WELDING

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We're redefining welder protection with products that provide optimal fit, comfort, performance and style, resulting in safer, more productive work environments. THAT'S THE ARC ARMOR™ DIFFERENCE.



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See page 2/3 for more information.



MillerWelds.com/WeldingProtection



Head and Face

Titanium Series™

Industrial Helmets for the Most Extreme Welding and Grinding Applications

- 1 Titanium 9400i #245 804
- 2 Titanium 9400 #245 801
- 3 Titanium 7300 #245 800
- 4 Titanium 1600 #245 799

- Aluminum heat shield protects analog lens in high amperage applications
- Durable shock-absorbing gasket protects lens from drop impact



9400i features 1 integrated grinding shield.

Digital Elite™ Series

Ultimate Helmets PLUS Four Modes of Digital Versatility for Most Welding and Cutting Applications

- 5 Black #241 979
- 6 Stars and Stripes II™ #234 762
- 7 Vintage USA™ #236 340
- 8 Inferno™ #234 761
- 9 Wicked™ #241 462
- 10 Lucky's Speed Shop™ #237 745
- 11 The Joker™ #235 041
- 12 **NEW!** Digital Camo #248 260

- X-mode eliminates:
 - Sunlight interference
 - Low-amp lens opening — TIG
 - Lens opening from obstructed sensors — hidden/cavity welds
 - Lens opening — pipe/curves





Elite Series™

Ultimate Helmets for Most Applications

- 13** Black #241 975
- 14** Stars and Stripes II™ #234 065
- 15** Vintage USA™ #237 838
- 16** Inferno™ #222 669
- 17** Wicked™ #241 464
- 18** Lucky's Speed Shop™ #237 744
- 19** The Joker™ #227 187
- 20** Camouflage #227 188
- 21** **NEW!** Hockey Canada™ #245 135
- 22** **NEW!** Sinister™ #250 088



Performance Series™

Mid-Range Helmets for Most Applications

- 23** Black #232 035
- 24** America's Eagle™ #232 036
- 25** Motorsports™ #232 039
- 26** Blue Rage™ #241 458
- 27** Fireball™ #234 514
- 28** Camouflage #241 460
- 29** **NEW!** '64 Custom #250 532



Pro-Hobby™ Series

Ideal Helmets for Light-Duty Applications

- 30** Black #231 404
- Fixed Shade #10 Black #231 703
- 31** American Eagle™ II #231 405
- 32** Red Flame #231 408
- 33** Millermatic™ #231 406
- 34** Camouflage #231 407
- 35** **NEW!** Blue Heat #250 366



MP-10™ Series

- Black #235 626 (6 Pk)
- #238 497 (Each)
- Inferno™ #235 627 (6 Pk)
- #238 496 (Each)

- Passive shade 10 lens
- Upgradeable to auto-darkening lens



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.



2x4 Auto-Darkening Lens

- #770 660 (Shade 8)
- #770 659 (Shade 9)
- #770 226 (Shade 10)

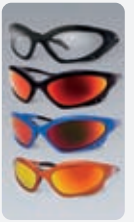
- Fits all 2x4 inch windows
- Solar powered and 2 arc sensors
- Light state shade 3
- 2-year warranty



Safety Glasses

- #238 979 (Black, clear lens)
- #235 656* (Black, smoked lens)
- #235 655* (Blue, smoked lens)
- #235 662* (Black, shade 3 lens)
- #235 661* (Blue, shade 3 lens)
- #235 663* (Orange, shd 3 lens)
- #235 658 (Black, shade 5 lens)
- #235 657 (Blue, shade 5 lens)
- #235 659 (Orange, shd 5 lens)

- Form fitting orbital eye coverage
- ANSI Z87.1 compliant



*Available 1st Quarter

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 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)
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 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)
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)
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)
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)
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)
Pro-Hobby™ 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)
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)



Hand and Body

Industrial Gloves (See Size Chart)



HD MIG/Stick

- Premium side split cowhide for extreme durability
- Aluminized insulation reflects radiant heat



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-in cuff for additional protection
- Fully welted seams for extended life



TIG

- Unlined pigskin leather palm provides superior dexterity
- Reinforced palm patch for added comfort

Industrial Welding Apparel



NEW! Classic Cloth Apparel

- 9 oz 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-in length
- Attaches to cape sleeves

4 Classic Cloth Apron #247 149

- 35-in length
- Adjustable drawstring

5 Classic Cloth Sleeves #247 148

- 18-in length
- One-handed cinch closure



NEW! WELD X™ Apparel

- 7 oz 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 #247 147

- 19-in length
- Attaches to cape sleeves

9 WeldX Apron #247 149

- 35-in length
- Adjustable drawstring

10 WeldX Sleeves #247 148

- 18-in length
- One-handed cinch closure

Size Chart (Gloves)

Pg 84 Gloves	Size Chart (Gloves)			
	Glove	Medium	Large	X-Large
HD MIG/Stick	—	#249 193	#249 194	
MIG	—	#249 195	#249 196	
MIG (Long Cuff)	—	#249 197	#249 198	
TIG	—	#249 199	#249 200	

Size Chart (Apparel)

Pg 84 Apparel	Size Chart (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	

Pg 85 Apparel	Size Chart (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	



Hand and Body

Gloves (See Size Chart)



HD MIG/Stick

- Breathable pigsplit back with top grain cowhide palm provides utmost protection
- FR cotton fleece lining with exclusive channeled foam



MIG

- Breathable pigsplit back with genuine American deerskin palm for ultimate comfort
- Moisture-wicking fleece lining provides additional protection



