

CATALOG

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Miller Electric Mfg. LLC
MillerWelds.com
1-866-931-9730

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

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



New From Blue



**Millermatic®
211 PRO**
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IntelliPath™
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**Copilot™
Builder**
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**Multimatic®
215 PRO**
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**XMT®
400**
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**Thunderbolt®
210 MV**
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**Syncrowave®
212**
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**Venture™
150 Series**
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**OptX™
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**OptX™
Laser
Welding
Enclosure**
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**SubArc
Hercules™
System**
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**Women's
Welding
Gloves and
Jacket**
Pages 116
and 117



**ArcCapture™
Weld
Camera
Systems**
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**Coolmate™
1S**
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See Table of Contents on Page 2
for Additional
NEW! or IMPROVED! Products



Also see Automation and Multiprocess sections for machines that can MIG weld. For more information, visit MillerWelds.com/mig

MIG (GMAW)

MODEL	PAGE	CLASS	MIG	PULSED MIG	FLUX-CORED*	CAC-A	PORTABILITY	WELDABLE METALS	WELDING OUTPUT RANGE	SPECIAL FEATURES	TYPICAL APPLICATIONS
1-PHASE	Millermatic® 142	4	●	+	+		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	5	●	+	+				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	6	■	+	+		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	7	■	+	+	+	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
1-7/3-PHASE	Millermatic® 355	8	■	+	+	+	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	9	▲	+	+		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	10	▲	+	+	+	Lift eye, optional running gear, MIGRunner®	Steel, stainless	20–400 A 10–38 V	Special arc control feature when paired with Intelx™ feeders, Accu-Pulse® MIG welding with Intelx Pro and Elite feeders, optional Insight Centerpoint™ Basic	Medium-to-large manufacturing and fabrication
	Deltaweld® 500 System	10	▲	+	+	+			3/8"		

PRODUCT KEY Class: ● Light industrial ■ Industrial ▲ Heavy industrial Capability: ✦ Capable of this process + Designed for this process
 *If using self-shielded wire on a CC/CV machine, use CV weld output.
 NEW! or IMPROVED! products appear in blue type.

Millermatic® 142



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
- 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, 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 26)



Most popular accessories

- Running Gear/Cylinder Rack 301239 (pg 121)

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

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.

*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)*
			120 V	KVA	KW				
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) Flux-cored: .030–.035 in. (0.8–0.9 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				

Millermatic® 211 PRO



MIG (GMAW)
All-in-One

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 26)



Most popular accessories



- Running Gear/Cylinder Rack 301239 (pg 121)
- Protective Cover 301737 (pg 125)
- V-Knurl Drive Roll 202926

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

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



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.

- Wire/gas combinations include flux-cored, mild steel with 100% CO₂, mild steel with C25, stainless steel, and aluminum with spool gun
- Select the weld process and gas being used
- Select the wire diameter (.024, .030 or .035 in.)
- Select the material thickness you are welding
- Start welding with the exact parameters you need!

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.

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.



Gas detect ensures reliable welds by detecting shielding gas presence, displaying alerts for supply issues, and purging the line during startup.

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

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.

*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)*		
				120 V	240 V					KVA	KW
907839 95100073 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: .023–.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				
			215 A at 24.8 VDC, 30% duty cycle	—	14.05	6.156	6.134				
	240 V (NEMA 50)	30–230 A	160 A at 22 VDC, 60% duty cycle	—	13.17	4.075	4.024				
			120 A at 20 VDC, 100% duty cycle	—	11.54	2.788	2.754				



Millermatic® 252

MIG (GMAW)
All-In-One



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 27)

Most popular accessories

- Spoolmate™ 200 Spool Gun (pg 26)
- Dual EZ-Change™ Low Cylinder Rack 300337 (pg 121)
- Protective Cover 195142 (pg 125)

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						WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
			208 V	230 V	240 V	460 V	575 V	KVA				
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.)	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	30-300 A	200 A at 24 VDC, 60% duty cycle	—	46	—	23	18	9.8	7.5	Solid/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	—	2**	—	1**	0.8**	0.46**	0.13**			

LEGENDS ARE BUILT, NOT BORN.

1970S



The simple and rugged machine that fabricators first fell in love with.

1980S-90S



When some cut corners, we doubled down on durability for a new shop standard.

2000S



We introduced technology that served the welder, so you can focus on the bead.

MILLERMATIC® SERIES TODAY

The legacy continues. Modern control with the same old-school grit. The partner you trust to protect your reputation on every single weld.

Millermatic® 255



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.



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 (pg 28)



Most popular accessories

- Spoolmatic® Spool Gun (pg 27) (non-Pro gun only)
- XR™-Pistol-Pro Air-Cooled Push-Pull Guns (pg 28)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 122)



- EZ-Latch™ Dual Cylinder Running Gear 951769 (pg 122)
- Protective Cover 301521 (pg 125)

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/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)

MIG (GMAW)
All-in-One



Millermatic® 355

MIG (GMAW)
All-In-One



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. (4.6 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 (pg 28)



Most popular accessories

- Bernard® MIG Guns (pg 24–25)
- Spoolmate™ 200 Spool Gun (pg 26)
- Spoolmatic® Spool Gun (pg 27) (non-Pro gun only)
- XR™-Pistol-Pro Air-Cooled Push-Pull Guns (pg 28)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 122)



- EZ-Latch™ Dual Cylinder Running Gear 951769 (pg 122)

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	MAX. OPEN-CIRCUIT VOLTAGE	WIRE FEED SPEED	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	90 VDC	50–800 ipm (1.3–20 m/min.)	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				29.5						18.2	15.4	15.3
951927 w/XR-Aluma-Pro gun and EZ-Latch single cylinder running gear		1-phase, 460 or 575 V		20–400 A 12–34 V						—	—	35.6
	1-phase, 208 or 240 V	20–350 A 12–32 V		69.6	62.5	—	—	15.0	11.1			

AlumaFeed[®] Synergic Aluminum Welding Systems

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



Heavy industrial processes

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

Most popular accessories

- XR™ Push-Pull Guns (pg 28)
- MIGRunner™ Cart 195445 (pg 122)
- Coolmate™ 3 043007 (pg 123)
- Coolant 043810 (pg 123)
- Industrial MIG 4/0 Kit with lug connectors 300390 (pg 125)
Consists of flowmeter regulator with 10 ft. (3 m) gas hose, 10 ft. (3 m) 4/0 feeder weld cable, and 15 ft. (4.6 m) work cable with 600-amp C-clamp
- Extension Cables (pg 130)
247831025 25 ft. (7.6 m)
247831050 50 ft. (15 m)
247831080 80 ft. (24.4 m)
- 1/16-Inch (1.6 mm) Liner and Wire Kit for Gun 230708
- 1/16-Inch (1.6 mm) Drive Roll Kit for Control Box 268850
- For gun and feeder remote options, see literature DC/34.0 or visit MillerWelds.com

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

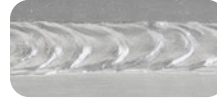
MIG (GMAW)
Aluminum

Key features

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

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

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



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

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

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

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

115-volt auxiliary power to run Coolmate™.



AlumaFeed® air-cooled MIGRunner package shown.

Packages



ALUMAFEED SYSTEM PACKAGE STOCK NO.	XR-ALUMA-PRO™ PUSH-PULL MIG GUN	INDUSTRIAL MIG 4/0 KIT	COOLMATE™ WITH COOLANT	CART
951842 230/460 V Stationary package	25 ft. water-cooled	—	Coolmate™ 3	—
951840 230/460 V MIGRunner™ package	25 ft. air-cooled	With lug connectors	—	MIGRunner™ cart
951867 230/460 V MIGRunner™ package	25 ft. water-cooled	With lug connectors	Coolmate™ 3	MIGRunner™ cart

Note: All systems above include XR-AlumaFeed SuitCase feeder, AlumaPower power source and items noted, as well as gun drive rolls, feeder drive rolls and consumables for .035- and 3/64-inch (0.9 and 1.2 mm) wire. All systems come set up out of the box to run 3/64-inch wire. 1/16-inch consumables are not included — order separately above.

FEEDER ONLY STOCK NO.	INPUT POWER	INPUT WELDING CIRCUIT RATING	WIRE FEED SPEED	WIRE DIAMETER CAPACITY	MAXIMUM SPOOL SIZE CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)	
XR-AlumaFeed® Suitcase Feeder 301567	24 VAC, 5 A, 50/60 Hz	400 A at 100% duty cycle System duty cycle is limited to gun rating	50–900 ipm (1.3–23 m/min.)	.035–1/16 in. (0.9–1.6 mm) Requires gun wire kit (230708) and control box drive roll kit (268850) to run 1/16 in. (1.6 mm) wire	12 in. (305 mm)	H: 15.5 (394) W: 9 (229) D: 21 (533)	31 (14.1)	
POWER SOURCE ONLY STOCK NO.	AMPERAGE/VOLTAGE RANGES	RATED OUTPUT	AMPS INPUT AT 230 V	AT 460 V	RATED OUTPUT, 60 HZ 575 V KVA	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
AlumaPower™ 450 Mpa 907483 230/460 V 907484 575 V	15–600 A 10–38 V	450 A at 36.5 VDC, 100% duty cycle	49.4	27.2	23.6 21.6 (23.5 on 575 V)	18.3 90 VDC	H: 17.25 (438) W: 14.5 (368) D: 27.13 (689)	122 (55.3)



Deltaweld® Systems

The standard in manufacturing provides the solution for welders of all skill levels, plus pulsed MIG capabilities with Intelx™ Pro and Intelx™ Elite integrated packages.

MIG (GMAW)
Power Sources/Packages



Deltaweld 350 MIGRunner with single-wire Intelx Elite feeder shown with industrial water cooler (sold separately).

Key features

Two power source choices

- **Deltaweld 350** has auxiliary power standard and optional 14-pin receptacle and meters for use with legacy feeders.
- **Deltaweld 500** has auxiliary power and meters standard and an optional 14-pin receptacle. It adds more power (500 amps at 100 percent duty cycle) and a dedicated gouge mode for up to 3/8-inch carbons.

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

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

Welding Intelligence™. Get more done, produce higher-quality welds and control costs with optional factory-installed Insight Centerpoint™ Basic or Premium (see page 41).

MIGRunner packages

- **Ships as a complete package.** Hook up your primary power, add gas, wire and welding gun, and you're ready to weld.
- **Industrial MIGRunner cart** with stowaway dual cylinder rack and lockable front casters with oversized rear wheels.
- **Single-wire feeder swivel kit** with integrated handle, plus gun and cable holders. Feeder moves with the MIG gun, reducing wear on gun assembly and liner, and allowing operator to see the interface and which parameters are selected.
- **Industrial water cooler** (sold separately) integrates into the bottom of the industrial cart.



Heavy industrial processes

- MIG (GMAW) • Flux-cored (FCAW)
- Accu-Pulse® MIG (GMAW-P)¹
- Versa-Pulse™ MIG (GMAW-P)²
- High deposition MIG (GMAW)² • RMD®²
- Air carbon arc gouging (CAC-A) with Deltaweld 500

¹With Intelx Pro and Elite feeders.

²With Intelx Elite feeders

MIGRunner™ packages include

- Deltaweld 350 OR 500 power source
- Intelx Basic OR Pro OR Elite wire feeder with .035/.045 in. reversible V-groove drive rolls
- Bernard® BTB Gun 400 A (two with dual-wire feeders) with AccuLock™ consumables
- Factory-installed industrial cart with stowaway dual cylinder rack
- Factory-installed swivel kit with integrated handle, gun and cable holders, and chains for gas cylinders
- Cart accessory kit consisting of flowmeter regulator(s) with 5 ft. (1.5 m) gas hose(s), 10 ft. (3 m) 4/0 feeder weld cable with lugs, 15 ft. (4.6 m) work cable with 600-amp C-clamp, and 9 ft. (2.7 m) ArcConnect cable
- Quick-setup guide

Most popular accessories

- Bernard® MIG Guns (pg 24–25)
- Industrial Cart 301758 (pg 122)
- Industrial MIG 4/0 Kits with Lugs (stationary packages only) (pg 125)
- Industrial Cooler 301759
- HD MIG AccuLock™ Nozzle N-A3412C

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

DELTAWELD MIGRUNNER PACKAGE* MOST POPULAR MODELS ◀	STOCK NO. WITH INTELX® BASIC (SINGLE- OR DUAL-WIRE FEEDER)		STOCK NO. WITH INTELX® PRO (SINGLE- OR DUAL-WIRE FEEDER)		STOCK NO. WITH INTELX® ELITE (SINGLE- OR DUAL-WIRE FEEDER)	
Deltaweld 350 208/230/460 V	951000138 (single)	951000139 (dual)	951000140 ◀ (single)	951000197 (dual)	951000142 (single)	951000144 (dual)
Deltaweld 350 208/230/460 V with Insight	—	—	951000141 (single)	—	951000143 (single)	—
Deltaweld 500 208/230/460 V	951000147 (single)	951000148 (dual)	951000149 ◀ (single)	951000151 (dual)	951000152 (single)	951000154 (dual)
Deltaweld 500 208/230/460 V with Insight	—	—	951000150 (single)	—	951000153 (single)	—
Deltaweld 500 575 V	—	—	951000155 ◀ (single)	—	951000157 (single)	951000159 (dual)
Deltaweld 500 575 V with Insight	—	—	951000156 (single)	—	951000158 (single)	—

*Additional models and packages are available, including packages with a push-pull gun for aluminum welding — visit MillerWelds.com or your distributor.

