



RENTAL

CONSTRUCTION SOLUTIONS

BUILT TO WELD.
READY TO RENT.

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MillerWelds.com
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1-866-931-9733

Hobart® Filler Metals
HobartBrothers.com
1-937-332-4000

Parts
1-866-931-9731

Bernard® and Tregaskiss®
BernardTregaskiss.com
1-855-MIGWELD
(1-855-644-9353)



Welding Process Terms at a Glance

Common Trade Names	AWS Process	Description	Application Photo
Stick Welding	Shield Metal Arc Welding (SMAW)	An arc welding process with an arc between a flux-coated rod and the welding pool.	
MIG Welding Wire Welding	Gas Metal Arc Welding (GMAW)	Uses a continuously fed solid wire and shielding gas to join metals.	
Flux-Cored Gas Shielded Flux-Cored Dual-Shielded	Flux-Cored Arc Welding (FCAW)	Uses a continuously fed tubular wire and shielding gas to join metals.	
Self-Shielded Flux-Cored Inner-Shield Gasless Wire	Flux-Cored Arc Welding-Self Shielded (FCAW-S)	Uses a continuously fed tubular wire without a shielding gas to join metals.	
TIG Welding	Gas Tungsten Arc Welding (GTAW)	An arc welding process using a non-consumable tungsten electrode, cut length filler metal, and a shielding gas.	
Plasma Cutting Plasma Arc	Plasma Arc Cutting (PAC)	Electric arc process that uses a superheated jet of ionized gas to melt and blow metal away.	
Arc Gouging Air-Arc	Air Carbon Arc Cutting (CAC-A)	Uses an electrical arc to melt metal and compressed air to blow the molten metal away from the cut area.	

Equipment Selector

Asking the Right Questions

1. What type of powered welder is required by the customer?

- Powered by an engine? See question 2.
- Powered by utility power or generator? See question 3.

2. What types of fuel are available for engine-driven welding?

- **LP-driven power sources** — Usually mounted on running gear for on-site movement by people (below 300 amps).
- **Gasoline-driven power sources** — Usually mounted on running gear for on-site movement by people (below 300 amps).
- **Diesel-driven power sources** — Usually trailer-mounted and moved on-site by truck (above 300 amps).

3. Is utility power available?

- Yes — Usually if sufficient power is available, utility-connected welders are a more suitable rental.
- No — If no on-site power, rent engine-powered welders or rent large power generators and utility-connected welders.

4. What voltage and phase power is available?

The machine must match the available power. Is voltage 120, 240, 460 V, etc. and is it single- or three-phase?

- Machine requires single-phase input power, typically found in shops.
- Machine requires three-phase input power which is common in industrial settings, but shops can be wired to supply three-phase, industrial power.

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

5. How will your customer be using the welder?

- **Welding** — See question 6
- **Cutting or gouging** — See question 10
- **Generating AC power** — See question 8

6. What process is used?

- **Stick welding** — The most common process used by rental customers and contractors involved in construction welding.
- **MIG (wire) welding** — Will require a wire feeder OR an integrated wire feeder. Wire feeders can normally be used either with solid type wire with shielding gas or flux-cored (gasless) wire (customer specified).
- **TIG welding** — Most commonly used for welding pipe. It is also a common process for welding aluminum.

7. Is a high duty cycle needed?

Extensive arc-on time and/or high-amperage welding requires a welder with a higher duty cycle. For example, an XMT® 350 has 60% duty cycle at 300 amps of DC output. It can weld for 6 minutes out of 10 at 300 amps and then needs to cool for the remaining four minutes.

8. Generator power?

On a construction site the customer may need an engine-driven welder to supply 120-, 240-, or 460-volt AC power to run tools and lights, or supply 12-volt DC power to charge automotive batteries and jump-start vehicles. Miller welder/generators are packed with power; larger units even offer option packages that add 10 to 20 kW of generator power.

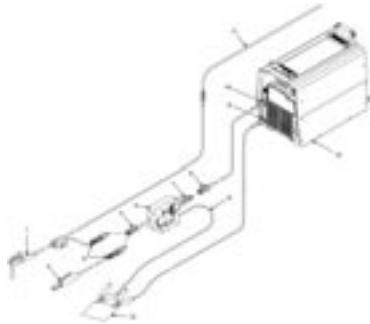
9. Is portable equipment required?

Portable power sources — If welders are to be moved manually, portable welding/cutting machines under 50 lb. may be preferred. Can you bring the work to the machine, or does the machine need to go to the work? Check the product detail pages for types of portability: shoulder strap, handles, running gear, carts, etc.

10. Is the customer cutting or gouging?

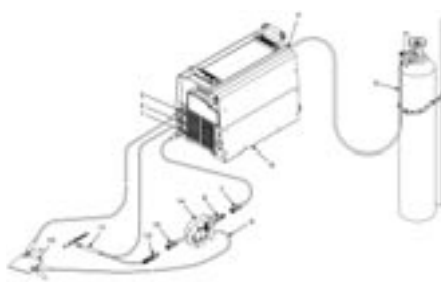
- **Plasma arc cutting** — A cutting process requiring a special machine, compressed air and electric power.
- **Air carbon arc gouging** — A cutting process usually requiring a higher amperage welder, compressed air and special cutting torch.

Checklist for Welding Process



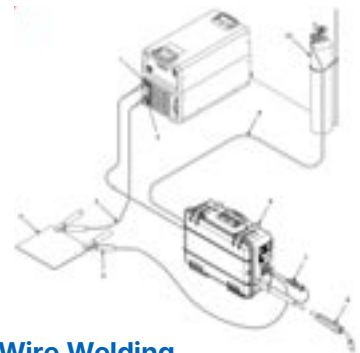
Stick Welding

- 1) Electrode Holder CAC-A (Carbon Arc)
- 2) Electrode Holder SMAW (Stick)
- 3) Male Connector (User Supplied LC-40 Style Male Connector)
- 4) Output Weld Cable (with Supplied Female Connector)
- 5) ArcReach Stick/TIG Remote
An additional weld cable may be used in parallel with the remote if weld current exceeds amperage rating of the remote.
- 6) Voltage Sensing Lead
Attach voltage sensing lead clamp to workpiece.
- 7) Input Weld Cable (with Supplied Male Connector)
- 8) Female Connector (User Supplied LC-40 Style Female Connector)
- 9) Negative (-) Weld Output Terminal Connection for work cable going to workpiece.
- 10) Positive (+) Weld Output Terminal Connection for weld cable going to remote.
- 11) Compressed Air Line
- 12) ArcReach Welding Power Source
- 13) Workpiece



TIG Welding

- 1) Negative (-) Weld Output Terminal Connection for weld cable going to remote.
- 2) Gas Out Connection (Optional)
- 3) Positive (+) Weld Output Terminal Connection for work cable going to workpiece.
- 4) Gas In Connection (Optional)
- 5) Gas Cylinder
- 6) ArcReach Welding Power Source
- 7) Female Connector (User Supplied LC-40 Style Female Connector)
- 8) Input Weld Cable (with Supplied Male Connector)
- 9) Voltage Sensing Lead
Attach voltage sensing lead clamp to workpiece.
- 10) Workpiece
- 11) TIG Torch
- 12) Male Connector (User Supplied LC-40 Style Male Connector)
- 13) Output Weld Cable (with Supplied Female Connector)
- 14) ArcReach Stick/TIG Remote



Wire Welding

- 1) Positive (+) Weld Output Terminal
- 2) Negative (-) Weld Output Terminal
- 3) Work Cable to Workpiece
- 4) Workpiece
- 5) Voltage Sensing Clamp
- 6) Gun
- 7) Gun Trigger Receptacle
- 8) Wire Feeder
- 9) Gas Hose
- 10) Gas Cylinder

Power Source (Electric)	Power Source (Engine-Driven)	Type & Thickness of Material to Be Welded
Primary Power Available • 120 VAC ____ Amps • 208 VAC ____ Amps • 230 VAC ____ Amps • 460 VAC ____ Amps • 575 VAC ____ Amps • Single-Phase • Three-Phase	• Gasoline • Diesel • LP (Propane) • Air-Cooled • Water-Cooled Auxiliary Power Requirements • KVA/KW • Single-Phase • Three-Phase	• Carbon Steel • Stainless Steel • Aluminum • Other

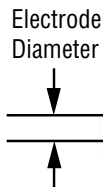
Understanding Welding Processes



Stick Welding (SMAW)

Stick welding is the most common process used in the rental construction industry.

- Constant-current (CC) DC power source is recommended.
- Better for windy, outdoor conditions.
- More forgiving when welding on dirty or rusty metal.
- Use a drag technique for most applications.
- Take precautions with flying materials when chipping slag.
- Keep electrodes clean and dry — follow the manufacturer's recommendations.
- DCEP (also known as DC reverse polarity) welding offers advantages over AC, including easier starts and out-of-position welding, smoother arc and fewer arc outages and sticking.

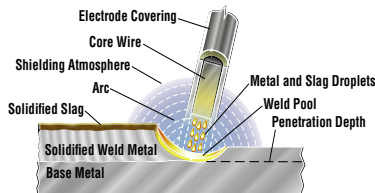
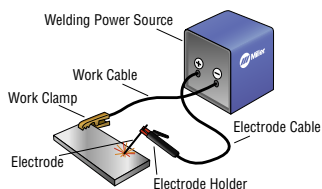


SMAW Electrode Core Diameter

ELECTRODE	DIAMETER	AMPERAGE RANGE							
		50	100	150	200	250	300	350	400
7018	3/32								
	1/8								
	5/32								
	3/16								
	7/32								
	1/4								

Setting Current

The amount of current needed to weld a part depends on several factors, including type and position of joint, metal type and thickness, and electrode type and diameter. With experience, the operator is able to determine how much current is needed for the job at hand. For inexperienced operators there are several ways to establish a starting point for setting current.



SMAW Arc

Welding Cable

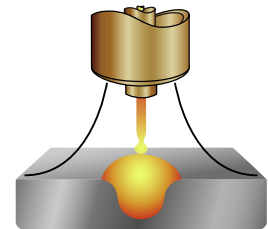
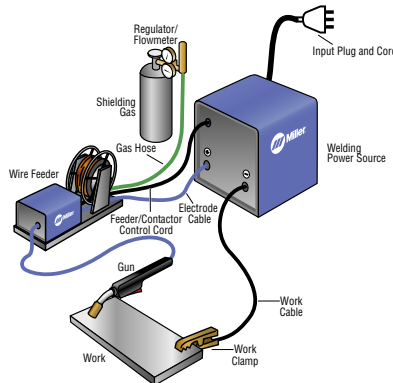
The welding cables and connectors connect the welding power source to the electrode holder and the work. These cables are normally made of copper. The cable consists of hundreds of fine wires enclosed in an insulated casing of natural or synthetic rubber. The cable connecting the work to the power source is called the work cable and is usually connected to the work by a clamping device or bolts. The cable connecting the electrode holder to the power source is called the electrode cable.



SMAW Cables



MIG Welding (GMAW)



Short Circuit Transfer

Short Circuit transfer is commonly used to weld carbon steels in thin to medium thicknesses of plate and pipe.

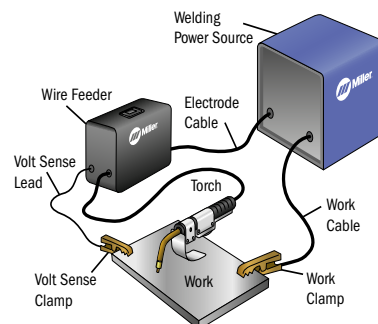
Short Circuit Transfer

Short Circuit Gas Metal Arc Welding (GMAW-S) is defined by the American Welding Society (AWS) as a gas metal arc welding process variation in which the consumable electrode is deposited during repeated short circuits.

During Short Circuit Transfer, a metal droplet forms at the tip of the electrode wire. As the droplet grows, the arc length decreases until the droplet comes in contact with the weld puddle. This causes a short circuit which extinguishes the arc. The droplet then pinches off to form part of the puddle, allowing a new arc to form. Depending on the amperage/voltage relationship this cycle repeats about 120 times per second.

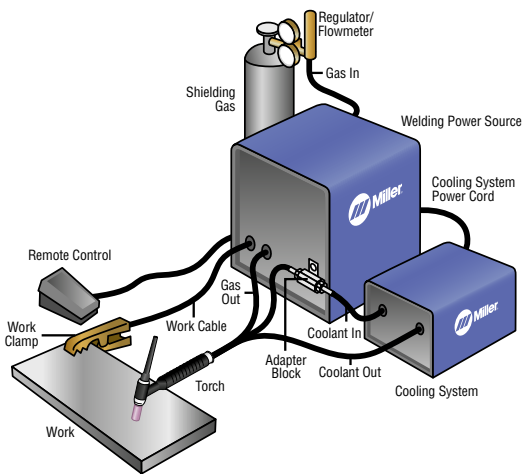
Short Circuit Transfer is commonly used to weld carbon steels and some stainless steels in thin to medium thicknesses of plate and pipe.

Carbon dioxide shielding gas is used for most short circuit welding. However, a mixture of argon and carbon dioxide produces a more stable arc.



Self-Shielded Flux-Cored Arc Welding (FCAW-S) System

Understanding Welding Processes

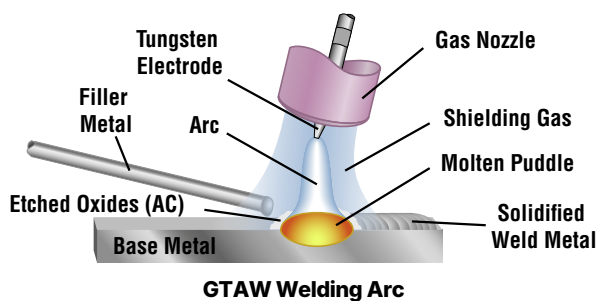


Gas Tungsten Arc Welding (GTAW)

Gas Tungsten Arc Welding (GTAW) is defined by the American Welding Society (AWS) as an arc welding process that uses an arc between a tungsten electrode (nonconsumable) and the weld pool. The process is used with shielding gas and without the application of pressure.

Common names used to refer to Gas Tungsten Arc Welding are TIG and Heliarc welding. The gas tungsten arc welding process can be used to weld any weldable metal including steel, aluminum, magnesium, copper, nickel, titanium and others. The process can be used on a wide range of metal thicknesses and in all welding positions. However, due to the relatively low deposition rates associated with the process, thinner materials are most often welded. It is also popular for depositing the root and hot passes on pipe and tubing.

Since a shielding gas is used, the weld is clearly visible to the welder, no spatter is produced, post-weld cleaning is reduced, and slag is not present.



GTAW Welding Arc



Plasma Arc Cutting (PAC)

Quality cutting process produces clean, fast and warp-free cuts on all electrically conductive metals.

- Requires special power source and torch plus compressed air (6–7 cfm at 70 psi).
- Used primarily for difficult-to-cut alloy materials such as aluminum and stainless.
- Fast cuts virtually eliminate warping and help prevent paint damage.
- Clean and dry, oil-free air is important.
- Stay at recommended air pressure (more air is not necessarily better!)

Welding Torch

The Gas Tungsten Arc Welding torch holds the tungsten electrode and directs the shielding gas and welding power to the arc. Air-cooled torches are designed for light duty welding up to 150 amps. Water-cooled torches are used for heavy duty welding up to 600 amps. The torches come equipped with a cable assembly which directs the gas, welding current, and coolant (when used) from the power source to the torch.



GTAW Torch

The Gas Tungsten Arc Welding torch can deliver the shielding gas in two basic ways. The standard collet body delivers adequate shielding gas to perform the welding process, and a gas lens provides a smooth and more stable means to shield the weld pool.



Air Carbon Arc Gouging (CAC-A)

In the rental construction industry, gouging usually involves a 400 amp diesel welder powering a 3/8 in carbon to rapidly rough cut structural steel.

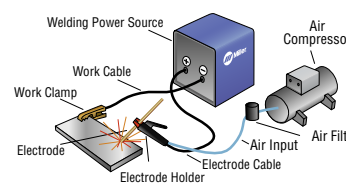
- Requires power source and special electrode holder plus compressed air (to 35 cfm at 90 psi).
- Creates a high-pressure air jet that blows molten metal away.
- Often used for weld joint preparation, rough cutting and removal of unwanted metal.
- Keep as short of a stickout as possible with the electrode in order to obtain the best air flow at the arc.
- Carbon sizes used are determined by the output of the machine.
- Constant-current (CC) or constant-voltage (CV) machines can be used for CAC-A.

Typical CAC-A Gouging Machines

- Up to 3/16 in carbon (Bobcat® 265 & Trailblazer® 330)
- Up to 1/4 in carbon (Big Blue® 400)
- Up to 3/8 in carbon (Big Blue® 500 - 800)

Suggested Carbon Electrode Current Ranges

- 3/16 in carbon (200 - 250 Amps)
- 1/4 in carbon (300 - 400 Amps)
- 5/16 in carbon (350 - 450 Amps)
- 3/8 in carbon (450 - 600 Amps)



Air Carbon-Arc Amperage Guide

Suggested Current Ranges For Commonly Used Electrode Types and Sizes

Electrode Diameter		DC Electrode DCEP		AC Electrode AC		AC Electrode DCEN	
in.	mm.	Minimum Amps	Maximum Amps	Minimum Amps	Maximum Amps	Minimum Amps	Maximum Amps
1/8	3.2	60	90	N/A	N/A	N/A	N/A
5/32	4.0	90	150	N/A	N/A	N/A	N/A
3/16	4.8	200	250	200	250	150	180
1/4	6.4	300	400	300	400	200	250
5/16	7.9	350	450	N/A	N/A	N/A	N/A
3/8	9.5	450	600	350	450	300	400
1/2	12.7	800	1000	N/A	N/A	N/A	N/A
5/8	15.9	1000	1250	N/A	N/A	N/A	N/A
3/4	19.1	1250	1600	N/A	N/A	N/A	N/A
1	25.4	1600	2200	N/A	N/A	N/A	N/A

Input Conductor/Fuse and Weld Cable Sizing



Failure to follow these electrical service guide recommendations could create an electric shock or fire hazard. These recommendations are for an individual branch circuit sized for the rated output and duty cycle of one welding power source, or a group of rack-mounted welding power sources. In individual branch circuit installations, the National Electrical Code (NEC) allows the receptacle or conductor rating to be less than the rating of the circuit protection device. All components of the circuit must be physically compatible. See NEC articles 210.21, 630.11, and 630.12.

NOTICE – Actual input voltage should not be 10% less than minimum and/or 10% more than maximum input voltages listed in table. If actual input voltage is outside this range, output may not be available.

Reference: 2026 National Electrical Code (NEC) (including article 630)
1) If a circuit breaker is used in place of a fuse, choose a circuit breaker with time-current curves comparable to the recommended fuse.
2) "Time-Delay" fuses are UL class "RK5" . See UL 248.
3) "Normal Operating" (general purpose - no intentional delay) fuses are UL class "K5" (up to and including 60 amps), and UL class "H" (65 amps and above). See UL 248.
4) Maximum total length of copper supply conductors in entire installation, raceway and/or flexible cord.
5) Raceway conductor size is determined per NEC Table 310.16 for insulated copper conductors having a temperature rating of 75°C (167°F) with not more than three single current-carrying conductors in the raceway, corrected for an ambient temperature of 40°C per Table 310.15(B)(1)(i).
6) Flexible cord conductor size is determined per NEC Table 400.5(A)(1) for SOOW cable, corrected for an ambient temperature of 40°C per Table 310.15(B)(1)(i). Flexible cord used for connection to the power supply system shall comply with the requirements of UL 62. A flexible cord conductor size is not listed if the Rated Effective Supply Current I_{max} is greater than the conductor ampacity of the largest available SOOW 600V 90°C (194°F) jacketed cable. In these situations, refer to NEC Table 400.5(A)(2) to determine flexible cable conductor size.

Electrical Service Guide For CST™ 282 4-Pack Racks	60 Hz 3-Phase			
Rated Supply Voltage (V)	208	230	460	575
Rated Maximum Supply Current I _{max} (A) Amperes ¹	82.8	74.8	38.8	34.1
Rated Effective Supply Current I _{eff} (A)	62.1	56.1	29.1	25.6
Maximum Recommended Standard Fuse Rating in Amperes ¹				
Time Delay Fuses ²	100	90	45	40
Normal Operating Fuses ³	110	110	50	50
Maximum Recommended Supply Conductor Length in Feet (Meters) ⁴	93 (28)	114 (35)	185 (57)	264 (80)
Raceway Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁵	6 (16)	6 (16)	6 (16)	6 (16)
Minimum Grounding Conductor Size in AWG (mm ²) ⁵	6 (16)	6 (16)	6 (16)	6 (16)
Flexible Cord Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁶	2 (35)	4 (25)	8 (10)	8 (10)

Electrical Service Guide For CST™ 282 8-Pack Racks	60 Hz 3-Phase			
Rated Supply Voltage (V)	208	230	460	575
Rated Maximum Supply Current I _{max} (A) Amperes ¹	138.8	125.3	65.1	57.1
Rated Effective Supply Current I _{eff} (A)	104.1	94.0	48.8	42.8
Maximum Recommended Standard Fuse Rating in Amperes ¹				
Time Delay Fuses ²	150	150	80	70
Normal Operating Fuses ³	200	175	90	80
Maximum Recommended Supply Conductor Length in Feet (Meters) ⁴	127 (39)	127 (39)	168 (51)	239 (73)
Raceway Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁵	2 (25)	3 (35)	8 (10)	8 (10)
Minimum Grounding Conductor Size in AWG (mm ²) ⁵	6 (16)	6 (16)	8 (10)	8 (10)
Flexible Cord Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁶	- - - -	- - - -	4 (25)	6 (16)

Electrical Service Guide For XMT® 400 4-Pack Racks	60 Hz 3-Phase			
Rated Supply Voltage (V)	208	230	460	575
Rated Maximum Supply Current I _{max} (A) Amperes ¹	185.1	166.6	85.2	71.6
Rated Effective Supply Current I _{eff} (A)	138.8	125.0	63.9	54.7
Maximum Recommended Standard Fuse Rating in Amperes ¹				
Time Delay Fuses ²	225	200	100	80
Normal Operating Fuses ³	250	225	125	100
Maximum Recommended Supply Conductor Length in Feet (Meters) ⁴	147 (55)	142 (43)	199 (61)	297 (90)
Raceway Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁵	1/0 (55)	1 (50)	6 (16)	6 (16)
Minimum Grounding Conductor Size in AWG (mm ²) ⁵	4 (25)	4 (25)	6 (16)	8 (10)
Flexible Cord Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁶	- - - -	- - - -	4 (25)	42 (25)

Electrical Service Guide For XMT® 400 6-Pack Racks	60 Hz 3-Phase			
Rated Supply Voltage (V)	208	230	460	575
Rated Maximum Supply Current I _{lmax} (A) Amperes ¹	247.6	222.9	114.0	97.5
Rated Effective Supply Current I _{leff} (A)	185.7	167.2	85.5	73.2
Maximum Recommended Standard Fuse Rating in Amperes ¹				
Time Delay Fuses ²	300	250	125	110
Normal Operating Fuses ³	350	300	150	125
Maximum Recommended Supply Conductor Length in Feet (Meters) ⁴	155 (47)	157 (48)	279 (85)	335 (102)
Raceway Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁵	3/0 (95)	2/0 (70)	3 (27)	4 (25)
Minimum Grounding Conductor Size in AWG (mm ²) ⁵	3 (27)	4 (25)	6 (16)	6 (16)
Flexible Cord Installation				
Minimum Supply Conductor Size in AWG (mm ²) ⁶	- - - -	- - - -	- - - -	2 (35)

Electrical Service Guide For XMT® 450/600 4-Pack Racks	60 Hz 3-Phase	
Rated Supply Voltage (V)	460	575
Rated Maximum Supply Current I _{lmax} (A) Amperes ¹	137.7	116.9
Rated Effective Supply Current I _{leff} (A)	103.3	87.7
Maximum Recommended Standard Fuse Rating in Amperes ¹		
Time Delay Fuses ²	150	125
Normal Operating Fuses ³	200	175
Maximum Recommended Supply Conductor Length in Feet (Meters) ⁴	282 (86)	340 (104)
Raceway Installation		
Minimum Supply Conductor Size in AWG (mm ²) ⁵	2 (35)	2 (35)
Minimum Grounding Conductor Size in AWG (mm ²) ⁵	6 (16)	6 (16)
Flexible Cord Installation		
Minimum Supply Conductor Size in AWG (mm ²) ⁶	- - - -	- - - -

Electrical Service Guide For XMT® 650 4-Pack Racks	60 Hz 3-Phase	
Rated Supply Voltage (V)	460	575
Rated Maximum Supply Current I _{lmax} (A) Amperes ¹	203.5	168.5
Rated Effective Supply Current I _{leff} (A)	152.7	126.4
Maximum Recommended Standard Fuse Rating in Amperes ¹		
Time Delay Fuses ²	250	200
Normal Operating Fuses ³	300	250
Maximum Recommended Supply Conductor Length in Feet (Meters) ⁴	304 (105)	350 (107)
Raceway Installation		
Minimum Supply Conductor Size in AWG (mm ²) ⁵	2/0	1
Minimum Grounding Conductor Size in AWG (mm ²) ⁵	4	4
Flexible Cord Installation		
Minimum Supply Conductor Size in AWG (mm ²) ⁶	- - - -	- - - -

NOTICE – The Total Cable Length in Weld Circuit (see table below) is the combined length of both weld cables. For example, if the power source is 100 ft (30 m) from the workpiece, the total cable length in the weld circuit is 200 ft (2 cables x 100 ft). Use the 200 ft (60 m) column to determine cable size.