TIG

- Durable goatskin back and palm for extended wear and ultimate dexterity
- FR cotton fleece back and padded palm provide excellent protection



TIG (Short Cuff)

- Durable pigsplit back with goatskin palm provide superior protection and dexterity
- 3-in cuff for additional mobility



Multi-Purpose

- Breathable pigsplit back with top grain cowhide palm for excellent heat protection
- Moisture-wicking mesh lining and padded palm



Metalworker

- Spandex backing and goatskin palm provide optimal comfort
- Neoprene wrist with Velcro® closure for better fit and support

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 in (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

Accessories



Job-Site Tool Bag #228 028

- Over twenty separate pockets
- Opening of 12 x 18-1/2 in (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



Protection Paks

- **Starter Pak** (includes #231 404 Pro-Hobby™ helmet)
 - #239 725 Large
 - #239 726 X-Large
 - #240 885 2X-Large
- **Performance Pak** (includes #232 035 Performance™ helmet)
 - #240 886 Large
 - #240 887 X-Large
 - #240 888 2X-Large



PAPR

Powered Air-Purifying Respirator

#235 671 With Auto-Darkening Lens Assy
#237 811 Without Auto-Darkening Lens Assy

- Lightweight design provides 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

Heat Stress



CoolBand™

Integrated Headgear Cooling System #244 094

- Provides all-day comfort through optimized airflow distribution
- Up to 8°F cooler under the hood
- Strategically placed air vents reduce fogging
- Constant air movement removes stagnant air
- Removable air deflector provides airflow adjustability
- Compatible with most Miller Helmets*



CoolBelt™

Belt-Mounted Cooling System #245 230

- Provides all-day comfort through maximized airflow power
- Up to 17°F cooler under the hood
- Multiple airflow speeds eliminate stagnant air and reduce fogging
- Lightweight design extends wearability
- Compatible with most Miller Helmets*

*MP-10™, Elite™ and Titanium™ Series.

ACCESSORIES

MORE on
the **WEB**

MillerWelds.com/Accessories



The right welding and cutting accessories increase convenience, save time and money, perform better and help you meet the demands of any job.

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- Wire Straightener

Aluminum MIG Welding

See Spoolmate, Spoolmatic and XR-Control System on pages 27–29.

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 ft (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. 1/4-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 #195 115

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 700 and 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

#195 116

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 200 and 350, Dynasty 200 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 200 and 350, Dynasty 200 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 700 and Dynasty 700. 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.



Carrying Cart #056 301

For smaller Maxstars, CST 280, XMTs, and wire feeders. Cart is 34 in high x 30 in wide x 17 in 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 lb (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 200 Series, Dynasty 200 Series, Diversion 165 and 180, and XMT 304 and 350. Also accommodates gas cylinder up to 56 in (142.2 cm) high measuring 6 to 9 in (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 200 Series and Dynasty 200 Series to be used 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.



Runner™ Cart #300 244

For Maxstar 350 and 700, and Dynasty 350 and 700 to be used with or without Coolmate 3.5. Cart features single cylinder rack, foot pedal holder, (3) cable/torch holders, (2) TIG electrode filler holders and a convenient drawer for tungsten and consumable storage.



MIGRunner™ Cart #195 445
 For AlumaFeed System, Invision 352 MPa, and XMT 304 and 350. 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 Invision 352 with dual feeder, Invision 456 models, Axxess 300 and 450, and XMT 456. 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 300/350P. Replaces single cylinder rack.



No. 19 Running Gear #041 580
 For Dialarc 250 AC/DC. Four 8 in (203 mm) poly/rubber-blend wheels with 30 in (762 mm) towing handle.

No. 20 Running Gear #041 581
 For SRH-444. Includes four 8 in (203 mm) poly/rubber-blend wheels and a 30 in (762 mm) towing handle.



No. 37 Running Gear #195 282
 For Syncrowave 250 DX and 350 LX. Includes two 10 in (254 mm) wheels, two 5 in (127 mm) casters, two-compartment rack (for gas cylinder(s) or Coolmate V3 coolant system), and handles. Provides excellent mobility and easy to install.



No. 39 Running Gear #300 009
 For Syncrowave 200. Includes low cylinder rack, two 8 in (203 mm) wheels and two 4 in (102 mm) casters. Has two-compartment, integrated filler material storage and will accommodate one gas cylinder up to 60 in (152 cm) high and 9 in (23 cm) in diameter.



Shopmate 300 Running Gear/ Dual Cylinder Rack #300 145
 For Shopmate 300/300 DX. The large 10 in (254 mm) rear wheels and 5 in (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 in (178 mm) diameter, maximum weight 100 lb (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 in (178 mm) diameter, maximum weight 75 lb (34 kg).



Standard Running Gear #042 886
 For CP-302, Deltawelds, Gold Stars, and Dimensions. The 10 in (254 mm) rear wheels and 5 in (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 



Coolmate™ 1
#300 360 115 VAC
#300 459 230 VAC
 For Maxstar 200 Series, Dynasty 200 Series, and Syncrowave 200. Light industrial, 1-gallon cooler designed for water-cooled torches on power sources rated up to 200 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 350 and 700, and 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*.

Coolmate™ 3X #300 419
 For Syncrowave 250 DX and 350 LX. Industrial, 3-gallon cooler designed for water-cooled torches rated up to 500 A*. Includes wheels, handles and dual cylinder rack.



Coolant

Sold in multiples of four in 1-gallon recyclable plastic bottles. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37°F (-38°C) or boiling to 227°F (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.

*May vary with torch design and cable length.
 Miller coolant systems are backed by the best warranty in the industry — 1 full year.