**See Deltaweld literature sheets for 575 V model KVA/KW ratings, and Deltaweld 500 literature sheet for gouge mode ratings.

***Dimensions and weight are for power source only.

	POWER SOURCE ONLY MODEL/STOCK NO.* MOST POPULAR MODELS ◀	AMPERAGE/ VOLTAGE RANGES	RATED OUTPUT**	AMPS INPUT AT RATED OUTPUT, 60 HZ**						DIMENSIONS IN. (MM)***	NET WEIGHT LB. (KG)***
				208 V	230 V	460 V	575 V	KVA	KW		
350 A	Deltaweld 350 907747 ◀ 208/230/460 V 907747001 208/230/460 V with 14-pin and meters 907747002 208/230/460 V with Insight 907879 575 V	20–400 A 10–38 V	300 A at 29 VDC, 100% duty cycle	29.3	26.5	14.6	12.4	11.6	10.0	H: 22.36 (568) (includes lift eye) W: 15.35 (390) D: 29.15 (740)	115 (52.2)
			350 A at 31.5 VDC, 60% duty cycle	36.7	33.4	18.1	15.1	14.5	12.5		
			425 A at 35.25 VDC, 30% duty cycle	50.0	45.1	23.1	19.1	18.5	16.9		
500 A	Deltaweld 500 907785 ◀ 208/230/460 V with meters 907785001 208/230/460 V with 14-pin and meters 907786 575 V with meters 907786001 575 V with 14-pin and meters 907786002 575 V with meters and Insight	30–650 A 10–44 V	500 A at 39 VDC, 100% duty cycle	64.2	58.1	30.4	24.8	24.2	21.7	H: 22.36 (568) (includes lift eye) W: 15.35 (390) D: 31.65 (804)	145 (65.8)
			575 A at 42.75 VDC, 60% duty cycle	80.2	73.5	38.0	30.4	30.3	27.2		
			650 A at 44 VDC, 25% duty cycle	94.2	84.9	43.9	34.9	35.0	31.6		



SHIFTING GEARS

A LEGACY OF FAST CARS AND FIRM HANDSHAKES.

For 36 years, Andy Weyenberg has been the driving force behind Miller's presence on the track and in the shop. To the thousands of fabricators, race teams, and influencers he's worked with, he's simply known as "The Miller Guy".

People didn't come to the Miller booth at events and trade shows only to look at equipment; they also showed up for the expertise. Andy became a destination in his own right because he does more than manage relationships, he builds them. From outfitting a top-tier racing team with the best Miller equipment to sharing deep technical wisdom on the "Real Garage with Andy" YouTube channel, Andy ensured that when you saw Miller Blue, you knew you were seeing the best.

Now, Andy is shifting gears. He's turning his focus from pit crews and events to the passion projects and family waiting in his own shop. While he's stepping back, the momentum he built for the industry isn't slowing down.

The best way to honor a standard-setter is to raise the bar yourself. Andy showed us what dedication looks like in high gear. Now, it's your turn to drop the hood and build something legendary.





Wire Feeders



Also see MIG, MIG Guns and Multiprocess sections for wire feeding options. For more information, visit MillerWelds.com/wirefeeders

MODEL	PAGE	CLASS	MIG	PULSED MIG ¹	RMD@1	FLUX-CORED ²	GOUGE	POWER SOURCE REQUIRED	WIRE TYPES			WIRE DIAMETER CAPACITY	SPECIAL FEATURES	TYPICAL APPLICATIONS	
									SOLID	FLUX-CORED					ALUM.
										GAS-SHLD	SELF-SHLD				
ArcReach® 16	13	▲	+			+	+	CC/CV	+	+	+	.035–3/32 in. (0.9–2.4 mm)	60 lb. spool capacity, powered by arc voltage, remote voltage and process control without a control cord, optimized with XMT® 400 and 650 ArcReach® power sources, large diameter 3/32 in. wire, isolated gouge stud, available with shop cart or IP23-rated field roller	Structural steel, fabrication, erection	
ArcReach® SuitCase® (8 and 12)	14	▲	+	❖		+		CC/CV	+	+	+	.023–5/64 in. (0.6–2.0 mm) Heavy Duty model: .030–3/32 in. (0.8–2.4 mm)	8 in. (SuitCase 8) or 12 in. (SuitCase 12) diameter spool capacity, powered by arc voltage, remote voltage control without a control cord with ArcReach power sources — ArcReach Suitcase 12 Heavy Duty model available for use with large diameter 3/32 in. cored wire	Construction, site fabrication, field maintenance and field pipe	
ArcReach® Smart Feeder	14	▲	+	+	+	+		ArcReach equipped ⁴	+	+		.035–.045 in. (0.9–1.1 mm)	12 in. diameter spool capacity, remote voltage control without a control cord, requires an XMT 400 or 650 ArcReach power source connected to three-phase power or a compatible ArcReach-equipped engine drive	Process piping, refinery, petrochemical, power plants, HVAC, water pipe	
SuitCase® 12RC	14	▲	+	❖		+		CV	+	+	+	.023–5/64 in. (0.6–2.0 mm)	12 in. diameter spool capacity, standard remote voltage control, powered by 14-pin control cord	Field maintenance, site fabrication	
Intellx™ Series (Basic, Pro and Elite)	16	▲	+	❖	+	+		CV ⁵	+	+	+	.023–3/32 in. (0.6–2.4 mm)	Basic model features arc control; Pro adds EZ-Set, Accu-Pulse®, memory buttons and weld programs; Elite adds additional weld programs, intuitive display with on-demand graphics and more control	Manufacturing, fabrication	
20 Series (Basic and Digital)	17	▲	+	❖		+		CV	+	+	+	.023–5/64 in. (0.6–2.0 mm)	Four quick-change drive rolls, digital meter, remote voltage control (meter and remote voltage control are a field kit option on basic model)	Manufacturing, fabrication	
74 MPa Plus (Single- and Dual-Wire)	18	▲	+	+		+		CV	+	+	+	.023–5/64 in. (0.6–2.0 mm)	Sequence control, locks and limits, four weld program memories, synergic pulsed MIG with MPa power sources, XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires are designed to work with MPa Plus feeders	Manufacturing requiring multiple wire types	
74 MPa Plus Remote Configurations (Single- and Dual-Wire)	19	▲	+	+		+		CV	+	+	+	.023–5/64 in. (0.6–2.0 mm)	Control box, cables and wire drive motor assemblies for generic booms or fixed automation	Heavy and light manufacturing, fabrication	

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

¹ For pulsed MIG and RMD processes, see Smart Feeder and Intellx feeder power source requirements. All other feeders require an MPa inverter power source.

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

³ For gouge process, ArcReach 16 requires an XMT 400 or 650 power source.

⁴ Smart Feeder requires an XMT 400 ArcReach or XMT 650 ArcReach power source connected to three-phase power or a compatible ArcReach-equipped engine drive.

⁵ Intellx feeders require a Deltaweld or XMT 400 ArcConnect-equipped power source.

PRODUCT KEY

ArcReach® 16 Portable Feeder

Portable feeder that takes productivity, cost savings, and power to the next level for structural steel fabrication and erection.



PORTABLE!

ArcReach 16 with shop cart

ArcReach 16 with field roller

Feeders are available with drive rolls and a Bernard® gun (see chart below). Bernard® BTB Gun 400 A shown.

ArcReach 16 Features	
FEATURE	
Available with Bernard® gun: BTB Gun 400 A IronPro™	+
Remote voltage control (without a cord)	+
Gouge	+
Digital meters	+
Gas purge	+
Wire jog	+
Feeds 3/32 in. wire	+
Available with shop cart	+
Available with field roller	+

Key features

AccuLock™ ArcReach 16 wire feeders with a Bernard® BTB or IronPro™ gun include AccuLock™ consumables (see chart below).

ArcReach® With an ArcReach 16 feeder and ArcReach power source you can change output voltage at the feeder, and save a trip to the power supply. No extra control to purchase, maintain, string or unstring — saving time and money.

Easy process changeover. Simply connect the ArcReach 16 wire feeder to your weld lead and you are ready to go. Switch between welding and gouging with a push of a button with no need to swap leads or disconnect the wire feeder with isolated outputs.

Integrated gouging stud on wire feeder. Isolated gouging stud allows easy connection for gouging at point of use, eliminating the need to disconnect the wire feeder and to swap leads.

Voltage-sensing feeder designed to run on arc voltage. The ArcReach 16 operates on the arc voltage of almost any power source, but is best paired with an XMT® 400 or 650 model (pages 48–52).

Weld with up to 60-pound spools and large diameter (3/32 in.) wire to minimize downtime and maximize productivity.

Easy mobility in the shop and on-site (optional preassembled shop cart and field roller).

- **Shop cart** provides easy shop mobility with low clearance. Handle doubles as a cable holder. Spool cover hanger kit (as seen on field roller model above) can be added to shop cart.
- **Field roller** provides easy field mobility over pan decking and other surfaces. Designed for the environment with spool cover and IP23 rating. Includes spool cover, hanging bail and cable holder.



Use with CC/CV, DC power sources.

Heavy industrial processes

- MIG (GMAW)
- Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A) with XMT 400 or 650 power source

Suggested power sources

Note: ArcReach 16 feeder is compatible with standard power sources and engine-driven welders, but functions as standard equipment without remote control capabilities unless paired with an ArcReach power source. Full functionality of ArcReach is only available with XMT 400 or 650 ArcReach power source. Other XMT ArcReach models support the basic ArcReach 16 features.

- XMT® 400 Series (pg 48–52)
- XMT® 650 Series (pg 48–52)

Suggested guns

- Bernard® BTB Gun 400 A (pg 24)



- **Bernard® IronPro™ GL4515MLNM** (pg 25)
Self-shielded flux-cored gun designed for ironworkers and structural steel erectors to excel in the outdoors with large-diameter wire up to 3/32 inch — sealed trigger remains slag and spatter free for extended life and ergonomic design provides excellent access and maneuverability for hard-to-reach weld joints

Most popular accessories

- Inline Filter 211989
- Spool Cover Hanger Kit 295877
- Wire Reel Assembly 108008

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

STOCK NO.	INPUT POWER	INPUT WELDING CIRCUIT RATING	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	MAX. SPOOL SIZE CAPACITY	DIMENSIONS H x W x D IN. (MM)	NET WEIGHT LB. (KG)
301619 Base feeder only	Operates on open-circuit voltage and arc voltage: 12–110 VDC	450 A at 100% duty cycle	50–780 ipm (1.3–19.8 m/min.) dependent on arc voltage	Solid wire: .035–5/64 in. (0.9–2.0 mm)	18 in. (457 mm)	Base feeder: 15.3 x 16.7 x 32.8 (388 x 424 x 833)	Base feeder: 101 (45.8)
301664 With shop cart		500 A at 60% duty cycle		Flux-cored: .045–3/32 in. (1.1–2.4 mm)	60 lb. (27.2 kg)	Shop cart: 20 x 24.9 x 36.3 (508 x 632 x 922)	Shop cart: 120 (54.4)
951000065 With shop cart and Bernard BTB Gun 400 A		600 A at 40% duty cycle				Field roller: 28.2 x 19.9 x 42.7 (716 x 505 x 1,084)	Field roller: 123 (55.7)
301663 With field roller							
951000066 With field roller and Bernard IronPro gun							



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
Portable



ArcReach® SuitCase 8

ArcReach® SuitCase 12

ArcReach® Smart Feeder

SuitCase 12RC

PORTABLE!



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 15).

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 15).

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 accurate and consistent wire feed speed, 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.



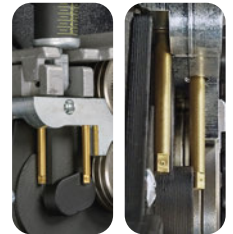
Impact-resistant, flame-retardant case provides strength and durability, while protecting components and welding wire from moisture, dust and other contaminants.

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.



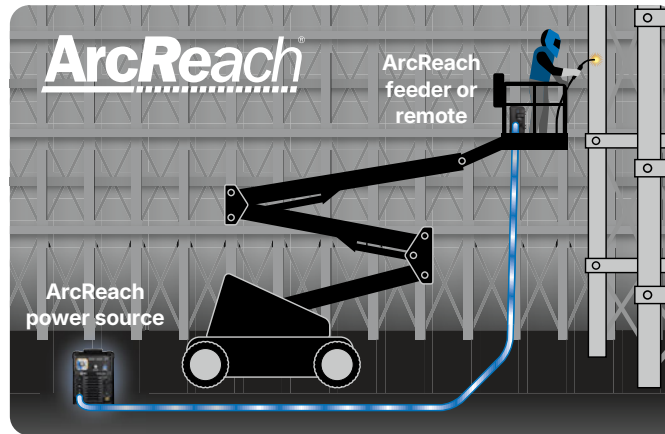
Gas inlet recessed into back of case is protected from incidental contact by the weld cable, ensuring consistent and contaminant-free shielding gas delivery to the gun. **Double-filtered gas valve** helps keep dirt from clogging and affecting gas flow.



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 pages 50–52 and 80–89 for ArcReach power sources and engine drives.



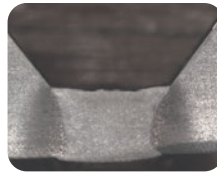
Easy process changeover. Simply connect the ArcReach feeder to your leads and you are ready to go. All controls automatically shift to the ArcReach feeder.