Selecting Cable Sizes*

Weld Cable Size** and Total Cable (Copper) Length in Weld Circuit Not Exceeding***								
100 ft (30 m) or Less			150 ft (45 m)	200 ft (60 m)	250 ft (70 m)	300 ft (90 m)	350 ft (105 m)	400 ft (120 m)
Welding Amperes	10 - 60% Duty Cycle AWG (mm ²)	60 - 100% Duty Cycle AWG (mm ²)	10 - 100% Duty Cycle AWG (mm ²)					
100	4 (20)	4 (20)	4 (20)	3 (30)	2 (35)	1 (50)	1/0 (60)	1/0 (60)
150	3 (30)	3 (30)	2 (35)	1 (50)	1/0 (60)	2/0 (70)	3/0 (95)	3/0 (95)
200	3 (30)	2 (35)	1 (50)	1/0 (60)	2/0 (70)	3/0 (95)	4/0 (120)	4/0 (120)
250	2 (35)	1 (50)	1/0 (60)	2/0 (70)	3/0 (95)	4/0 (120)	2x2/0 (2x70)	2x2/0 (2x70)
300	1 (50)	1/0 (60)	2/0 (70)	3/0 (95)	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x3/0 (2x95)
350	1/0 (60)	2/0 (70)	3/0 (95)	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x3/0 (2x95)	2x4/0 (2x120)
400	1/0 (60)	2/0 (70)	3/0 (95)	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	2x4/0 (2x120)
500	2/0 (70)	3/0 (95)	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)	3x3/0 (3x95)
600	3/0 (95)	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)	3x4/0 (3x120)	3x4/0 (3x120)
700	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)	3x4/0 (3x120)	3x4/0 (3x120)	4x4/0 (4x120)
800	4/0 (120)	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	3x4/0 (3x120)	3x4/0 (3x120)	4x4/0 (4x120)	4x4/0 (4x120)
900	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)	Select weld cables that meet all applicable local and national regulations *This chart is a general guideline and may not suit all applications. If cable overheats, use next size larger cable. **Weld cable size (AWG) is based on either a drop of 4 volts or less or at least 300 circular mils per ampere. () = mm ² for metric use *** For distances longer than those shown in this guide, call a factory applications rep. at 920-735-4505 (Miller) or 1-800-332-3281 (Hobart).			
1000	2x2/0 (2x70)	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)				
1250	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)	4x3/0 (4x95)				
1250	2x3/0 (2x95)	2x4/0 (2x120)	3x3/0 (3x95)	4x3/0 (4x95)				
1500	600 (300)	750 (400)	1000 (500)	2x750 (2x400)				
1750	750 (400)	1000 (500)	2x750 (2x400)	2x1000 (2x500)				
2000	800 (400)	1000 (500)	2x750 (2x400)	2x1000 (2x500)				

Auto-Line™ Technology

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

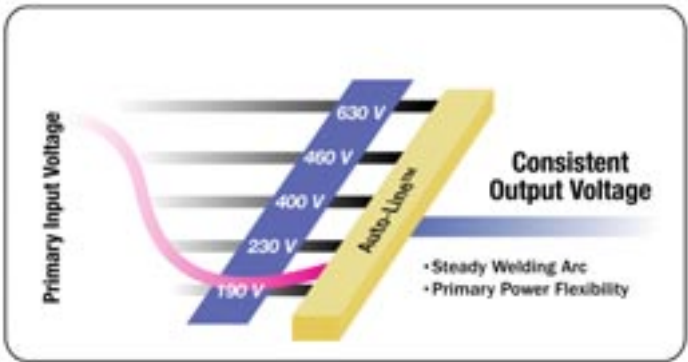
MIG
Millermatic® 255

Multiprocess
Multimatic® 255
Maxstar®
Dynasty®
XMT® 400

Stick
Maxstar®

TIG
Maxstar®
Syncrowave® 212
Dynasty®

Plasma cutters
Spectrum®



The Auto-Line™ circuit boosts primary power to a higher, constant voltage. Even if incoming voltage varies widely, the Auto-Line™ circuit ensures a rock-steady welding or cutting arc.



DON'T WALK WELD™

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

How It Helps: ArcReach® technology saves welders multiple walks back and forth to the power source. That saves time, boosts productivity, and improves safety and weld quality.

Competitive Advantages		
DOES for the customer	IS	MEANS
Eliminates time wasted walking to change processes.	Auto-Process Select™	Automatically sets process based on accessory. Returns to original process when the accessory is disconnected.
Eliminates inadvertent parameter changes that can lead to defects or rework.	Front-panel lock-out	Locks out power source controls when feeder or remote is connected.
Welder doesn't have to waste time on settling for inaccurate voltage at the feeder or remote.	Cable Length Compensation (CLC™)*	Automatically adjusts voltage based on cable length.
Allows parameter changes to be made while welding for fine-tuned puddle adjustment.	Adjust While Welding (AWW™)*	Welders can make adjustments at the feeder or remote.

*Not available on engine drive machines

ArcReach® accessories

ARCREACH® WIRE FEEDERS

ArcReach® SuitCase® Feeders

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

ArcReach® Smart Feeder

For XMT® 400 and ArcReach® engine drives. For RMD® and pulsed MIG welding up to 200 feet from the power source. Helps reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

ARCREACH® STICK/TIG REMOTES

ArcReach® Stick/TIG Remote 301325

For all ArcReach® power sources. Features remote amperage control, arc control for stick and Auto-Process Select™.

The Welding Intel You Need to Succeed

DIY



PRO



The Bevel



Instructor



Welding Safety



DIY – Project ideas, hot-to videos, tips and more for the small shop.

PRO – Industry news, technical information and application videos for welding professionals.

The Bevel – Success stories, resources and events for pipe, construction and fabrication professionals.

Instructor – Classroom resources, safety tips and school spotlights for welding instructors.

alumaNATION



Work Truck Today

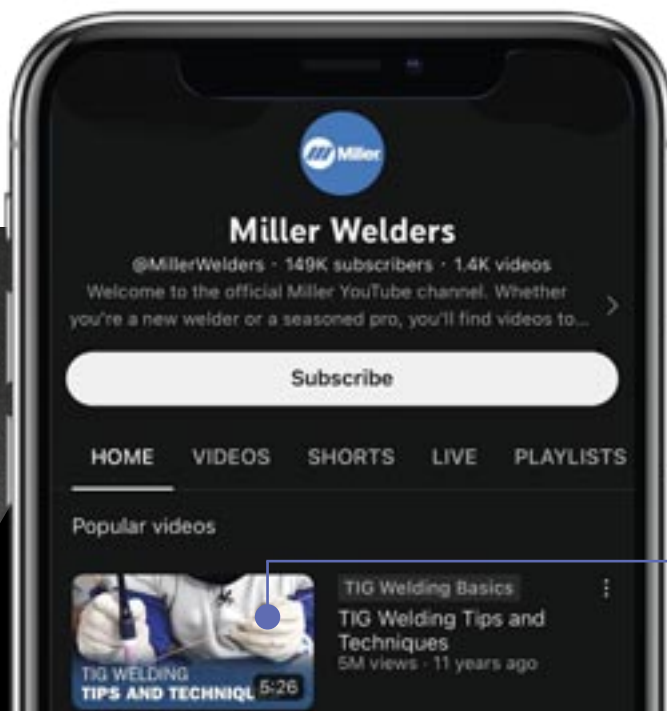


Welding Safety – Regulatory updates, industry news and solutions for occupational health and safety professionals.

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

Work Truck Today – Resources, best practices and industry trends for work truck fleet operators.

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Videos – Help improve your skills and inspire your next project.



ArcReach® Heater

Air-Cooled Induction System

Field preheat and bakeout applications up to 600 degrees Fahrenheit (315°C)

Induction Heating



ArcReach® Heater systems are lightweight and portable for field preheating and hydrogen bake-out applications, enhancing efficiency and economic advantages. The induction heating tools (air-cooled cables or air-cooled quick wraps) connect to the ArcReach® Heater, which is powered by select on-site welding power sources. With ArcReach Heater systems you can:

- Eliminate the costly overruns common with heating contractors
- Eliminate delays due to transitions between heating and welding crews
- Run your own schedule without depending on third-party contractors
- Use existing on-site welding equipment up to 200 feet away as the heating power source
- Automatically and accurately document joint temperatures
- Eliminate safety concerns caused by traditional resistance and open-flame heating

Easy setup with flexibility to fit a variety of pipe diameters, plates or odd geometries.

Time-to-temperature is faster than conventional processes due to the method of applying heat, reducing cycle time.

Uniform heating is maintained along and through the heat zone by using induction heat within the material.

Improved working environment during welding. Welders are not exposed to open flames, explosive gases and hot elements.

ArcReach® Heater is equipped with built-in temperature control allowing for either manual or computer-loaded programming using up to six thermocouples. It can run either one or two heating tools (air-cooled cable or air-cooled quick wrap) at the same time. Requires ArcReach® Heater extension cable to operate.

Industrial process

- Induction Heating

Industries

- Refineries
- Oil and gas
- Petrochemical
- Power Plants
- Shipyards
- Structural

Suggested power sources

- XMT® 400 ArcReach® (pg 14)
- XMT® 650 ArcReach® (pg 14)
- Trailblazer® 330 Series (pg 37)
- Trailblazer® 330 Air Pak™ (pg 36)
- Big Blue® Series (ArcReach® models only) (pg 39-41)

Maximum Preheat and Hydrogen Bake-Out Temperature

- 600°F (315°C)

Suggested power sources

- ArcReach® Heater Extension Cable 301451 10 ft. (3 m)
- Air-Cooled Quick Wrap 301452
- Air-Cooled Cable 301453030 30 ft. (9.1 m)
301453050 50 ft. (15.2 m)
301453080 80 ft. (24.4 m)
- Cable Cover 204611 30 ft. (9.1 m)
204614 50 ft. (15.2 m)
204620 80 ft. (24.4 m)



Preheat Insulation

- 204669 1/2 x 6 x 120 in. (1.3 x 15 x 305 cm)
- 195376 1/2 x 6 x 240 in. (1.3 x 15 x 305 cm)
- 211474 1/2 x 12 x 120 in. (1.3 x 31 x 305 cm)



Preheat Insulation w/ Cable Harness

- 301334 1/2 x 16 x 120 in. (1.3 x 41 x 305 cm)
- Series Cable Adapter 195437
- High-Temperature Rope 194965
- Temperature Measurement (two options available) Contact Thermocouple Sensor (Probe) 301517 OR welded-on thermocouples which require 500 ft. (152 m) Thermocouple Wire 194999, Thermocouple Connectors (10 pack) 195098, and Thermocouple Attachment Unit 194959

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

ArcReach® Accessories

Maximize fleet compatibility and get the benefits of ArcReach® when you pair XMT® ArcReach® power sources and ArcReach® feeders with other ArcReach® compatible products.



Top row left to right: ArcReach® SuitCase 12 feeder, ArcReach® SuitCase 12 Heavy Duty feeder, ArcReach® Smart Feeder and ArcReach® 16 with field roller.

Bottom row left to right: ArcReach® Stick/TIG Remote and ArcReach® Heater.

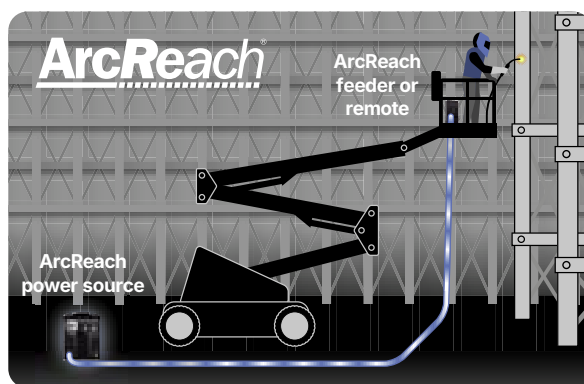
Stock NO.	INPUT POWER	OUTPUT CURRENT	OUTPUT VOLTAGE	SOURCE CURRENT	OUTPUT FREQUENCY	HEATER DIMENSIONS IN. (MM)	HEATER NET WEIGHT LB. (KG)
301390 Heater only – requires ArcReach® Heater extension cable to operate	Operates on open-circuit voltage: 50–70 V provided by an XMT® 400 ArcReach®, XMT® 650 ArcReach® or a compatible ArcReach®-equipped engine drive	200 A	300 V	33 A	7.8 KW at 100% duty cycle	H: 18.6 (472) W: 11.2 (285) D: 26.7 (678)	43 (20)
951848 Heater with extension cable							
951849 Heater with extension cable and two air-cooled quick wraps							

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



ArcReach®

With an ArcReach® SuitCase® feeder and ArcReach® power source you can change output voltage at the feeder, and save a trip to the power supply. No extra control cord to purchase, maintain, string or unstring — saving time and money. See page 11–15 and 37–41 for ArcReach® power sources and engine drives.



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

Voltage-sensing feeders designed to run on arc voltage. The ArcReach® SuitCase® 8 and 12 operate on the arc voltage of almost any power source. The ArcReach® Smart Feeder requires an XMT® 400 ArcReach® (page 14) or XMT® 650 ArcReach® (page 14) connected to three-phase power or a compatible ArcReach®-equipped engine drive (pages 13–15).

Weld with large diameter wire. The ArcReach® SuitCase® 12 Heavy Duty model is specifically designed for applications using 3/32-inch cored wire.

Additional features of ArcReach® Smart Feeder

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



RMD carbon steel



Pulsed MIG stainless



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

Heavy industrial processes

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

Suggested power sources

Note: ArcReach® SuitCase® 8 and 12 feeders are compatible with standard power sources and engine-driven welders, but function as standard equipment without remote control capabilities. Full functionality of ArcReach® is only available with ArcReach® power sources.

- For compatible power sources see Wire Feeder/Power Source Compatibility chart

Suggested guns

- Bernard® Guns (pg 25–27)

Most popular accessories

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

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

SuitCase® 12RC (Non-ArcReach® Feeder)

Standard remote voltage control with a control cord. For applications where the feeder is within 100 feet of the power source and control cords are acceptable.

*Additional packages are available — visit MillerWelds.com or your distributor. **SuitCase 12RC is a non-ArcReach feeder.

MODEL	STOCK NO.*	INPUT POWER	INPUT WELDING CIRCUIT RATING	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	MAX. SPOOL SIZE CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB (KG)
ArcReach® SuitCase® 8	951726001 w/Bernard® BTB 300A	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.) dependent on arc voltage	Solid wire: .023–.052 in. (0.6–1.4 mm)	8 in. (203 mm) 14 lb. (6.4 kg)	H: 12.75 (324) W: 7.25 (184) D: 18 (457)	28 (13)
	951728001 w/Bernard® IronPro 350 301457 Feeder only				Flux-cored: .030–5/64 in. (0.8–2.0 mm)			
ArcReach® SuitCase® 12	951729001 w/Bernard® BTB 300A	Operates on open-circuit voltage and arc voltage: 14–48 VDC/ 110 max. OCV	425 A at 60% duty cycle	50–780 ipm (1.3–19.8 m/min.) dependent on arc voltage	Solid wire: .023–.052 in. (0.6–1.4 mm)	12 in. (305 mm) 45 lb. (20 kg)	H: 15.5 (394) W: 9 (229) D: 21 (533)	35 (15.9)
	951730 w/Bernard® S-Gun 951731001 w/Bernard® IronPro 350 951732 w/Bernard® PipeWorx 301456 Feeder only				Flux-cored: .030–5/64 in. (0.8–2.0 mm)			
ArcReach® SuitCase® 12 Heavy Duty	951000096 w/Bernard® IronPro 160104 Feeder only	Operates on open-circuit voltage and arc voltage: 14–48 VDC/ 110 max. OCV	450 A at 60% duty cycle	30–400 ipm (0.8–10.2 m/min.) dependent on arc voltage	Flux-cored: .030–3/32 in. (0.8–2.4 mm) .035–.045 in. (0.9–1.1 mm)	12 in. (305 mm) 45 lb. (20 kg)	H: 15.5 (394) W: 9 (229) D: 21 (533)	35 (15.9)
ArcReach® Smart Feeder	951733 w/Bernard® PipeWorx 300935 Feeder only	XMT® 400 ArcReach® connected to three-phase power or a compatible ArcReach®-equipped engine drive: 24 VAC, 10 A, 50/60 Hz	275 A at 60% duty cycle	50–500 ipm (1.3–12.7 m/min.) dependent on arc voltage	Solid wire: .023–.052 in. (0.6–1.4 mm) Flux-cored: .030–5/64 in. (0.8–2.0 mm)	12 in. (305 mm) 33 lb. (15 kg)	H: 18 (457) W: 13 (330) D: 21.5 (546)	50 (23)
SuitCase® 12RC**	951580001 w/Bernard® BTB Gun 301121 Feeder only	Operates on open-circuit voltage and arc voltage: 14–48 VDC/ 110 max. OCV	425 A at 60% duty cycle	50–700 ipm (1.3–17.8 m/min.) dependent on arc voltage	Solid wire: .023–.052 in. (0.6–1.4 mm) Flux-cored: .030–5/64 in. (0.8–2.0 mm)	12 in. (305 mm) 45 lb. (20 kg)	H: 15.5 (394) W: 9 (229) D: 21 (533)	31 (14.1)



SuitCase® Series Portable Feeders

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

Wire Feeders



ArcReach®
SuitCase® 8

ArcReach®
SuitCase® 12

PORTABLE!

ArcReach®
Smart Feeder

SuitCase® 12RC



Feeders include a male Tweco® connector installed on the weld cable and are available with drive rolls and a Bernard® gun (see chart on page 10).

Bernard® BTB Gun 300 A shown.

SuitCase Series Features

FEATURE	ARC REACH				12RC
	8	12	12HD	SMART	
Available with Bernard® gun:					
BTB Gun 300 A	+	+			+
S-Gun™	+	+			
IronPro™	+	+	+		
PipeWorx 300-15		+		+	
Remote voltage control (control cord required)					+
Remote voltage control (without a cord)	+	+	+	+	
Digital meters	+	+	+	+	+
Impact-resistant case	+	+	+	+	+
Gas purge	+	+	+	+	+
Wire jog	+	+	+	+	+
Feeds 3/32 in. wire			+		

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

Key features

AccuLock™ ArcReach® Suitcase® and SuitCase® 12RC wire feeders with a Bernard® BTB or IronPro™ gun include AccuLock™ consumables (see chart on page 11).

ArcReach® SuitCase® models are available in two sizes. SuitCase® 8 model is sized for an 8-inch spool of wire, can be carried to remote welding sites, and fits through a 14-inch manhole/manway. SuitCase® 12 model is sized for an 8- or 12-inch spool of wire. 12-inch spools are the most common in structural steel and fabrication.

Heavy-duty drive motor with tachometer control provides wire feed speed that is accurate and consistent, which is very important with large-diameter cored wire, because small changes in wire feed speed make large changes in deposition rates.

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

Digital meters with SunVision™ technology

can display voltage, wire feed speed and amperage. Meters can be seen clearly, even in direct sunlight.



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

Built-in slide rails for positioning and durability.

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

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

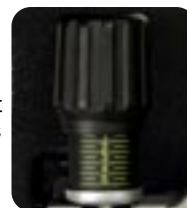
Ultra-low-drag inlet guide pins (except ArcReach® Smart Feeder) make

loading the wire easy and do not deform the wire on the way into the drive rolls, improving wire feeding performance.



Scaled wire pressure

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



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



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



XMT® Series ArcReach® Models (Outdoor Application Focused)



Multiprocess



» XMT® 400 ArcReach®



» XMT® 450/600 CC/CV ArcReach®



» XMT® 650 ArcReach®

ArcReach® Welding systems with ArcReach® technology let operators adjust welding parameters right at the weld joint without a control cord using the wire feeder or remote — maximizing arc-on time, improving safety and impacting the bottom line. See page 10 for ArcReach® feeders and page 55 for the Stick/TIG Remote. Learn more about ArcReach® technology at MillerWelds.com/arcreach

Key features



XMT® 400 models allow for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting.

Standard hookup on XMT® 450/600 and 650 models. XMT® 450/600 is 230/460 V manual link or three-phase only. XMT® 650 is 380/460 V manual link or 575 V, three-phase only.

Reduced size and weight results in an easier-to-handle package that exceeds the welding performance of larger, heavier machines.

High electrical efficiency and excellent power factor mean getting more welding done while using less power.

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

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

Protection input inductor protects machine's performance and reliability from "dirty" input power.

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

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

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

Eliminate control cord maintenance and replacement expenses because weld cables are used to communicate weld parameters between the feeder and power source.

ArcReach® technology decreases the chances of slip, trip or fall injuries by allowing weld operators to make parameter changes at the wire feeder or remote instead of having to travel back to the power source.

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

Regulated Metal Deposition (RMD®) and pulsed MIG (XMT® 400 ArcReach® and 650 ArcReach® models with ArcReach® Smart Feeder) are fully supported, enabling operators to use these advanced processes in the field for faster, more-efficient welds.

Cable Length Compensation (CLC™) (XMT® 400 ArcReach® and 650 ArcReach® models) ensures that the voltage a weld operator sets is the voltage they get by automatically adjusting voltage based on weld cable length, even hundreds of feet away from the power source.

Adjust While Welding (AWW™) (XMT® 400 ArcReach® and 650 ArcReach® models) allows weld operators to change weld parameters while the arc is on.

Note: XMT® 450/600 CC/CV ArcReach® arc voltage can be set at the feeder and actual arc voltage and current delivered to the weld can be monitored using the digital meters on the feeder.

¹ Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc.

² Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

³ Rated load output is at 50 Hz.

⁴ When Voltage Reduction Device is active.

	MODEL/STOCK NO. MOST POPULAR MODELS ◀	INPUT POWER	AMPERAGE/ VOLTAGE RANGES	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 60 HZ								MAX. OPEN- CIRCUIT VOLTAGE	POWER SOURCE DIMENSIONS IN. (MM)	POWER SOURCE NET WEIGHT LB. (KG)
					208 V	230 V	380 V	480 V	460 V	575 V	KVA	KW			
400 A	XMT® 400 ArcReach® (Tweco® except as noted) 907865 ◀ Power source only 907865004 Power source only (Dinse) 951000114 Stick/TIG system 951000113 ◀ MIG/flux-cored system 951000112 RMD/pulse system	3-phase	5–425 A 10–38 V	400 A at 36 VDC, 60% duty cycle	47.4	42.4	—	24.4	21.4	18.0	17.1	16.0	91 VDC 25/12 VDC ⁴	H: 17.25 (438) W: 12.75 (324) D: 20.25 (514)	75 (34)
		1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle ²	59.9	52.1	—	27.1	23.5	19.9	11.5	10.8			
450 A	XMT® 450/600 CC/CV ArcReach® (1/2 in. stud) 907481003 ◀ 230/460 V power source only 907481004 230/460 V w/auxiliary power ¹ 907482 575 V power source only	3-phase	15–600 A 10–38 V	450 A at 38 VDC, 100% duty cycle	—	51	—	—	27.6	24.4	22	18.9	90 VDC	H: 17.25 (438) W: 14.5 (368) D: 27.13 (689)	122 (55.3)
650 A	XMT® 650 ArcReach® (1/2 in. stud) 907823 ◀ 380/460 V power source only 907845 575 V power source only 907822 380/460 V w/polarity reversing	3-phase	10–815 A 10–44 V	650 A at 44 VDC, 100% duty cycle	—	—	51.5 ³	—	42.6	—	33.9	31.9	82 VDC	H: 28.19 (716) with lift eye W: 16.69 (424) D: 31.63 (803)	159 (72.1)
			SAW mode: 10–65 V (non-polarity reversing model only)	750 A at 44 VDC, 60% duty cycle	—	—	59.9 ³	—	49.1	—	39.5	37.0			
				815 A at 44 VDC, 25% duty cycle	—	—	65.3 ³	—	53.6	—	43.0	40.2			



XMT® ArcReach® Racks

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

Multiprocess



See page 9 for the uses and advantages of ArcReach®.

Note: For additional rack systems see CST™ 282 Racks on page 45.

Key features

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

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

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

Common output ground connection (for same polarity use only)

Lift eyes simplify crane or overhead lifting device transport

Lift truck fork pockets

XMT® 400 4-pack racks include 5-inch diameter casters that can be bolted to the rack base. Two swivel casters and two non-swivel casters



Heavy industrial processes

- MIG (GMAW)
- Flux-cored (FCAW)
- Stick (SMAW)
- TIG* (GTAW)
- RMD®**
- Pulsed MIG (GMAW-P)**
- Submerged arc (SAW)***
- Air carbon arc cutting and gouging (CAC-A) (carbons — 400: 5/16 in., 450: 5/16 in., 650: 3/8 in.)

*All except XMT® 650 with Polarity Reversing.

**XMT® 400 models only with ArcReach® Smart Feeder.

***XMT® 650 except Polarity Reversing model.

Comes with

- Cables to connect power sources to common work connection
- 5-inch casters (XMT® 400 4-pack racks only)

Most popular accessories

- Wire Feeders: See Wire Feeder/Power Source Compatibility chart
- ArcReach® Stick/TIG Remote 301325 (pg 55)
- ArcReach® Heater (pg 11) (for all models except XMT® 450/600)

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

» XMT® 400 ArcReach® Rack

6-Pack Rack shown.



» XMT® 650 ArcReach® Rack

4-Pack Rack shown.