Model	Motor Input Voltage	Maximum Current Draw	Maximum Cooling Capacity	IEC Cooling Capacity	Tank Capacity	Dimensions	Net Shipping Weight
Coolmate 1	115 VAC, 60 Hz	2.1 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 gal (3.8 L)	H: 8 in (203 mm) W: 7½ in (191 mm) D: 23¼ in (603 mm)	29 lb (13 kg)
	230 VAC, 50/60 Hz	0.65 A (50 Hz), 0.55 A (60 Hz)					
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: 13¼ in (337 mm) W: 12¼ in (311 mm) D: 23¼ 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: 9¼ in (235 mm) D: 9¼ 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: 11¾ in (298 mm) W: 15¾ 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: 16¼ in (413 mm) W: 15¼ in (387 mm) D: 18¾ in (476 mm)	40 lb (18 kg)
Coolmate 3X	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 gal (11.4 L)	H: 17 in (432 mm) W: 27 in (686 mm) D: 39 in (991 mm)	158 lb (72 kg)

Engine Drive Accessories

See also Remote Controls and HF Arc Starters on pages 94 and 95.

Generator Accessories



Female Receptacle

Adapter Cord, Full KVA #300 517 Field

For Bobcats, Trailblazers, Big Blue 300 Pro, and Big Blue 350 PipePro. NEMA 14-50P to NEMA 6-50R.

Adapts engine drive 120/240 V plug to common Millermatic and Spectrum 240 V plug.



1-Phase Full KVA Plug Kit #119 172

For Bobcats, Trailblazers, Big Blue 300 Pro, and Big Blue 350 PipePro.

Used to run plasma systems on engine drive generator power.

3-Phase Full KVA Plug Kit

#165 963 For Bobcat 3 Phase.

Maintenance



Remote Oil Drain & Filter Kits Rear Mounted (shown)

#300 106 Field For Kohler

#300 417 Field For Subaru

Oil can be drained from the rear of the machine.

Front/Chassis Truck Mounted

#300 236 Field For Kohler

#300 418 Field For Subaru

Oil can be drained from the front of the machine or below the truck, mounted on the chassis.

For Gas Bobcats and Trailblazers.

Makes servicing easy when mounted in tight spots.

Package Expansions



Cable Holder #043 946

For Big 40, Big Blue 400 and 500, Big Blue Air Pak, and Big Blue Turbo.



Gas Cylinder Mounting Assembly #195 330

For Gas/Diesel Bobcats and Trailblazers (except Air Pak model). 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.



LP Tank Mounting Assembly with Hose #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 lb tanks horizontally, and hose with fittings to converter.

Note: Cannot be used with Gas Cylinder Mounting Assembly or All-Terrain Running Gears.

Portability

See also Trailers on page 91.



All-Purpose Running Gear

#300 396 With inner tubes

#300 477 With Never Flat™ tires

For Gas/LP Bobcats and Trailblazers (except Air Pak model). Includes two heavy-duty 15 in tires, two 8 in 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 model). 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 model). Includes two heavy-duty 15 in tires, two 10 in 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 model). 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.



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 designed for easy onsite mobility.



Wildcat 200 Running Gear

#300 532

For Wildcat 200. Running gear designed for excellent portability on the jobsite.

Protection



#195 333 cover shown.

Protective Covers

#195 193 For Blue Stars.

#300 496 For Wildcat 200.

#195 333 For Bobcats, and Trailblazer 302 and 275 DC (Gas) without Protective Cage or Running Gear.

#195 529 For Bobcats, and Trailblazer 302 and 275 DC (Gas) 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.

#195 301 For Big Blue 300 Pro, 350 PipePro, and 400 Eco Pro.

#194 683 For Big 40, and Big Blue 400 and 500.

#195 159 For Big Blue Air Pak and Big Blue Turbo.

Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of welders. See MIG, Plasma Cutter, and TIG Accessories for additional covers.



Protective Cage with Cable Holders

#195 331 For Gas/LP models

#300 052 For Diesel models

#300 473 For Trailblazer 302 Air Pak

For Bobcats and Trailblazers. Rugged cage with cable holders protects your investment. Works with Running Gear, Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.



Vandalism Lockout Kit

#195 118 Field

For Big 40, Big Blue 400 and 500, Big Blue Air Pak, and Big Blue Turbo. Lockable hinged steel panels cover

and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.



Trailers

See Literature No. AY/20.0



HWY-1000 Trailer #195 013
For Wildcat 200, Bobcats, and Trailblazers (except Air Pak model). A 1000 lb (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 in (50 mm) ball hitch, fenders and lights.



4 West Four-Wheel Steerable Off-Road Trailer #042 801
For Big 40, Miller Du-Op, and Big Blues. Heavy-duty 2570 lb (1166 kg) capacity trailer designed for use in mines, quarries, and other rough terrain. Has narrow 22 ft (6.7 m) turning radius. Includes 3 in lunette eye, universal hitch and safety chains.



HWY-224 Trailer #043 805
OFR-224 Trailer #043 802
For Bobcats, Trailblazers, Big 40, Miller Du-Op, and Big Blues. A 2650 lb (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 in (50 mm) ball hitch. HWY-224 also includes fenders and lights.

Trailer Accessories



Dual Hitch #300 831
For HWY-1000, HWY-224, and OFR-224. Combination 2 in (50 mm) ball and 3 in (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.