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® or 650 ArcReach® (page 50) connected to three-phase power or a compatible ArcReach-equipped engine drive (pages 80–89).

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 permit 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

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) Flux-cored: .030–5/64 in. (0.8–2.0 mm)	8 in. (203 mm) 14 lb. (6.4 kg)	H: 12.75 (324) W: 7.25 (184) D: 18 (457)	28 (13)
	951727 w/Bernard S-Gun 951728001 w/Bernard IronPro 350 301457 Feeder only							
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) 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)	35 (15.9)
	951730 w/Bernard S-Gun 951731001 w/Bernard IronPro 350 951732 w/Bernard PipeWorx 301456 Feeder only							
ArcReach SuitCase 12 Heavy Duty	951000096 w/Bernard IronPro 301604 Feeder only		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)	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 or 650 ArcReach connected to three-phase power or a compatible ArcReach-equipped engine drive	275 A at 60% duty cycle	50–500 ipm (1.3–12.7 m/min.) dependent on arc voltage	.035–.045 in. (0.9–1.1 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 300A 301121 Feeder only	24 VAC, 10 A, 50/60 Hz	425 A at 60% duty cycle	50–700 ipm (1.3–17.8 m/min.)	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)



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 (pg 19)

Suggested guns

- Bernard® Guns (pg 24–25)

Most popular accessories

- Extension Cables (pg 130) (for SuitCase 12RC only, 1 required)
- Flowmeter Kit 300343
- Shielding Gas Filter 195189

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

Wire Feeders
Portable



Intellex™ Series Bench Feeders

Heavy-industrial bench feeders with tiered features that cater to different applications, including push-pull capabilities.

Wire Feeders
Bench



Intellex Basic feeder (single-wire)

Intellex Pro feeder (dual-wire)

Intellex Elite feeder (single-wire)

Feeders include .035/.045 in. V-groove drive rolls and a Bernard® BTB Gun 400 A (two with dual-wire feeders).



Key features

AccuLock™ Intellex wire feeders include Bernard® BTB Gun(s) with AccuLock™ consumables.

Three dedicated Intellex™ wire feeder options

- **Basic** with arc control feature means welders can produce better welds with minimal parameter adjustments.
- **Pro** adds EZ-Set, Accu-Pulse®, memory buttons and weld programs. EZ-Set simplifies parameter setup based on material thickness, while Accu-Pulse® provides a 28 percent wider operating window and a more forgiving arc (see additional features at left).
- **Elite** adds additional weld programs, intuitive display with on-demand graphics and more control (see additional features at left).

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

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

Intellex Features			
FEATURE	BASIC	PRO	ELITE
Digital meters	+	+	LCD
Remote voltage	+	+	+
Wire feed speed	+	+	+
Arc control	+	+	+
Trigger hold	+	+	+
Wire jog and purge	+	+	+
Wire feed speed feedback	+	+	+
Four drive rolls	+	+	+
Dual-wire models	+	+	+
Rotatable drive	+	+	+
Up to 60 lb. spool	+	+	+
MIG process	+	+	+
EZ-Set MIG and Accu-Pulse		+	+
Trigger select		+	+
Preflow and postflow		+	+
Memory slots		2	8
Out-of-box programs (steel/stainless)		+	+
Out-of-box programs (aluminum/nickel/copper nickel/bronze/titanium)			+
EZ-Set Versa-Pulse, HD MIG, RMD			+
XR™ Plus push-pull gun compatible			+
Profile Pulse™			+
Weld sequence control			+
Trigger dual schedule			+
Dual schedule switch support			+
Parameter limits, memory lockouts, system lock			+
Wire retract, auto thread, auto purge			+
Cloning, custom weld library			+



Use with CV, DC power sources.

Heavy industrial processes

- MIG (GMAW) • Flux-cored (FCAW)
- Accu-Pulse® MIG (GMAW-P)¹
- Versa-Pulse™ MIG (GMAW-P)²
- High deposition MIG (GMAW)² • RMD®²

¹ Intellex Pro and Elite feeders.

² Intellex Elite feeders

Suggested power sources

- Deltaweld® 350/500 (pg 10)
- XMT® 400 (pg 48)

Suggested guns

- Bernard® Guns (pg 24–25)
- XR-Aluma-Pro™ Plus and XR™-Pistol Plus (pg 28) (Intellex Elite model only)

Most popular accessories

- ArcConnect™ Control/Motor Cables (pg 130)
 - 280471009 9 ft. (2.7 m)
 - 280471025 25 ft. (7.6 m)
 - 280471050 50 ft. (15.2 m)
 - 280471075 75 ft. (22.9 m)
 - 280471150 150 ft. (45.7 m)
- Spool Adapter 047141 (pg 130)



- **Spool Covers** (pg 130)
 - 295231 For single-wire models and left side of dual-wire models
 - 296171 For right side of dual-wire models
- Hanging Bail 058435
- Wire Reel Assembly 108008
- Pipe Post with 18 in. Base
 - 149838 4 ft.
 - 149839 6 ft.
- Swingpak Base 183997
- Single/Dual Spool Carrier for 6 ft. Pipe Post 300352

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

Intellex Swingarc™

Order each separately

- Required pipe post
- Required power source: Deltaweld 350 or 500 or XMT 400
- Optional Swingpak base



SWINGARC MODEL	STOCK NO. WITH INTELLEX PRO (SINGLE- OR DUAL-WIRE FEEDER)		STOCK NO. WITH INTELLEX ELITE (SINGLE- OR DUAL-WIRE FEEDER)	
12 ft. (3.7 m)	951804001 (single)	951932001 (dual)	951000091 (single)	951000092 (dual)
16 ft. (4.9 m)	951806001 (single)	—	951000093 (single)	—

Intellex Swingarc models include .035/.045 in. V-groove drive rolls and a Bernard® BTB Gun 400 A (two with dual-wire models) with AccuLock™ consumables.

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)
Intellex Basic	951783001 Single-wire feeder with gun 951815001 Dual-wire feeder with two guns	50 VDC	600 A at 113 VDC, 60% duty cycle	50–780 ipm (1.3–19.8 m/min.)	Solid wire: .023–5/64 in. (0.6–2.0 mm) Flux-cored: .045–3/32 in. (1.1–2.4 mm)	18 in. (457 mm), 60 lb. (27 kg)	Single: H: 16.25 (413) W: 12.38 (314) D: 27.88 (708) Dual: H: 14 (356) W: 18 (457) D: 34.5 (876)	Single: 44.8 (20.3)
Intellex Pro	951784001 Single-wire feeder with gun 951816001 Dual-wire feeder with two guns							Dual: 77 (34.9)
Intellex Elite	951941001 Single-wire feeder with gun 951942001 Dual-wire feeder with two guns							

20 Series Bench Feeders

Available in basic and digital models, these simple and cost-effective bench feeders are for heavy-industrial manufacturing and fabricating.



20 Series Basic

20 Series Digital

20 Series Features		
FEATURE	BASIC	DIGITAL
Available with Bernard® gun: BTB Gun 400 A	+	+
Trigger control	+	+
Digital meter(s)	❖	+
Remote voltage control	❖	+
Adjustable run-in control	❖	+
❖ Field option + Standard		

Feeders include a 10 ft. interconnecting cord and are available with drive rolls and a Bernard® BTB Gun 400 A (see chart below).



Key features

AccuLock™ 20 Series wire feeders with a Bernard® BTB Gun include AccuLock™ consumables (see chart below).

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

Miller® standard quick-change drive rolls save time.

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

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

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

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

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

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

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

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



Use with CV, DC power sources.

Heavy industrial processes

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

Suggested power sources

- Deltaweld® 350/500 with 14-pin (pg 10)
- XMT® Series (pg 48–51)

Suggested guns

- Bernard® Guns (pg 24–25)

Most popular accessories



- Feeder Cart 142382 (pg 121)
- Extension Cables (pg 130)



- Spool Adapter 047141 (pg 130)



- Spool Cover 295231 (pg 130)
- Wire Straightener (pg 130)
- Field Kits for 20 Series Basic
 - 301513 Digital meter and remote voltage control
 - 301515 Run-in control
- Hanging Bail 058435
- Wire Reel Assembly 108008

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



Wire Feeders
Bench

STOCK NO.	INPUT POWER	WIRE FEED SPEED	WIRE DIAMETER CAPACITY	MAX. SPOOL SIZE CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
301499 Basic feeder only	24 VAC,	75–750 ipm	.023–5/64 in. (0.6–2.0 mm)	60 lb. (27 kg) coil	H: 16 (406)	46 (21)
951779001 Basic feeder with gun	3.5 A,	(1.9–19 m/min.)		with optional wire reel assembly (108008)	W: 12.38 (314)	
301499001 Digital feeder only	50/60 Hz				D: 27.88 (708)	
951780001 Digital feeder with gun						



74 MPa Plus Bench Feeders

Heavy-industrial bench feeders with features for weld control and programs, plus push-pull aluminum capabilities.

Wire Feeders
Bench



S-74 MPa Plus

D-74 MPa Plus

Feeders include a 10 ft. interconnecting cord, drive rolls and a Bernard® BTB Gun 400 A (two with dual-wire models).



74 MPa Plus Features

FEATURE	
Available with Bernard® gun: BTB Gun 400 A	+
Trigger control	+
Digital meters	+
Remote voltage control	+
Adjustable run-in control	+
Automatic run-in control	+
Dual-wire models	+
Rotatable drive assembly	+
Accu-Mate™	+
Preflow/postflow	+
Spot control	+
Dual schedule control	+
Sequence control	+
Trigger program select	+
Trigger dual schedule	+
Trigger schedule select	+
Weld programs	4
Locks and limits	+
Push-pull capability	+
Synergic pulsed MIG*	+
Profile Pulse™*	+

*With MPa power source.

Key features

AccuLock™ 74 MPa Plus wire feeders include Bernard® BTB Gun(s) with AccuLock™ consumables.

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

Dual schedule control allows switching between two preconfigured welding parameters without readjusting the machine.

Sequence control allows adjustment of all the welding parameters: preflow, run-in, weld time, crater, burnback and postflow.

Trigger program select provides access to four active programs.

Trigger schedule select allows switching between two weld settings by tapping gun trigger.

Four gear-driven quick-change drive rolls.

Recommended aluminum solution. XR Plus push-pull guns (gooseneck and pistol grip) work with MPa Plus feeders to coordinate wire feed speed of the gun and feeder for optimized aluminum feeding and welding performance. See page 28.

Additional features when used with an AlumaPower 450 MPa or XMT 450 MPa power source

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

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



Use with CV, DC power sources.

Heavy industrial processes

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

Suggested power sources

- AlumaPower™ MPa (pg 9)
- Deltaweld® 350/500 with 14-pin (pg 10) (pulsed MIG not available)
- XMT® 450 MPa (pg 48)

Suggested guns

- Bernard® Guns (pg 24–25)
- XR-Aluma-Pro™ Plus and XR™-Pistol Plus (pg 28)

Most popular accessories



- Feeder Cart 142382 (pg 121)
- Extension Cables (pg 130)



- Spool Adapter 047141 (pg 130)



- Spool Covers (pg 130)
295231 For single-wire models and left side of dual-wire models
296171 For right side of dual-wire models

- Wire Straightener (pg 130)
- Hanging Bail 058435
- Wire Reel Assembly 108008

• Remote configurations are available — see page 19 and literature M/3.0

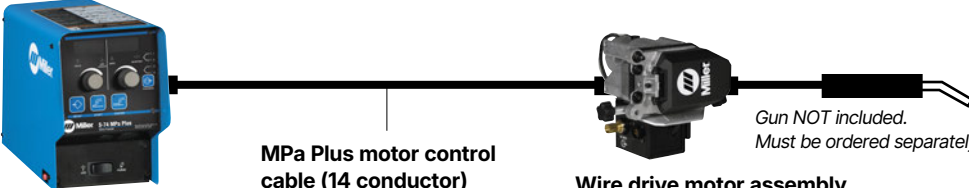
Visit MillerWelds.com or your distributor for other Miller® options and accessories.

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

MODEL/STOCK NO.	INPUT POWER	WIRE FEED SPEED	WIRE TYPE AND DIAMETER CAPACITY	MAX. SPOOL SIZE CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
S-74 MPa Plus 951291001 Single-wire feeder with gun	24 VAC, 10 A, 50/60 Hz	50–780 ipm (1.3–19.8 m/min.)	Solid wire: .023–5/64 in. (0.6–2.0 mm) Aluminum*: .035–1/16 in. (0.9–1.6 mm)	60 lb. (27 kg) coil with optional wire reel assembly (108008)	H: 14 (356) W: 12.5 (318) D: 28 (711)	48 (21.2)
D-74 MPa Plus 951292001 Dual-wire feeder with two guns					H: 14 (356) W: 21 (533) D: 35 (889)	87 (39.5)

74 MPa Plus Remote Configurations

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

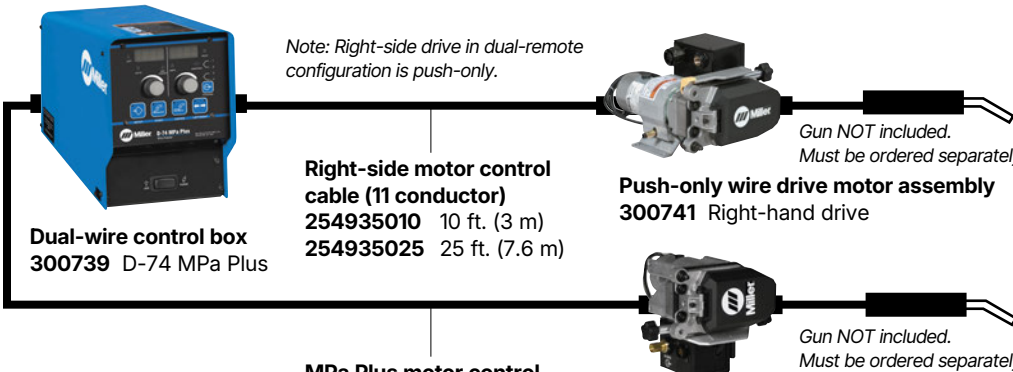


Single-wire control box
300738 S-74 MPa Plus

MPa Plus motor control cable (14 conductor)
254864010 10 ft. (3 m)
254864025 25 ft. (7.6 m)
254864050 50 ft. (15.2 m)

Wire drive motor assembly
300740 MPa Plus left-hand drive
For use with push-only guns, **OR** XR-Aluma-Pro™ Plus and XR™-Pistol Plus push-pull guns.