MODEL	STOCK NO.	INPUT POWER TO RACK	DIMENSIONS H x W x D (INCLUDES LIFT EYE) IN. (MM)	NET WEIGHT LB. (KG)
XMT® 400 ArcReach® Rack	907882 4-Pack Rack (Tweco®)	230–575 V, 3-phase (fused for 460/575 V)	59 x 34 x 32 (1,498 x 863 x 812)	560 (254)
	907883 6-Pack Rack (Tweco®)		59.375 x 43 x 34.375 (1,508 x 1,092 x 873)	770 (349)
XMT® 450/600 CC/CV ArcReach® Rack	907700 4-Pack Rack (stud)	230/460 V, 3-phase (fused for 460 V)	59.375 x 43 x 34.375 (1,508 x 1,092 x 873)	780 (354)
XMT® 650 ArcReach® Rack	907860 4-Pack Rack (stud)	380/460 V, 3-phase (fused for 460 V)	76 x 43 x 34.375 (1,930 x 1,092 x 873)	950 (431)
XMT® 650 ArcReach® w/ Polarity Reversing Rack	907852 4-Pack Rack (stud)			

Choose the Right XMT® Power Source

	400 AMP		450 AMP			650 AMP	
	XMT® 400 (Page 14)	XMT® 400 ArcReach® (Page 14)	XMT® 450/600 CC/CV (Page 14)	XMT® 450/600 MPa	XMT® 450/600 CC/CV ArcReach® (Page 14)	XMT® 650 (Page 14)	XMT® 650 ArcReach® (Page 14)
INPUT POWER	3- or 1-phase		3-phase			3-phase	
PRIMARY OPERATING RANGE	Auto-Line™ (208–575 V)		Manual link (230/460 V) or 575 V			Manual Link (380/460 V) or 575 V	
WELD OUTPUT (3-PHASE INPUT POWER)	400 A at 36 VDC, 60% duty cycle		450 A at 38 VDC, 100% duty cycle			650 A at 44 VDC, 100% duty cycle	
CARBON ARC GOUGING (RATED)	5/16 in. (7.9 mm)		5/16 in. (7.9 mm)			3/8 in. (9.5 mm)	
NET WEIGHT	75 lb. (34.0 kg)		122 lb. (55.3 kg)			159 lb. (72.1 kg)	
OUTPUT CONNECTOR	Universal		1/2 in. stud			1/2 in. stud	
PULSED MIG	Yes (see literature sheets for details)		—	Yes	—	—	Yes (w/ ArcReach Smart Feeder)
14-PIN COMPLIANT	Yes		Yes			Yes	
ArcReach®	—	Yes	—	—	Yes	—	Yes

Multimatic® 215 PRO



Multiprocess



Light industrial processes

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

Comes complete with

- 15 ft. (4.6 m) 100-amp MDX™-100 MIG gun with MDX™ consumables
- 15 ft. (4.6 m) cable with electrode holder and 25 mm Dinse-style connector
- 15 ft. (4.6 m) work cable with clamp and 25 mm Dinse-style connector
- 6.5 ft. (2 m) power cord with MVP plugs for 120 V and 240 V
- Quick Select™ drive roll for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra contact tips, hook-and-loop cord wraps and material thickness gauge (229895)

Most popular accessories

- Spoolmate™ Spool Guns (pg 21)
300371 Spoolmate 100
301272 Spoolmate 150



- Running Gear/Cylinder Rack 301239
- Protective Cover 301737
- TIG Contractor Kit (pg 55)
301917 With wireless foot control
301916 With wired foot control

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

NEW!



See page 55



Welding Capability

MAX. 3/8 in. (9.5 mm)

MIG
Mild Steel

MIG
Aluminum

MIN.

MIN.

24 ga. (0.6 mm)

18 ga. (1.2 mm)

MAX.

MAX.

3/8 in. (9.5 mm)

3/16 in. (4.8 mm)

Stick
Mild Steel

TIG Mild Steel

MIN.

MIN.

16 ga. (1.5 mm)

24 ga. (0.6 mm)

Aluminum welding uses optional Spoolmate 100 and 4043 series aluminum wire **OR** Spoolmate 150 and either 4000 or 5000 series aluminum wire. TIG welding uses optional TIG contractor kit.

Key features



Auto-Set™ fast and easy predefined settings for multiple materials and processes to help you get welding quickly.

- Select the weld process and gas being used
- Select the wire diameter (.024, .030 or .035 in.)
- Select the material thickness you're welding
- Start welding with the exact parameters you need!

BeadVision™ provides graphic feedback as parameters are adjusted. Users will be able to see how setting changes affect penetration and bead profile.

USB-enabled software allows expandable machine capabilities without requiring mechanical modifications. This ensures the investment continues to produce over time, even as needs evolve.

15-foot MIG gun and Dinse connections. Weld longer with fewer interruptions with a higher duty cycle, 15-foot MIG gun and Dinse connections.

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

Dyna-Pulse™ Dynamic pulse delivers higher quality MIG welds with exceptional arc control and versatility.

- Fewer machine adjustments when transitioning between positions, joints, and wire types.
- Lower heat input for less distortion on thin materials and better puddle control on out-of-position welds.
- Minimized spatter reduces post-weld grinding and rework.
- Ideal for MIG welding applications where control and appearance matter most.

Program Mode allows easy save and recall of favorite weld settings.

- Delivers greater productivity by eliminating the need to manually set or change parameters.
- Delivers consistent quality by welders of all skill levels by using prequalified weld settings.

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

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

*Not recommended for 6010 electrodes.

STOCK NO.	WELDING MODE/ PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ	WIRE FEED SPEED	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
907840 951000074 With running gear/cylinder rack 951000213 With TIG Contractor kit (301917)	CV: MIG/ flux-cored	120 V	30–140 A	110 A at 19.5 VDC, 60% duty cycle	21.7 — 2.6	60–600 ipm (1.5–15.2 m/min.)	57	H: 14.63 (372) W: 9.75 (248) D: 20 (508)	35 (15.9)
		240 V	30–230 A	160 A at 22 VDC, 60% duty cycle	— 17 4.1				
				215 A at 24.8 VDC, 30% duty cycle	— 25.7 6.2				
	CC: Stick*	120 V	30–100 A	95 A at 23.8 VDC, 40% duty cycle	22.5 — 2.7				
		240 V	30–200 A	190 A at 27.6 VDC, 20% duty cycle	— 25 6				
	CC: TIG	120 V	20–150 A	140 A at 15.6 VDC, 40% duty cycle	22.7 — 2.8				
		240 V	20–210 A	190 A at 17.6 VDC, 20% duty cycle	— 16.6 4				



Multimatic® 220 AC/DC

Multiprocess



See page 55

Multimatic® 220 AC/DC with wireless foot control shown.

Key features



3.5-inch LCD display with easy-to-understand interface ensures proper machine setup and parameter selection.

Welding Capability

MAX. 3/8 in. (9.5 mm)	
MIG Mild Steel	MIG Aluminum
MIN. 24 ga. (0.6 mm)	MIN. 18 ga. (1.2 mm)

MAX. 3/8 in. (9.5 mm)
Stick Mild Steel
MIN. 16 ga. (1.5 mm)

MAX. 1/4 in. (6.4 mm)	
TIG Mild Steel	TIG Aluminum
MIN. 24 ga. (0.6 mm)	

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

All in one. Comes equipped with all accessories to MIG, stick, AC and DC TIG weld with one machine.

Multi-voltage plug (MVP™)

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



Innovative QuickTech™ for easy setup and process changing.

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

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

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

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

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

Two shielding gas connections (one for MIG gas and one for TIG gas) so both gases can be left connected to the machine.

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



Light industrial processes

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

Comes complete with

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

Most popular accessories

- Spoolmate™ Spool Guns (pg 21)
300371 Spoolmate 100
301272 Spoolmate 150
- 12.5 ft. (3.8 m) Weldcraft™ W-250 TIG torch WP-20-12-R
- Dual Cylinder Rack Cart 951770



- Coolmate™ 1S 301856 (requires 25 mm Flow Thru Dinse for Water Cooler 301883)
- Protective Cover 301524
- Wireless Remote Foot Control 301580 (pg 55)

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

STOCK NO.	WELDING MODE/PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ	WIRE FEED SPEED	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
907757 With RFCS-14 HD foot control 95100070 With RFCS-14 HD foot control and dual cylinder rack cart 907757002 With wireless foot control 951000104 With wireless foot control and dual cylinder rack cart	CV: MIG/flux-cored	120 V	30–125 A	105 A at 19.2 V, 60% duty cycle	23.3 — 2.8 2.8	60–600 ipm (1.5–15.2 m/min.)	45 VDC	H: 17.5 (445) W: 11.25 (286) D: 21.5 (546)	56 (25.3)
		240 V	30–230 A	200 A at 24 V, 20% duty cycle	— 27.2 4.8 4.8				
				170 A at 21.5 V, 40% duty cycle	— 21.5 3.8 3.8				
	CC: Stick	120 V	30–90 A	90 A at 23.6 V, 40% duty cycle	24.5 — 2.9 2.9	—	46 VDC		
		240 V	30–200 A	200 A at 28.4 V, 15% duty cycle	— 31.3 7.5 7.5				
	CC: TIG	120 V	20–140 A	130 A at 15.2 V, 40% duty cycle	24.0 — 2.9 2.9				
		240 V	20–210 A	210 A at 18.4 V, 20% duty cycle	— 22.4 5.4 5.4				

Multimatic® 235



See page 55

Welding Capability

MAX. 3/8 in. (9.5 mm)

MIG
Mild Steel

MIG
Aluminum

MIN.

24 ga. (0.6 mm)

MIN.

18 ga. (1.2 mm)

MAX.

3/8 in. (9.5 mm)

MAX.

1/4 in. (6.4 mm)

Stick
Mild Steel

TIG Mild Steel

MIN.

16 ga. (1.5 mm)

MIN.

24 ga. (0.6 mm)

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

Multimatic® 235 with EZ-Latch single cylinder running gear shown.

Key features



4.3-inch LCD display with easy-to-understand interface ensures proper machine setup and parameter selection.

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

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

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

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

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

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

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

Heavy-duty aluminum two-drive-roll system.

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



Industrial processes

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

Comes complete with

- 15 ft. (4.6 m) 250-amp MDX™-250 MIG gun with MDX™ consumables
- 10 ft. (3 m) cable with electrode holder
- 10 ft. (3 m) work cable with clamp
- 7 ft. (2.1 m) industrial power cord
- Two factory-installed gas solenoids
- .030/.035 in. reversible V-groove drive rolls
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra contact tips and material thickness gauge (229895)

Most popular accessories

- Spoolmate™ Spool Guns (pg 21)
300371 Spoolmate 100
301272 Spoolmate 150
300497 Spoolmate 200
- Spoolmatic® Spool Gun (pg 22) (non-Pro gun only)
- EZ-Latch™ Single Cylinder Running Gear 301449



- EZ-Latch™ Dual Cylinder Running Gear 951769
- Protective Cover 301521
- Multimatic® 235/255 TIG Kit 301518
- 10-Pin to 14-Pin Adapter Cord 301545
- Wireless Remote Foot Control 301580 (pg 55)

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

*Not recommended for 6010 electrodes. **Input voltage range for the Multimatic 235 is 204–276 V.

***See literature DC/14.0 for dimensions and weight with running gear.

STOCK NO.	WELDING MODE/PROCESS	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			WIRE FEED SPEED	MAX. OPEN-CIRCUIT VOLTAGE	POWER SOURCE DIMENSIONS IN. (MM)***	POWER SOURCE NET WEIGHT LB. (KG)***
907780 951846 With EZ-Latch single cylinder running gear 951847 With EZ-Latch dual cylinder running gear and TIG kit	CV: MIG/flux-cored	30–235 A	170 A at 22.5 V, 60% duty cycle	20.0	5.0	4.9	60–600 ipm (1.5–15.2 m/min.)	54 VDC	H: 19.25 (489) W: 13.75 (349) D: 24.25 (616)	63 (29)
	CC: Stick*	30–200 A	150 A at 26 V, 60% duty cycle	20.2	5.0	4.8	—			
	CC: DC TIG	20–210 A	180 A at 17.2 V, 60% duty cycle	17.0	4.2	4.1	—			



Maxstar® 280 Multiprocess DC only

Dynasty® 300 Multiprocess AC/DC

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

Multiprocess



Maxstar® 280 Multiprocess (far left) and Dynasty® 300 Multiprocess (center) shown with ArcReach® SuitCase® 12 (packages available for Dynasty with ArcReach® SuitCase®, see below).

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

Note: Maxstar® and Dynasty® are not capable of ArcReach® control.



See page 55

Key features



Allows for any input voltage hook-up (Maxstar: 208–575 V, Dynasty: 208–600 V) with no manual linking, providing convenience in any job setting.

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

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



DC pulse welding waveshape is changed to create a slower, more fluid transition between the background and peak amperage, resulting in lower audible noise.

Machines manufactured after serial number ND040985L include QuietPulse. Those manufactured before can be updated with QuietPulse™ Expansion Memory Card (301790).

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

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



Dynasty® 300 Multiprocess Complete package shown.



Maxstar is DC only.

Industrial processes

- AC¹/DC TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)
- MIG (GMAW)²
- Flux-cored (FCAW)²
- Air carbon arc (CAC-A)

¹ Dynasty® model only.

² With ArcReach® SuitCase® wire feeder.

Comes with

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

TIGRunner® includes above plus

- Small Runner™ Cart
- Coolmate™ 1.3

Contractor package includes above (except TIGRunner) plus

- ArcReach® SuitCase® 12 with two .045/.062 in. reversible V-knurled drive rolls
- Bernard® BTB Gun 300 A with AccuLock™ consumables
- Contractor kit with A-200 TIG torch and RFCS-14 HD foot control (301549)

Complete package includes TIGRunner above plus

- ArcReach® SuitCase® 12 with two .045/.062 in. reversible V-knurled drive rolls
- Bernard® BTB Gun 300 A with AccuLock™ consumables
- Coolant (4 one-gallon bottles)
- Wireless foot control
- Weldcraft™ W-280 water-cooled torch kit

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

*Refer to owner's manual for complete ratings. **Sense voltage for low OCV stick and Lift-Arc™ TIG.
Note: See page 44 in the TIG section for Maxstar 280 Series and page 42 for Dynasty 300 Series.

MODEL/STOCK NO.	WELDING PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT AT 60% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT, 50/60 HZ								MAX. OPEN-CIRCUIT VOLTAGE	POWER SOURCE DIMENSIONS IN. (MM)	POWER SOURCE NET WEIGHT LB. (KG)
Maxstar® 280 Multiprocess 907552001 Power source only	TIG	3-phase	1–280 A	250 A at 20 V	21	19	11	9	7	—	7.6	7.3	60 VDC (11 VDC**)	H: 13.6 (346) W: 8.6 (219) D: 22.5 (569)	47 (21.3)
		1-phase	1–280 A	250 A at 20 V	35	32	18	16	13	—	7.3	7.1			
	Stick	3-phase	5–280 A	250 A at 30 V	*	*	14	13	10	—	9.9	9.6			
		1-phase	5–280 A	180 A at 27.2 V	32	29	*	*	*	—	6.7	6.5			
		3-phase	5–280 A	250 A at 26.5 V	*	*	13	11	9	—	9.2	8.9			
Dynasty® 300 Multiprocess 907819 Power source only 907819001 TIGRunner 951000099 Contractor w/foot and SuitCase® 12 951000100 Complete w/wireless foot and SuitCase® 12	TIG	3-phase	2–300 A (AC) 1–300 A (DC)	250 A at 20 V	19	17	10	8	—	7	7.5	6.6	60 VDC (11 VDC**)	H: 13.88 (352) W: 8.5 (216) D: 21.88 (555)	55 (25)
		1-phase	2–300 A (AC) 1–300 A (DC)	250 A at 20 V	33	30	17	15	—	11	6.7	6.7			
	Stick	3-phase	5–300 A	250 A at 30 V	*	*	14	12	—	9	9.8	9.1			
		1-phase	5–300 A	200 A at 27.2 V	35	32	*	*	—	*	9.3	9.2			
	MIG/ flux-cored	3-phase	5–300 A	250 A at 26.5 V	*	*	12	11	—	9	8.9	8.1			
		1-phase	5–300 A	200 A at 24 V	31	28	*	*	—	*	6.2	6.1			



MODEL	PAGE	CLASS	MIG	PULSED MIG	FLUX-CORED*	SOLID	WIRE TYPES			WIRE DIAMETER CAPACITY	AVAILABLE CABLE LENGTHS	TYPICAL APPLICATIONS
							FLUX-CORED		ALUM.			
							GAS-SHLD	SELF-SHLD				
STEEL												
MIGmatic™ M-100 MIG Gun	20	●	+		+	+	❖	❖CV*	+	.023-.045 in. (0.6-1.2 mm)	10 ft.	Light industrial steel fabrication
MIGmatic™ M-150 MIG Gun	20	●	+		+	+	❖	❖CV*	+	.023-.045 in. (0.6-1.2 mm)	15 ft.	Light industrial steel fabrication
MDX™-100 MIG Guns	24	●	+		+	+	❖	❖CV*	+	.023-.035 in. (0.6-0.9 mm)	10 or 15 ft.	Light industrial steel fabrication
MDX™-250 MIG Guns	24	■	+		+	+	❖	❖CV*	+	.023-.045 in. (0.6-1.2 mm)	10 or 15 ft.	Industrial steel fabrication
Bernard® BTB MIG Guns	24	▲	+		+	+	❖	❖CV*	+	.023-1/8 in. (0.6-3.2 mm)	10, 15, 20 or 25 ft.	Heavy industrial steel fabrication
Bernard® Clean Air E™ Fume Extraction Guns	26	▲	+		+	+	❖	❖CV*	+	.023-1/8 in. (0.6-3.2 mm)	10, 15, 20 or 25 ft.	Heavy industrial steel fabrication
Bernard® IronPro™ Self-Shielded Flux-Cored Guns	26	▲			+			+CV*		.062-3/32 in. (1.6-2.4 mm)	15 ft.	Heavy industrial steel fabrication
ALUMINUM												
Spoolmate™ 100 Spool Gun	21	●	+			+			+	.023-.035 in. (0.6-0.9 mm)	12 ft.	Light industrial aluminum fabrication
Spoolmate™ 150 Spool Gun	21	●	+			+			+	.030-.035 in. (0.8-0.9 mm)	20 ft.	Light industrial aluminum fabrication
Spoolmate™ 200 Spool Gun	21	●	+			+			+	.023-.035 in. (0.6-0.9 mm)	20 ft.	Light industrial aluminum fabrication
Spoolmate™ 3035 Spool Gun	21	●	+			+			+	.023-.035 in. (0.6-0.9 mm)	20 ft.	Light industrial aluminum fabrication
Spoolmatic® Spool Guns	22	■	+	+	+	+		❖CV*	+	.030-1/16 in. (0.8-1.6 mm)	15 or 30 ft.	Industrial aluminum fabrication
XR-Aluma-Pro™ Lite Push-Pull Gun	23	■	+	+		+			+	.030-.047 in. (0.8-1.2 mm)	25 ft.	Industrial aluminum fabrication
XR-Aluma-Pro™ Push-Pull Guns	23	▲	+	+		+			+	.030-1/16 in. (0.8-1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
XR-Aluma-Pro™ Plus Push-Pull Guns	23	▲	+	+		+			+	.030-1/16 in. (0.8-1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
XR™-Pistol Push-Pull Guns	23	▲	+	+		+			+	.030-1/16 in. (0.8-1.6 mm)	15 or 30 ft.	Heavy industrial aluminum fabrication
XR™-Pistol-Pro Push-Pull Guns	23	▲	+	+		+			+	.030-1/16 in. (0.8-1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
XR™-Pistol Plus Push-Pull Guns	23	▲	+	+		+			+	.030-1/16 in. (0.8-1.6 mm)	15 or 25 ft.	Heavy industrial aluminum fabrication

PRODUCT KEY

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

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

MIGmatic™ M-Series MIG Guns

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



M-100

M-150



Conversion diffuser



Conversion kit

MDX™ Consumables Conversion Kit 1880269

Kit features a conversion diffuser to consolidate MIG nozzles and contact tips to MDX™ standard duty. Includes diffuser (1070115), 1/2-inch flush nozzle (NS-M1200C), five .030-inch contact tips (T-M030), five .035-inch contact tips (T-M035) and a consumables storage box.

Light industrial processes

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

Suggested power sources

- Millermatic® 211 PRO (pg 29)
- Multimatic® 215 PRO (pg 16)
- Multimatic® 220 AC/DC (pg 17)

Most popular accessories

- MIGmatic™ M-Series Consumable Kits
234607 .023 in. (0.6 mm)
234608 .030 in. (0.8 mm)
234609 .035 in. (0.9 mm)
- MDX™ Consumables Conversion Kit 1880269
Allows MIGmatic™ M-100 and M-150 MIG guns to upgrade to MDX™ standard duty nozzles and tips (see pg 24)

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

MODEL	STOCK NO.	CABLE LENGTH	RATED OUTPUT	RATED DUTY CYCLE	WIRE DIAMETER CAPACITY	GUN ONLY NET WEIGHT
M-100	248282	10 ft. (3 m)	100 A	100% with CO ₂ gas, 60% with mixed gas	.023-.045 in. (0.6-1.2 mm)	3.2 lb. (1.5 kg)
M-150	249041	15 ft. (4.6 m)	150 A	100% with CO ₂ gas, 60% with mixed gas	.023-.045 in. (0.6-1.2 mm)	6.0 lb. (2.7 kg)



Spoolmate™ Spool Guns

Reliable and economical spool guns designed for light fabricators feature clear spool covers to allow an easy view of the spool.

MIG Guns Aluminum



Spoolmate™ 100

Includes carrying case, extra contact tips and nozzle. Wire sold separately.



Spoolmate™ 100

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

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

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



Spoolmate™ 150

Spoolmate™ 150

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

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

Heavy-duty head tube.

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



Spoolmate™ 200

Spoolmate™ 200

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

20-foot weld/control cables with strain relief and sheath provide extended reach and accessibility to your work.

Wire feed speed adjustment on gun (not machine) for easy setup.

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

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



Spoolmate™ 3035

Spoolmate™ 3035

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

20-foot weld/control cables with strain relief and sheath provide extended reach and accessibility to your work.

Light weight and well balanced for operator comfort.

Easy-to-remove head tube assembly.



Use with CV, DC power sources.

Light industrial processes

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

Suggested power sources

For Spoolmate 100 and 150

- Millermatic® 142 (pg 28)
- Millermatic® 211 PRO (pg 29)
- Multimatic® 215 PRO (pg 16)
- Multimatic® 220 AC/DC (pg 17)
- Multimatic® 235 (pg 18)
- Syncrowave® 212 (requires adapter 266638)

For Spoolmate 200

- Millermatic® 252 (pg 30)
- Millermatic® 255 (pg 31)
- Millermatic® 355 (pg 32)
- Multimatic® 235 (pg 18)
- Multimatic® 255
- Bobcat™ 265
- Trailblazer® 330 Series (pg 37)
- Bobcat™ 200 Air Pak™ (pg 35)
- Bobcat™ 265 Air Pak™ (pg 36)
- Trailblazer® 330 Air Pak™ (pg 36)

For Spoolmate™ 3035

- Direct connect to vintage Millermatic® 210/212 tapped-voltage models

Most popular accessories

For Spoolmate™ 200

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

For Spoolmate 3035

- Heavy-Duty Head Tube 195375

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

MODEL/STOCK NO.	RATED OUTPUT	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	MAXIMUM SPOOL SIZE CAPACITY	GUN ONLY DIMENSIONS	NET WEIGHT WITH CABLE ASSEMBLY
Spoolmate™ 100 300371	135 A at 30% duty cycle	5–625 ipm (1.7–15.9 m/min.) Wire speed dependent on power source used	Aluminum: .030–.035 in. (0.8–0.9 mm) Solid steel: .023–.035 in. (0.6–0.9 mm) Stainless: .023–.035 in. (0.6–0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 3 in. (76 mm) D: 13 in. (330 mm)	6 lb. (2.7 kg) 9 lb. (4.1 kg) with case
Spoolmate™ 150 301272	150 A at 60% duty cycle	115–715 ipm (2.9–18.1 m/min.) Wire speed dependent on power source used	Aluminum: .030–.035 in. (0.8–0.9 mm) Solid steel: .030–.035 in. (0.8–0.9 mm) Stainless: .030–.035 in. (0.8–0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 3 in. (76 mm) D: 12.5 in. (318 mm)	7.3 lb. (3.2 kg)
Spoolmate™ 200 300497	160 A at 60% duty cycle,	70–875 ipm (1.8–22.2 m/min.)	Aluminum: .030–.035 in. (0.8–0.9 mm) Solid steel: .023–.035 in. (0.6–0.9 mm) Stainless: .023–.035 in. (0.6–0.9 mm)	4 in. (102 mm)	H: 9 in. (229 mm) W: 2.5 in. (64 mm) D: 14.5 in. (368 mm)	11 lb. (5 kg)
Spoolmate™ 3035 195016	150 A at 60% duty cycle, 200 A at 60% duty cycle with optional heavy-duty head tube	115–715 ipm (2.9–18.1 m/min.)	Aluminum: .030–.035 in. (0.8–0.9 mm) Solid steel: .023–.035 in. (0.6–0.9 mm) Stainless: .023–.035 in. (0.6–0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 2.25 in. (57 mm) D: 8 in. (203 mm)	9.1 lb. (4.1 kg)

Spoolmatic® Spool Guns

Portable, aluminum wire feeder for industrial applications.