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)	18½ in (470 mm)	6½ in (165 mm)	50 in (1270 mm)	4.8-12	L: 98 in (2489 mm) W: 57½ in (1460 mm)*	265 lb (120 kg)
4 West	2000 lb/axle (907 kg/axle)	3000 lb (1361 kg)	2570 lb (1166 kg)	21¼ in (540 mm)	8 in (203 mm)	55¼ in (1403 mm)	B78-13	L: 91 in (2311 mm)** W: 61¼ in (1556 mm)	430 lb (195 kg)
HWY-224 OFR-224	3500 lb (1588 kg)	2960 lb (1343 kg)	2650 lb (1202 kg)	18½ in (470 mm)	7½ in (191 mm)	52 in (1321 mm)	B-78-13	L: 105 in (2667 mm) W: HWY-59½ in (1511 mm)* OFR-58¼ 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 ft (4 m) 115 V 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-driven 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 prospective 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 #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.

Meter Kits #300 331 Field For SuitCase X-TREME 8VS.
#195 165 Field For SuitCase 8RC models BEFORE serial #LJ020185V.
#300 178 Field For SuitCase 12RC.

Weld Ammeter and Voltmeter Kit #195 131 Field For Big 40, Big Blue 400 and 500, and Big Blue Air Pak. Panel-mounted analog meters monitor welding output.

MIG Accessories

Accessory Kits

#300 405 kit shown.



Industrial MIG 4/0 Kit #300 390
Consists of 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.

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 ft (3 m) gas hose, 10 ft (3 m) 1/0 interconnecting cable, 15 ft (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

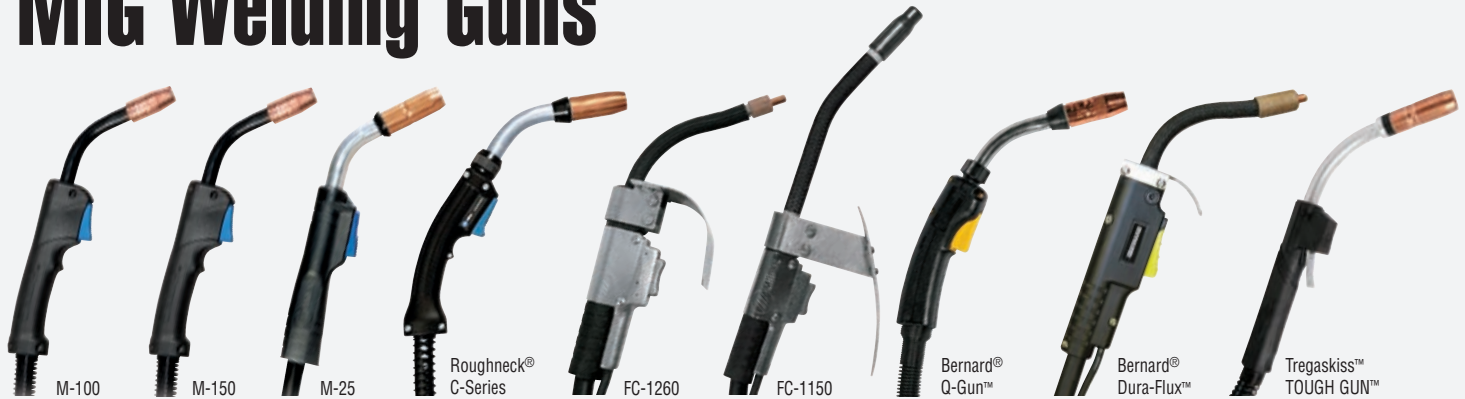


Optima™ MIG Pulse Control #043 389
For Invisions and XMTs (except MPa and VS models). A multipurpose, microprocessor-based pulse control for synergic MIG

(wire welding or GMAW), manual MIG pulsing or standard MIG welding. Use this control with all above power sources and any Miller wire feeder, including automatic feeders and spool guns. Includes 25 ft (7.6 m) cord with 14-pin plug.



MIG Welding Guns



*Rated duty cycle for MIGmatic and Roughneck guns using CO₂ gas. Please see individual Literature Sheets for detailed specifications.

Model	Part 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)					
	#169 599	15 ft (4.6 m)				.035-.045 in (0.9-1.2 mm)	3/64 in (1.2 mm)
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)					
C-5010	#194 757	10 ft (3 m)	MIG, Flux Cored	500 Amps	100%	.052-1/16 in (1.3-1.6 mm)	1/8 in (3.2 mm)
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 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-Guns™ and Dura-Flux™ guns — see Web site at bernardwelds.com

Tregaskiss™ TOUGH GUN™ Semi-Automatic MIG Torches — see Web site at tregaskiss.com/semiauto

MIG Gun Accessories

MIGmatic M-Series

Consumable Kits

For M-100 and M-150.

#234 607 .023 wire

#234 608 .030 wire

#234 609 .035 wire

For M-25.

#234 610 .030 wire

#234 611 .035 wire

#234 612 .045 wire

Contains contact tips, tip adapters, nozzle adapters and a standard nozzle.

Roughneck C-Series

Aluminum Conversion Kit #202 895

Allows 10 ft Roughneck guns to feed 3/64-1/16 in aluminum wires.

Consumable Kit #206 073

Contains contact tips, diffuser, nozzle, nozzle insulator and gun hook.

Gun Hook #199 662

Enables Roughneck gun to be stored between welds.

Locking Trigger Switch #199 661

Allows Roughneck trigger to be locked during long welds.

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 Series

.045 Conversion Kit #199 178

Allows FC-1260 and FC-1260LM guns to feed .045 in self-shielded wire.

Bernard

Aluminum Gun Kits

#300 541 .035, 10 ft (3 m)

#300 542 .047, 12 ft (3.7 m)

#300 543 1/16, 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 in drive rolls, plastic guides, specific aluminum consumables, and a 10 or 12 ft Bernard® Q-Gun™.

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 includes a cord wrap and provides mobility with an angle for easy front panel access and extra storage space.