Gun NOT included. Must be ordered separately.



Dual-wire control box
300739 D-74 MPa Plus

Note: Right-side drive in dual-remote configuration is push-only.

Right-side motor control cable (11 conductor)
254935010 10 ft. (3 m)
254935025 25 ft. (7.6 m)

Push-only wire drive motor assembly
300741 Right-hand drive

MPa Plus motor control cable (14 conductor)
254864010 10 ft. (3 m)
254864025 25 ft. (7.6 m)
254864050 50 ft. (15.2 m)

Wire drive motor assembly
300740 MPa Plus left-hand drive
For use with push-only guns, **OR** XR-Aluma-Pro™ Plus and XR™-Pistol Plus push-pull guns.

Gun NOT included. Must be ordered separately.



Use with CV, DC power sources.

Heavy industrial processes

- MIG (GMAW)
- Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MPa power source

Suggested power sources/guns

- Same as 74 MPa Plus bench feeder

Most popular accessories



- Feeder Base 195369 For use with spooled wire

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

Wire Feeders
Remote Configurations

Wire Feeder/Power Source Compatibility

MODEL	ARC REACH® 16	ARC REACH® SUITCASE® 8 AND 12	ARC REACH® SMART FEEDER	SUITCASE® 12RC	INTELLX™ BASIC, PRO AND ELITE	20 SERIES BASIC AND DIGITAL	74 MPa PLUS
AlumaPower™ 450 MPa (pg 9)		❖		❖		❖	+
Deltaweld® 350 or 500 (pg 10)				❖	+	❖	❖
Maxstar® 280 Multiprocess (pg 47)		❖					
Dynasty® 300 Multiprocess (pg 47)		❖					
XMT® 400 (pg 48)	❖	❖		+	+	+	❖
XMT® 450 CC/CV or MPa (pg 48)	❖	❖		+		+	+
XMT® 650 (pg 48)	❖	❖		+		+	❖
XMT® 400 ArcReach® (pg 50)	+	+	+ ²	+		❖	❖
XMT® 450 CC/CV ArcReach® (pg 50)	❖	+		+		❖	❖
XMT® 650 ArcReach® (pg 50)	+	+	+ ²	+		❖ ³	❖
Bobcat™ 200 Air Pak™ (pg 84)		❖					
Bobcat™ 230 (pg 80)		❖					
Bobcat™ 230 3 Phase (pg 80)		❖					
Bobcat™ 265 or 265 Air Pak™ (pg 80/85)		❖		+			
Trailblazer® 330 or 330 Air Pak™ (pg 82/85)		+	+				
Big Blue® Series (pg 86–89)		+ ¹	+ ²	+			

Capability: ❖ Compatible with this power source + Optimized for this power source

¹ Optimized for Big Blue ArcReach-equipped models. Compatible with Big Blue non-ArcReach models.

² Requires XMT 400 ArcReach or 650 ArcReach connected to three-phase power or a compatible ArcReach-equipped engine drive.

³ Not compatible with polarity reversing model. ⁴ Optimized for XMT 450 MPa. Compatible with XMT 450 CC/CV.



Hobart® Filler Metals

Offering solutions to improve weld quality, increase productivity and lower costs are among the foremost priorities of the Hobart brand. It's also what has helped the Hobart brand earn its reputation as an experienced leader in the industry.



Hobart® Flux-Cored Wire



FabCO Triple 7

FabCO® Triple 7

- AWS: A5.20: E71T-1C/M H8, E71T-9C/M H8
- Gas-shielded, flux-cored wire
- Exceptional puddle control in all positions
- Low spatter
- Effortless slag removal
- Reduces post-weld cleaning and rework
- Excellent weldability on mixed gas and 100 percent CO₂
- Low hydrogen weld deposit



FabCO XL-550

FabCO® Excel-Arc™ 71

- AWS: A5.20: E71T-1C/M H8, E71T-9C/M H8
- Gas-shielded, flux-cored wire
- Fast-freezing slag
- Easy slag removal
- Low fumes and spatter
- Good impact toughness
- Able to bridge poor fit-up without burn-through



Fabshield XLR-8

FabCO® TR-70

- AWS: A5.20: E70T-1C H8/-9C H8
- Gas-shielded, flux-cored wire
- Low fume generation rate
- High-deposition rate
- Low fumes and spatter
- Flat bead profile with fillet weld
- Easy slag removal

FabCO® 811N1

- AWS: A5.29: E81T1-Ni1CJ H4/-Ni1MJ H4
- Gas-shielded, flux-cored wire
- Fast-freezing slag
- Robust impact toughness
- Low spatter
- Excellent slag removal

FabCO® XL-550

- AWS: A5.20: E71T-1CJ/-9CJ/-12CJ H4
- Gas-shielded, flux-cored wire
- Fast-freezing slag
- Robust impact toughness
- Low spatter
- Excellent slag removal

FabCO® XL-525

- AWS: A5.20: E71T-1MJ/-9MJ/12MJ H8
- Gas-shielded, flux-cored wire
- Low fume generation rate
- Fast-freezing slag
- Robust impact toughness
- Low spatter
- Excellent slag removal

Fabshield® XLR-8™

- AWS: A5.20: E71T-8JD-H8
- Self-shielded, flux-cored wire
- Exceptional puddle control in all positions
- Low spatter
- Effortless slag removal
- Reduces post-weld cleaning and rework
- Low hydrogen weld deposit

Fabshield® XLNT-6™

- AWS: A5.20: E70T-6
- Self-shielded, flux-cored wire
- Excellent slag removal
- Good impact strength at low temperatures
- Suitable for welding outdoors
- Resists cracking in severe applications





Hobart® Metal-Cored Wire and Solid Wire



FabCOR Element XP

FabCOR® Element™ XP

- AWS A5.18: E70C-6M-H4
- Gas-shielded, metal-cored wire
- Meaningful environmental benefits
- Reduces post-weld cleaning and rework
- Market-leading silicon control technology
- Excellent deposition rates
- Robust low-temp impact properties
- Low heat input and improved gap-bridging



Quantum Arc 6

FabCOR® Elevate™

- AWS: A5.18: E70C-6M-H4
- Gas-shielded, metal-cored wire
- Deposition rates up to 10 percent higher than other metal-cored wires and up to 30 percent higher than solid wires
- Market-leading silicon control technology
- Forgiving arc characteristic
- Robust low-temp impact properties
- High productivity in handheld and automation
- Reduces post-weld cleaning and rework

FabCOR® 86R

- AWS: A5.18: E70C-6M-H4
- Gas-shielded, metal-cored wire
- Good weldability at high-deposition rate
- Smooth arc characteristic
- Robust low-temp impact properties
- Virtually no slag coverage
- Low spatter — reduces post-weld cleaning

Quantum Arc™ 3 and 6

- AWS: A5.18: ER70S-3 and ER70S-6
- Solid wire
- Excellent feedability
- Quantum Arc 3: For use with CO₂ or argon-rich shielding gases
- Quantum Arc 6: High in oxidizers for applications with light rust or mill scale

Hobart® Aluminum TIG and Solid Wire



MaxalTig 4043/
MaxalMig 4943

MaxalTig® 4043

- AWS: A5.10: R4043
- Moderate strength (27 ksi typical)
- Excellent corrosion resistance
- Low welding smut and discoloration
- Low hot cracking sensitivity in most applications
- Low ductility, formability, and lower toughness

MaxalMig® 4943

- AWS: A5.10: ER4943
- Moderate/high strength (33 ksi typical)
- Low welding smut and discoloration
- Excellent corrosion resistance
- Low hot cracking sensitivity in most applications
- Low ductility, formability, and lower toughness (similar to 4043)

MaxalMig® 5356

- AWS: A5.10: ER5356
- High strength (40 ksi typical)
- Higher column strength/better feedability
- High ductility/fatigue strength/toughness
- Very good color match after anodizing with 5xxx/6xxx
- Lower electrical and thermal conductivity

Hobart® Stick Electrodes



Hobart 418

Hobart® 418

- AWS: ER7018 H4R, E7018-1 H4R
- General-purpose, low-hydrogen electrode
- Easy to use in all welding positions
- Excellent arc stability
- Low spatter
- Easy slag removal

Hobart® 335A

- AWS: E6011
- Quick starting and clean up
- Excellent penetration
- Superior arc drive





MIG Guns

MODEL	PAGE	CLASS	MIG	PULSED MIG	FLUX-CORED*		WIRE TYPES			WIRE DIAMETER CAPACITY	AVAILABLE CABLE LENGTHS	TYPICAL APPLICATIONS
					FLUX-CORED*	SOLID	FLUX-CORED		ALUM.			
							GAS-SHLD	SELF-SHLD				
STEEL	MIGmatic™ M-100 MIG Gun	22	●	+	+	+	+	+	+	+.023-.045 in. (0.6-1.2 mm)	10 ft.	Light industrial steel fabrication
	MIGmatic™ M-150 MIG Gun	22	●	+	+	+	+	+	+	+.023-.045 in. (0.6-1.2 mm)	15 ft.	Light industrial steel fabrication
	MDX™-100 MIG Guns	23	●	+	+	+	+	+	+	+.023-.035 in. (0.6-0.9 mm)	10 or 15 ft.	Light industrial steel fabrication
	MDX™-250 MIG Guns	23	■	+	+	+	+	+	+	+.023-.045 in. (0.6-1.2 mm)	10 or 15 ft.	Industrial steel fabrication
	Bernard® BTB MIG Guns	24	▲	+	+	+	+	+	+	+.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	25	▲	+	+	+	+	+	+	+.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	25	▲			+			+	+.062-3/32 in. (1.6-2.4 mm)	15 ft.	Heavy industrial steel fabrication
ALUMINUM	Spoolmate™ 100 Spool Gun	26	●	+					+	+.023-.035 in. (0.6-0.9 mm)	12 ft.	Light industrial aluminum fabrication
	Spoolmate™ 150 Spool Gun	26	●	+					+	+.030-.035 in. (0.8-0.9 mm)	20 ft.	Light industrial aluminum fabrication
	Spoolmate™ 200 Spool Gun	26	●	+					+	+.023-.035 in. (0.6-0.9 mm)	20 ft.	Light industrial aluminum fabrication
	Spoolmate™ 3035 Spool Gun	26	●	+					+	+.023-.035 in. (0.6-0.9 mm)	20 ft.	Light industrial aluminum fabrication
	Spoolmatic® Spool Guns	27	■	+	+	+	+	+	+	+.030-1/16 in. (0.8-1.6 mm)	15 or 30 ft.	Industrial aluminum fabrication
	XR-Aluma-Pro™ Lite Push-Pull Gun	28	■	+	+	+	+		+	+.030-.047 in. (0.8-1.2 mm)	25 ft.	Industrial aluminum fabrication
	XR-Aluma-Pro™ Push-Pull Guns	28	▲	+	+	+	+		+	+.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	28	▲	+	+	+	+		+	+.030-1/16 in. (0.8-1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
	XR™-Pistol Push-Pull Guns	28	▲	+	+	+	+		+	+.030-1/16 in. (0.8-1.6 mm)	15 or 30 ft.	Heavy industrial aluminum fabrication
	XR™-Pistol-Pro Push-Pull Guns	28	▲	+	+	+	+		+	+.030-1/16 in. (0.8-1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
XR™-Pistol Plus Push-Pull Guns	28	▲	+	+	+	+		+	+.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 5)
- Multimatic® 215 PRO (pg 43)
- Multimatic® 220 AC/DC (pg 44)

Most popular accessories

- MIGmatic M-Series Consumable Kits (pg 125)
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 23)

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)

MDX™ Series MIG Guns

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



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.



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 4)
- Millermatic® 211 PRO (pg 5)
- Multimatic® 215 PRO (pg 43)
- Multimatic® 220 AC/DC (pg 44)

For MDX-250

- Millermatic® 252 (pg 6)
- Millermatic® 255 (pg 7)
- Multimatic® 235 (pg 45)
- Multimatic® 255 (pg 46)

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.

MIG Guns
Steel



Rugged and reliable Bernard® welding guns have been customized to match the performance of many Miller® industrial wire feeders and power sources.

For more information, visit BernardTregaskiss.com

MIG Guns

Bernard® Semi-Automatic Guns

BTB Air-Cooled MIG Guns

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



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



See chart below for a pre-configured BTB MIG gun. Scan the QR code or visit BernardTregaskiss.com/ConfigureMyGun to configure your BTB MIG gun.