Spoolmatic® 30A



Spoolmatic® Pro

Key features

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

Available in 15- or 30-foot cable lengths, providing flexibility to be used in the shop and in the field.

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

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

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

Additional Spoolmatic® Pro Features

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

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

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

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

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



Use with CC/CV, DC power sources.

Light industrial processes

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

Suggested power sources

For Spoolmatic®

(non-Pro model only)

- Millermatic® 252 (pg 30)
- Millermatic® 255 (pg 31)
- Millermatic® 355 (pg 32)
- Multimatic® 235 (pg 18)
- Multimatic® 255

For both Spoolmatic® models

- Bobcat™ 265
- Trailblazer® 330 Series (pg 37)
- Bobcat™ 200 Air Pak™ (pg 35)
- Bobcat™ 265 Air Pak™ (pg 36)
- Trailblazer® 330 Air Pak™ (pg 36)

The following power sources require a WC-24 control (137549)

- AlumaPower™ 450 MPa
- XMT® Series
- Big Blue® Series (not compatible with Big Blue® 450 Duo CST)

Most popular accessories

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

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

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

MODEL/STOCK NO.	RATED OUTPUT	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	MAXIMUM SPOOL SIZE CAPACITY	GUN ONLY DIMENSIONS	GUN ONLY NET WEIGHT
Spoolmatic® 195156 15ft (4.6M m) cable 130831 30ft (9 m) cable	200 A at 100% duty cycle	70–875 ipm (1.8–22.2 m/min.) Wire speed dependent on control box or power source used	Aluminum: .030–1/16 in. (0.8–1.6 mm) Solid steel: .030–.045 in. (0.8–1.1 mm)	4 in. (102 mm)	H: 10.25 in. (260 mm) W: 2.5 in. (64 mm) D: 15.125 in. (384 mm)	2.9 lb. (1.3 kg)
Spoolmatic® Pro 301147 15ft (4.6M m) cable 301148 30ft (9 m) cable	200 A at 100% duty cycle	70–900 ipm (1.8–23 m/min.) Wire speed dependent on control box or power source used	Aluminum*: .030–1/16 in. (0.8–1.6 mm) Solid steel: .030–.045 in. (0.8–1.1 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 3 in. (76 mm) D: 12.5 in. (318 mm)	3.0 lb. (1.4 kg)



XR™ Push-Pull Guns

XR™ guns work in conjunction with select feeders and power sources to provide the best solution for push-pull applications.

Key features

Threaded quick-change 360-degree rotatable head tubes are available in different bends and lengths for even those hard-to-reach welds. Over 30 different styles to fit your application and welder's preference.

Heavy-duty construction. All internal components are designed to provide long lasting performance and feeding precision.

Wire tension settings (except XR-Pistol). 4000- or 5000-specific tension settings ensure the very best wire feeding performance and arc consistency.

Easy access to drive assembly and removable toolless head tube on Pro, Plus and AlumaDrive models reduce service time by allowing drive roll and head tube change, or performing routine maintenance, without disassembly of gun.

MIG Guns



XR-Aluma-Pro™ Lite



XR-Aluma-Pro™



XR™-Pistol



XR™-Pistol-Pro

XR-Aluma-Pro™ Lite

Lightest weight gooseneck-style gun features rear trigger that allows access to hard-to-reach welds.

XR-Aluma-Pro™ and Aluma-Pro™ Plus

Robust professional-grade guns with the highest duty cycle rating in their class.

XR™-Pistol

Reliable, cost-effective gun for light- to medium-industrial applications.

XR™-Pistol-Pro and Pistol Plus

Exceptional aluminum welding results for heavy-industrial applications with a more durable motor and drive design.



Use with CC/CV, DC power sources.

Industrial/heavy industrial processes

Aluma-Pro™ Lite is industrial

All others are heavy industrial

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

Suggested power sources and feeders

For non-Plus guns

- Millermatic® 255 (pg 31)
(XR-Aluma-Pro Lite, XR-Aluma-Pro and XR-Pistol-Pro guns only)
- Millermatic® 355 (pg 32)
(XR-Aluma-Pro Lite, XR-Aluma-Pro and XR-Pistol-Pro guns only)
- Multimatic® 255
(XR-Aluma-Pro Lite, XR-Aluma-Pro and XR-Pistol-Pro guns only)

For non-Plus guns the following power sources require an XR-AlumaFeed® SuitCase® (pg 13)

- AlumaPower™ 450 MPa
- Deltaweld® 350/500/600
(14-pin receptacle models only)
- XMT® Series (pg 14)
- Trailblazer® 330 Series (pg 37)
- Trailblazer® 330 Air Pak™ (pg 36)

For Plus guns

- AlumaPower™ 450 MPa with 74 MPa Plus feeder
- Deltaweld® 350/500/600 with Intellx™ Elite feeder
- XMT® Series (except XMT polarity reversing models) (pg 14) with 74 MPa Plus feeder

Most popular accessories

- Solid Wire Liner Kit 198377

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

*Dependent on control box or Millermatic/Multimatic used. **All guns except XR-Pistol require gun wire kit (230708) to run 1/16 in. (1.6 mm) wire.

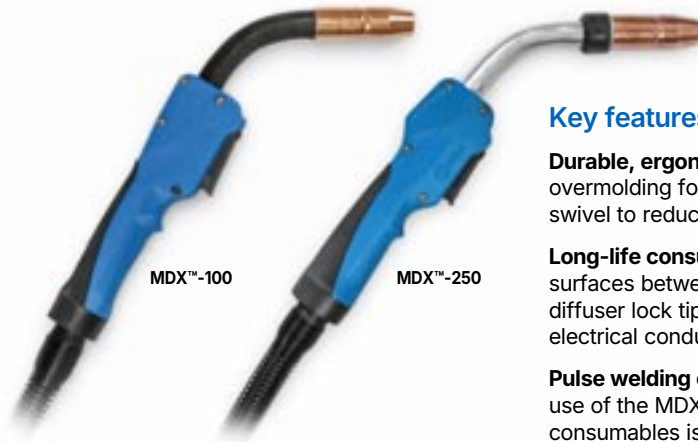
MODEL	TYPE	CABLE LENGTH				RATED OUTPUT	WIRE FEED SPEED*	WIRE TYPE AND DIAMETER CAPACITY	GUN ONLY DIMENSIONS	GUN ONLY NET WEIGHT
		15 FT. (4.6 M)	25 FT. (7.6 M)	30 FT. (9 M)	35 FT. (10.6 M)					
XR-Aluma-Pro™ Lite	Air-cooled	—	300948	—	—	175 A at 60% duty cycle	70–900 ipm (1.8–23 m/min.)	Aluminum: .030–.047 in. (0.8–1.2 mm)	H: 4 in. (102 mm) W: 1.9 in. (48 mm) D: 15 in. (381 mm)	2.0 lb. (0.9 kg)
XR-Aluma-Pro™	Air-cooled	301568	301569	—	301570	300 A at 100% duty cycle	70–900 ipm (1.8–23 m/min.)	Aluminum** .030–1/16 in. (0.8–1.6 mm)	H: 5 in. (127 mm) W: 2.5 in. (64 mm) D: 17 in. (432 mm)	2.5 lb. (1.1 kg)
	Water-cooled	301571	301572	—	301573	400 A at 100% duty cycle				2.9 lb. (1.3 kg)
XR-Aluma-Pro™ Plus	Air-cooled	301575	301574	—	301739	300 A at 100% duty cycle	70–780 ipm (1.8–19.8 m/min.)	Aluminum** .030–1/16 in. (0.8–1.6 mm)	H: 7.375 in. (187 mm) W: 1.875 in. (48 mm) D: 10.625 in. (270 mm)	2.5 lb. (1.1 kg)
	Water-cooled	301576	301577	—	301740	400 A at 100% duty cycle				2.9 lb. (1.3 kg)
XR™-Pistol	Air-cooled	198127	—	198128	—	200 A at 100% duty cycle	70–875 ipm (1.8–22.2 m/min.)	Aluminum** .030–1/16 in. (0.8–1.6 mm)	H: 7.375 in. (187 mm) W: 1.875 in. (48 mm) D: 10.625 in. (270 mm)	2.2 lb. (1 kg)
	Water-cooled	198129	—	198130	—	400 A at 100% duty cycle				2.4 lb. (1.1 kg)
XR™-Pistol-Pro	Air-cooled	300782	300783	—	300784	200 A at 100% duty cycle	70–900 ipm (1.8–23 m/min.)	Aluminum** .030–1/16 in. (0.8–1.6 mm)	H: 7.375 in. (187 mm) W: 1.875 in. (48 mm) D: 10.625 in. (270 mm)	2.2 lb. (1 kg)
	Water-cooled	300786	300787	—	300788	400 A at 100% duty cycle				2.4 lb. (1.1 kg)
XR™-Pistol Plus	Air-cooled	300753	300754	—	—	200 A at 100% duty cycle	70–780 ipm (1.8–19.8 m/min.)	Aluminum** .030–1/16 in. (0.8–1.6 mm)	H: 7.375 in. (187 mm) W: 1.875 in. (48 mm) D: 10.625 in. (270 mm)	2.2 lb. (1 kg)
	Water-cooled	—	300757	—	—	400 A at 100% duty cycle				2.4 lb. (1.1 kg)

MDX™ Series MIG Guns

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



MIG Guns
Steel



Key features

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

Long-life consumables. Tapered mating surfaces between the contact tip and gas diffuser lock tips in place for maximized electrical conductivity and long tip life.

Pulse welding capable. For extensive pulse, use of the MDX™-250 with heavy duty consumables is recommended.

MODEL	STOCK NO.	CABLE LENGTH	RATED OUTPUT	RATED DUTY CYCLE	STANDARD WIRE SIZE	CONSUMABLES
MDX™-100	1770028	10 ft. (3 m)	100 A	100% with CO ₂ gas, 60% with mixed gas	.030-.035 in. (0.8-0.9 mm)	Standard duty
	1770029	15 ft. (4.6 m)	100 A	100% with CO ₂ gas, 60% with mixed gas	.030-.035 in. (0.8-0.9 mm)	Standard duty
MDX™-250	1770035	10 ft. (3 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.030-.035 in. (0.8-0.9 mm)	Standard duty
	1770037	15 ft. (4.6 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.030-.035 in. (0.8-0.9 mm)	Standard duty
	1770038	15 ft. (4.6 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.035-.045 in. (0.9-1.2 mm)	Standard duty
	1770043	15 ft. (4.6 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.035-.045 in. (0.9-1.2 mm)	Heavy duty

MDX™ Series MIG Guns Consumables

Flawless wire feeding path. Front load liner is locked and concentrically aligned with both the contact tip and power pin.

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

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

MDX™ MIG power pin caps are available in three wire range sizes. They work together with gas diffusers to lock and concentrically align the liner to both the contact tip and power pin to ensure smooth, uninterrupted delivery of the wire to the weld puddle.

MDX™ MIG guns consumables consist of two series:

Standard duty — smaller consumables and components to access hard-to-reach weldments.

Heavy duty (MDX™-250 only) — upgrade to heavy duty consumables for increased durability and longer life when guns are used in more industrial applications.



Standard duty Heavy duty



Consumables Kits

For MDX™-100 MIG gun

1880272 .023 in (0.6 mm)

1880273 .030 in (0.8 mm)

1880274 .035 in (0.9 mm)

For MDX™-250 MIG gun

1880275 .030 in (0.8 mm)

1880276 .035 in (0.9 mm)

1880277 .045 in (1.2 mm)

For MDX™-250 MIG gun (heavy duty consumables)

1880278 .035 in (0.9 mm)

1880279 .045 in (1.2 mm)

Kits include ten contact tips, one nozzle, one diffuser, and a consumable storage box. All MDX™-250 MIG gun kits also include one neck insulator.

Light industrial/ industrial processes

MDX™-100 is light

industrial

MDX™-250 is industrial

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

Suggested power sources

For MDX™-100

- Millermatic® 142 (pg 28)
- Millermatic® 211 PRO (pg 29)
- Multimatic® 215 PRO (pg 16)
- Multimatic® 220 AC/DC (pg 17)

For MDX™-250

- Millermatic® 252 (pg 30)
- Millermatic® 255 (pg 31)
- Multimatic® 235 (pg 18)
- Multimatic® 255

Most popular consumables

- Power Pin Caps (inches)
 - 2200360 .023-.030
 - 2200361 .030-.035
 - 2200362 .035-.045
- Liners (inches)
 - LM1A-10 10 ft., .023-.025
 - LMD2A-10 10 ft., .030-.035
 - LMD3A-10 10 ft., .035-.045
 - LM1A-12 12 ft., .023-.025
 - LMD2A-12 12 ft., .030-.035
 - LMD3A-12 12 ft., .035-.045
 - LM1A-15 15 ft., .023-.025
 - LMD2A-15 15 ft., .030-.035
 - LMD3A-15 15 ft., .035-.045
- Diffusers
 - D-M100 MDX-100
 - D-M250 MDX-250
 - D-MA250M MDX-250 (heavy duty)
- MDX-100 Nozzles (inches)
 - NS-M1200B 1/2 ID, flush, brass
 - NS-M1200C 1/2 ID, flush, copper
 - NS-MFLX Gasless nozzle
- MDX-250 Nozzles (inches)
 - Standard duty
 - N-M1200C 1/2 ID, flush, copper
 - N-M1218C 1/2 ID, 1/8 rec., copper
 - N-M5800C 5/8 ID, flush, copper
 - N-M5818C 5/8 ID, 1/8 rec., copper
 - N-M58XTC 5/8 ID, 1/8 ext., copper
 - Heavy duty
 - N-A5800CM 5/8 ID, flush, copper
 - N-A5818CM 5/8 ID, 1/8 rec., copper
 - N-A5814CM 5/8 ID, 1/4 rec., copper
- Contact Tips (inches)
 - Standard duty
 - T-M023 .023
 - T-M030 .030
 - T-M035 .035
 - T-M045 .045
 - T-M047 3/64
 - Heavy duty
 - T-A023CHM .023
 - T-A030CHM .030
 - T-A035CHM .035
 - T-A039CHM .039
 - T-A045CHM .045

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



BTB Air-Cooled MIG Guns

Fully configurable BTB MIG guns help keep your skilled welders comfortable while also increasing their productivity.

MIG Guns



B Series handle

T Series handle

Choose from a variety of necks, handles and trigger styles to optimize welder ergonomics and weld access, then standardize with a single line of consumables to simplify maintenance and contain costs.



See chart below for a pre-configured BTB MIG gun. Configure your BTB MIG gun by visiting: BernardTregaskiss.com/ConfigureMyGun

¹ Comes with a Miller® power pin and E-Z Feed™ rear load liner.

STOCK NO.	AMPERAGE	CABLE LENGTH	NOZZLE RECESS	HANDLE	TRIGGER	NECK	CONSUMABLES	WIRE SIZE
Q3015AE9HMC ¹	300	15 ft. (4.6 m) Hytrel® polymer	1/8 in. recess	B Series curved	Standard	Rotatable med. 45°	AccuLock™ S	.052 in. (1.4 mm)
Q3015AE9EMC ¹	300	15 ft. (4.6 m) Hytrel® polymer	1/8 in. recess	B Series curved	Standard	Rotatable med. 45°	AccuLock™ S	.045 in. (1.2 mm)
Q4015AE9EMC ¹	400	15 ft. (4.6 m) Hytrel® polymer	1/8 in. recess	B Series curved	Standard	Rotatable med. 45°	AccuLock™ S	.045 in. (1.2 mm)
Q4015ME9EMC ¹	400	15 ft. (4.6 m) Hytrel® polymer	1/8 in. recess	T Series	Standard	Rotatable med. 45°	AccuLock™ S	.045 in. (1.2 mm)

AccuLock™ S Consumables

AccuLock™

Increase tip life, reduce replacement frequency

- Contact tips are 60 percent buried within the diffuser for less exposure to the heat of the weld
- Mating tapers on both tip-to-diffuser and diffuser-to-neck connection provide good electrical conductivity
- Shielding gas cools contact tip tail



AccuLock™ S for Rear Load Liners Starter Kit ALCSK-1

Designed to help convert from current BTB MIG gun consumables to AccuLock™ S consumables. The kit includes everything needed to swap out current nozzle, diffuser and contact tip with AccuLock™ S consumables with the ability to use existing rear load liner.



Now available with select Miller packages. For more information, scan the QR code or visit BernardTregaskiss.com/acculocks-systems

Heavy industrial processes

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

Duty cycle ratings

- 60% with mixed gases

Suggested power sources and feeders

- Millermatic® 355 (pg 32)

The following power sources require a feeder (see product pages for suggested feeders)

- Deltaweld® 350/500/600
- Maxstar® 280 Multiprocess (pg 19)
- Dynasty® 300 Multiprocess (pg 19)
- XMT® Series (pg 14-15)
- Bobcat™ Series (pg 35-36)
- Trailblazer® 330 Series (pg 37)
- Bobcat™ 200 Air Pak™ (pg 35)
- Bobcat™ 265 Air Pak™ (pg 36)
- Trailblazer® 330 Air Pak™ (pg 36)
- Big Blue® Series (pg 39-41)

Most popular consumables

AccuLock™ S consumables

- Diffusers*
 - DS-A1-C Rear load liner, small, thread-on
 - DS-A2-C Rear load liner, small, slip-on
 - D-A1-C Rear load liner, large, thread-on
 - D-A2-C Rear load liner, large, slip-on
- Brass Nozzle* (inches)
 - NS-A1218B 1/2 ID, 1/8 rec., small
- Copper Nozzles* (inches)
 - NS-A5818C 5/8 ID, 1/8 rec., small
 - N-A5818C 5/8 ID, 1/8 rec., large
 - N-A5814C 5/8 ID, 1/4 rec., large
 - N-A3414C 3/4 ID, 1/4 rec., large
- Contact Tips* (inches)
 - T-A035CH .035
 - T-A045CH .045
 - T-A052CH .052
 - T-A062CH 1/16

**Small diffusers are compatible with small nozzles; large diffusers are compatible with large nozzles. The contact tips listed above are compatible with both small and large diffusers.*

Visit BernardTregaskiss.com or your distributor for additional Bernard consumable options.



E-Z Feed™ liners are now standard in Bernard MIG guns for wire sizes 0.035–1/16 inch. Scan the QR code to find out more.



Clean Air E™ Fume Extraction MIG Guns

Improve safety and provide a cleaner work environment without sacrificing welding performance. Clean Air E™ is engineered to minimize exposure to welding fumes, helping facility management teams meet health and safety standards efficiently.



Lever handle



Button handle



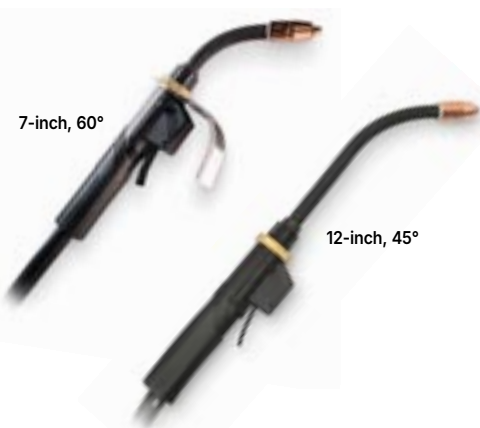
See chart below for a pre-configured Clean Air E MIG gun. Scan the QR code to configure your Clean Air E MIG gun.

- Available in 300-amp or 400-amp models — rated at 60 percent duty cycle with mixed gases
- Removes fumes directly at the source for cleaner air and reduced visible fume
- Lightweight handle with a rear swivel for optimal ergonomics
- Built for long-lasting performance in demanding environments
- Improves weld quality due to increased weld visibility
- Optional nozzle shroud lengths can be chosen based on weld joint configuration
- Ideal for large weldments, confined spaces and overhead welding applications
- Configurable with AccuLock™ S consumables

STOCK NO.	AMPERAGE	CABLE LENGTH	HANDLE STYLE AND TRIGGER POSITION	NECK	CONSUMABLES	WIRE SIZE	LINER STYLE
E3015AK4EMC	300	15 ft. (4.6 m)	Lever handle, trigger on bottom	Medium, 60°	AccuLock™ S, small	.045 in. (1.2 mm)	EZ-Feed™ rear load
E3015FK4EMC	300	15 ft. (4.6 m)	Button handle, standard trigger	Medium, 60°	AccuLock™ S, small	.045 in. (1.2 mm)	
E4015AK5HMC	400	15 ft. (4.6 m)	Lever handle, trigger on bottom	Medium, 60°	AccuLock™ S, large	.052 in. (1.4 mm)	
E4015FK5EMC	400	15 ft. (4.6 m)	Button handle, standard trigger	Medium, 60°	AccuLock™ S, large	.045 in. (1.2 mm)	

IronPro™ Self-Shielded Flux-Cored Guns

Designed for structural steel erector sites. Comes with 15-foot (4.6 m) cable and short handle for excellent joint access and maneuverability.



- Available in 350-amp or 450-amp models at 60 percent duty cycle
- Includes AccuLock™ S consumables with E-Z Feed™ rear load liner for 5/64–3/32 inch (2.0–2.4 mm) FCAW wire
- Extended life with sealed trigger that helps keep out dust and dirt, and replaceable liner
- Ergonomic design provides excellent access and maneuverability for hard-to-reach weld joints
- Durable — ideal for outdoor environments
- Choose from two different neck lengths and bend radii for optimal joint access
- Optional heat shield keeps welder's hands shielded from heat

STOCK NO.	AMPERAGE	CABLE LENGTH	INSULATOR	TRIGGER	NECK	HEAT SHIELD	CONSUMABLES	WIRE SIZE
GL3515MLNM	350	15 ft. (4.6 m)	Armored	Standard	12 in., 45°	Not installed	AccuLock™ S	1/16–5/64 in. (1.6–2.0 mm)
GL3515MSXM	350	15 ft. (4.6 m)	Armored	Standard	7 in., 60°	Installed	AccuLock™ S	1/16–5/64 in. (1.6–2.0 mm)
GL4515MLNM	450	15 ft. (4.6 m)	Armored	Standard	12 in., 45°	Not installed	AccuLock™ S	5/64–3/32 in. (2.0–2.4 mm)
GL4515MSXM	450	15 ft. (4.6 m)	Armored	Standard	7 in., 60°	Installed	AccuLock™ S	5/64–3/32 in. (2.0–2.4 mm)

Heavy industrial processes

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

Suggested power sources and feeders

- Millermatic® 355 (pg 32)

The following power sources require a feeder (see product pages for suggested feeders)

- Deltaweld® 350/500/600
- Maxstar® 280 Multiprocess (pg 19)
- Dynasty® 300 Multiprocess (pg 19)
- XMT® Series (pg 14–15)

For IronPro guns only

- Bobcat™ Series (pg 35–36)
- Trailblazer® 330 Series (pg 37)
- Bobcat™ 200 Air Pak™ (pg 35)
- Bobcat™ 265 Air Pak™ (pg 36)
- Trailblazer® 330 Air Pak™ (pg 36)
- Big Blue® Series (pg 39–41)

Suggested fume extractors

For Clean Air E™ guns only

- FILTAIR® 130 (pg 47)
- FILTAIR® 215 (pg 49)

Most popular consumables

AccuLock™ S consumables

- Diffusers*
 - DS-A1-C Rear load liner, small, thread-on
 - D-A1-C Rear load liner, large, thread-on
- Copper Nozzles* (inches)
 - NS-A5818C 5/8 ID, 1/8 rec., small
 - N-A5818C 5/8 ID, 1/8 rec., large
 - N-A5814C 5/8 ID, 1/4 rec., large
 - N-A3414C 3/4 ID, 1/4 rec., large
- Contact Tips* (inches)
 - T-A052CH .052
 - T-A062CH 1/16
 - T-A078CH 5/64
 - T-A094CH 3/32
- Contact Tip Insulator (IronPro guns only)
 - NS-AFLX Composite Tip Insulation
 - NS-AFLX-HD Armored tip insulation

*Small diffusers are compatible with small nozzles; large diffusers are compatible with large nozzles. The contact tips listed above are compatible with both small and large diffusers.

Visit BernardTregaskiss.com or your distributor for additional Bernard consumable options.





SmartEquip®

Simplified Parts Procurement with SmartEquip®.

MIG Guns

SE SMARTEQUIP®



SmartEquip® gives you streamlined access to the parts you need to keep equipment running.

- Single-login ordering system with access to a comprehensive parts catalog library
- Serial-number-specific search and interactive parts diagrams for accurate identification
- Business term pricing, inventory availability, and easy order creation
- Up-to-date sourcing information, including model revisions and supersessions

SmartEquip helps reduce downtime, improve order accuracy, and make parts procurement faster and easier.

E-Z Feed™ Liners

E-Z Feed™ Liners Built Tough to Feed Smooth.

Key Benefits

- Smoother, consistent wire feeding
- Built tough for demanding environments
- Increased productivity and reduced downtime
- Optimized across wire types and applications
- Seamless standardization

These liners feature a corrosion-resistant coating and a unique enhanced coil profile that reinforces rigidity and wire support. The result is smoother, more consistent wire feeding, even in the most challenging applications.

Whether you're running aluminum, stainless steel, or metal-cored wire, E-Z Feed™ liners are built to handle it.

E-Z Feed™ liners are standard in BTB, S-Gun, Pipeworx, Clean Air E, and W-Guns with rear load liners for 0.035" - 1/16" wire.