Cutting Guides



Plasma Circle-Cutting Guides #195 981

For ICE-12C, 27C, 27T, 40T, and 60T. Cut straight lines or circles up to 12 in diameter.



Plasma Standoff Roller Guide #194 883

Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.



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 in diameter.

Filters



In-Line Air Filter Kit #228 926

For Spectrum 375, 375 X-TREME, 625 X-TREME, 875, and 875 Auto-Line. Mounts to the back of the plasma cutter. Includes male and female 1/4 in 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% 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% 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).

Plugs and Cords



MVP™ Adapter Plugs

#219 258
For power cable 6-50P (230 V/50 A).



#219 261
For power cable 5-15P (115 V/15 A).



#219 259
For power cable 5-20P (115 V/20 A).

For Spectrum 375 X-TREME, Millermatic 211 Auto-Set with MVP, Millermatic Passport Plus, Maxstar 150 models, and Diversion 180. Allows connection of machine to 115- or 230-volt receptacles without tools — just choose the plug that fits the receptacle.



Adapter Cord, Full KVA #300 517 Field

NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to common Millermatic and Spectrum 240 V plug.

Protective Covers



#195 144
cover
shown.

#195 144 For Spectrum 125C and 375.
#300 388 For Spectrum 875.



#300 184 X-CASE for Spectrum 375 X-TREME and 625 X-TREME, and Maxstar 150 models.

Torches

See your Miller distributor for complete information on the following ICE plasma torches and their consumables:



ICE-12C Hand-Held
For Spectrum 125C.

ICE-27C Hand-Held
For Spectrum 375.

ICE-27T Hand-Held
For Spectrum 375 X-TREME.

ICE-40T Hand-Held
For Spectrum 625 X-TREME.

ICE-60T Hand-Held
For Spectrum 875 and 875 Auto-Line.

ICE-60TM Machine-Held
For Spectrum 875 Auto-Line.

ICE-60TM Machine-Held Torch Package

#300 759 25 ft (7.6 m)

#300 760 50 ft (15.2 m)

For Spectrum 875 Auto-Line. Package includes ICE-60TM machine-held torch, remote control cable (#220 240), remote voltage sense cable (#246 285), machine torch sense tab (#226 763), remote pendant control (#195 513) and internal control harness (#246 287).



Plasma Torch Consumable Kits

#222 938 For ICE-12C.

#222 939 For ICE-27C and 27T.

#222 940 For ICE-40C and 40T.

#239 086 For ICE-60T.

#127 493 Empty consumable box.

Polarity Switches/Controls

Polarity Control #042 871

This dual-function control is designed for use with dual wire feeders or any application where electrical isolation and/or polarity reversing of weld current is required. Both functions can be used at the same time.

AC/DC Polarity Reversing Switch Kit #195 095 Field

For Big 40. Changes DC+/AC/DC- without using tools.

DC Polarity Reversing Switch Kit #043 942 Field

For Big 40, and Big Blue 400 and 500. Changes DC polarity without using tools.



Process Selector Control #042 872

For CC, CV or CC/CV welding power source. Provides easy way to change welding process. Also includes features of Polarity Control.

Remote Controls

See also **TIG Accessories Remote Controls** on page 95.



PRHC-14 Hand Control #195 511
For all solid-state power sources after serial number JK674521. Complete

current or voltage control brings 120 volts GFCI power to work area in a single cord. Housed in a durable light aluminum case and includes 125 ft (38 m) cord with plugs.

Remote On/Off Control #242 197 025

For Deltawelds, Gold Stars, and Dimensions. Allows you to turn your power source on or off from a distance of 25 ft (7.6 m). This is especially useful if power source is up in a mezzanine.



RHC-3 Remote Hand Amperage Control*

#242 210 020 20 ft (6 m) cord
#242 210 100 100 ft (30 m) cord
For Dialarc 250 AC/DC, SRH-444, and Mark VIII-2. Optional remote control facilities RF-10 (#041 111) required for the Dialarc 250 AC/DC. Includes cord and plug.

*Custom lengths available in 5 ft increments up to 50 ft and 10 ft increments up to 100 ft.



RHC-3GD34A Remote Hand Control #041 122

For Big 40 CC, and Big Blue 400 CC and 500 CC. Remote hand amperage control. Includes 20 ft (6 m) cord and plug.

Spot Welder Gyro Bail



Shown with MSW spot welder.

Gyro Bail #041 979

For MSW and LMSW air-cooled spot welders. Supports weight of welder. Operates with boom and counter-weight or from spring-loaded cable. Spot welds in any position.

Stick Accessory Kits



No. 2 Stick Cable Sets

#195 196 15 ft
#300 836 50 ft

Consists of either 15 or 50 ft electrode cable with holder and work cable with clamp. 200 A, 100% duty cycle.

2/0 Stick Cable Set (50 ft) #173 851

Consists of 50 ft 2/0 electrode cable with holder and 50 ft work cable with clamp. 350 A, 100% duty cycle.

2/0 Stick Cable Set (100/50 ft) #043 952

Consists of 100 ft 2/0 electrode cable with holder and 50 ft work cable with clamp. 300 A, 100% duty cycle.



Weld Cables

#195 457 Cable w/Electrode Holder

#195 458 Cable w/Work Clamp

Consists of a stud/Tweco® adapter and 10 ft 2/0 weld cable with a Tweco male connector and either an electrode holder or work clamp. Rated up to 400 A.



2/0 Weld Cable Extensions

#195 456 50 ft
#195 455 100 ft

For use with weld cables (#195 457) and (#195 458).