¹Comes 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 small 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 small 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 large	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 8)

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

- Deltaweld® 350/500 (pg 10)
- Maxstar® 280 Multiprocess (pg 47)
- Dynasty® 300 Multiprocess (pg 47)
- XMT® Series (pg 48–52)
- Bobcat™ Series (pg 80)
- Trailblazer® 330 Series (pg 82)
- Bobcat™ 200 Air Pak™ (pg 84)
- Bobcat™ 265 Air Pak™ (pg 85)
- Trailblazer® 330 Air Pak™ (pg 85)
- Big Blue® Series (pg 86–89)

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.



Bernard® Semi-Automatic Guns

Clean Air E™ Fume Extraction 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



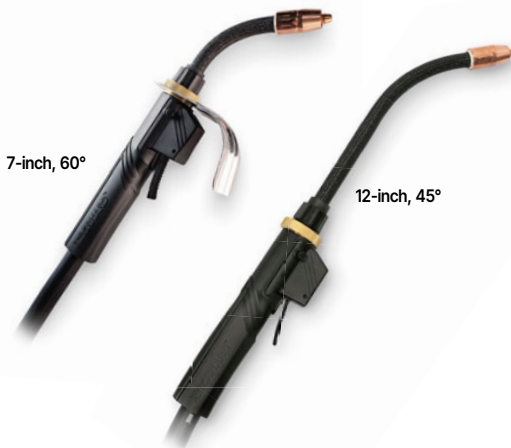
See chart below for a pre-configured Clean Air E MIG gun. Scan the QR code to configure your Clean Air E MIG gun.

- 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.



7-inch, 60°

12-inch, 45°

- 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 8)

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

- Deltaweld® 350/500 (pg 10)
- Maxstar® 280 Multiprocess (pg 47)
- Dynasty® 300 Multiprocess (pg 47)
- XMT® Series (pg 48–52)

For IronPro guns only

- Bobcat™ Series (pg 80)
- Trailblazer® 330 Series (pg 82)
- Bobcat™ 200 Air Pak™ (pg 84)
- Bobcat™ 265 Air Pak™ (pg 85)
- Trailblazer® 330 Air Pak™ (pg 85)
- Big Blue® Series (pg 86–89)

Suggested fume extractors

For Clean Air E guns only

- FILTAIR® 130 (pg 102)
- FILTAIR® 215 (pg 103)

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 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.





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 4)
- Millermatic® 211 PRO (pg 5)
- Multimatic® 215 PRO (pg 43)
- Multimatic® 220 AC/DC (pg 44)
- Multimatic® 235 (pg 45)
- Syncrowave® 212 (pg 60) (requires adapter 266638)

For Spoolmate 200

- Millermatic® 252 (pg 6)
- Millermatic® 255 (pg 7)
- Millermatic® 355 (pg 8)
- Multimatic® 235 (pg 45)
- Multimatic® 255 (pg 46)
- Bobcat™ 265 (pg 80)
- Trailblazer® 330 Series (pg 82)
- Bobcat™ 200 Air Pak™ (pg 84)
- Bobcat™ 265 Air Pak™ (pg 85)
- Trailblazer® 330 Air Pak™ (pg 85)

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.



Use with CC/CV,
DC power sources.



MIG Guns
Aluminum



Spoolmatic

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.



Spoolmatic Pro

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 6)
- Millermatic® 255 (pg 7)
- Millermatic® 355 (pg 8)
- Multimatic® 235 (pg 45)
- Multimatic® 255 (pg 46)

For both Spoolmatic models

- Bobcat™ 265 (pg 80)
- Trailblazer® 330 Series (pg 82)
- Bobcat™ 200 Air Pak™ (pg 84)
- Bobcat™ 265 Air Pak™ (pg 85)
- Trailblazer® 330 Air Pak™ (pg 85)

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

- AlumaPower™ 450 MPa (pg 9)
- XMT® Series (pg 48–52)
- Big Blue® Series (not compatible with Big Blue 450 Duo CST) (pg 86–89)

Most popular accessories

- WC-115A 137546 (pg 130)
- WC-115A with contactor 137546011 (pg 130)
- WC-24 137549 (pg 130)

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 15 ft. (4.6 m) cable 130831 30 ft. (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 wire: .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 15 ft. (4.6 m) cable 301148 30 ft. (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 wire: .030–.045 in. (0.8–1.1 mm)	4 in. (102 mm)	H: 10.75 in. (273 mm) W: 2.5 in. (64 mm) D: 15.375 in. (390 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 and Plus models reduce service time by allowing drive roll and head tube change, or performing routine maintenance, without disassembly of gun.

MIG Guns
Aluminum



XR-Aluma-Pro Lite

XR-Aluma-Pro™ Lite

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



XR-Aluma-Pro

XR-Aluma-Pro™ and Aluma-Pro Plus

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



XR-Pistol

XR™-Pistol

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



XR-Pistol-Pro

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 7) (XR-Aluma-Pro Lite, XR-Aluma-Pro and XR-Pistol-Pro guns only)
- Millermatic® 355 (pg 8) (XR-Aluma-Pro Lite, XR-Aluma-Pro and XR-Pistol-Pro guns only)
- Multimatic® 255 (pg 46) (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 9)

- AlumaPower™ 450 MPa (pg 9)
- Deltaweld® 350/500 (pg 10) (14-pin receptacle models only)
- XMT® Series (pg 48–52)
- Trailblazer® 330 Series (pg 82)
- Trailblazer® 330 Air Pak™ (pg 85)

For Plus guns

- AlumaPower™ 450 MPa (pg 9) with 74 MPa Plus feeder (pg 18)
- Deltaweld® 350/500 (pg 10) with Intellix™ Elite feeder (pg 16)
- XMT® Series (except XMT polarity reversing models) (pg 48–52) with 74 MPa Plus feeder (pg 18)

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.)			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.)			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.)			2.2 lb. (1 kg)
	Water-cooled	—	300757	—	—	400 A at 100% duty cycle				2.4 lb. (1.1 kg)



PERFORMARC™

ROBOTIC WELDING SYSTEM



A family of pre-engineered automation cells to increase productivity and improve weld quality.



Indexing Flat Table

Single-station load/unload systems

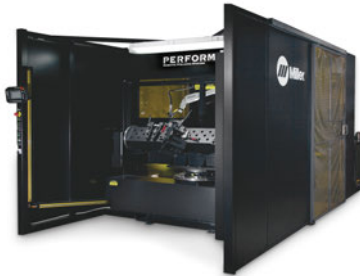
- PA350S 350 lb./side, 66 in. servo indexing table
- PA750S 750 lb./side, 92 in. servo indexing table
- PA1500SW 1,500 lb./side, 108 in. servo indexing table



Side-by-Side

Dual-station load/unload systems

- PA1100SS 1,100 lb./side, 120 in. long x 44 in. turning diameter
- PA2200SS 2,200 lb./side, 120 in. long x 70 in. turning diameter
- PA5500SS 5,500 lb./side, 120 in. long x 70 in. turning diameter



Indexing Rotational Table

Single-station load/unload systems

- PA1100HW 1,100 lb./side, 60 in. long x 40 in. turning diameter



Ferris Wheel

Single-station load/unload systems

- PA1100FW 1,100 lb./side, 118 in. long x 43 in. turning diameter

Key features

Fast installation. Pre-wired and pre-assembled make setup fast and easy. Most systems are up and running in under two hours from delivery (connect power/wire/gas/floor mounting/install tooling).

Integrated controls. Control station and full-color teach pendant keep the operator informed, maximizing production uptime.

Flexibility. Fully welded frame allows easy relocation and reconnection as production plans or layouts change.

Increased productivity. Operator can load and inspect parts while robot is welding.

Modification. Select your preferred system layout and modify it with industry-leading technology to meet your production demands.

To order automation solutions: Contact local Miller district manager or email MWAService@MillerWelds.com

For automation service/parts: Call 1-630-653-6819 or email MWAService@MillerWelds.com

Automation Components



Auto Deltaweld™ and Auto-Continuum™ power sources and wire drives (pg 31–32)



Tregaskiss® robotic MIG torches and reamers (pg 38–39)



Insight Centerpoint™ and ArcAgent™ Welding Intelligence™ (pg 40–41)



FILTAIR® weld fume extraction system with low profile hood (pg 106–107)



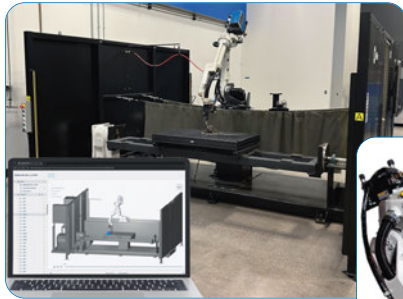
Miller recommends Hobart® filler metals (visit HobartBrothers.com)



IntelliPath™

IntelliPath is a cloud-based software that greatly simplifies weld programming. Powered by intelligent, easy-to-use functionality, this software pairs with Miller® PerformArc™ robotic welding cells to amplify production.

Automation



NEW!



Key features

Auto-collision avoidance provides an accurate taught program.

Auto-path generation reduces programming complexity.

Auto-joint identification builds robot programs 10 times faster compared to using a pendant.

Cloud based. Increase accessibility and collaboration between teams.

Intuitive user interface. Learn and become proficient in as little as two hours.

Program offline allows programming without interrupting production flow.

TAWERS Welding Technology

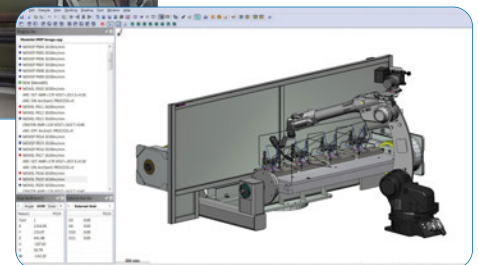
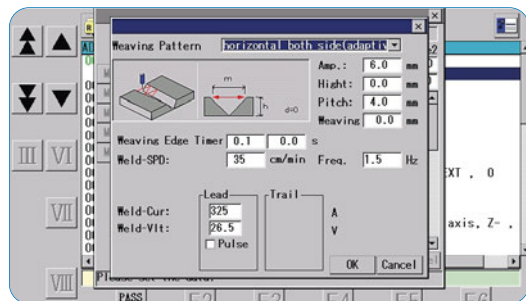


Gas Tungsten Arc Welding (GTAW)

Easily enable the precision and repeatability of the GTAW process within the controller to improve weld quality and consistency.

Super Active Welding Process (SAWP)

An advanced welding process that relies on a servo-driven torch to reduce weld spatter, ensure clean arc striking, improve weld appearance and increase the range of weldable materials.



Thick Plate Welding Software

Easily program the most complex multi-pass weldments through a single menu screen. Included is an icon-driven software interface with multi-pass control and advanced sensors.

Desktop Programming and Simulation (DTPS)

Computer-driven robot programming software allows you to easily program offline to minimize system downtime while maximizing throughput and productivity.

Auto Deltaweld™ 350 and 500

Designed for integrators, Auto Deltaweld is your direct path to incorporate Miller welding technology into your offerings.



Auto Deltaweld 350 shown with user-supplied cobot.



Auto Deltaweld 500 shown with NEW! Auto Elite wire drive on user-supplied robot.

Key features

Easy to use. Programming and operation is driven to the pendant to allow for a single-point user interface.

Advanced welding processes. Specific applications require specific welding processes. Utilize the advanced welding processes provided in the Auto Deltaweld to improve quality and boost productivity.

Easy to integrate. Auto Deltaweld provides both Modbus® TCP and EtherNet/IP™ for direct communications with robotic systems.

Status indicator LED lights indicate communication and connectivity.

Ethernet communication receptacle allows webpage display and access for weld set up, troubleshooting, and power supply configuration.

USB access for software updates and fault information downloading.

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

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



Auto Deltaweld 500 is 3-phase only.

Heavy industrial processes

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

Comes with

- 6.7 ft. (2 m) Ethernet cable

Wire feeding options

- Auto Deltaweld™ Fixed Wire Drive for cobot installations (see bottom of page) — does not include drive rolls
- NEW! Auto Elite Wire Drive for traditional robot installations (see bottom of page) — does not include drive rolls

Most popular accessories

- Fixed Wire Drive Base and Spool Support 301752
- Upright with Hub and Spindle 301753
- Spool Cover 295231
- ArcConnect™ Cables
 - 294080006 6 ft. (1.8 m), 90-degree
 - 280471009 9 ft. (2.7 m)
 - 280471015 15 ft. (4.6 m)
 - 280471025 25 ft. (7.6 m)
- Ethernet Cables
 - 300734 9.8 ft. (3 m)
 - 300736 32.8 ft. (10 m)
- Robotic Arm Mounting Kits (for traditional robot installations only)
 - 301896 FANUC ARC Mate 100/120ID
 - 301893 Kawasaki BA006L
 - 301894 Kawasaki BA013L
 - 301895 Kawasaki RS010L
 - 301890 KUKA KR6 R1440
 - 301891 KUKA KR6 R2010
 - 301864 Panasonic TM G3

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

*KVA and KW for 575-volt model.