E-Z Feed Rear Load Liners

PART NUMBER	WIRE SIZE	GUN LENGTH
LD3A-15	0.035"-0.045"	10' - 15'
LD3A-25	0.035"-0.045"	20' - 25'
LD4A-15	0.045"-1/16"	10' - 15'
LD4A-25	0.045"-1/16"	20' - 25'

EZFeed



Now available with select Miller packages. For more information, scan the QR code

Features

- Corrosion-resistant coating allows for smooth wire feed.
- Unique coil profile make liners more rigid – preventing kinking or deformation.
- Standard in BTB, S-Gun, Pipeworx, Clean Air E™ and W-Guns with rear load liners for 0.035" – 1/16" wire

Visit BernardTregaskiss.com or your distributor for additional Bernard consumable options.





	MODEL	PAGE	CLASS	MIG	PULSED MIG	FLUX-CORED*	CAC-A	PORTABILITY	WELDABLE METALS	WELDING OUTPUT RANGE	SPECIAL FEATURES	TYPICAL APPLICATIONS
1-PHASE	Millermatic® 142	28	●	+	+	+		Handles, optional running gear	Steel, stainless, aluminum	30–140 A	All-in-one, 120 V input, Auto-Set™, Smooth-Start™	Up to 3/16 in. with self-shielded wire maintenance/repair, auto body
	Millermatic® 211 PRO	29	●	+	+	+				30–230 A	All-in-one, 120/240 V input, Auto-Set™, Smooth-Start™, continually upgradeable	Up to 3/8 in. maintenance/repair, auto body, fabrication
	Millermatic® 252	30	■	+	+	+		Installed running gear		30–300 A	All-in-one, timers menu, connects to MIG gun or spool gun	Up to 1/2 in. industrial production/fabrication, farm
	Millermatic® 255	31	■	+	+	+		Handles, optional running gear		20–350 A	All-in-one, Auto-Set™, stores up to four programs, connects to MIG gun, spool gun or push-pull gun	Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for aluminum and stainless
1- /3-PHASE	Millermatic® 355	32	■	+	+	+		Handles, optional running gear	Steel, stainless, aluminum	20–400 A 12–34 V	All-in-one, Auto-Set™, stores up to four programs, connects to MIG gun, spool gun or push-pull gun	Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for aluminum and stainless
3-PHASE	AlumaFeed® 450 Aluminum System		▲	+	+			Handles, optional cart, MIGRunner®	Aluminum	15–600 A 10–38 V	Profile Pulse™, lightweight feeder can be up to 100 feet from power source	Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding
	Deltaweld® 350 System		▲	+	+	+		Lift eye, optional running gear, MIGRunner®	Steel, stainless	20–400 A 10–38 V	Special arc control feature when paired with Intellix™ feeders, Accu-Pulse® MIG welding with Intellix Pro and Elite feeders, optional Insight Centerpoint™ Basic	Medium-to-large manufacturing and fabrication
	Deltaweld® 500 System		▲	+	+	+	3/8"			30–650 A 10–44 V		

MIG (GMAW)

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

PRODUCT KEY *If using self-shielded wire on a CC/CV machine, use CV weld output.

NEW! or IMPROVED! products appear in blue type.

Millermatic® 142



MIG Welding Capability

MAX.	MAX.
3/16 in. (4.8 mm)	14 ga. (1.9 mm)
Mild Steel	Aluminum
MIN.	MIN.
24 ga. (0.6 mm)	18 ga. (1.2 mm)

Aluminum welding uses optional Spoolmate™ 100 and 4043 series aluminum wire **OR** Spoolmate™ 150 and either 4000 or 5000 series aluminum wire.

Key features

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

- Select the wire diameter
- Select the material thickness you are welding
- Start welding with the exact parameters you need!

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

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

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

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

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



Light industrial processes

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

Comes complete with

- 10 ft. (3 m) 100-amp MDX™-100 MIG gun with MDX™ consumables
- 10 ft. (3 m) work cable with clamp
- 6.5 ft. (2 m) power cord with plug
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra contact tips, Hobart® spool of .030 in. solid wire, hook-and-loop cord wraps, and material thickness gauge (229895)

Recommended aluminum solution

- Spoolmate™ 100 300371 **OR** Spoolmate™ 150 301272 (pg 21)



Most popular accessories

- Running Gear/Cylinder Rack 301239

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

*Dimensions and net weight are for power source only.

STOCK NO.	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	DIMENSIONS IN. (MM) *	NET WEIGHT LB. (KG) *
907838	30–140 A	100 A at 19 VDC, 60% duty cycle	19.3 2.32 2.32	60–600 ipm (1.5–15.2 m/min.)	Solid/stainless: .023–.030 in. (0.6–0.8 mm)	H: 14.63 (372) W: 9.75 (248) D: 20 (508)	33 (15.4)
951000072		80 A at 18 VDC, 100% duty cycle	14.8 1.78 1.78		Flux-cored: .030–.035 in. (0.8–0.9 mm)		



Millermatic® 211 PRO

MIG (GMAW)
All-in-One



NEW!



MIG Welding Capability

MAX. 3/8 in. (9.5 mm)

Mild Steel	Aluminum
MIN. 24 ga. (0.6 mm)	MIN. 18 ga. (1.2 mm)

Aluminum welding uses optional Spoolmate™ 100 and 4043 series aluminum wire **OR** Spoolmate™ 150 and either 4000 or 5000 series aluminum wire.

Key features



Auto-Set™ fast and easy predefined settings for multiple materials and processes to help you get welding quickly.

- Select the weld process and gas being used
- Select the wire diameter (.024, .030 or .035 in.)
- Select the material thickness you're welding
- Start welding with the exact parameters you need!

BeadVision™ provides graphic feedback as parameters are adjusted. Users will be able to see how setting changes affect penetration and bead profile.

USB-enabled software allows expandable machine capabilities without requiring mechanical modifications. This ensures the investment continues to produce over time, even as needs evolve.

15-foot MIG gun and Dinse connections. Weld longer with fewer interruptions with a higher duty cycle, 15-foot MIG gun and Dinse connections.

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

Dyna-Pulse™ Dynamic pulse delivers higher quality MIG welds with exceptional arc control and versatility.

- Fewer machine adjustments when transitioning between positions, joints, and wire types.
- Lower heat input for less distortion on thin materials and better puddle control on out-of-position welds.
- Minimized spatter reduces post-weld grinding and rework.
- Ideal for MIG welding applications where control and appearance matter most.

Program Mode allows easy save and recall of favorite weld settings.

- Delivers greater productivity by eliminating the need to manually set or change parameters.
- Delivers consistent quality by welders of all skill levels by using prequalified weld settings.

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

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

CVDC 1
Phase

Light industrial processes

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

Comes complete with

- 15 ft. (4.6 m) 100-amp MDX™-100 MIG gun with MDX™ consumables
- 15 ft. (4.6 m) work cable with clamp
- 6.5 ft. (2 m) power cord with MVP plugs for 120 V and 240 V
- Quick Select™ drive roll for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra contact tips, hook-and-loop cord wraps, and material thickness gauge (229895)

Recommended aluminum solution

- Spoolmate™ 100 300371 OR Spoolmate™ 150 301272 (pg 21)

Most popular accessories



- **Running Gear/Cylinder Rack** 301239
- Protective Cover 301737
- V-Knurled Drive Roll 202926

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

*Dimensions and net weight are for power source only.

STOCK NO.	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	DIMENSIONS IN. (MM)*	NET WEIGHT LB. (KG)*
907839 951000073 With running gear/cylinder rack	120 V (NEMA 15)	30–140 A	80 A at 18 VDC, 100% duty cycle	14.7 — 1.762 1.756	60–600 ipm (1.5–15.2 m/min.)	Solid/stainless: .024–.035 in. (0.6–0.9 mm) Flux-cored: .030–.035 in. (0.8–0.9 mm)	H: 14.63 (372) W: 9.75 (248) D: 20 (508)	35 (15.9)
	120 V (NEMA 20)	30–140 A	130 A at 20.5 VDC, 25% duty cycle	27 — 3.244 3.236				
			110 A at 19.5 VDC, 60% duty cycle	21.7 — 2.611 2.605				
			90 A at 18.5 VDC, 100% duty cycle	17.02 — 2.049 2.042				
	240 V (NEMA 50)	30–230 A	215 A at 24.8 VDC, 30% duty cycle	— 25.65 6.156 6.134				
			160 A at 22 VDC, 60% duty cycle	— 16.76 4.075 4.024				
			120 A at 20 VDC, 100% duty cycle	— 11.54 2.788 2.754				

Millermatic® 252



MIG Welding Capability

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

Aluminum welding uses optional Spoolmatic® or Spoolmate™ 200 spool gun.

Key features

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

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

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

Aluminum MIG welding with direct connection of optional Spoolmate™ 200 and Spoolmatic® spool guns.

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

Heavy-duty aluminum two-drive-roll system.

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



Industrial processes

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

Comes complete with

- 15 ft. (4.6 m) 250-amp MDX™-250 MIG gun with MDX™ consumables
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord (and plug on 208/240 V model)
- Factory-installed lowered running gear/cylinder rack with chain to secure gas cylinder
- Factory-installed gas solenoid
- .030/.035 in. reversible dual-groove drive rolls
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix and extra contact tips

Recommended aluminum solution

- Spoolmatic® Spool Gun (non-Pro gun only) (pg 22)



Most popular accessories

- Spoolmate™ 200 Spool Gun (pg 21)
- Dual EZ-Change™ Low Cylinder Rack 300337
- Protective Cover 195142

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

*With Spoolmatic (30 ft.), additional regulator and dual EZ-Change low cylinder rack with elevated gun and cable rack.

**While idling.

STOCK NO.	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 60 HZ 208 V 230 V 240 V 460 V 575 V KVA KW								WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
907321 208/240 V 951960* 208/240 V	30–300 A	200 A at 24 VDC, 60% duty cycle	57.0	—	50.8	—	—	11.4	7.1	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 (762) W: 19 (483) D: 40 (1,016)	205 (93)	
		250 A at 26.5 VDC, 40% duty cycle	64.2	—	56.4	—	—	12.6	9.4					
907322 230/460/575 V 951961* 230/460/575 V		200 A at 24 VDC, 60% duty cycle	—	46	—	23	18	9.8	7.5					
		250 A at 26.5 VDC, 40% duty cycle	—	2**	—	1**	0.8**	0.46**	0.13**					



Millermatic® 255

MIG (GMAW)
All-In-One



MIG Welding Capability

MAX. 1/2 in. (13 mm)

Mild Steel

Aluminum

MIN.
24 ga. (0.6 mm)

MIN.
18 ga. (1.2 mm)

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

Millermatic® 255 with EZ-Latch single cylinder running gear shown.

Key features



7-inch LCD display with easy-to-understand interface ensures proper machine setup and parameter selection.

- Quick-access Auto-Set™ and pulse mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick and easy
- Intuitive connection setup images

AUTO-LINE™
TECHNOLOGY

Allows for any input voltage hookup (208–240 V, single-phase with no manual linking, providing convenience in any job setting.

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

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

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

Program mode allows easy save and recall of favorite weld settings. Save up to four programs.

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

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

Heavy-duty aluminum two-drive-roll system.

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

CVDC 1
Phase

Industrial processes

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

Comes complete with

- 15 ft. (4.6 m) 250-amp MDX™-250 MIG gun with MDX™ Heavy Duty consumables
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- Factory-installed gas solenoid
- .035/.045 in. reversible V-groove drive rolls
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra contact tips and material thickness gauge (229895)

Recommended aluminum solution

- XR-Aluma-Pro™ Air-Cooled Push-Pull Gun (page 23)

Most popular accessories

- Spoolmatic® Spool Gun (pg 22) (non-Pro gun only)
- XR™-Pistol-Pro Air-Cooled Push-Pull Guns (pg 23)
- EZ-Latch™ Single Cylinder Running Gear 301449



- **EZ-Latch™ Dual Cylinder Running Gear** 951769
- Protective Cover 301521

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

*See literature DC/12.8 for dimensions and weight with running gear.

STOCK NO.	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ				WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	POWER SOURCE DIMENSIONS IN. (MM)*	POWER SOURCE NET WEIGHT LB. (KG)*
			208 V	240 V	KVA	KW				
907734 951766 With EZ-Latch single cylinder running gear	20–350 A	230 A at 25.5 VDC, 60% duty cycle	44.0	39.5	9.5	7.2	50–800 ipm (1.3–20 m/min.)	Solid steel .023–.045 in. (0.6–1.2 mm) Stainless .023–.045 in. (0.6–1.2 mm) Aluminum .035–.047 in. (0.9–1.2 mm) Flux-cored .030–.045 in. (0.8–1.2 mm) Silicon bronze .030–.035 in. (0.8–0.9 mm)	H: 19.25 (489) W: 13.75 (349) D: 24.25 (616)	84 (38)

Millermatic® 355



MIG Welding Capability

MAX. 1/2 in. (13 mm)

Mild Steel

Aluminum

MIN.

22 ga. (0.8 mm)

MIN.

18 ga. (1.2 mm)

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

Millermatic® 355 with BTB MIG gun and EZ-Latch single cylinder running gear shown.

Key features



7-inch LCD display with easy-to-understand interface ensures proper machine setup and parameter selection.

- Quick-access Auto-Set™ and pulse mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick and easy
- Intuitive connection setup images

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

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

Input voltage selection switch located in the wire drive compartment provides the ability to manually switch input voltage.

Program mode allows easy save and recall of favorite weld settings. Save up to four programs.

Trigger program select increases productivity by eliminating the need to go back to machine to change weld settings. Simply tap MIG, spool or push-pull gun trigger to select the program.

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

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

Heavy-duty aluminum four-drive-roll system.

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



Industrial processes

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

Comes complete with

- 15 ft. (4.5 m) 300-amp Bernard® BTB MIG gun with AccuLock™ S consumables and .035/.045 in. reversible V-groove drive rolls OR 25 ft. (7.6 m) XR-Aluma-Pro™ air-cooled push-pull MIG gun with Miller® FasTip™ consumables and .035/.047 in. reversible U-groove drive rolls for aluminum wire
- 10 ft. (3 m) work cable with clamp
- 9 ft. (2.7 m) industrial power cord
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix, extra contact tips and material thickness gauge (229895)

Recommended aluminum solution

- XR-Aluma-Pro™ Air-Cooled Push-Pull Gun (page 23)



Most popular accessories

- Bernard® MIG Guns (pg 25-27)
- Spoolmate™ 200 Spool Gun (pg 21)
- Spoolmatic® Spool Gun (pg 22) (non-Pro gun only)
- XR™-Pistol-Pro Air-Cooled Push-Pull Guns (pg 23)
- EZ-Latch™ Single Cylinder Running Gear 301449



- **EZ-Latch™ Dual Cylinder Running Gear 951769**

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

*Dimensions and weight are for power source only. See literature DC/12.95 for dimensions and weight with running gear.

STOCK NO.	INPUT POWER	WELDING AMP/VOLT RANGES	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ	WIRE FEED SPEED	MAX. OPEN-CIRCUIT VOLTAGE	WIRE TYPE AND DIAMETER CAPACITY	DIMENSIONS IN. (MM)*	NET WEIGHT LB. (KG)*
907808 w/BTB MIG gun	3-phase	20–400 A 12–34 V	310 A at 29.5 VDC, 60% duty cycle	32.3 28.8 18.2 15.4 15.3 11.5	50–800 ipm (1.3–20 m/min.)	90 VDC	Solid steel .035–.045 in. (0.9–1.2 mm) Stainless .023–.045 in. (0.6–1.2 mm) Aluminum .035–.047 in. (0.9–1.2 mm) Flux-cored .035–.045 in. (0.9–1.2 mm) Metal-core .045–.052 in. (1.2–1.3 mm) Silicon bronze .030–.035 in. (0.8–0.9 mm)	H: 19.25 (489) W: 13.75 (349) D: 26.25 (667)	99 (45)
951926 w/BTB MIG gun and EZ-Latch single cylinder running gear	1-phase, 460 or 575 V	20–400 A 12–34 V		— — 35.6 32.3 15.0 11.1					
951927 w/XR-Aluma-Pro™ gun and EZ-Latch single cylinder running gear	1-phase, 208 or 240 V	20–350 A 12–32 V		69.6 62.5 — — 15.0 11.1					



Venture™ 150 Series

The Venture™ 150 Series battery-powered welding power sources feature swappable battery packs engineered specifically for welding, delivering a reliable 100 percent duty cycle at maximum output — so you can weld continuously all day.



Venture™ 150 S with battery pack and charger package shown. Other packages for S and T models available (see below).



Key features

Swappable battery packs that are engineered for welding. Lightweight and packed with power, the Venture™ 150 battery-powered welding power source allows you to be more nimble on the job. Less equipment to carry allows more time to weld.

Variable charging. Fast charging (from 0 to 95 percent in less than 30 minutes) enables a quick charge time and throughput with the flexibility of standard charging (less than 60 minutes) for extended life.

6010 stick electrode capability. Superior stick arc performance even on the difficult-to-run electrodes like E6010.

Adaptive Hot Start™ provides positive arc starts without sticking.

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

Stick-Stuck detects if the electrode is stuck to the workpiece and turns the welding output off to easily remove the electrode.

Low OCV stick is a simple design that reduces the open-circuit voltage to 12–16 volts. Can be enabled or disabled.

Thermal overload protection helps prevent machine damage in light industrial applications.

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

Additional Venture™ 150 T features

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

QUIETPULSE™ DC pulse welding waveshape is changed to create a slower, more fluid transition between the background and peak amperage, resulting in lower audible noise.

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



Light industrial processes

- Stick (SMAW)
- TIG (GTAW)
- High-frequency TIG (GTAW)*
- Pulsed TIG (GTAW-P)*

*Venture™ 150 T model only.

Packages come with

- 400 Wh battery pack(s)
- Battery charger
- 10 ft. (3 m) cable with electrode holder and 50 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- Shoulder strap with pad
- 8 rubber bumpers/feet

Venture 150 T packages include above plus

- TIG contractor kit which includes 12.5 ft. (3.8 m) Weldcraft™ A-150 TIG torch with flow thru Dinse-style connector, RMS-6M hand control, flow gauge regulator with 12 ft. (3.7 m) gas hose, and AK2C torch accessory kit

Most popular accessories

- Weldcraft™ A-150 Two-Piece Torch 301882 Recommended for S model
- TIG Contractor Kit 301922 Recommended for T model
- TIG Torch Accessory Kit AK2C
- Venture™ 150 400 Wh Battery Pack 301756
- Venture™ 150 Battery Charger 301755

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

*Charge times are subject to battery pack and ambient temperatures. **Dimensions and weight are for power source with battery pack.

MODEL	STOCK NO.	AMPERAGE RANGE	BATTERY CHARGING OPTIONS	BATTERY VOLTAGE	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)**	NET WEIGHT LB. (KG)**
Venture™ 150 S	951000202 With battery pack and charger	Stick: 20–150 A	Charge Fast Standard 0–95% <30 min.* <60 min.*	52.8 V (396 Wh)	80 VDC	H: 13.2 (335) W: 8.4 (213) D: 19 (483)	27 (12.2)
	951000221 With two battery packs and charger						
	907888 Power source only						
Venture™ 150 T	951000256 With battery pack, charger and TIG contractor kit	TIG: 10–160 A					
	951000257 With two battery packs, charger and TIG contractor kit						
	951000258 With TIG contractor kit (no battery pack or charger)						
	907889 Power source only						

Blue Star® 185

Reliable outdoor mobile power—great for farm, ranch, maintenance and construction.



Engine-Driven



Key features

Compact and mobile. With a small footprint, the Blue Star uses little truck space. Optional running gear also makes it one-man mobile.

All engine controls are on front panel.

Stick and TIG capable.

Accu-Rated™ peak auxiliary power is usable for maximum auxiliary power loads such as plasma cutting, Millermatic® MIG welders and motor starting.

Other features include electric start, 120-volt GFCI and 240-volt receptacles, 6.25-gallon fuel capacity, auto-idle and engine hour meter.



Light Industrial processes

- Stick (SMAW)
- DC TIG (GTAW)

Gasoline engine

- Rehlko CH440: 13.4 hp at 3,600 rpm
One-cylinder, four-cycle, overhead valve, air-cooled

Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Lifting Eye 195353
- Running Gear 301246
- Protective Cover 301245

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

	STOCK NO.	WELDING MODE/PROCESS	WELDING AMPERAGE RANGE	RATED OUTPUT AT 104°F (40°C)	SINGLE-PHASE AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
GAS	907664 Rehlko	CC: DC stick/TIG	60–195 A	185 A at 25 V, 20% duty cycle 150 A at 25 V, 100% duty cycle	Peak: 6,500 watts Continuous: 6,200 watts	H: 24.75 (629) W: 20.63 (524) D: 31.25 (794)	296 (134)

Fusion® 185

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



Key features



Weld virtually anywhere with just one machine — outdoors using the gas engine or indoors/outdoors using 120/240-volt utility power with the multi-voltage plug (MVP™).

Easier to transport. Only 242 pounds — up to 50 pounds lighter than similar machines, so moving the Fusion 185 is easier and faster.

Less rework. Inverter technology delivers a smooth, stable stick arc that's forgiving of variations in arc length and travel speed.

Other features include electric start, 120-volt GFCI and 240-volt receptacles, 6.25-gallon fuel capacity, auto-idle and engine hour meter.



Light Industrial process

- Stick (SMAW)
- DC TIG (GTAW)

Gasoline engine

- Rehlko CH440: 13.4 hp at 3,600 rpm
One-cylinder, four-cycle, overhead valve, air-cooled

Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Lifting Eye 195353
- Running Gear 301246
- Twist Lock Adapter Cord 301489
- Protective Cover 301245

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

	STOCK NO.	INPUT POWER	WELDING MODE/PROCESS	WELDING AMPERAGE RANGE	RATED OUTPUT AT 104°F (40°C)	AMPS INPUT AT RATED OUTPUT, 1-PH, 50/60 HZ	SINGLE-PHASE AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
SAS	907781 Rehlko	Engine power	CC: DC stick	30–185 A	185 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	—	Peak: 6,500 watts Continuous: 6,200 watts	H: 24.75 (629) W: 20.13 (511) D: 31.25 (794)	242 (110)
		PowerShift 120 V	CC: DC stick	30–100 A	90 A at 23.6 V, 40% duty cycle	22.7	—		
		PowerShift 240 V	CC: DC stick	30–185 A	185 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	25.0	—		



Bobcat™ 200 Air Pak™ Gas or Diesel

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

Engine-Driven



» Bobcat™ 200 Air Pak™



» Bobcat™ 200 Air Pak™ Diesel

Key features

Maximize available payload.

Reduce weight by up to 600 pounds and increase available payload by up to 24 cubic feet.

Reduce fuel consumption.

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

Minimize operating costs.

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

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

Industrial rotary-screw air compressor.

Easily outperforms and outlasts reciprocating compressors. Many air tools can be powered, including most 3/4-inch impact wrenches. Immediately supplies 30 cfm at 175 psi, 100 percent duty cycle, continuous air output.

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

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

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

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



Industrial processes

- Stick (SMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- DC TIG (GTAW)²

¹ With voltage-sensing feeder.

² Two-piece TIG torch recommended.

Engines

- **EFI gas: Rehlko CH730**
23 hp at 3,600 rpm. Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial
- **EPA Tier 4 Final Diesel: Kubota D722**
19 hp at 3,600 rpm. Three-cylinder, liquid-cooled, industrial

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- ArcReach® SuitCase® Feeders (pg 13)
- Spoolmate™ 200 (pg 21)
- Spoolmatic® (pg 22)
- Spectrum® 375 X-TREME™
- Full KVA Adapter Cord
- Protective Covers
- Remote Output Panel Kit
- HWY-Mid Frame Trailer
- Air Compressor Oil Heater 301448
- Air Dryer Kit 301488
- Spool Gun Extension Hose and Cable Kit 132228

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

MODEL/STOCK NO.		WELDING PROCESS/MODE	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)	
GAS	Bobcat™ 200 Air Pak™ 907771 Rehlko	CC: DC stick/TIG	30–210 A	120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle	Single-phase Peak: 8,000 watts Continuous: 6,500 watts	H: 24.25 (616) H: 29.78 (756) (to top of exhaust) W: 20 (508) D: 44.61 (1,133)	514 (233)	
		CV: MIG/FCAW	15–25 V	120 A at 20 V, 100% duty cycle 140 A at 21 V, 60% duty cycle 210 A at 25 V, 20% duty cycle				
DIESEL	Bobcat™ 200 Air Pak™ Diesel 907760 Kubota	CC: DC stick/TIG	30–210 A	120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle	Single-phase Peak: 8,000 watts Continuous: 6,500 watts	H: 28.88 (734) H: 29.75 (756) (to top of exhaust) W: 20 (508) D: 47.25 (1,200)	618 (280)	
		CV: MIG/FCAW	15–26 V	120 A at 20 V, 100% duty cycle 140 A at 21 V, 60% duty cycle 210 A at 25 V, 20% duty cycle				
Rotorcomp Air Compressor	FEATURES			FREE AIR DELIVERY		WORKING PRESSURE	DUTY CYCLE	OIL CAPACITY
	Rotary screw with electric clutch for on/off, oil change intervals of 500 hours			30 cfm (0.85 m ³ /min.) at 3,600 rpm		80–175 psig	100%	2 qt. (1.89 L)

Bobcat™ 265 Air Pak™ Trailblazer® 330 Air Pak™

Powerful all-in-one tools designed for repair and construction with multiprocess weld quality, auxiliary power, air compressor and battery charge/crank assist.