Sub Arc Accessories

Consumables Handling



Flux Hopper with Valve #194 775

25 lb (11 kg) capacity hopper with automatic flux valve and slag screen. Contact the following suppliers for Miller-compatible flux recovery systems.

Flux Recovery Systems

American Vacuum 1-800-321-2849
Invincible 1-800-282-6999
Weld Engineering 1-508-839-9875

Wire Reel #108 008

For 60 lb (27 kg) coil of wire. Requires Spool Support Assembly (#119 438).

Wire Straightener #199 733

For RAD-400 or RAD-780 wire drive assembly. For wires 1/16–7/32 in (1.6–5.6 mm).

Control Accessories

Basic Cable Kit #195 308

For digital and analog HDC 1500 controllers. Includes 30 ft (9 m) 14-pin interconnect cable and 10 ft (3 m) motor cable.

Control Cable Extensions*

#242 205 025 25 ft (7.6 m)

#242 205 050 50 ft (15 m)

#242 205 080 80 ft (24.4 m)

14-pin welding power source control cable extends distance between power source and controller.

*Custom lengths available in 5 ft increments up to 50 ft and 10 ft increments up to 100 ft.

Motor Extension Cable #195 342

25 ft (7.6 m) extension for the motor cable supplied in kit (#195 308).

Light-Duty Cross Slide #195 411

Allows 6 inches of travel adjustment. Two units can be stacked to provide vertical and horizontal movement.

Not recommended for tandem.

Heavy-Duty Cross Slide #300 482

Allows for 6 inches of travel adjustment and has a load capacity of 200 pounds. Recommended for tandem.

Drive Assembly Drive Rolls

V-knurled drive rolls for use with hard-shelled cored wires.

SAW4 Recommended Drive Rolls

#132 955 1/16 in (1.6 mm)

#132 960 5/64 in (2.0 mm)

#132 961 3/32 in (2.4 mm)

#132 962 7/64 in (2.8 mm)

RAD-400 Recommended Drive Rolls

#132 963 1/8 in (3.2 mm)

#193 700 5/32 in (4.0 mm)

RAD-780 Recommended Drive Rolls

#193 701 3/16 in (4.8 mm)

#193 702 7/32 in (5.6 mm)

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 8-1/2 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

Submerged Arc welding systems employ two primary ways of traversing the arc, wire and flux along the joint to be fused: a Motorized Side Beam or a Self-Propelled Tractor Package. Side beam systems generally work well for longitudinal welds less than eight feet long. Welds over eight feet are better suited to tractor systems.

Motorized Side Beam Systems

For more information contact Jetline Engineering at (949) 951-1515. They have extensive experience assembling custom mechanized welding systems — including Sub Arc systems.



Miller Tractor Packages

MT 1500 DX (with HDC 1500 DX Automatic Weld Control) #951 060

MT 1500 A (with HDC 1500 A Automatic Weld Control) #951 061

Miller self-propelled tractor packages include an HDC 1500 DX (digital) or 1500 A (analog) automatic weld control, a travel system complete with a main mounting mast and handle assembly, a 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 Literature No.DC/19.9 for more information.



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 A, 60% 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



#195 054 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 200 SD and DX, and 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 A TIG torch, International-style torch adapter, 200 A Stick electrode holder with 15 ft (4.6 m) cable, 300 A work clamp with 15 ft (4.6 m) cable, Smith® flow gauge regulator with 12 ft (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
#300 183 300 A, CS310
#300 186 400 A, WP18SC
 For Maxstar and Dynasty 200/350/700, and Syncrowave 250 DX/350 LX. Each torch kit includes a 25 ft (7.6 m) TIG torch, torch cable cover, work clamp with 15 ft (4.6 m) cable [12 ft (3.7 m) cable on 400 A kit], Smith® regulator/flowmeter with 12 ft (3.7 m) gas hose, torch adapter, and torch accessory kit. See Lit. No. AD.5.0 for complete individual package details.

Modules

Pulsar Module #300 548
 For Syncrowave 250 DX effective with serial #LE282983. 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
 For Syncrowave 250 DX and 350 LX effective with serial #LE282983. 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.

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.
#195 320 For Syncrowave 250 DX/350 LX.
#300 579 For Diversion 165 and 180.
#195 478 For XMT 304 and 350.

Remote Controls



RCC-14 (14-pin plug) #151 086
 For all Miller solid-state power sources AFTER serial number JK674521. Side-to-side (east/west) rotary-motion fingertip current/contactor control fastens to TIG torch using two Velcro® straps. Great for production or contractors that need quick ramp-up. Includes 26.5 ft (8 m) cord and plug.



RCCS-14 (14-pin plug) #043 688 26.5 ft (8 m) cord
 For all Miller solid-state power sources AFTER serial number JK674521.

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.

North/south rotary-motion fingertip current/contactor control fastens to TIG torch using two Velcro® straps. Great for applications that require a finer amperage control. Includes cord and plug.



RFCS-23A #242 199 020
 For Dialarc 250 AC/DC, Dialarc HF, Gold Star 330 A/BP and 320 A/BP. Foot pedal current/contactor control. Includes 20 ft (6 m) cords and plugs.



RFCS-14 (14-pin plug) #043 554 20 ft (6 m) cord
RFCS-5 (5-pin plug) #043 716 20 ft (6 m) cord
 For all Miller solid-state power sources BEFORE serial #JK674521.

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.

Foot pedal current/contactor control. Includes cord and plug.



RFCS-14 HD (14-pin plug) #194 744
 For all Miller solid-state power sources AFTER serial #JK674521. Heavy-duty foot pedal current/contactor 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 ft (6 m) cord and plug.