POWER SOURCE/STOCK NO.	INPUT POWER	AMP/VOLT RANGES	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 60 HZ						DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
				208 V	230 V	460 V	575 V	KVA	KW		
Auto Deltaweld 350 907862 350 A, 208/230/460 V	3-phase	20–400 A 10–38 V	300 A at 29 VDC, 100% duty cycle	29.3	26.5	14.6	—	11.6	10.0	H: 18.55 (471) W: 15.35 (390) D: 29.15 (740)	115 (52.2)
	1-phase	20–400 A 10–38 V	250 A at 26.5 VDC, 100% duty cycle	—	38.6			8.86	6.79		
Auto Deltaweld 500 907863 500 A, 208/230/460 V 907864 500 A, 575 V	3-phase	30–650 A 10–44 V	500 A at 39 VDC, 100% duty cycle	64.2	58.1	30.4	24.8	24.2	21.7	H: 18.55 (471) W: 15.35 (390) D: 31.65 (804)	145 (65.8)

WIRE DRIVE/STOCK NO.	INPUT POWER	INPUT WELDING CIRCUIT RATING	WIRE FEED SPEED	WIRE DIAMETER CAPACITY	MAXIMUM SPOOL SIZE CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
Auto Deltaweld Fixed Wire Drive 301728 Left-hand drive	50 VDC	600 A at 113 VDC, 60% duty cycle	50–780 ipm (1.3–19.8 m/min.)	.023–5/64 in. (0.6–2.0 mm)	18 in. (457 mm), 60 lb. (27 kg)	H: 9.7 (246) W: 11.8 (300) D: 10.8 (274)	21.2 (9.6)
Auto Elite Wire Drive 301768 Left-hand drive	50 VDC	600 A at 113 VDC, 60% duty cycle	50–780 ipm (1.3–19.8 m/min.)	.023–5/64 in. (0.6–2.0 mm)	—	H: 7.69 (202) W: 9.17 (233) D: 11.05 (281)	16.6 (7.5)





Auto-Continuum™ 350 and 500

Automation welding solution delivering advanced arc performance to improve throughput and weld quality.

Automation

Key features

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



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

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

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

Easy communication from robot to power source.

Designed for easy integration with fixed and flexible automation.

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

Welding Intelligence™. Get more done, produce higher-quality welds and control costs with optional Insight Centerpoint™ (see page 41).



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



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



Heavy industrial processes

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

Most popular accessories

- Insight Centerpoint™ Software (pg 41)
- Auto-Continuum Robotic MIG Kit 301455
Consists of 25 ft. (7.6 m) motor control cable, 15 ft. (4.6 m) 90-degree motor control extension cable, 15 ft. (4.6 m) weld cable, flowmeter regulator with 30 ft. (9.1 m) gas hose, 9.8 ft. (3 m) Ethernet cable, .035/.045-inch V-groove drive roll kit with guides, 30 ft. (9.1 m) weld wire conduit assembly, and 10 ft. (3 m) conduit and clamps (for mounting motor control cable, weld cable and gas hose)
- Wire Drive Motor Mounting Brackets 300013 FANUC/KUKA/Motoman 300483 FANUC 100 and 120 IC
- Continuum Integrated Cooler 301214 Mounts to bottom of power source — does not require external power
- Motor/Control Cables
263368025 25 ft. (7.6 m)
263368050 50 ft. (15 m)
263368080 80 ft. (24.4 m)
263368100 100 ft. (30.5 m)
- 90-degree Motor Control Extension Cables
281554015 15 ft. (4.6 m)
281554025 25 ft. (7.6 m)
- EtherNet/IP™ Communication Cables
300734 9.8 ft. (3 m)
300736 32.8 ft. (10 m)
- DeviceNet Communication Cable 300021 20 ft. (6.1 m)
- DeviceNet to Analog Adapter 301547

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

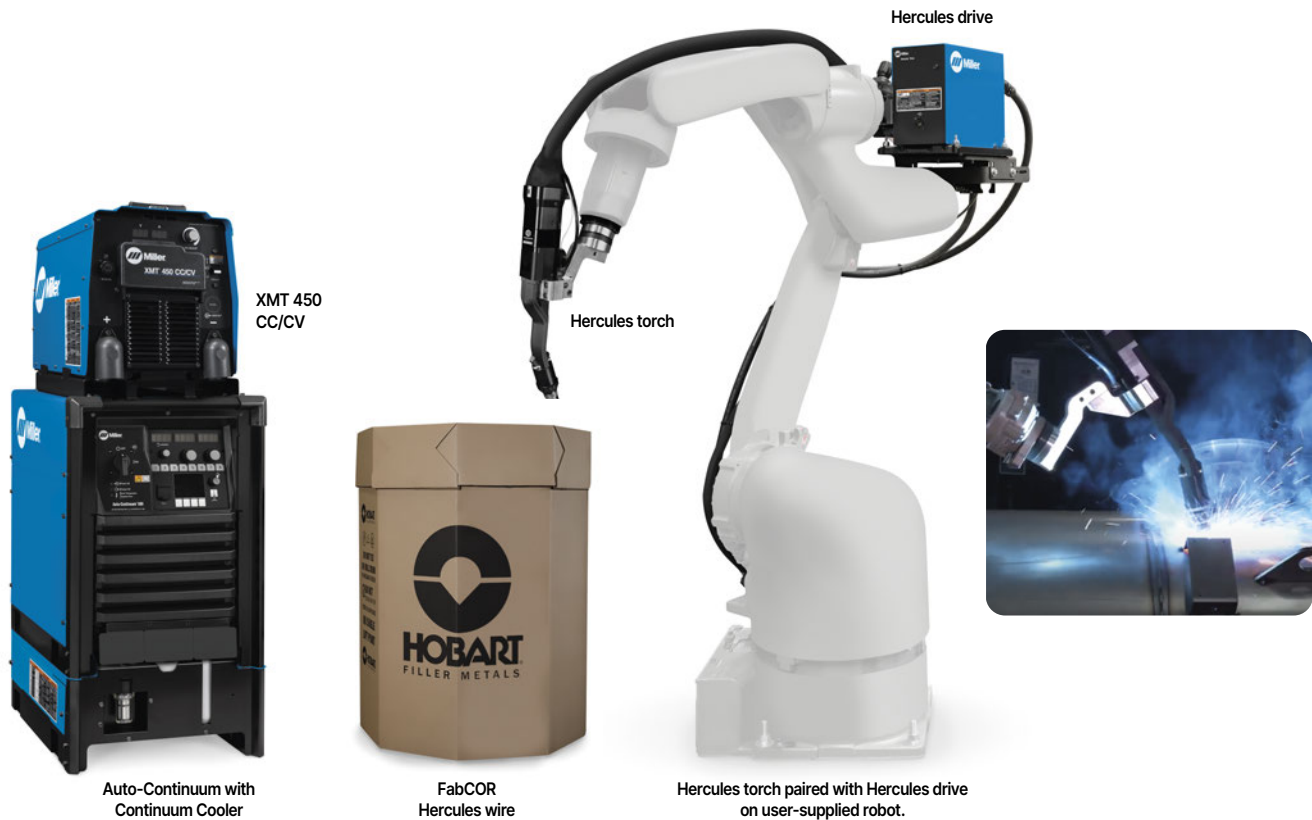
*While idling.

POWER SOURCE/STOCK NO.	AMP/VOLT RANGES	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ							MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
			230 V	380 V	400 V	460 V	575 V	KVA	KW			
Auto-Continuum 350 907656 907658 With auxiliary power	20–400 A 10–44 V	350 A at 31.5 VDC, 100% duty cycle	36.7 0–1*	21.8 0–1*	20.8 0–1*	18.8 0–1*	14.6 0–1*	14.4 0.8*	13.8 0.17*	72 VDC	H: 27.19 (691) (includes lift eye) W: 17.5 (444) D: 28.22 (717)	130 (59.4)
Auto-Continuum 500 907657 907659 With auxiliary power	20–600 A 10–44 V	500 A at 39 VDC, 100% duty cycle	57.6 0–1*	34.7 0–1*	33.2 0–1*	28.9 0–1*	23.3 0–1*	23.1 0.8*	21.9 0.17*	72 VDC	H: 27.19 (691) (includes lift eye) W: 17.5 (444) D: 28.22 (717)	150 (69)
WIRE DRIVE/STOCK NO.	INPUT POWER	INPUT WELDING CIRCUIT RATING	WIRE FEED SPEED		WIRE DIAMETER CAPACITY		DIMENSIONS IN. (MM)		NET WEIGHT LB. (KG)			
Auto-Continuum Wire Drive Motor Assembly 301207 Left-hand drive	50 VDC	500 A at 100% duty cycle	50–1,000 ipm (1.3–25.4 m/min.)		.035–5/64 in. (0.9–2.0 mm)		H: 8.75 (222) W: 10 (254) D: 10 (254)		16.5 (7.5)			



Hercules™ Patented High-Deposition Automated Welding System

Developed by Miller, Hobart and Tregaskiss, the revolutionary Hercules MIG welding system combines Miller® power source and wire feed technology, a specialized Hobart® metal-cored wire and a unique Tregaskiss® torch. Together, they boldly go beyond the welding productivity rates you thought were possible.



Key features

Miller® power sources and Hercules drive. Auto-Continuum and XMT 450 power sources work with the Hercules drive to deliver the big amperage and fast, precise wire feeding the Hercules MIG welding system requires.

Hobart® FabCOR® Hercules™ metal-cored wire. Formulated exclusively for the Hercules system, FabCOR Hercules is the only metal-cored wire that can accommodate faster travel speeds to deliver the Hercules system's higher deposition rates and extraordinary productivity.

Tregaskiss® Hercules™ torch. Dual contacts allow two sources of power input, which are crucial for the high-deposition process. Created specifically for the Hercules MIG welding system, this torch's water-cooled design maximizes electrical conductivity and optimizes filler metal delivery.

Coordination of all the components, along with the unique formulation of the filler metal wire is what makes the Hercules process work. Hercules customers have enjoyed 30 percent and often higher deposition rate improvement over welding processes they previously considered best in class, raising the bar for state-of-the-art, high-deposition-rate welding productivity.

All components sold separately.

Auto-Continuum™ power source (see page 32)

- Stacks atop Continuum Cooler
- Welding processes include Accu-Pulse® and Versa-Pulse™ with profile-pulse modification
- Coordinates with XMT to enable Hercules process

Continuum™ Cooler (see page 32)

- Space-saving design operates on integrated power — turns on and off with the system
- Flow and temperature detection — protection from overheating
- Run-On-Demand — pump shuts off after delay when welding stops
- Options to use Coolmate™ or other coolers

XMT® CC/CV power source (see pages 48–49)

- Controlled by Auto-Continuum
- Provides secondary power input to enable Hercules process

Hercules™ drive

- Controlled by Auto-Continuum
- Provides the speed and precision for Hercules wire

Hobart® FabCOR® Hercules™ cored filler metal

- Unique formulation for Hercules
- Excellent bead appearance

Tregaskiss® Hercules™ water-cooled torch

- Water-cooled
- Tregaskiss consumables
- High duty cycle enables Hercules process
- Automatic water shut-off valves prevent leakage



Copilot™ Collaborative Welding System

Table-based cobot that is our smallest, most versatile welding system. Delivers the productivity and repeatability of robotic welding, utilizing straightforward software programming and collaborative robotics.

Automation



Air-cooled system with Auto Deltaweld 350, touch sensing and through-arc seam tracking shown.

Table-based Copilot collaborative welding system allows operators to load and unload from a single station that can be shared with the robot envelope. It includes a 46-piece Strong Hand Tools® kit with locating pins, clamps, and blocks that work with the 48 x 48 inch tooling surface. Caster wheels and leveling feet allow portability and quick setup. Great for new-to-automation welding challenges and for experienced robotic welders who need the ability to address high-mix, low-volume operating scenarios in a small footprint.

Key features

Air- and water-cooled systems available

- Air-cooled systems include power source and compatible wire drive, welding robot, robotic MIG torch, integrated welding table, 46-piece Strong Hand Tools® kit, and all required interconnecting cables.
- Water-cooled systems add I.C.E.™ technology to the robotic MIG torch, Coolmate™ 1.3 (301617) with four gallons of coolant, pullout shelf for Coolmate, water lines, and cable sleeve.

Full complement of capabilities with Auto Deltaweld™ (see page 31) or Auto-Continuum™ (see page 32). GMAW power sources with Accu-Pulse®, Versa-Pulse™, RMD® and high-deposition MIG advanced processes.

Tregaskiss® CA3 robotic MIG torch with AccuLock™ R consumables (see pages 38 and 39) is engineered for accurate, reliable and repeatable performance that maximizes production uptime and throughput.

Teach pendant carriage allows for convenient hands-free viewing.

Weld-ready tool surface is 48 x 48 inches and outfitted with 5/8-inch tooling holes that are spaced 2 x 2 inches in a 42 x 30 inch pattern on center. Compatible with Bluco® and Strong Hand Tools®, among others.

Note: Bluco® is a registered trademark of Bluco® Corporation. Strong Hand Tools® is a registered trademark of Strong Hand Tools®.

Easy to relocate. Relocate your cobot workstation in four easy steps: unplug equipment and raise leveling feet, push by hand, re-level feet, and plug in equipment.

Ships partially assembled with a video setup guide and instructions. Copilot is mounted on caster wheels for easy positioning and adjustment.

Touch sensing (Auto Deltaweld systems only) utilizes voltage sensing along with programmed torch "sweeps" to positively locate the workpiece position prior to welding.

Through-arc seam tracking (select systems) corrects the robot arc path to accommodate subtle variations in the workpiece geometry. Using feedback from the arc, combined with a weave pattern, the robot can compensate for subtle irregularities from the intended weld path to successfully weld the joint with proper bead appearance and penetration.

*Additional models are available — visit MillerWelds.com.