» Bobcat™ 265 Air Pak™



» Trailblazer® 330 Air Pak™

Key features

Benefits and technology. Air Pak™ models are equipped with all the standard technology of the Bobcat™ 265 (gas) and Trailblazer® 330 (gas) models, with the addition of an air compressor.

Strongest combined auxiliary/compressor power. Delivers an industry-leading 11,000 watts (Bobcat™) or 12,000 watts (Trailblazer®) of peak auxiliary power independent of weld settings.

Industrial rotary screw air compressor. Delivers up to 30 cfm and 160 psi with no storage tank and runs many tools at idle speed. Provides 100 percent deliverable air, rated at an industry-high 104 degrees Fahrenheit. Front panel adjustment and automatic overpressure shutdown with indication. 30,000-hour life expectancy and warrantied for three years by Miller.

Battery charge/crank assist. Provides up to 150 amps of DC current to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 300 amps of crank assist.

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

Wireless interface control (WIC) and/or air cooler with separator on select Trailblazer® models.



Heavy industrial processes

- DC Stick (SMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- DC TIG (GTAW)²
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons, Trailblazer® capable of 1/4 in. carbons)

¹ With wire feeder.

² Two-piece TIG torch recommended.

Gasoline engines

- **Bobcat™: Rehiko ECH749**
27 hp at 3,600 rpm
- **Trailblazer®: Rehiko CH749**
27 hp at 3,600 rpm

Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial

Note: Engines are warrantied separately by engine manufacturer.

Most popular accessories

- ArcReach® SuitCase® Feeders (pg 13)
- Spoolmate™ 200 (pg 21)
- Spoolmatic® (pg 22)
- ArcReach® Stick/TIG Remote (pg 38) (Trailblazer® only)
- ArcReach® Heater (pg 11) (Trailblazer® only)
- Spectrum® 625 X-TREME™
- Protective Cover

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

Engine-Driven

MODEL/STOCK NO.	WELDING PROCESS/MODE	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
AS9	Bobcat™ 265 Air Pak™ 907876 Rehiko with GFCI	CC: Stick/TIG	20–265 A	244 A at 29.8 V, 100% duty cycle	Single-phase Peak: 11,000 watts Continuous: 9,500 watts	H: 27.02 (686) H: 31 (787) (to top of exhaust) W: 20.46 (520) D: 51.88 (1,318)
		CV: MIG/FCAW	14–30 V	260 A at 27 V, 100% duty cycle		
	Trailblazer® 330 Air Pak™ 907836 Rehiko with GFCI 907836002 Rehiko with GFCI and cooler/separator 907836003 Rehiko with GFCI, cooler/separator and WIC	CC: Stick/TIG	20–330 A	314 A at 32.5 V, 100% duty cycle	Single-phase Peak: 12,000 watts Continuous: 10,500 watts	H: 27.02 (686) H: 31 (787) (to top of exhaust) W: 20.46 (520) D: 51.88 (1,318)
		CV: MIG/FCAW	15–40 V	330 A at 30.5 V, 100% duty cycle		
Rotorcomp Air Compressor	FEATURES		FREE AIR DELIVERY		WORKING PRESSURE	DUTY CYCLE
	Rotary screw with electric clutch for on/off, oil change intervals of 500 hours		30 cfm (0.85 m ³ /min.) at 3,600 rpm		80–175 psig	100%
				OIL CAPACITY		2 qt. (1.89 L)



Trailblazer® 330 Series Gas or Diesel

Optimize your welding operation with the Trailblazer® 330 engine-driven welders. They have industry-exclusive benefits to maximize productivity and weld quality, reduce fuel costs, deliver actionable data, and decrease rework and jobsite hazards.

Engine-Driven



» Trailblazer® 330



» Trailblazer® 330 Diesel

Easier mobility and uses less truck space and payload

Gas models are over 80 pounds lighter and 13 percent smaller than previous model.

No control cord needed



Make parameter changes at the weld joint, reducing walks to the machine. Increase arc-on time, improve your bottom line and improve jobsite safety.

Unbeatable arc performance



Provides independent control of the fluidity of the weld puddle (arc control) and the drive of the arc (DIG range). This delivers a tailorable and user-friendly arc to match the application, material, fit-up and welder technique.

Direct spool gun connection

Direct hook up makes it easy to weld aluminum, expanding the types of jobs you can take on. Adapters are no longer required with the integrated 10-pin connection. Optimized for Spoolmate™ and Spoolmatic® spool guns.

More productive jobsites

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

Auto-Set™

Predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.



Data visibility

Productivity screens make it easier for you to monitor machine use.



Advanced Auto-Speed™

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

Easy maintenance

LCD screen allows for better visibility of routine maintenance items, making it easier to plan downtime.

Increased performance at high altitude

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

Options to Maximize Your Trailblazer® 330 Performance

Electronic fuel injection (EFI) (gas models)

Adding EFI to your Trailblazer® engine-driven welder adds multiple benefits. With EFI, you'll get faster, more-reliable starts in any weather — no choke adjustments needed. Add Excel™ power to your Trailblazer with EFI for maximum fuel efficiency.

Wireless interface control (WIC)

Work hassle-free with full engine-driven welder control in the palm of your hand.

With wireless interface control, you can change welding processes, adjust parameters, select and save preset programs, turn the machine on/off, get service reminders and more from wherever you are on the jobsite. Extend time between fill ups and maintenance intervals while eliminating the need to go back to your machine to make adjustments.

Wireless interface control is available as a factory-installed option on select models.



WIRELESS
INTERFACE CONTROL

Excel™ power

Excel™ power delivers a full 2,400 watts (20 A) of 120-volt inverter-based, sine wave power at all speeds, including idle.

Unlike competitive machines that provide auxiliary power only at 3,600 rpm (max), with Excel™ power you can operate jobsite tools like grinders at quiet, fuel-saving speeds.

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

Battery charge/crank assist

Reduce downtime with battery charge/crank assist capability.

Designed and recommended for mechanics or anyone responsible for a fleet of trucks or equipment. By using your Trailblazer to charge dead batteries or jump a stubborn engine, you'll keep your crew working and the fleet up and running. Provides up to 150 amps of DC current to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 300 amps of crank assist.

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



Heavy industrial processes

- Stick (SMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- DC TIG (GTAW)²
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons)

¹With wire feeder.

²Two-piece TIG torch recommended.

Engines

- **Gas: Rehiko CH730**
23.5 hp at 3,600 rpm
Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial
- **EFI gas: Rehiko ECH730**
23 hp at 3,600 rpm
Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial
- **EPA Tier 4 Final Diesel: Kubota D902**
24.8 hp at 3,600 rpm
Three-cylinder, liquid-cooled, industrial

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase® Feeders (pg 12-13)
- Spoolmate™ 200 (pg 21)
- Spoolmatic® (pg 22)
- ArcReach® Stick/TIG Remote (pg 55)
- Spectrum® 625 X-TREME™
- Running Gear
- Protective Cage with Cable Holders
- Protective Cover
- Full KVA Adapter Cord
- HWY-Mid Frame Trailer

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

**Electric fuel pump recommended for operation at altitudes above 5,000 feet. This feature is standard on EFI Trailblazers and sold as a kit (301741) for other gas models.*

	MODEL/STOCK NO.	WELDING PROCESS/MODE	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
GAS	Trailblazer® 330						
	907831 Rehiko with GFCI	CC: Stick/TIG	20–330 A	330 A at 30 V, 100% duty cycle	Single-phase Peak: 12,000 watts Continuous: 10,500 watts	H: 26.5 (673) H: 31.2 (792) (to top of exhaust) W: 20.13 (511) D: 37.06 (941)	400 (181)
	907831001 Rehiko with Excel™ power						
	907832 EFI Rehiko with GFCI						
	907832001 EFI Rehiko with Excel™ power						
	907832002 EFI Rehiko with Excel™ power and WIC						
DIESEL	907832003 EFI Rehiko with Excel™ power and battery charge/crank assist	CV:MIG/FCAW	15–40 V	325 A at 30.25 V, 100% duty cycle	Excel power (optional) Single-phase: 2,400 watts 20 A at 120 V, 60 Hz auxiliary power at idle speed and while welding		
	907832004 EFI Rehiko w/Excel™ power, battery charge/crank assist and WIC						
	907832006 EFI Rehiko with Excel™ power, polarity reversing and WIC						
	Trailblazer® 330 Diesel						
	907849 Kubota with GFCI	CC: Stick/TIG	20–330 A	330 A at 31 V, 100% duty cycle		H: 27.02 (686) H: 32.41 (823) (to top of exhaust) W: 20.6 (523) D: 45.72 (1,161)	611 (277)
	907849001 Kubota with Excel™ power						
	907849002 Kubota with Excel™ power and WIC	CV: MIG/FCAW	15–40 V	330 A at 30.5 V, 100% duty cycle			
	907849003 Kubota with Excel™ power and battery charge/crank assist						



Big Blue® 400 Pro

The professional welder's choice — designed with the professional in mind, the Big Blue® 400 Pro is the best for ease of use, reliability and fuel economy.

Engine-Driven



Trailer package includes

- HWY-mid frame trailer
- 2-in-1 document/fire extinguisher holder



Key features

ArcReach®

Factory-installed option on select

models. Make parameter changes at the weld joint, reducing walks to the machine. Increase arc-on time, improve your bottom line and improve jobsite safety.



Provides independent control of the fluidity of the weld puddle (arc control) and the drive of the arc (DIG range).

This delivers a tailorable and user-friendly arc to match the application, material, fit-up and welder technique.

USB port. Upload the latest software and download log files to retrieve information such as diagnostics and machine statistics.

Quiet operation. Only 71.6 decibels (96 Lwa) under full load. Improves jobsite communication and safety.

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

WIRELESS INTERFACE CONTROL

WIC is a factory-installed option on select models. Work hassle-free with full engine-driven welder control in the palm of your hand.



Heavy industrial processes

- Stick (SMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- DC TIG (GTAW)
- RMD²
- Pulsed MIG (GMAW-P)²
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons)

¹ With wire feeder.

² ArcReach® models only with ArcReach® Smart Feeder.

EPA Tier 4 Final diesel engines

- **Kubota V1505:** 20.2 hp at 1,800 rpm
- **Mitsubishi S4L2:** 24.7 hp at 1,800 rpm

Four-cylinder, liquid-cooled, industrial

Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- SuitCase® Feeders (pg 12-13)
- ArcReach® Smart Feeder (pg 12) (for ArcReach-equipped models only)
- Protective Cover

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

STOCK NO.		WELDING PROCESS/MODE	AMP/VOLT RANGES	RATED OUTPUT AT 184°F (40°C)	AUXILIARY POWER AT 184°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)				
DIESEL	907732 Kubota	CC: Stick/TIG	20–400 A	300 A at 32 V, 100% duty cycle 350 A at 27 V, 100% duty cycle 400 A at 24 V, 100% duty cycle	Single-phase Peak: 12,000 watts Continuous: 10,000 watts	H: 32 (813) H: 37 (876) (to top of exhaust) W: 26.25 (667) D: 56 (1,422)	Kubota: 950 (431) Mitsubishi: 993 (450)				
	907732001 Kubota with ArcReach®										
	907732013 Kubota with ArcReach® and WIC	CV: MIG/FCAW									
	951744 Kubota with ArcReach® trailer package										
	907733 Mitsubishi										
907733001 Mitsubishi with ArcReach®											

Big Blue® 450 Duo CST™

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

Key features

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

Quiet operation. At 71 decibels (96 Lwa) under full load, it's quieter than most single-operator models.

Vandalism lockout kit. Lockable hinged steel panel protects front control panels and ignition switch.

Simple-to-operate process select with optimized arc control settings for E6010 and E7018 electrodes for superior SMAW performance.

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



Steel panel of vandalism lockout kit is flipped up on image shown.



Heavy industrial processes

- Stick (SMAW)
- DC TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons)

EPA Tier 4 Final Diesel Engine

- **Mitsubishi S4L2:** 24.7 hp at 1,800 rpm;

Four-cylinder, liquid-cooled, industrial

Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Full KVA Adapter Cord
- Single-Phase Full KVA Plug Kit
- Protective Cover
- HWY-Mid Frame Trailer

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

	STOCK NO.	WELDING PROCESS	OUTPUT MODE	AMPERAGE RANGE	RATED OUTPUT AT 122°F (50°C)	AUXILIARY POWER AT 122°F (50°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
DIESEL	907866 Mitsubishi	DC Stick/TIG	Separate (dual outputs)	5–225 (each side) 5–280 (one side only)	175 A at 27 V, 100% duty cycle	Single-phase Peak: 10,500 watts Continuous: 8,900 watts	H: 32 (813) H: 37 (876) (to top of exhaust) W: 26.25 (667) D: 56 (1,422)	1,064 (483)
			Paralleled (combined)	10–450	350 A at 27 V, 100% duty cycle			

Big Blue® 500 Pro and 600 Series

Clean, quiet, multiprocess machines designed to provide output needed for heavy-duty applications in fabrication and on construction sites.



Engine-Driven



» Big Blue® 500 and 600 Pro



» Big Blue® 600 Air Pak™

Key features

ArcReach®

Standard on Deluxe and Air Pak™ models. Make parameter changes at the weld joint, reducing walks to the machine. Increase arc-on time, improve your bottom line and improve jobsite safety.

WIRELESS INTERFACE CONTROL

WIC is a factory-installed option on select models. Work hassle-free with full engine-driven welder control in the palm of your hand.



Electronic engine display shows the fuel level, engine hours, coolant temperature, oil pressure, battery volts, engine rpm, oil change intervals and engine diagnostics. Air Pak™ model adds air pressure and compressor hours.



DYNAMIC DIG™

Provides independent control of the fluidity of the weld puddle (arc control) and the drive of the arc (DIG range). This delivers a tailorable and user-friendly arc to match the application, material, fit-up and welder technique.

USB port. Upload the latest software and download log files to retrieve information such as diagnostics and machine statistics.

Deluxe and Air Pak™ models add polarity reversing switch and vandalism lockout kit (protects control panel and receptacles). Air Pak™ model also adds Ingersoll Rand industrial rotary screw compressor with 30,000-hour life expectancy and independent on/off control.



Heavy industrial processes

- Stick (SMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- DC TIG (GTAW)
- RMD²
- Pulsed MIG (GMAW-P)²
- Submerged arc (SAW)
- Air carbon arc cutting and gouging (CAC-A) (500: rated 5/16 in. carbons; 600: rated 3/8 in. carbons)

¹ With wire feeder.

² ArcReach® models only with ArcReach® Smart Feeder.

EPA Tier 4 Final diesel engines

- **500 and 600 Pro:** Kubota V2403 48.9 hp at 1,800 rpm
- **600 Air Pak:** Deutz TD2.9 L4 65.7 hp at 1,800 rpm

Turbo-charged, four-cylinder, liquid-cooled, industrial

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase® Feeders (pg 12-13)
- ArcReach® Smart Feeder (pg 12)³
- ArcReach® Stick/TIG Remote (pg 55)³
- ArcReach® Heater (pg 11)³
- Dynasty® 210 Series (pg 42)
- Full KVA Adapter Cord 300517
- Full KVA Plug Kit
- Protective Covers
- Remote Output Panel Kit
- HWY-225 Trailer
- Desiccant Air Dry System (Air Pak model only)
 - 195117 Side mount
 - 195117001 Rear mount
 Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates

³ For ArcReach® models only.

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

*Big Blue® 600 Series has welder truck specific models available — visit MillerWelds.com or your distributor for more information.

MODEL/STOCK NO.	WELDING PROCESS/MODE	AMP/VOLT RANGES	RATED OUTPUT AT 184°F (40°C)	AUXILIARY POWER AT 184°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
DIESEL	Big Blue® 500 Pro 907737 Kubota 907736001 Kubota Deluxe model	CC: Stick/TIG	400 A at 36 V, 100% duty cycle 450 A at 38 V, 100% duty cycle 500 A at 40 V, 100% duty cycle	Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts	H: 46 (1,168) H: 53.5 (1,359) (to top of exhaust) W: 28.5 (724) D: 69.5 (1,765)	1,750 (794)
		CV: MIG/FCAW	15–50 V			
	Big Blue® 600 Pro* 907737 Kubota 907737001 Kubota Deluxe model	CC: Stick/TIG	Pro: 500 A at 40 V, 100% duty cycle Pro: 550 A at 42 V, 60% duty cycle Pro: 600 A at 42 V, 40% duty cycle	Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts	H: 46 (1,168) H: 53.5 (1,359) (to top of exhaust) W: 28.5 (724) D: 69.5 (1,765)	Pro: 1,750 (794)
	Big Blue® 600 Air Pak* 907750 Deutz	CV: MIG/FCAW	Air Pak: 500 A at 40 V, 100% duty cycle Air Pak: 575 A at 43 V, 100% duty cycle Air Pak: 600 A at 44 V, 60% duty cycle			Air Pak: 2,040 (925)
Ingersoll Rand CE55 G1 Air Compressor (Air Pak model only)		FEATURES Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours		FREE AIR DELIVERY Idle: 40 cfm (1.13 m ³ /min.) Weld: 60 cfm (1.70 m ³ /min.)	WORKING PRESSURE CONSTANT 100 psig (7 bar)	DUTY CYCLE 100%
					OIL CAPACITY 4 qt. (3.79 L)	



Big Blue® 800 Series

The most powerful lineup of diesel engine-driven welders in the industry. Robust output for welding and auxiliary power; ideal for dual-operator applications on labor-intensive or limited-space jobsites.

Engine-Driven



» Big Blue® 800 Duo Pro



» Big Blue® 800 Duo Air Pak™

Key features

ArcReach®

Standard on all models. Make parameter changes at the weld joint, reducing walks to the machine. Increase arc-on time, improve your bottom line and improve jobsite safety.

WIRELESS INTERFACE CONTROL

WIC is a factory-installed option on select models. Work hassle-free with full engine-driven welder control in the palm of your hand.



Note: WIC-equipped Big Blue 800 Series machines include two remotes so both operators have full control of their processes and parameters.

Multi-arc welding. One dependable engine — two independent arcs with up to 400 amps each. Or plug in two XMT® inverters for a multioperator work platform with four operators, up to 200 amps each.

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

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

Electronic engine display shows the fuel level, engine hours, coolant temperature, oil pressure, battery volts, engine rpm, oil change intervals and engine diagnostics. Air Pak™ model adds air pressure and compressor hours.



DYNAMIC DIG™ Provides independent control of the fluidity of the weld puddle (arc control) and the drive of the arc (DIG range). This delivers a tailorable and user-friendly arc to match the application, material, fit-up and welder technique.

USB port. Upload the latest software and download log files to retrieve information such as diagnostics and machine statistics.

Vandalism lockout kit protects control panel and receptacles.

Air Pak™ model adds Ingersoll Rand industrial rotary screw compressor with 30,000-hour life expectancy and independent on/off control.



Heavy industrial processes

- Stick (SMAW)
- MIG (GMAW)¹
- Flux-cored (FCAW)¹
- DC TIG (GTAW)
- RMD®²
- Pulsed MIG (GMAW-P)²
- Submerged arc (SAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 1/2 in. carbons)
- Stud (1/2 in.)

¹ With wire feeder.

² With ArcReach® Smart Feeder.

EPA Tier 4 Final diesel engine

- Deutz TD2.9 L4: 65.7 hp at 1,800 rpm
Turbo-charged, four-cylinder, liquid-cooled, industrial

Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- SuitCase® Feeders (pg 12-13)
- ArcReach® Smart Feeder (pg 12)³
- ArcReach® Stick/TIG Remote (pg 55)³
- ArcReach® Heater (pg 11)³
- Dynasty 210® Series (pg 42)
- Full KVA Adapter Cord 300517
- Full KVA Plug Kit
- Protective Covers
- Remote Output Panel Kit
- HWY-225 Trailer
- Desiccant Air Dry System (Air Pak model only)
195117 Side mount
195117001 Rear mount
Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates

³ For ArcReach® models only.

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

*Big Blue 800 Duo Air Pak has welder truck specific models available — visit MillerWelds.com or your distributor for more information.

MODEL/STOCK NO.*		WELDING PROCESS/MODE	OUTPUT MODE	AMP/VOLT RANGES	RATED OUTPUT AT 100% DUTY CYCLE AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
DIESEL	Big Blue® 800 Duo Pro 907751 Deutz	CC: Stick/TIG	Separate (dual outputs)	20–400 A	400 A at 36 V (each side)	Three-phase Peak: 27,000 watts Continuous: 20,000 watts	H: 46 (1,168) H: 53.5 (1,359) (to top of exhaust) W: 28.5 (724) D: 69.5 (1,765)	Duo Pro: 1,869 (848) Duo Air Pak: 2,095 (968)
			Paralleled (combined)	40–800 A	700 A at 44 V, 800 A at 38 V			
	Big Blue® 800 Duo Air Pak™ 907752 Deutz 907752003 Deutz with WIC	CV: MIG/FCAW	Separate (dual outputs)	15–50 V	400 A at 34 V (each side)	Single-phase Peak: 15,000 watts Continuous: 12,000 watts		
			Paralleled (combined)	15–50 V	750 A at 40 V, 800 A at 38 V			
Ingersoll Rand CE55 G1 Air Compressor (Air Pak model only)		FEATURES		FREE AIR DELIVERY		WORKING PRESSURE CONSTANT	DUTY CYCLE	OIL CAPACITY
		Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours		Idle: 40 cfm (1.13 m ³ /min.) Weld: 60 cfm (1.70 m ³ /min.)		100 psig (7 bar)	100%	4 qt. (3.79 L)

Dynasty® 210/300 Series AC/DC TIG and Stick



TIG (GTAW)



» Dynasty® 210



» Dynasty® 300

TIG Welding Capability

MAX. 1/4 in. (6.4 mm)	
Dynasty 210 Steel	Dynasty 210 Aluminum
MIN. 0.002 in. (0.05 mm)	MIN. 0.012 in. (0.3 mm)
MAX. 3/8 in. (9.5 mm)	
Dynasty 300 Steel	Dynasty 300 Aluminum
MIN. 0.004 in. (0.1 mm)	MIN. 0.012 in. (0.3 mm)



See page 55

Key features

Intuitive LCD display. Ensures proper machine setup and parameter selection. Informative on-screen explanations and dynamic images enhance the parameter selection process.

Program memory features 99 independent program memories that maintain/save your parameters.

Locks and limits provide control of weld parameter ranges.

USB. Front panel port provides the ability to easily update software, back-up settings and transfer saved weld programs from one unit to the next.

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (210: 120–480 V, 300: 208–600 V) with no manual linking.

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

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

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

QUIETPULSE™ DC pulse welding waveshape is changed to create a slower, more fluid transition between the background and peak amperage, resulting in lower audible noise.

Pro-Set™ eliminates the guesswork when setting weld parameters.

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

Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds.

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

Optional cooler power supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 1.3.

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



Industrial processes

- TIG (GTAW)
- Stick (SMAW)
- Pulsed TIG (GTAW-P)
- Air carbon arc (CAC-A) with 300 model

Comes with

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

TIGRunner® includes above plus

- Small Runner™ Cart
- Coolmate™ 1.3

Complete package includes above plus

- Coolant (four 1-gallon bottles)
- Wireless remote foot control
- Weldcraft™ water-cooled torch kit
Dynasty 210: W-250
Dynasty 300: W-280

Most popular accessories

- 2-Wheel Trolley Cart 300971
- Small Runner™ Cart 301615
- Coolmate™ 1.3 301616
- Coolant 043810
- Contractor Kits
301309 A-150 w/RFCs-14 HD
301311 A-150 w/RCCS-14
301549 A-200 w/RFCs-14 HD
301550 A-200 w/RCCS-14



- **Weldcraft™ Water-Cooled Torch Kits**
301268 W-375
300186 W-400 (WP-18SC)
- Remote Controls (pg 55)
043688 RCCS-14 fingertip control
301589 RFCs-14 HD foot control
301580 Wireless foot control

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

*Additional packages are available — visit MillerWelds.com or your distributor.

**Refer to owner's manual for complete ratings.

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

MODEL/STOCK NO.*	WELDING PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT AT 60% DUTY CYCLE	AMPS INPUT AT 120 V	AMPS INPUT AT 208 V	AMPS INPUT AT 240 V	AMPS INPUT AT 400 V	AMPS INPUT AT 460 V	AMPS INPUT AT 480 V	AMPS INPUT AT 600 V	KVA	KW	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
Dynasty® 210 907816 Power source only 907816001 Power source w/CPS 907816002 TIGRunner w/CPS 951936 Complete w/CPS	TIG	3-phase	1–210 A	210 A at 18.4 V	—	16	14	8	—	7	—	5.7	5.2	80 VDC (22–30***)	H: 13.88 (352) W: 8.5 (216) D: 21.88 (555)	47 (21.3) 50 (22.7) with CPS
		1-phase	1–210 A	210 A at 18.4 V	—	28	23	14	—	12	—	5.8	5.6			
		1-phase (120 V)	1–150 A	125 A at 15 V	26	—	—	—	—	—	—	2.8	2.7			
	Stick	3-phase	5–210 A	160 A at 26.4 V	—	16	14	9	—	8	—	6.0	5.8			
		1-phase	5–210 A	160 A at 26.4 V	—	28	24	14	—	12	—	6.4	5.5			
		1-phase (120 V)	5–100 A	90 A at 23.6 V	27	—	—	—	—	—	—	2.9	2.8			
Dynasty® 300 907818 Power source w/CPS 907818002 TIGRunner w/CPS 951937 Complete w/CPS	TIG	3-phase	2–300 A (AC) 1–300 A (DC)	250 A at 20 V	—	19	16	10	8	—	7	7.5	6.6	80 VDC (22–30***)	H: 13.88 (352) W: 8.5 (216) D: 21.88 (555)	55 (25) with CPS
		1-phase	2–300 A (AC) 1–300 A (DC)	250 A at 20 V	—	33	29	17	15	—	11	6.7	6.7			
	Stick	3-phase	5–300 A	250 A at 30 V	—	**	**	14	12	—	9	9.8	9.1			
		1-phase	5–300 A	200 A at 27.2 V	—	35	31	**	**	—	**	9.3	9.2			



Maxstar® 161 STL and STH

DC TIG and Stick

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

TIG (GTAW)



Maxstar® 161 STH TIG/stick package with remote fingertip control shown — includes X-CASE.