HD Conversion Kit #194 743
 Kit provides the needed hardware to convert your existing RFCS-14 foot control to the heavy-duty version.

Adapter Cord for RJ45 to 14-Pin #300 688
 12-inch long adapter cord to allow the Miller 14-pin industrial foot controls to be used with the Diversion 165 and 180.



RFCS-RJ45 #194 744
 For Diversion 165 and 180. Foot pedal current/contactor control. Includes 14 ft (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
 For all Miller solid-state power sources AFTER serial #JK674521. Miniature hand current/contactor control. Dimensions: 4 x 4 x 3-1/4 in (102 x 102 x 82 mm). Includes cord and plug.
 *Custom lengths available in 5 ft increments up to 50 ft and 10 ft increments up to 100 ft.



RMLS-14 (14-pin plug) #129 337
 For all Miller solid-state power sources AFTER serial #JK674521. Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 26.5 ft (8 m) cord and plug.



RMS-14 (14-pin plug) #187 208
 For all Miller solid-state power sources AFTER serial #JK674521.

RMS-6M (6-pin plug) #195 269
 For Maxstar 150 STL and STH. Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5 ft (8 m) cord and plug.



RPBS-14 (14-pin plug) #300 666
 For all Miller solid-state power sources AFTER serial #JK674521. Attaches to the TIG torch to remotely start and stop the TIG welding process. Includes 25 ft (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.

#194 995 25 ft (7.6 m)
 For all D-74S and D-74D feeders, and D-74DX feeders BEFORE serial number LJ440752U.

#300 561 10 ft (3 m)
#300 563 25 ft (7.6 m)
 For D-74DX feeders AFTER 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 V 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 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 #KK309906, and 50 Series feeders. Fully-loaded 14-pin extension cables for remote controls, and 24 V and 115 V feeders.
 *Custom lengths available in 5 ft increments up to 50 ft and 10 ft increments up to 100 ft.

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

Millermatic PSA Control #195 019
 Required when using 24 VAC wire feeder or XR-Control and gun with Millermatic 252.



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 ft (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 ft (7.6 m) cord used to extend the 10 ft (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% 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 ft Remote Contactor Cord (#108 925) required.

Spool Adapter

#047 141
 For use with 14 lb (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 drive motor acceleration rate to optimize arc starting performance.



WC-115A Weld Control #137 546

Without contactor
#137 546-01-1
 With contactor

Operates on 115 VAC, and designed primarily for CC DC power sources. Can also be used with CV 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 ft cable reach and accessibility, with smooth feeding of aluminum wire. Lightweight (9.1 lb) and well-balanced for operator comfort the 3035 is rated at 150 amps at 60% duty cycle. It handles aluminum, steel and stainless wire from .023-.035 in (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 A, 60% 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 DVL2.



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 ft (3 m) 115 VAC power cable and plug, 6 ft (1.8 m) interconnecting cable, and 5 ft (1.5 m) gas hose.



SGA 100C #043 857

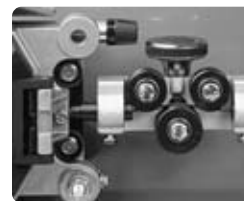
SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like Miller's Bobcat. Includes 10 ft (3 m) 115 VAC power cable and plug, 6 ft (1.8 m) interconnecting cable, and 5 ft (1.5 m) gas hose.

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 in (0.9-1.1 mm) wire.

#141 581

For 1/16-1/8 in (1.6-3.2 mm) wire.

MILLER



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TOUGH GUN Semi-Automatic MIG Guns are known for their rugged durability in high-volume production facilities.

Plus, our unique **Double Life MIG Gun System** doubles the life of your air-cooled gun! Simply swap the trigger and gooseneck from the worn front handle with the power pin on the rear handle.

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Tregaskiss™ MIG Guns share the same high performance consumables so you have less inventory and greater production uptime.