	MODEL/STOCK NO.*	INPUT POWER	RATED OUTPUT	WIRE FEED SPEED	PAYLOAD CAPACITY	APPROXIMATE DIMENSIONS IN. (MM)	APPROXIMATE SHIPPING WEIGHT LB. (KG)
AIR-COOLED	Copilot with Auto Deltaweld 350 and Auto Deltaweld fixed wire drive 951000110 With touch sensing 951000115 With touch sensing and through-arc seam tracking	208/230/460 V, 3-phase, 60 Hz or 230 V, 1-phase, 60 Hz	350 A at 31.5 V 60% duty cycle	50–780 ipm (1.3–19.8 m/min.)	1,500 lb. (680 kg) with feet 750 lb. (340 kg) with casters	H: 84 (2,134) W: 48 (1,219) D: 52 (1,321)	Max. tool height: Contact Miller Load height: 37 (940)
	Copilot with Auto-Continuum 350 and Auto-Continuum wire drive motor assembly 951000108	Auto-Line™ 230–575 V, 3-phase, 50/60 Hz	350 A at 31.5 V 100% duty cycle	50–1,000 ipm (1.27–25.4 m/min.)			
WATER-COOLED	Copilot with Auto Deltaweld 500 and Auto Deltaweld fixed wire drive 951000134 With touch sensing 951000135 With touch sensing and through-arc seam tracking	208/230/460 V, 3-phase, 60 Hz	500 A at 39 V, 100% duty cycle	50–780 ipm (1.3–19.8 m/min.)			
	Copilot with Auto-Continuum 500 and Auto-Continuum wire drive motor assembly 951000105	Auto-Line™ 230–575 V, 3-phase, 50/60 Hz	500 A at 39 V, 100% duty cycle	50–1,000 ipm (1.27–25.4 m/min.)			



Copilot™ Builder™ Collaborative Welding System

Configurable cobot that is our smallest, most versatile welding system. Delivers the productivity and repeatability of robotic welding, utilizing straightforward software programming and collaborative robotics.



Water-cooled Copilot Builder shown with Auto Deltaweld 500, touch sensing and through-arc seam tracking.

Teach pendant with easel

Key features

Air- and water-cooled systems available

- Air-cooled systems include Auto Deltaweld™ power source and Auto Deltaweld™ fixed wire drive, welding robot, robotic MIG torch, and all required interconnecting cables.
- Water-cooled systems add I.C.E.™ technology to the robotic MIG torch, Coolmate™ 1.3 (301617) with four gallons of coolant, water lines, and cable sleeve.

Full complement of capabilities with Auto Deltaweld™ (see page 31). GMAW power source with Accu-Pulse®, Versa-Pulse™, RMD® and high-deposition MIG advanced processes.

Tregaskiss® CA3 robotic MIG torch with AccuLock™ R consumables (see pages 38 and 39) is engineered for accurate, reliable and repeatable performance that maximizes production uptime and throughput.

Teach pendant holder allows for convenient programming.

Ships partially assembled with a video setup guide and instructions.

Touch sensing utilizes voltage sensing along with programmed torch “sweeps” to positively locate the workpiece position prior to welding.

Through-arc seam tracking (select systems) corrects the robot arc path to accommodate subtle variations in the workpiece geometry. Using feedback from the arc, combined with a weave pattern, the robot can compensate for subtle irregularities from the intended weld path to successfully weld the joint with proper bead appearance and penetration.

Configurable Copilot Builder collaborative welding system comes on a pallet, allowing components to be detached and rearranged to suit the challenges of your application. Builder model allows for table, horizontal, flat and inverted mount options. Further customize your Builder with cable length options. Great for new-to-automation welding challenges and for experienced robotic welders who need the ability to address high-mix, low-volume operating scenarios in a customizable footprint.

*Additional models are available — visit MillerWelds.com.

	MODEL	STOCK NO. *	INPUT POWER	RATED OUTPUT	WIRE FEED SPEED	PALLET DIMENSIONS IN. (MM)	APPROXIMATE SHIPPING WEIGHT LB. (KG)
AIR-COOLED	Copilot with Auto Deltaweld 350	With touch sensing 951000161 With 16.4 ft. (5 m) cables 951000162 With 26.2 ft. (8 m) cables	208/230/460 V, 3-phase, 60 Hz or 230 V, 1-phase, 60 Hz	350 A at 31.5 V 60% duty cycle	50–780 ipm (1.3–19.8 m/min.)	48 x 38 (1,219 x 965)	700 (318)
		With touch sensing and through-arc seam tracking 951000179 With 16.4 ft. (5 m) cables 951000180 With 26.2 ft. (8 m) cables					
AIR-COOLED	Copilot with Auto Deltaweld 500	With touch sensing 951000167 With 16.4 ft. (5 m) cables 951000168 With 26.2 ft. (8 m) cables	208/230/460 V, 3-phase, 60 Hz	500 A at 39 V, 100% duty cycle			
		With touch sensing and through-arc seam tracking 951000185 With 16.4 ft. (5 m) cables 951000186 With 26.2 ft. (8 m) cables					
WATER-COOLED	Copilot with Auto Deltaweld 500	With touch sensing 951000173 With 16.4 ft. (5 m) cables 951000174 With 26.2 ft. (8 m) cables	208/230/460 V, 3-phase, 60 Hz	500 A at 39 V, 100% duty cycle			
		With touch sensing and through-arc seam tracking 951000191 With 16.4 ft. (5 m) cables 951000192 With 26.2 ft. (8 m) cables					



Longitudinal Seam Welding Systems

Jetline® longitudinal seam welders provide precise, high-speed linear welding for cylinders, flat sheets, and coiled materials. Each model features aluminum hold-down fingers with copper tips for optimal heat control and toe-touch clamp activation for operator convenience. All units come standard with the 9700T control, with an optional 9900 upgrade. Configurations include external, internal, combination, elevating (up to 96-inch OD), and bench-style models to accommodate a wide range of part sizes.



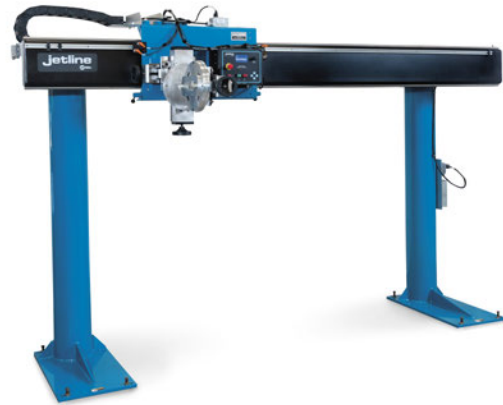
Circumferential Welding Systems

Jetline® precision lathes and circumferential welders handle parts from under one pound to 10,000 pounds and diameters up to 60 inches. Each system includes variable-speed headstocks and air-operated adjustable tailstocks for stable clamping and consistent weld quality. Models are available in precision, light-, medium-, and heavy-duty configurations, providing a tailored solution for any application.



Weld Head Locators

Jetline® precision weld head locators provide universal positioning for circumferential and linear welding applications. They feature linear rails for accurate travel, 360-degree column rotation for full fixture access, and remote pendant operation for ease of use. Offered in 6 x 6, 9 x 9, and 12 x 12 foot models, each system can be customized with control options and bolt-on accessories to meet specific requirements.



Track and Carriage Systems

Jetline® track and carriage systems are built for rigidity and consistency, and are used for positioning the weld head over the weldment and for linear welds. They consist of three elements — track, carriage, and support posts. Weight capacity of these systems range from 300 to 1,000 pounds with a tracking accuracy of +/- 0.015-inch per 10-foot length.



9700T Controller

Jetline® 9700T controller is our standard control and sequencer designed for motor-driven equipment. It is compatible with most weld processes and can be integrated with other optional Jetline components. It includes a closed-loop control and is Modbus® compatible for higher accuracy and stability.



9900 Controller

Jetline® 9900 controller is a 15-inch touch screen industrial computer with a user-friendly graphical display screen capable of controlling 15 channels.



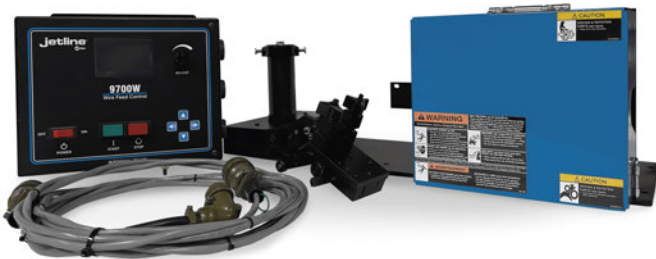
Arc Length Control

Jetline® arc length control maintains a constant arc length by controlling arc voltage in gas tungsten arc welding (GTAW) or plasma arc welding (PAW) applications with a simplified setup and minimal operator intervention.



Seam Tracking Systems

Jetline® tactile seam tracking systems can be used in manual or auto mode to ensure the weld head is consistently positioned for optimal arc performance through a heavy-duty motorized slide which provides a 330-pound payload capacity at 15.7 inches.



Cold Wire Feeder

Jetline® cold wire feeder is used for automated gas tungsten arc welding (GTAW) or plasma arc welding (PAW) applications to add “fill” to a weld joint. Includes a microprocessor control, four-roll feed assembly and wire guide positioner.



Mechanical Oscillators

Jetline® mechanical oscillators are used to weave (or oscillate) the welding arc to meet various welding requirements or to achieve a desired effect.



Tregaskiss® Robotic Torches



Air-Cooled MIG Torches

Atlas™ ThruArm® robotic MIG torch (internal to the robot arm)

- Available in 350-amp models at 100 percent duty cycle (mixed gases)
- Repeatable TCP precision due to a large locating datum and multiple keyed features
- Maximize uptime with fast, simplified maintenance using fewer tools and durable components
- A modular, intuitive design shortens training and minimizes operator error
- Fully shielded components resist debris and spatter, extending torch life in harsh environments

TA3 ThruArm® robotic MIG torch (internal to the robot arm)

- Available in 350-amp models at 100 percent duty cycle (mixed gases)
- Maximize performance with AccuLock™ R consumables
- Wire brake, air blast, and I.C.E.™ technology are options on select models

CA3 robotic MIG torch (external to the robot/cobot arm)

- Available in 350-amp models at 100 percent duty cycle (mixed gases)
- Cable guide minimizes stress on cable connection as robot articulates
- Replaceable unicable cuts costs and downtime — no need to remove the torch from the mounting arm
- Durable neck clamp provides consistent clamping force for TCP accuracy
- Wire brake, air blast, and I.C.E.™ technology are options on select models

I.C.E.™ technology

- Integrated cooling keeps the front end cooler, extending consumable life
- If water-cooling capability is lost, the air-cooled product remains operational

Industrial process

- MIG (GMAW)

Compatible robots for robotic air-cooled torches

- Panasonic® • ABB® • COMAU®
- FANUC® • KUKA® • OTC Daihen®
- Yaskawa® Motoman®

Packages

- PerformArc™ Systems (pg 29)

Most popular accessories

- I.C.E.™ Technology
Adds water-cooling benefits to air-cooled torches to keep front-end consumables running cooler
- Neck Checking Fixture
- TT4 Reamers (pg 39)

Most popular consumables

AccuLock™ R consumables

- Atlas, TA3, CA3 and MA1 Diffusers
D-ATSH Slip-on
D-ATTH Thread-on
- MW1 Diffuser
D-ATTH-MW1 Thread-on
- Atlas, TA3, CA3 and MA1 Nozzles (inches)
Slip-On
401-6-62 5/8 ID, 1/8 recessed
401-30-62 5/8 ID, 1/8 stickout
401-81-62 5/8 ID, 1/8 stickout, tapered
Thread-On
401-14-62 5/8 ID, 1/8 recessed
401-30-62T 5/8 ID, 1/8 stickout
401-20-62 5/8 ID, 1/8 stickout, tapered
- MW1 Nozzles (inches)
Thread-On
601-6-62 5/8 ID, 1/8 recessed
601-5-75 3/4 ID, 1/4 recessed

- Contact Tips (inches)
T-A039CH .039 copper
T-A045CH .045 copper
T-A039ZH .039 CrZr
T-A045ZH .045 CrZr
T-A045WH .045 HDP
T-A052WH .052 HDP

6 ft. QUICK LOAD® Liners

- Atlas, TA3, CA3, MA1 and MW1 Liners (inches)
415-35-6Q .035-.045, E-Z Feed™
415-116-6Q .045-1/16
- Atlas, TA3 and CA3 Liners (inches)
415-35-062Q .035-.045, E-Z Feed™
415-116-062Q .045-1/16, E-Z Feed™

See literature SP-QLL for complete offering.

Visit BernardTregaskiss.com or your distributor for additional Tregaskiss® consumable options.

For more information or to configure your torch online, visit BernardTregaskiss.com/ConfigureMyGun

Tregaskiss® Fixed Automatic Torches



Air-Cooled MIG Torches

MA1 automatic MIG torch

- Available in 385-amp models
- Spring-guard strain relief prevents kinking and abrasion



Water-Cooled MIG Torches

MW1 automatic MIG torch

- Available in 600-amp models complete with thread-on heavy-duty nozzles
- Spring-guard strain relief prevents kinking and abrasion
- Stainless steel water-cooled neck is silver brazed and leak tested





Tregaskiss® TT4 Reamers

TT4 reamer robotic nozzle cleaning stations power through the toughest spatter for increased uptime and weld quality, while extending the life of robotic MIG torches and consumables.