TIG Welding Capability

MAX. 3/16 in. (4.8 mm)

Steel

MIN. 0.020 in. (0.5 mm)

Key features

Two models available

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



Allows for any input voltage hookup (120–240 V) with no manual linking.

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

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

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

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



Industrial processes

- TIG (GTAW)
- Stick (SMAW)
- DC pulsed TIG (GTAW-P) with STH model

Comes with

- 6.5 ft. (2 m) power cords for 120 V and 240 V
- 13 ft. (4 m) electrode cable with holder and 25 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector
- Air-cooled TIG torch connector
- Adjustable handle/shoulder strap
- Quick-reference guide

TIG/stick packages include above plus

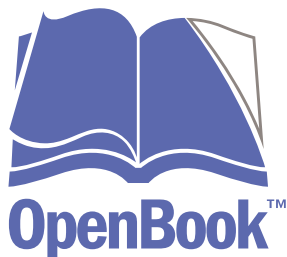
- 12.5 ft. (3.8 m) Weldcraft™ A-150 TIG torch (WP1712RDI25)
- Protective X-CASE™ (301429)
- Flow gauge regulator with hose
- AK2C TIG torch accessory kit
- RCCS-6M remote fingertip control (packages 907710002 and 907711001 only)

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

*Sense voltage for stick and Lift-Arc TIG.

Note: See page 56 in the Stick section for Maxstar 161 S.

MODEL/STOCK NO.	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 IN. (MM)	NET WEIGHT LB. (KG)
Maxstar® 161 STL	TIG	120 V	5–130 A	130 A at 15.2 V, 30% duty cycle	22.6	2.73	2.70	48 VDC (12–16 VDC*)	H: 10.3 (262) W: 5.6 (142) D: 13.5 (343)	13 (5.9)
907710 Power source only		240 V	5–160 A	160 A at 16.4 V, 20% duty cycle	15.05	3.62	3.49			
907710001 TIG/stick package	Stick	120 V	20–90 A	90 A at 23.6 V, 30% duty cycle	23.16	2.78	2.76			
907710002 TIG/stick package with remote fingertip control		240 V	20–160 A	160 A at 26.4 V, 20% duty cycle	22.55	5.41	5.25			
Maxstar® 161 STH										
907711 Power source only										
907711001 TIG/stick package with remote fingertip control										



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 - Customizable certificates of completion
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 - Quiz builder
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- All material aligns with AWS standards

Motivate and engage students

- Interactive, stimulating learning includes videos and activities
- Quick, digestible segments
- Mobile friendly
 - Easy to access homework from anywhere
 - Students can check grades and status
- Ideal for high school and post-secondary welding programs

For more details on educational resources, visit MillerWelds.com/education

Maxstar® 210/280 Series DC TIG and Stick



» Maxstar® 210



» Maxstar® 280 DX

TIG Welding Capability

MAX. 1/4 in. (6.4 mm)	MAX. 3/8 in. (9.5 mm)
Maxstar 210 Steel	Maxstar 280 Steel
MIN. 0.002 in. (0.05 mm)	MIN. 0.004 in. (0.1 mm)



See page 55

Key features

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

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (210: 120–480 V, 280: 208–575 V) with no manual linking.

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

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

Adaptive Hot Start™ provides positive arc starts without sticking.

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

QUIETPULSE™ DC pulse welding waveshape is changed to create a slower, more fluid transition between the background and peak amperage, resulting in lower audible noise.

Machines manufactured after serial number ND040985L include QuietPulse™. Those manufactured before can be updated with QuietPulse™ Expansion Memory Card (301790).

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

Optional cooler power supply (CPS) (available on Maxstar® 280 only) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 1.3.

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



Industrial processes

- TIG (GTAW)
- Stick (SMAW)
- Pulsed TIG (GTAW-P)
- Air carbon arc (CAC-A) with 280 model

Comes with

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

TIGRunner® includes above plus

- Small Runner™ Cart
- Coolmate™ 1.3

Most popular accessories

- 2-Wheel Trolley Cart 300971
- Small Runner™ Cart 301615
- Coolmate™ 1.3 301616
- Coolant 043810



Contractor Kits

- 301309 A-150 w/RFCs-14 HD
- 301311 A-150 w/RCCS-14
- 301549 A-200 w/RFCs-14 HD
- 301550 A-200 w/RCCS-14



Weldcraft™ Water-Cooled Torch Kits

- 300185 W-250 (WP-20)
- 300990 W-280 (WP-280)
- 301268 W-375

Remote Controls (pg 55)

- 043688 RCCS-14 fingertip control
- 301589 RFCS-14 HD foot control
- 301580 Wireless foot control

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

*Refer to owner's manual for complete ratings. **Sense voltage for low OCV stick and Lift-Arc TIG.

Note: See page 46 in the Stick section for Maxstar® 210 STR and see page 19 in the Multiprocess section for Maxstar® 280 Multiprocess.

MODEL/STOCK NO.	WELDING PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT AT 60% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT, 50/60 HZ	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
Maxstar® 210 907683 Power source only Maxstar® 210 DX 907684 Power source only	TIG	3-phase	1–210 A	210 A at 18.4 V	— 14 — 12 7 — 6 — 5.2 4.9	80 VDC (11 VDC**)	H: 13.6 (346) W: 8.6 (219) D: 19.5 (495)	38 (17.2)
		1-phase	1–210 A	210 A at 18.4 V	— 24 — 20 12 — 10 — 4.9 4.9			
		1-phase (120 V)	1–150 A	125 A at 15 V	22 — — — — — 2.6 2.6			
	Stick	3-phase	5–210 A	160 A at 26.4 V	— 15 — 13 8 — 6 — 5.5 5.2			
		1-phase	5–210 A	160 A at 26.4 V	— 26 — 22 13 — 11 — 5.3 5.3			
		1-phase (120 V)	5–100 A	90 A at 23.6 V	23 — — — — — 2.8 2.8			
Maxstar® 280 907552 Power source only 907538 Power source w/CPS 907538002 TIGRunner w/CPS Maxstar® 280 DX 907553 Power source only 907539 Power source w/CPS 907539001 TIGRunner w/CPS	TIG	3-phase	1–280 A	250 A at 20 V	— 21 19 — 11 9 — 7 7.6 7.3	60 VDC (11 VDC**)	H: 13.6 (346) W: 8.6 (219) D: 22.5 (569)	47 (21.3) 50 (22.7) with CPS
		1-phase	1–280 A	250 A at 20 V	— 35 32 — 18 16 — 13 7.3 7.1			
		1-phase (120 V)	1–280 A	250 A at 20 V	— 35 32 — 18 16 — 13 7.3 7.1			
	Stick	3-phase	5–280 A	250 A at 30 V	— * * — 14 13 — 10 9.9 9.6			
		1-phase	5–280 A	180 A at 27.2 V	— 32 29 — * * — * 6.7 6.5			
		1-phase (120 V)	5–280 A	180 A at 27.2 V	— 32 29 — * * — * 6.7 6.5			



CST® 282

Durable power source designed for the construction industry. Ideal for stick electrodes up to 3/16-inch and TIG welding of pipe and plate.

Stick (SMAW)



CST® 282 with Tweco®-style receptacles shown.



See page 55

Key features

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (208–575 V, 1- or 3-phase) with no manual linking. Ideal solution for dirty or unreliable power.

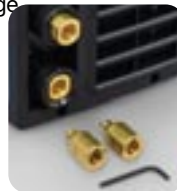
Superior stick arc performance even on the difficult-to-run electrodes like E6010.

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

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

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

Universal connector system allows the machine to be quickly configured to Tweco®, Dinse- or Cam-Lok™-style receptacles.



Industrial process

- Stick (SMAW)
- TIG (GTAW)

Comes with

- 6 ft. (1.8 m) power cord

Most popular accessories

- CST® 282 Rack (see below)
- Remote Controls (pg 55)
- Universal Connector Kits
 - 301611 Tweco-style
 - 301595 Dinse-style
 - 301637 Cam-Lok-style
- For TIG torches see literature DC/29.6

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

STOCK NO.	WELDING PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ					KVA	KW	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
					208 V	230 V	400 V	460 V	575 V					
907770 Tweco®	Stick	3-phase	30–280 A	280 A at 31.2 V, 35% duty cycle	29.63	26.65	15.71	13.92	12.08	12	10.2	103 VDC	H: 13.5 (343) W: 8 (203) D: 18.5 (470)	34.6 (15.7)
				200 A at 28 V, 100% duty cycle	18.86	17.09	10.6	9.37	8.02	8	6.4			
		1-phase	30–280 A	200 A at 28 V, 50% duty cycle	33.7	30.65	17.61	16.18	14.51	8.3	6.6			
				150 A at 26 V, 100% duty cycle	23.07	20.59	12.97	11.8	11.15	6.4	4.5			
907810 Dinse	TIG	3-phase	5–280 A	280 A at 21.2 V, 35% duty cycle	20.77	18.85	11.54	10.22	8.95	8.9	7.1	9.5 VDC		
				200 A at 18 V, 100% duty cycle	12.89	11.74	7.42	6.55	5.49	5.4	4.3			
		1-phase	5–280 A	200 A at 18 V, 50% duty cycle	22.12	19.71	12.89	11.06	10.61	6.1	4.4			
				150 A at 16 V, 100% duty cycle	14.84	13.38	8.73	8.63	7.72	5.1	2.9			

CST® 282 Racks

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



4-pack rack (left) and 8-pack rack (right) shown.



See page 55

Key features

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

All controls including power switch are on front of machine.

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

Lift truck fork pockets.

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

Racks include 5-inch diameter casters that can be bolted to the rack base. Two swivel casters and two non-swivel casters.



Heavy industrial processes

- Stick (SMAW)
- TIG (GTAW)

Comes with

- Cables to connect power sources to common work connection
- 5-inch casters

Most popular accessories

- Remote controls (pg 55)
- For TIG torches see literature DC/29.6

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

Note: For additional rack systems see XMT® ArcReach® Racks on page 15.

MODEL	STOCK NO.	RACK CAPACITY	INPUT POWER	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			KVA	KW	DIMENSIONS H x W x D (INCLUDES LIFT EYE)	NET WEIGHT LB. (KG)
				230 V	460 V	575 V			IN. (MM)	
4-Pack Rack	951883 Tweco®	4 units	208–575 V, 3-phase, 50/60 Hz (fused for 460 V)	106.5	56	48.5	48	40.8	50.75 x 25.5 x 26.5 (1,289 x 648 x 673)	330 (150)
8-Pack Rack	907812 Tweco®	8 units		213	112	97	96	81.6	59.38 x 43 x 34.38 (1,508 x 1,092 x 873)	550 (250)
Empty Rack	951934	4 units	—	—	—	—	—	—	Same as 4-pack rack above	166 (75)
	301610	8 units							Same as 8-pack rack above	280 (127)

Maxstar® 161 S

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



Maxstar® 161 S with X-CASE shown.

Key features



Allows for any input voltage hookup (120–240 V) with no manual linking.

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

Adaptive Hot Start™ provides positive arc starts without sticking.

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

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



Industrial process

- Stick (SMAW)

Comes complete with

- 6.5 ft. (2 m) power cords for 120 V and 240 V
- 13 ft. (4 m) electrode cable with holder and 2 5 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector
- Adjustable handle/shoulder strap
- Quick-reference guide

907709001 includes above plus

- Protective X-CASE™

Most popular accessories

- Protective X-CASE™ 301429

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

*Sense voltage for stick.

Note: See page 43 in the TIG section for Maxstar® 161 STL and STH.

STOCK NO.	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 IN. (MM)	NET WEIGHT LB. (KG)
907709 907709001 With X-CASE™	120 V	20–90 A	90 A at 23.6 V, 30% duty cycle	23.2	2.8	2.8	48 VDC	H: 10.3 (262) W: 5.6 (142) D: 13.5 (343)	13 (5.9)
	240 V	20–160 A	160 A at 26.4 V, 20% duty cycle	22.6	5.4	5.3	(12–16 VDC*)		

Maxstar® 210 STR

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



Key features



Allows for any input voltage hookup (120–480 V) with no manual linking, providing convenience in any job setting.

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

Dual schedule allows switching between welding parameters for specific electrodes without readjusting the machine.

Adaptive Hot Start™ provides positive arc starts without sticking.

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

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

Remote amperage control.



Industrial processes

- Stick (SMAW)
- TIG (GTAW)

Comes complete with

- 8 ft. (2.4 m) power cord (no plug)
- Two 50 mm Dinse-style connectors
- Adjustable handle/shoulder strap

Most popular accessories

- 12.5 ft. (3.8 m) Weldcraft™ A-150 Valve TIG torch WP-17V-12-2
- Air-Cooled TIG Torch Connector
- Remote Controls (pg 55)

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

*Sense voltage for stick and Lift-Arc TIG.

Note: See page 44 in the TIG section for Maxstar® 210 Series.

STOCK NO.	WELDING PROCESS	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT AT 60% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT, 50/60 HZ 120 V 208 V 240 V 400 V 480 V KVA KW							MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
907682	Stick	3-phase	10–210 A	160 A at 26.4 V	—	15	13	8	6	5.5	5.2	80 VDC (11 VDC*)	H: 13.6 (346) W: 8.6 (219) D: 19.5 (495)	36 (16.3)
		1-phase	10–210 A	160 A at 26.4 V	—	26	22	13	11	5.3	5.3			
		1-phase (120 V)	10–100 A	90 A at 23.6 V	23	—	—	—	—	2.8	2.8			
	TIG	3-phase	10–210 A	210 A at 18.4 V	—	14	12	7	6	5.2	4.9			
		1-phase	10–210 A	210 A at 18.4 V	—	24	20	12	10	4.9	4.9			
		1-phase (120 V)	10–150 A	125 A at 15 V	22	—	—	—	—	2.6	2.6			



Safety Products

The Miller focus has always been welding — understanding welders, their needs and the safety products used within their work environments.

We provide multiple solutions for weld fume control that fulfill each level of OSHA's hierarchy of controls. We will help you get maximum productivity out of each welder while keeping them comfortable and improving compliance. Our complete line of Weld Environment, Head and Face, and Hand and Body protection is designed to perform in demanding welding, cutting and grinding applications.

Fume Extractors

Our line of FILTAIR® fume extractors are designed specifically for welding — drawing weld fumes away from the user's breathing zone and helping keep facilities clean. We offer many types of fume extraction equipment to best fit your environment. For more information, visit MillerWelds.com/filtair

Increasing Effectiveness



Level 1
Process Modification/Substitution



Level 2
Engineering Controls



Level 3
Work Practice Controls



Level 4
Personal Protective Equipment
OSHA 29 CFR 1910.134

	MODEL	PAGE	EXTRACTOR TYPE	FILTER TYPE	WELDING ARCS	ZONEFLOW™ TECHNOLOGY	IDEAL FOR
HIGH-VACUUM	FILTAIR® 130	47	Portable	Manual cleaning	1	—	Light fabrication and manufacturing, contractors, MRO
	FILTAIR® 215	49	Mobile	Self-cleaning	Up to 4 per unit	—	Heavy industrial fabrication and fume guns/long distance extraction
HIGH-VOLUME	FILTAIR® MWX	48	Mobile	MWX-D: Disposable MWX-S: Self-cleaning	1	—	Fabrication shops, manufacturing and training centers
	FILTAIR® Capture 5	48	Mobile — up to 5-foot capture zone	Self-cleaning (automatic)	1	Standard (see pg 107)	Fabrication shops and manufacturing — the best solution for large weldments
	FILTAIR® SWX		Stationary — suited for wall or column mounting	SWX-D: Disposable SWX-S: Self-cleaning	Up to 2 per unit	Option (see pg 107)	Fabrication shops, manufacturing and training centers with dedicated weld areas
	FILTAIR® 4000–12000		Centralized, customizable systems	Self-cleaning (auto/programmable)	Up to 18 per unit	Option (see pg 107)	Fabrication shops, manufacturing (hand-held and automation) and training centers
PURIFIER	FILTAIR® Purifier		Standing/stationary — can be relocated	Self-cleaning (auto/programmable)	—	—	Fabrication shops, manufacturing, large industrial, schools and training centers

FILTAIR® 130

Portable, high-vacuum weld fume extractor designed for use with accessories like nozzles and fume guns to collect weld fume particulate at the source.



Key features

Superior filters. The MERV 15 rating of our FilTek® XL filters provides superior filtering of up to 95 percent of weld fume particulate.

Excellent filtering performance. Weld fume particulate is captured with a cleanable filter and deposited in the integrated particulate bin.

Airflow of 132 cfm with variable flow control to adequately capture fume with fume guns or nozzle.

Less noise. Only 68.5 decibels at five feet.

Portable and compact. At only 46 pounds (21 kg) the vertical-shaped machine is easy to move around.

Processes

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

Comes with

- FilTek® XL filter
- 8 ft. (2.4 m) collection hose
- 20 ft. (6 m) power cord

Most popular consumables and accessories

- Bernard® Clean Air E™ Fume Extraction MIG Gun (pg 26)
- FilTek® XL Filter 301267
- Collection Hose
300896 17 ft. (5.2 m)
300897 34 ft. (10.4 m)
- Slotted Magnetic Nozzle 300895
- Flexible Funnel Magnetic Nozzle 300668

STOCK NO.	INPUT POWER	FILTER MEDIA	NOMINAL AIRFLOW	SOUND LEVEL	MOTOR	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
300595	115 V, 1-phase, 60 Hz at 11.25 A	31 sq. ft. (2.88 sq. m)	132 cfm (62 L/sec.)	68.5 dBA at 5 ft. (1.5 m)	1.27 kW	H: 23 (584) W: 12 (305) D: 12 (305)	46 (21)
951860 With flexible funnel magnetic nozzle							

FILTAIR® MWX Series

FILTAIR® Capture 5

Mobile fume extraction systems easily positioned near the weld area and designed specifically for welding. Disposable or self-cleaning filter models for multiple applications.



» MWX-S

Self-cleaning model shown with 10 ft. extraction arm.



» Capture 5

Shown with 12 ft. ZoneFlow™ extraction arm.

Key features

Source capture. Designed to draw weld fume away from the welder's breathing zone and help keep the facility clean.

Superior filters. The MERV 15 rating of our FilTek® XL filters provides superior filtering of up to 95 percent of weld fume particulate.

Class-leading nominal suction power of 1,200 cfm to better capture weld fumes and provide a cleaner environment.

Durable aluminum pre-assembled extraction arm with external adjustments for better airflow and longer life.

Self-cleaning models additional features

Upgrade to self-cleaning models for high arc-on time, extracting from heavy fume processes, or when welding aluminum or galvanized materials.

Quick and efficient cleaning cycle operates with a push of a button on the control panel to clean the filter from the inside out.

Note: Compressed air required to operate cleaning mechanism.

Disposal drawer provides easy and convenient access to empty out collected particulate. Handle releases drawer allowing it to slide out.

Capture 5 model additional features

EXCLUSIVE! ZoneFlow™ technology. Extends the capture zone up to five feet versus up to 18 inches with conventional source capture arms. See page 107 for more information.

Minimizes downtime with fewer fume extractor adjustments. With increased capture area, arm interactions are minimized.

Processes

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

Comes with

- FilTek® XL filter
- Pre-assembled arm

Most popular consumables and accessories



- **FilTek XL Filters**
300539 For MWX (disposable)
300540 For MWX (self-cleaning)
301106 For Capture 5 (self-cleaning)
Filters efficiently capture weld fume particulate and offer superior filter life



- **Hood Light with Arc Sensor**
300689 For MWX Series
Illuminates the welding zone and enables the fume extractor to start automatically when welding begins

Safety and Health

MODEL/STOCK NO.		INPUT POWER	FILTER MEDIA	EXTRACTION ARM DIAMETER	NOMINAL AIRFLOW	SOUND LEVEL	MOTOR	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
MWX-D (Disposable Filter) 951507 7 ft. standard arm 951508 10 ft. standard arm 951509 12 ft. standard arm	MWX-S (Self-Cleaning) 951510 7 ft. standard arm	115 V, 1-phase, 60 Hz at approximately 11.9 A	490 sq. ft. (45.52 sq. m)	8 in. (203 mm)	1,200 cfm (566 L/sec.)	Approximately 70 dBA at 5 ft. (1.5 m)	1 hp, 3,450 rpm	H: 34.75 (883) W: 31.75 (806) D: 48 (1,219)	MWX-D: 238 (108)
	951511 10 ft. standard arm								MWX-S: 300 (136)
	951512 12 ft. standard arm								
Capture 5 (Self-Cleaning) 951639 208/230 V, 10 ft. ZoneFlow arm 951640 208/230 V, 12 ft. ZoneFlow arm 951574 460 V, 10 ft. ZoneFlow arm 951575 460 V, 12 ft. ZoneFlow arm		208/230 V, 1-phase, 60 Hz at 14.6/13.5 A 460 V, 3-phase, 60 Hz at 3.7 A	452 sq. ft. (42 sq. m)	10 in. (254 mm)	1,200 cfm (566 L/sec.)	Approximately 77 dBA at 5 ft. (1.5 m)	3 hp, 3,450 rpm	H: 43 (1,092) W: 36 (915) D: 48 (1,219)	660 (300) with 12 ft. arm



FILTAIR® 215

Industrial, high-vacuum weld fume extractor designed for use with accessories like fume guns and nozzles to collect weld fume particulate at the source.



FILTAIR® 215 shown with four collection hoses, two Y-adapters (sold separately) and two machine-to-Y-adapters (sold separately).

Only one 8-foot collection hose is included with unit. See accessories list at right for attachment options.

Key features

Use up to four fume guns or two nozzles (sold separately) simultaneously with a maximum of 136 feet of total hose length.

Adjustable flow control optimizes weld fume source capture when combined with collection hoses and accessories.

Superior filters. The MERV 16 rating of our FilTek® XL filters provides superior filtering of 95 percent or more of weld fume particulate.

Capable of holding dual wire feeder and fume guns with convenient hose/gun storage handles.



Particulate disposal bin is easy to access with handles that release drawer located on back of the machine.

Bag-out filter change provides a clean and convenient filter replacement process.

Quick and efficient cleaning cycle automatically activates when needed, or manually starts with a push of a button on the control panel to clean the filter from the inside out.

Note: Compressed air required to operate cleaning mechanism.

Filter cleaning gauge indicates when filter needs to be cleaned.

Optional auto start-stop (sold separately). Fume extractor remains off until the sensor detects torch activity, maximizing energy savings and extending filter life.

Capable of holding dual wire feeder and fume guns with convenient hose/gun storage handles.