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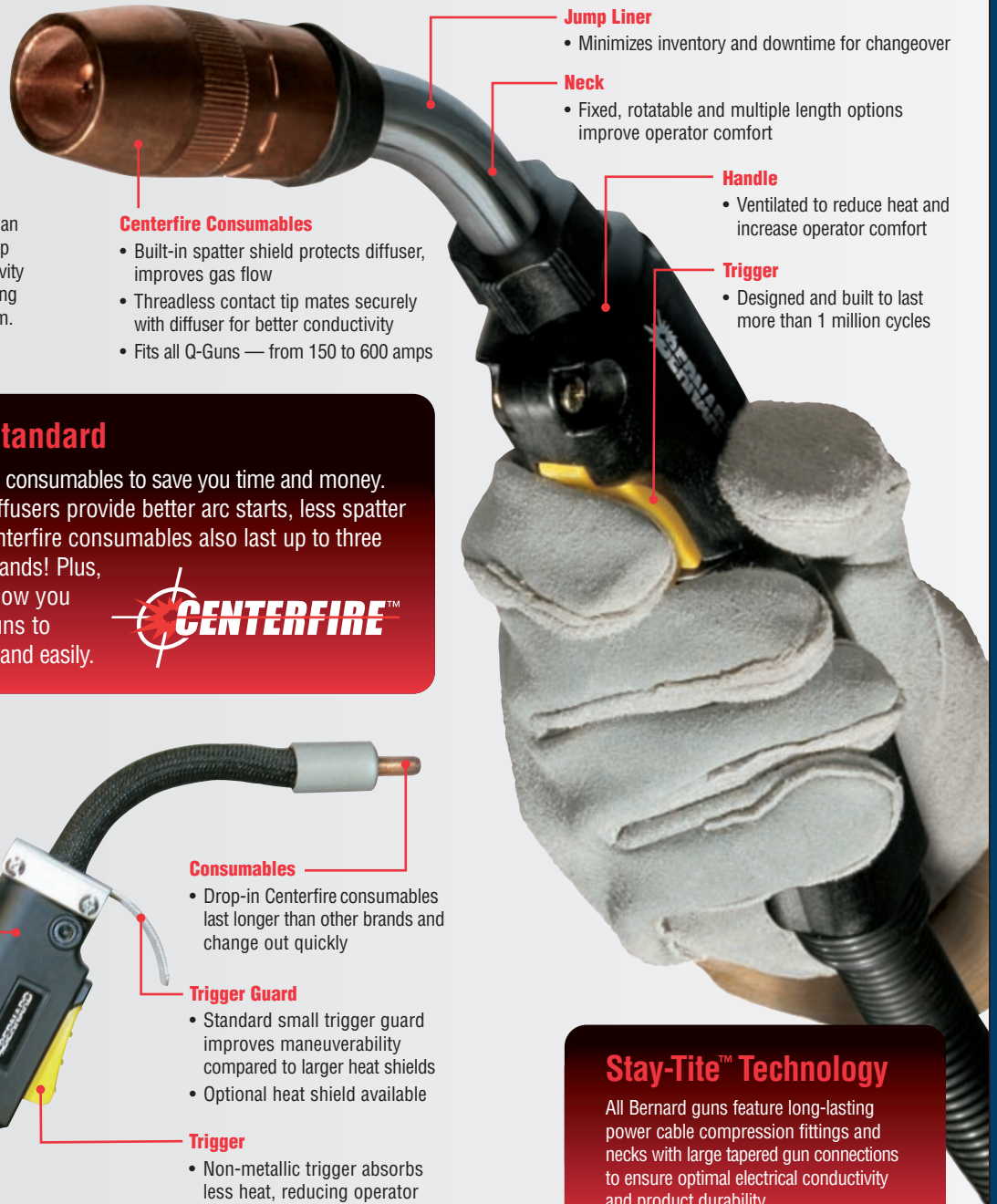
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Centerfire Consumables

- Built-in spatter shield protects diffuser, improves gas flow
- Threadless contact tip mates securely with diffuser for better conductivity
- Fits all Q-Guns — from 150 to 600 amps

Jump Liner

- Minimizes inventory and downtime for changeover

Neck

- Fixed, rotatable and multiple length options improve operator comfort

Handle

- Ventilated to reduce heat and increase operator comfort

Trigger

- Designed and built to last more than 1 million cycles

Centerfire™ Sets the Standard

Bernard developed its Centerfire consumables to save you time and money. Our contact tips, nozzles and diffusers provide better arc starts, less spatter and more consistent welds. Centerfire consumables also last up to three times longer than competitive brands! Plus, our unique conversion parts allow you to convert most competitive guns to Centerfire consumables, quickly and easily.



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Designed for self-shielded flux-cored welding, the Dura-Flux™ gun is extremely tough, yet comfortable to hold and use.

Handle

- Comfortable handle provides excellent control

Cable

- Heavy-duty steel monocoil cable withstands extreme abuse to provide a smooth, consistent wire feed

Consumables

- Drop-in Centerfire consumables last longer than other brands and change out quickly

Trigger Guard

- Standard small trigger guard improves maneuverability compared to larger heat shields
- Optional heat shield available

Trigger

- Non-metallic trigger absorbs less heat, reducing operator discomfort

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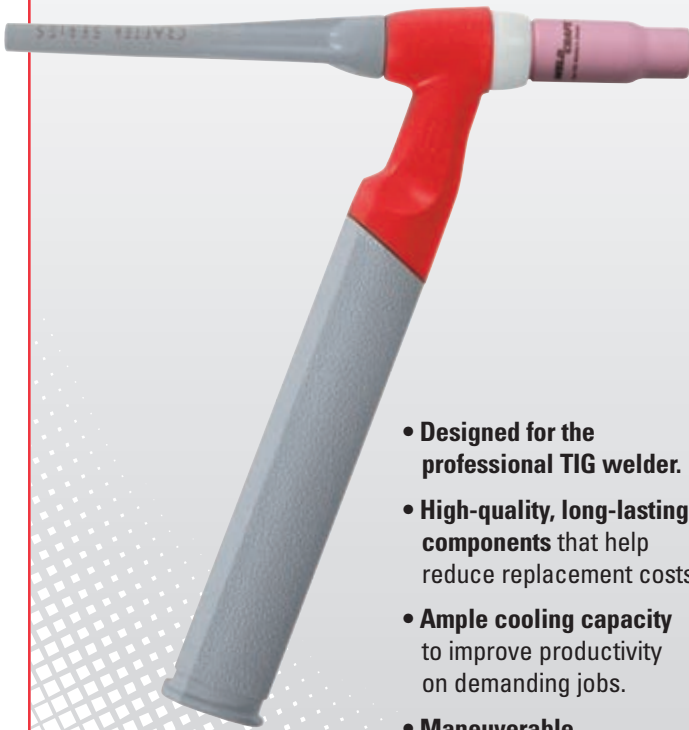
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3. Superior Cutting Tip Performance

We offer long-lasting cutting tips for even the most challenging jobs.

4. Our Complete Product Line

Smith offers a complete line of oxy-fuel cutting, welding, brazing and heating equipment, plus gas regulators.

5. Value

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6. Premium Built

Our products are proudly designed, assembled and tested in Watertown, SD, USA!

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Smith torches are so durable and high performing they carry a Lifetime Warranty. And lifetime means lifetime! We repair or replace any torch for free — that's how confident we are in our product.



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Miller Product Literature Sheets

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