Processes

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

Comes with

- FilTek® XL MERV 16 filter
- 8 ft. (2.4 m) collection hose

Most popular consumables and accessories

- Bernard® Clean Air E™ Fume Extraction MIG Gun (pg 26)



- **FilTek® XL Filter 301675**
Self-cleaning MERV 16 filter efficiently captures weld fume particulate and offers superior filter life — includes eight magnetic pegs and plastic bag to aid in removal of used filter

- **Collection Hose**
300896 17 ft. (5.2 m)
300897 34 ft. (10.4 m)

- **Slotted Magnetic Nozzle 300895**
12 in. (305 mm) width



- **Flexible Funnel Magnetic Nozzle 300668**



- **Y-Adapter 301743**

- **Machine-To-Y-Adapter 295743**

- **Hose-To-Hose-Connector 295907**

- **Auto Start-Stop 292774**



MODEL/STOCK NO.	INPUT POWER	FILTER MEDIA	NOMINAL AIRFLOW (VARIABLE)	SOUND LEVEL	MOTOR	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
301842 230 V	230 V, 1-phase, 60 Hz at 26 A	75 sq. ft. (7 sq. m)	215 cfm (101 L/sec.)	Low: 67–70 dBA at 5 ft. (1.5 m) High: 78–80 dBA at 5 ft. (1.5 m)	5.5 hp, 4.0 kW	H: 30 (762) W: 22 (559) D: 46 (1,168)	390 (177)
301674 460 V	460 V, 3-phase, 60 Hz at 9.2 A						
301879 575 V	575 V, 3-phase, 60 Hz at 7.0 A						

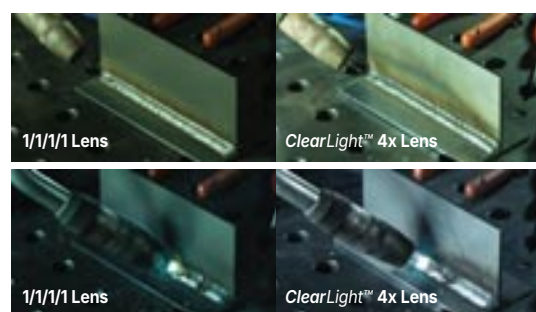
Auto-Darkening Welding Helmets



Safety and Health

	T94i™ XL	T94i™	T94™	Digital Infinity™	Digital Elite™	Digital Performance™	Classic VSi™	Classic VS	Classic FS#10 Flip-Up
VIEWING AREA	13 sq. in.	9 sq. in.	9 sq. in.	Largest Viewing Area 13.4 sq. in.	9.2 sq. in.	7.2 sq. in.	5.9 sq. in.	6 sq. in.	5.1 sq. in.
LENS TECHNOLOGY	ClearLight™ 2.0	ClearLight™ 4x	ClearLight™ 4x	ClearLight™ 4x	ClearLight™ 4x	ClearLight™ 4x	ClearLight™	ClearLight™	ClearLight™
MODES	Weld/Cut/X-Mode/Flip grind	Weld/Cut/X-Mode/Flip grind	Weld/Cut/X-Mode/External grind	Weld/Cut/X-Mode/Grind	Weld/Cut/X-Mode/Grind	Weld/Cut/Grind	Weld/X-Mode/Flip grind	Weld/Cut/Grind	Weld/Flip grind
SHADES	Weld: 8-14 Cut: 5-8 Grind: 3	Weld: 8-13 Cut: 5-8 Grind: 2.5	Weld: 8-13 Cut: 5-8 Grind: 2.5	Weld: 8-13 Cut: 5-8 Grind: 2.5	Weld: 8-13 Cut: 5-8 Grind: 2.5	Weld: 8-13 Cut: 5-8 Grind: 2.5	Weld: 8-13	Weld: 8-13 Cut: 5-8 Grind: 3	Weld: 10
SENSORS	4	4	4	4	4	3	3	2	2
TIG RATING	3 amps	3 amps	3 amps	5 amps/below	5 amps/below	5 amps	5 amps/below	5 amps/below	20 amps
SWITCHING SPEED	1/25,000 sec.	1/25,000 sec.	1/25,000 sec.	1/25,000 sec.	1/25,000 sec.	1/25,000 sec.	1/20,000 sec.	1/23,000 sec.	1/3,600 sec.
PREMIUM HEADGEAR	Gen. IV	Gen. IV	Gen. IV	Legacy	Legacy	Legacy	Gen. I	Gen. I	Gen. I
WEIGHT	28 oz. (794 g)	25 oz. (714 g)	20.5 oz. (580 g)	21.4 oz. (607 g)	21.4 oz. (607 g)	19.7 oz. (558 g)	23 oz. (652 g)	16 oz. (454 g)	14 oz. (396 g)
WARRANTY	4 years	4 years	4 years	4 years	4 years	4 years	3 years	3 years	3 years

Key features



ClearLight™ 4x Lens Technology offers up to four times the clarity compared to welding helmets with 1/1/1 as per official USA ANSI certification of lens visibility with 2.5 light state.



AutoSense™ senses your welding environment to automatically set helmet sensitivity.



High-Definition View (HDV) technology provides a sharp detailed view at any angle with minimal distortion.



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



InfoTrack™ 2.0 data monitoring technology tracks arc time and arc count.



Auto-on/off. Lens automatically turns on at the strike of an arc.



Half-shade settings for precise lens adjustment.



Memory function provides ability to switch between two preset customized memory settings.



Digital controls allow for precise lens adjustments to shade, delay, and sensitivity.

T94™ Series Maximized comfort, visibility and productivity for the professional welder.



* ClearLight™ 4x only applies to T94™ and T94i™





Respiratory

SAR Systems



Straight air hose

Coiled air hose

Key features

C50 air regulator cools Grade-D breathing air by up to 50 degrees Fahrenheit (28°C) under your hood, heightening productivity and relieving heat stress (performance under different applications may vary). Lightweight and versatile, it can be positioned horizontally or vertically to naturally align with body movements, and 360-degree swivel air hose connection alleviates hose coiling, reducing trip hazards.

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

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

Enhanced comfort, cooling and visibility maximize all-day wearability.

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

See page 50 for helmet features

T94i-R™ SAR

SAR (Supplied Air Respirator) systems consist of C50 air regulator, belt assembly, breathing tube, breathing tube cover, flowmeter, tool bag and T94i-R™ helmet assembly (see packages above).

- NIOSH 42 CFR 84 certified, assigned protection factor of 25. To provide a NIOSH-approved respiratory system, the SAR with T94i-R™, T94i-R™ XL, an T941H-R™ must be used with Miller® helmet, hoses, connectors, filters and other components recommended by Miller

With T94i-R™ helmet (integrated clear grind shield)
292748 With *ClearLight™* 4x auto-darkening lens assembly

Air hoses (must be ordered separately)

- 270405** 25 ft. straight air hose
- 270407** 100 ft. straight air hose
- 270408** 25 ft. coiled air hose
- 270410** 100 ft. coiled air hose

- **IMPORTANT:** To be NIOSH compliant you must pair the helmet packages with one of the air hoses and fittings.

Also available

BreatheAir™ portable box
275983 Two person, 10 ppm alarm
275985 Four person, 10 ppm alarm. Supplies Grade-D breathing air while monitoring for CO.

Monitor calibration kit
275988 10 ppm



BreatheAir™ panel
275961 Two person, 10 ppm alarm
275970 Four person, 10 ppm alarm. Supplies Grade-D breathing air while monitoring for CO.

Monitor calibration kit
275988 10 ppm



Half Mask Respirators



LPR-100™ Gen. II Series Half Mask Respirator

- 294961** Small/medium respirator with P100 filters
- 294962** Medium/large respirator with P100 filters
- 295273** Small/medium respirator with P100 nuisance level OV relief filters
- 295274** Medium/large respirator with P100 nuisance level OV relief filters

Filters and accessories

- 294963** P100 filters (one pair)
- 294964** P100 nuisance level OV relief filters (one pair)
- 294965** Hard carrying case (for LPR-100 Gen. II)
- 298192** Quantitative fit test adapters (two pack)
- Low-profile design fits under T94™, Digital Elite™, Classic and MP-10™ welding helmets, as well as the Weld-Mask™, providing maximum field of vision
- P100 filters provide up to 99.97 percent filtration of airborne particulates
- Advanced filters provide up to 55 percent less breathing resistance
- Nuisance level OV relief filters are designed for use with organic vapor concentrations not exceeding OSHA's PELs or other applicable government occupational exposure limits, whichever is lower
- NIOSH 42 CFR 84 certified, assigned protection factor of 10



LPR-100™ OV Half Mask Respirator

- ML00996** Small/medium respirator with P100 organic vapor filters
- ML00997** Medium/large respirator with P100 organic vapor filters

Filters and accessories

- SA00820** P100/OV filters (one pair)
- 285686** Protective hard carrying case
- 261086** Quantitative fit-test kit adapter
- Low-profile design fits under T94™ and Digital Elite™ welding helmets and provides maximum field of vision
- P100/OV filters provide up to 99.97 percent filtration of specific organic vapors and airborne particulates
- NIOSH 42 CFR 84 certified, assigned protection factor of 10

Weld-Mask™ with ClearLight™



Safety and Health



Weld-Mask with ClearLight™ 295917

Auto-darkening welding goggles with **ClearLight™** Lens Technology for increased clarity and visibility. Low-profile design allows users to weld where access using traditional welding helmets is limited. Seamlessly fit the Miller® LPR-100™ Gen. II half mask respirator and Miller® Classic safety glasses underneath for increased compliance. Two-year warranty.

- Shades 3, 9–13 for use with MIG, TIG, stick, and grinding
- Extremely lightweight (8 oz.), virtually eliminates neck strain
- **ClearLight™** Lens Technology provides advanced high-definition optics for precise arc recognition
- Ideal for use with hard hats and industrial or construction environments
- Soft, close-fitting eye covering provides total darkness for precision welding

Face Shield Series



- 288269 Clear
- 288274 Clear + Anti-Fog
- 288270 Shade 3
- 288273 Shade 5

- HDV technology for a sharp detailed view at any angle without distortion
- Impact-resistant shield for increased durability and protection
- Lightweight design for all-day wear and comfort
- Clear + Anti-Fog lens coating prevents fogging for enhanced visibility
- Shade 3 and 5 lenses provide protection for cutting, brazing or soldering applications
- Made of polycarbonate material that provides 99.9 percent UVA/UVB/UV-C protection to help prevent eye damage
- ANSI Z87.1 compliant



Halo Hard Hat Adapter 222003
Slotted Hard Hat Adapter Clips (not shown) 259637

Safety Glasses



- | | | |
|-----------------|---------------|------------------------------------|
| Classic | 272187 | Black frame with clear lenses |
| Spatter™ | 272191 | Black frame with clear lenses |
| | 272195 | Black frame with smoke lenses |
| Spark™ | 272190 | Black/blue frame with clear lenses |
| Slag™ | 272201 | Black frame with clear lenses |
| | 272202 | Black frame with I/O lenses |
| | 272205 | Black frame with shade 5 lenses |
| Gen I | 235662 | Black frame with shade 3 lenses |
| | 235658 | Black frame with shade 5 lenses |

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



Safety and Health

Digital Infinity™ Series

Largest viewing area maximizes visibility.



Black
296786

Black Ops™
296779

Stars and Stripes™
296780

Relic™
296782

Imperial™
296784

Honor™
296785

Outdoorsman™
296783

Digital Elite™ Series

Industry-leading helmet provides high-performance versatility.



Black
296765

Lucky's Speed Shop™
296766

Stars and Stripes™ III
296770

Inferno™
296772



Vintage Roadster™
296768

Blue Rage™ II
296774

Forged In Freedom™
299617

Digital Performance™ Series

Lightweight helmet with superior headgear for ultimate comfort.



Black
296757

Unity™
296755



Burn & Blossom™
296756

Carbon Edge™
299616

Classic Series Helmets for the value-minded welder.



VSi only

VS only



VSi™
287794

Black (VS)
287803

Metalworks™ (VS)
287810

Rise™ (VS)
287815

Liberty™ (VS)
287820

Metal Matrix™ (VS)
288519

Street Sparks™ (VS)
299618

FS#10 Flip-Up
287798

MP-10™

Traditional passive shade 10 lens helmet.



Black
238497

Welding Helmet Accessories



Slotted Hard Hat Adapter 259637

- Compatible with most slotted hard hats. Helmet and hat not included



Hard Hat Adapter 265315

For T94™ helmets
222003
For Infinity™, Elite™, Performance™, Classic and MP-10™ helmets

- Compatible with most Fibre Metal and MSA hats. Other brands may fit depending on size and shape. Helmet and hat not included.



Hard Hat Adapter 290460

Legacy (shown)
260486 Gen. IV
770246 Classic



Helmet Lighting Accessory 281361

For T94™ helmets
282013

For Infinity™, Elite™, Performance™, Classic and MP-10™ helmets

- Provides additional lighting in low-light environments
- Includes two lights (one for each side) and all required mounting hardware



2x4 Auto-Darkening Lens with ClearLight™ Lens Technology

287828 Shade 9
287830 Shade 10
287833 Shade 11

- Solar powered lens fits all 2x4-inch windows and has two arc sensors. Two-year warranty



Magnifying Lens

212235 0.75
212236 1.00
212237 1.25
212238 1.50
212239 1.75
212240 2.00
212241 2.25
212242 2.50

- 4.25 x 2 x 5/23 inch lens for all Miller® helmets

- Infinity™ needs an adapter



Helmet Bib 253882

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



Helmet Bib 279078

- Flame-resistant material provides additional neck coverage for the T94 helmets



Helmet Cape 279080

- Flame-resistant material provides additional head and back-of-the-neck coverage for the T94 helmets



Helmet Hook 279078

- Holds welding helmets, grinding shields or other helmets with a headgear
- Silicone strap secures the helmet in place



Jobsite Tool Bag 228028

- Over twenty separate pockets
- Opening of 12 x 18.5 inches (305 x 470 mm)



Welding Backpack 299081

- Over twenty separate pockets
- Opening of 12 x 18.5 inches (305 x 470 mm)



CoolBelt™ 245230

- Belt-Mounted Helmet Cooling System
- Up to 17 degrees Fahrenheit cooler under the hood
- Provides all-day comfort through maximized airflow power and lightweight design
- Multiple airflow speeds eliminate stagnant air and reduce fogging
- Compatible with Infinity, Elite, Performance, Classic and MP-10 helmets



Student Safety Packs

All-in-one safety pack ensures students are prepared and outfitted with comfortable and fitted personal protection equipment (PPE).

295385 Small
291661 Medium
291662 Large
291663 X-Large
295386 2X-Large

Safety packs consist of black Classic VS auto-darkening welding helmet, Classic Cloth jacket, MIG (lined) gloves, TIG/multitask gloves, Classic clear safety glasses, Slag™ shade 5 safety glasses, jobsite tool bag, and more.

Note: Student safety packs are offered at an educational discount and cannot be combined with any other offer, discount or rebate.

Wireless Remote Controls Foot and Hand

Increases productivity, saves money, improves safety and is easy to use.



Key features

Bluetooth® communication technology provides consistent and reliable connection.

Improves productivity, reliability and safety by eliminating cord tangles and failures while reducing potential trip hazards and work area cord clutter.

Multiple frequency sharing allows up to 20 systems to operate in a 90-foot (27.4 m) radius with accuracy and precision — no delay, interference, or crosstalk.

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

Easily programmable. Control is easily paired with any other Miller® 14-pin wireless receiver. Control is preprogrammed when purchased with the receiver.

**Some applications are not suitable for wireless communication. Keep in mind that the rated range is subjective, and depends on factors such as obstructions, frequency interference, transmission technology, and weather. The figures listed assume ideal conditions are present.*

Foot control

Foot control is designed specifically for TIG welding in manufacturing, fabrication and plant applications. Adjust amperage at point of use.

Auto on/off feature extends the battery life up to 1,500 hours of welding.

Hand control

Hand control is designed for stick, TIG, MIG and flux-cored welding. Adjust parameters for different joint configurations, electrodes and wire types/sizes at the point of use.

Allows parameter adjustments up to 300 feet away from welder.

Improves weld quality. Optimize parameters for different joint configurations, electrodes, and wire types and sizes.

Smart Touch™ buttons allow quick and accurate machine parameter adjustments.

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

Removable impact-resistant rubber cover for transmitter provides protection and durability.

Industrial processes

- TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)¹
- MIG (GMAW)^{1,2}
- Flux-cored (FCAW)^{1,2}

¹ With wireless hand control only.

² Only with voltage-sensing feeder.

Comes complete with

- Wireless foot control (301581) OR hand control (301583) transmitter
- Wireless 14-pin receiver (301584)
- Four AA batteries
- Four Easy-Glide Wear Pads™ (foot control only — sold individually, 248274)
- Carabiner clip (hand control only, 285341)
- Impact-resistant rubber cover (hand control only)

Suggested power sources

Look throughout this catalog for the icon at right signifying compatibility with a wireless remote.



MODEL/STOCK NO.	COMPONENT	POWER SUPPLY	BATTERY LIFE	RATED RANGE*	TEMPERATURE	RADIO FREQUENCY	RF POWER	ANTENNA	DIMENSIONS IN. (MM)	WEIGHT LB. (KG)
Wireless Foot Control System 301580	Foot control (transmitter)	Four AA batteries	1,500 hours	90 ft. (27.4 m)	-13° to +122°F (-25° to +50°C)	2.4 Ghz (ISM band)	<6.31 mW	Internal	H: 6 (152) W: 5.75 (146) D: 11.5 (292)	3 (1.4) with batteries
Wireless Hand Control System 301582	Hand control (transmitter)	Four AA batteries	1,500 hours	300 ft. (91 m)	-13° to +122°F (-25° to +50°C)	2.4 Ghz (ISM band)	<6.31 mW	Internal	H: 4.9 (125) W: 3 (76) D: 1.7 (44 mm)	0.8 (0.39) with batteries

TIG Accessories (continued)



RFCS-14 HD (14-pin plug) 301589 20 ft. (6 m) cord with plug

RFCS-6M HD (6-pin plug) 301587 13.25 ft. (4 m) cord with plug
301588 20 ft. (6 m) cord with plug
 For Maxstar 161 STL/STH.

Heavy-duty foot pedal current/contactor control provides increased stability and durability from larger base and heavier cord.



RFCS-RJ45 300432

Foot pedal current/contactor control. Includes 14-foot (4.3 m) cord with plug.



RHC-14 (14-pin plug)

242211020 20 ft. (6 m) cord with plug
242211100 100 ft. (30.5 m) cord with plug
 Miniature hand current/contactor control.
 Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 82 mm)



RMLS-14 (14-pin plug) 129337

Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 26.5-foot (8 m) cord with plug.



RMS-14 (14-pin plug) 187208

RMS-6M (6-pin plug) 195269

For Maxstar 161 STL/STH.

Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord with plug.



RPBS-14 (14-pin plug) 300666

Attaches to the TIG torch to remotely start and stop the TIG welding process. Includes 25-foot (7.6 m) cord with plug.

Smith™ Pressure Regulators/Station Regulator



Gas Equipment



Series 40™ heavy-duty single-stage pressure regulator



Series 46™ heavy-duty single-stage station regulator



Series 30™ medium-duty single-stage pressure regulator



Series 35™ medium-duty two-stage pressure regulator

Key features

Resin bonnet insert (Series 40™ and Series™ 46 only) allows smooth, easy adjustment even at high-pressure levels.

Stainless steel diaphragm (Series 40™ and Series™ 46) resists corrosion, leaking and freeze-up if used with liquid (cryogenic) gases for extended service life, **OR neoprene diaphragm (Series 30™ and Series™ 35)** resists corrosion for extended service life.

External relief valve protects regulator from damage due to inadvertent high-pressure surge. Relief valve will release excessive pressure and automatically reset.

Brass body and nickel-plated bonnet protect against corrosion.

Easy-to-read 2.5-inch gauges (Series 40™ and Series™ 46) OR 2-inch gauges (Series 30™ and Series™ 35) with shatter-resistant polycarbonate lens covers.

Dual filters including Sure Seat™ protect high-pressure seat from debris for reliable operation and long service life.

Color-coded label supplies performance capabilities, easy gas service identification and technical information.

Most popular consumables

- Regulators:
Series 40 Regulators
HB190 Hard Hat
40-175-540
40-175-540S
40-15-300
40-15-300S
40-15-510
40-15-510S
40-50-510
- Flowgauge:
31-50-580
31-50-580-6
- Flowmeter:
H2051B-580H
22-80-580-6
22-80-320-6

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

Smith™ Flowmeter Regulators / Flowmeters



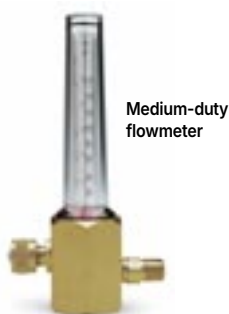
Heavy-duty flowmeter regulator



Heavy-duty flowmeter



Medium-duty flowmeter regulator



Medium-duty flowmeter

Heavy-duty model key features

Exclusive self-centering ball guide provides accurate readings even if tipped.

Rugged aluminum housing protects flow tube from damage while offering unobstructed view of flow reading.

Extra long flow tube with high-visibility background eases readings from a distance and in low-light conditions.

Dual filters including Sure Seat™ (flowmeter regulator) protect the high-pressure seat from debris for reliable operation and long service life.

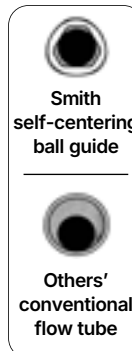
External pressure relief valve (flowmeter regulator) protects regulator from damage due to inadvertent high-pressure surge.

Medium-duty model key features

Built-in rupture disc reduces possibility of flow tube damage due to inadvertent high-pressure surge.

Shatter-resistant triple-scale flow tube can be rotated to position desired scale (CO₂, argon and argon/CO₂ mix, or helium) for easy reading.

Precision flow adjustment valve allows easy adjustment to desired setting.





Smith™ Torches

Smith™ torches are for cutting, heating, welding and brazing. They feature three-tube construction, keeping gases separate in the cutting attachment until mixed at the tip for safety.

Gas Equipment



Gas Axe™ extra-heavy-duty cutting torch



Heavy-duty cutting torch

Cutting Torches

Gas Axe™ extra-heavy-duty torches key features

Ideal for scrap and demolition cutting.

Cuts up to 20 inches with propane or natural gas and up to 12 inches with acetylene or propylene gas.

Reversible top- or bottom-mount cutting lever.

Thick-wall forged brass head available in three different angles reduces heat warping and damage.

Heavy-duty torches key features

Ideal for construction, fabrication and shipyards.

Cuts up to 12 inches (305 mm).

Reversible top- or bottom-mount cutting lever.

Nickel-plated finish for added corrosion resistance and to reflect residual heat.

Combination Torches

Available in heavy-duty (cuts up to 8 inches), medium-duty (cuts up to 6 inches) and standard-duty (cuts up to 3 inches).

Exclusive Flo-Trol™ valve (except Toughcut™ CC509P and standard-duty attachments) functions like a built in check-valve to prevent seat burn out due to reverse flow of mixed gases.

Nickel-plated finish for added corrosion resistance and to reflect residual heat.

Silver-brazed torch joints provide strength, leak resistance and heat protection.

Triple o-ring seal allows easy 360-degree torch attachment rotation to reduce operator fatigue.

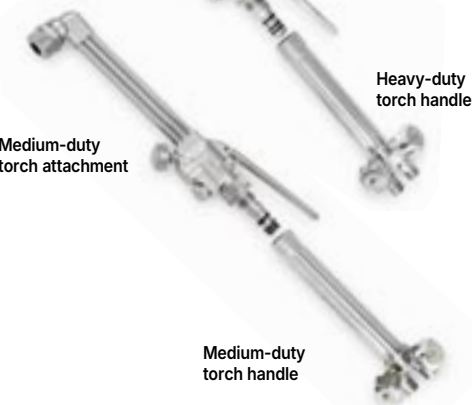
Most popular consumables

- Heavy Duty Torches:
SC229
SC209 - Heavy Duty Cutting Attachment
WH200A - Heavy Duty Handle
- Heavy Duty Tips:
SC12 - Acetylene Cutting Tips
SC40 - Propane Cutting Tips
SC60 - Propylene Cutting Tips
ST615 - Propane Heating Tip
ST602 - Acetylene Heating Tip

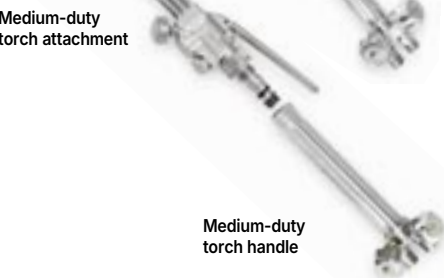
Visit MillerWelds.com or your distributor for other Miller® options and accessories.



Heavy-duty torch attachment



Heavy-duty torch handle



Medium-duty torch attachment

Medium-duty torch handle

Smith™ Outfits

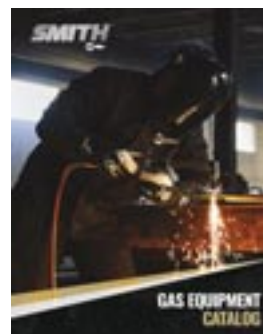
Outfits include all the components and accessories needed for your cutting, heating, welding or brazing project. Available in cutting torch (heavy-duty) or combination torch (heavy- or medium-duty) configurations.



Heavy-duty cutting torch outfit



Medium-duty combination torch outfit



Smith Gas Equipment Catalog

For the complete range of Smith™ oxy-fuel equipment, please visit millerwelds.com/support/order-literature to view a digital download or order a physical copy of the Gas Equipment Catalog.



Why Miller Training?

Our training courses prepare you with the skills and confidence to handle real-world scenarios in your role. Through interactive discussions, hands-on demonstrations, and immersive experiences, we foster meaningful learning and growth. More than just training, we are your dedicated partner in continuous education and ongoing support.

Elevate Your Career Potential

Gain the skills and confidence to advance in your role and seize new opportunities.

Master Your Welding Knowledge

Deepen your understanding of welding processes with practical insights and hands-on learning.

Grow Professional Relationships

Enhance your communication and service skills to foster trust and loyalty with your clients.

Build Your Support Network

Connect with industry experts and peers for ongoing collaboration and shared success.

Training Delivery Methods

We provide a variety of training methods designed to help you understand our products, empowering you to sell or repair equipment with confidence. Your success is our priority, which is why we offer flexible learning options tailored to your needs. By working together, we can create innovative customer experiences that set you apart and provide a genuine competitive advantage.

Online Courses

Live Stream

In-Person

ENROLLMENT CONFIRMATION

A confirmation email will be sent upon your enrollment. The confirmation will include a calendar invite, items you will need for the training, directions to the training center, hotel accommodations, and restaurant recommendations.

If you have questions, please get in touch with us at MillerTraining@Millerwelds.com or call 920-735-4016.



Creating a Customer Portal Account

The Customer Portal hosts several tools that give you real-time updates on price and availability, order status and tracking, new product information, and online training.

Go to MillerWelds.com and on the top of the Home page click Sign In.

Important Reminders:

- Include the leading 0 in your account number. It must be 6 digits (e.g., 012345).
- The postal code (zip code) must match the postal code of the store location on the account you're registering for in order to be verified.
- Your training portal account will be ready in 1-2 business days.



Visit Millerwelds.com

1. Visit Millerwelds.com
2. Click SIGN IN at the top of any page
3. Select NEW CUSTOMER PORTAL



REGISTER YOUR ACCOUNT

1. Select Request Account on the right side of the screen



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