Two models available

- TT4A (analog) reamer
- TT4E (Ethernet) reamer

Standard features

- Factory-equipped reamer shrouds are now included with all TT4 reamers configured specifically for use with your Copilot™ or a collaborative welding cell
- Double capacity anti-spatter reservoir with tethered cap, removable filter, and fluid level indicator that sends a signal to the PLC/robot to alert the operator when anti-spatter liquid is running low
- Dedicated motor lubricator maximizes performance and protects your investment by extending the life of the motor
- Spray containment unit helps prevent air contamination, improving the air quality of the working environment and maintaining the cleanliness of the weld cell

TT4E Ethernet model is designed with the same outstanding durability, serviceability, and repeatability the Tregaskiss TT4 reamer is known for, but with enhanced control optimization, remote monitoring capability and faster troubleshooting to facilitate increased productivity.

Two-year warranty on TT4 reamers, or **extend your warranty to three years** with exclusive use of TOUGH GARD® anti-spatter liquid.

Most popular accessories

- **Wire Cutter**
Removes the ball end of the welding wire to provide smooth arc starts and consistent wire stick-out
- **Nozzle Detect**
Alerts operator if nozzle is missing before attempting to weld
- **RT-1000 Reamer Test Box**
Troubleshoot your TT4A (analog) reamer quickly and easily at a safe distance
- **Reamer Stand**
Available in heights between 18 and 36 inches
- **TOUGH GARD® Anti-Spatter Liquid** (see below)
- **TOUGH GARD® Multi-Feed System**
Eliminates the need to refill sprayer reservoirs by feeding up to 10 reamers from a single 5-gallon or 55-gallon drum of TOUGH GARD® anti-spatter liquid

For more information visit BernardTregaskiss.com/TT4Reamer

Visit BernardTregaskiss.com or your distributor for other Tregaskiss® nozzle cleaning options and accessories.

TOUGH GARD® Anti-Spatter Liquid



TOUGH GARD® anti-spatter liquid is a ready-to-use water-soluble, non-toxic product that creates a sacrificial surface that reduces spatter adhesion. This prolongs the life of your consumables and minimizes downtime for nozzle cleaning, which can help reduce your operating and maintenance costs.

- TG-101-14S** 16.9 fl. oz. (500 mL)
- TG-101-32SP** 32 fl. oz. (946 mL) spray bottle

- TG-101-01** 1 U.S. gallon (3.78 L)
- TG-101-05** 5.28 U.S. gallon (20 L)
- TG-101-55** 55 U.S. gallon (208 L)

AccuLock™ R Consumables

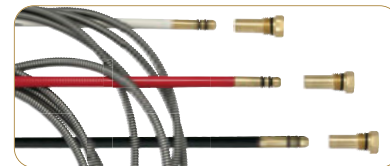


Cutaway of AccuLock™ R slip-on diffuser and contact tip shown

AccuLock™

AccuLock™ contact tips are 60 percent buried within the diffuser for less exposure to the heat of the weld, providing longer tip life and reducing frequency of tip replacement. Upgrading from copper tips to **AccuLock™ HDP contact tips** can increase life up to 10 times, depending on the application.

- AccuLock™ contact tips concentrically align with the diffuser to eliminate cross-threading
- Mating tapers on both tip-to-diffuser and diffuser-to-neck connections provide good electrical conductivity — the contact tip and diffuser can be replaced with no impact to Tool Center Point (TCP)
- Use AccuLock™ R consumables on Tregaskiss® robotic and fixed automatic torches (see page 38) to simplify inventory and reduce replacement errors



QUICK LOAD® liners install from the front of the MIG torch for ease of maintenance and in less than half the time required to install rear load liners.

- Two-piece system with retainer installed inside the power pin on first use
- No need to cut and waste wire
- Avoid climbing over robotic tooling or transfer systems to remove the torch from the wire feeder — change the liner from a safe zone in the robotic work cell
- Compatible with most Tregaskiss® robotic and fixed automatic torches (see page 38)





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

For more information, visit MillerWelds.com/insight

Welding Intelligence™

Insight

WELDING INTELLIGENCE™

Centerpoint



Complete coverage for any application.



Manufacturing



Automation (Auto-Continuum)



14-pin products

Choose the Right Welding Intelligence™ System

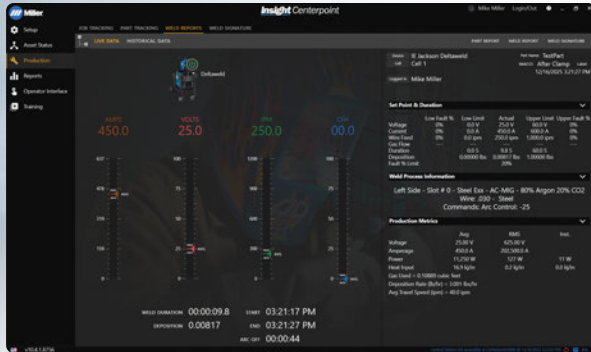
		Insight Centerpoint™		Insight ArcAgent™
		ON-PREMISES PRODUCTIVITY	OPERATOR SEQUENCE GOVERNANCE	PRODUCTIVITY AND OPERATOR GOVERNANCE
For Use With	Factory-Installed	<ul style="list-style-type: none"> Deltaweld® (optional) Auto-Continuum™ (standard) 	<ul style="list-style-type: none"> Deltaweld® (optional) Auto-Continuum™ (optional) 	<ul style="list-style-type: none"> ANY welding power source (old or new) ANY brand ANY welding process
	Field-Installed/Activated	<ul style="list-style-type: none"> 14-pin compliant power source (see MillerWelds.com/insight) 	<ul style="list-style-type: none"> Deltaweld® (optional) 	
Requirements		<ul style="list-style-type: none"> PC and Ethernet connection 	<ul style="list-style-type: none"> PC and Ethernet connection 	<ul style="list-style-type: none"> See Insight ArcAgent literature WI/1.0
What Capability Do You Need?		<ul style="list-style-type: none"> Productivity monitoring Data traceability Weld parameter verification 	<ul style="list-style-type: none"> Reduce training time Reduce missed welds Minimize overwelding/underwelding Electronic work instructions 	<ul style="list-style-type: none"> Universal solution for use with Insight Centerpoint
Data Storage		<ul style="list-style-type: none"> Local server or PC 	<ul style="list-style-type: none"> Local server or PC 	<ul style="list-style-type: none"> See Insight ArcAgent literature WI/1.0



On-premises productivity to measure and improve operations.

Helps you answer

- Who is your most productive operator?
- What is your most productive equipment, station, cell?
- Is your operational efficiency increasing or decreasing?
- What are your true welding costs?

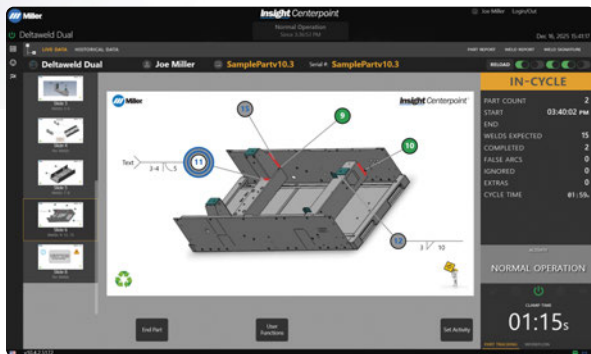


Key features

Measure productivity. See each welder's arc-on time to set baseline, plan improvements, and measure goals.

Reports. Easy-to-understand dashboards show trends and develop reports. Compare welders, cells, and stations.

Easy install and use. Just connect to a PC running Centerpoint. View data on web browser.

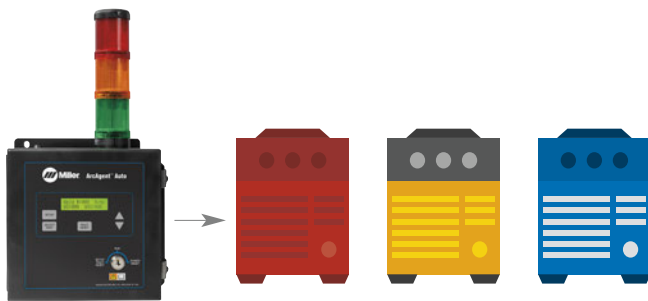


Real-time welder feedback that provides guidance and control within the weld station.

Key features

Reduce training time. Part Tracking™ guides operators through the weld sequence in real time, using visualizations of the part.

Ensure conformance to desired weld process range. Perform weld process validation and control weld operation by monitoring primary parameters of every weld.



Universal brand capability

With an ArcAgent™ module, customers can have the power of Insight Centerpoint on any machine from any manufacturer.

For more information — email insight@MillerWelds.com

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

TYPE	POWER SOURCES*	UNIVERSAL ADAPTABILITY (WORKS WITH ALL BRANDS/MODELS OF POWER SOURCES)	INSIGHT CENTERPOINT SOFTWARE	DEVICE CAPABILITY KEY	ACCESSORIES		
Optional Factory-Installed Insight Centerpoint	Deltaweld® 350 907747002 208/230/460 V Deltaweld® 500 907785002 208/230/460 V 907786002 575 V	Auto-Continuum™ 350 907656 230–575 V Auto-Continuum™ 500 907657 230–575 V	—	301485	Basic 301703 Auto-Continuum only Premium 301490	Insight LTD Gun Q4015JS3EML For Deltaweld Insight LTD Remote 301383 M12/RJ45 Ethernet Cables 300734 9.8 ft. (3 m) 300736 32.8 ft. (10 m)	Field Application Support 195480 Miller field support — contact distributor for details
Field-Installed Insight Centerpoint	Insight Module Field-Install Kit for Deltaweld 289303	Requires ArcAgent Manual or Auto 301345 Manual with Insight torch capability 301346 Auto					



Multiprocess



For more information, visit MillerWelds.com/multiprocess

		LIGHT INDUSTRIAL		INDUSTRIAL			HEAVY INDUSTRIAL			
		Multimatic® 215 PRO (Page 43)	Multimatic® 220 AC/DC (Page 44)	Multimatic® 235 (Page 45)	Multimatic® 255 (Page 46)	Maxstar® 280 Multiprocess (Page 47)	Dynasty® 300 Multiprocess (Page 47)	XMT® 400 Models (Pages 48–52)	XMT® 450 Models (Pages 48–52)	XMT® 650 Models (Pages 48–52)
PROCESS	Short Circuit	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	Pulsed Spray				★★★★			★★★★ ¹	★★★★ ²	★★★★ ³
	Stick	★★	★★	★★★	★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	AC TIG		★★★★				★★★★			
	DC TIG	★★★	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★	★★★
	CAC-A					3/16 in.	3/16 in.	5/16 in.	5/16 in.	3/8 in.
MATERIAL	Mild Steel	+	+	+	+	+	+	+	+	+
	Stainless Steel	+	+	+	+	+	+	+	+	+
	Aluminum	⊕	+	+	+	⊕	+	⊕	⊕ ⁴	⊕
MATERIAL THICKNESS	Gauge (.020–.125 in.)	+	+	+	+	+	+	+	+	+
	Sheet (.125–.375 in.)	+	+	+	+	+	+	+	+	+
	Plate (.375–1 in.)							+	+	+
	Plate (1+ in.)							⊕	⊕	+
WIRE SIZE	.023 in.	+	+	+	+	⊕	⊕	⊕	⊕	⊕
	.030 in.	+	+	+	+	+	+	+	+	+
	.035 in.	+	+	+	+	+	+	+	+	+
	.045 in.	⊕	⊕	+	+	+	+	+	+	+
	.052 in.					⊕	⊕	+	+	+
	1/16 in.							+	+	+
	5/64 in.							+	+	+
	3/32 in.							⊕	⊕	+

Capability: ⊕ Capable of this process + Designed for this process Process Quality: ★ Good ★★ Better ★★★ Best ★★★★★ Optimized

¹XMT400 (non-ArcReach model) requires an Intelx™ Pro or Elite wire feeder. XMT 400 ArcReach requires an ArcReach Smart Feeder.

²XMT 450 MPa model only. ³XMT 650 ArcReach ONLY with an ArcReach Smart Feeder.

⁴XMT 450 CC/CV and ArcReach® models are capable of aluminum welding. MPa models are designed for aluminum welding. XR-AlumaFeed® system is recommended for best results. **NEW! or IMPROVED! products appear in blue type.**

Multimatic® 215 PRO



NEW!



See page 129



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. 3/16 in. (4.8 mm)
Stick Mild Steel	TIG Mild Steel
MIN. 16 ga. (1.5 mm)	MIN. 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



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 all processes (MIG, flux-cored, DC stick and DC TIG) with the ability to fine-tune your settings.
- Set weld parameters by selecting:
 - MIG/flux-cored — wire diameter and material thickness
 - DC stick — electrode type, electrode diameter and material thickness
 - DC TIG — tungsten diameter and material thickness

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.

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.



Gas detect ensures reliable welds by detecting shielding gas presence, displaying alerts for supply issues, and purging the line during startup.

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

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)
- DC stick (SMAW)
- DC TIG (GTAW)

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 26)
 - 300371 Spoolmate 100
 - 301272 Spoolmate 150



- Running Gear/Cylinder Rack 301239 (pg 121)
- Protective Cover 301737 (pg 125)
- TIG Contractor Kit (pg 128)
 - 301917 With wireless foot control
 - 301916 With wired foot control

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

*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) — see page 128 for kit contents	CV: MIG/ flux-cored	120 V	30–140 A	110 A at 19.5 VDC, 60% duty cycle	21.7	—	2.6	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	4.1				
				215 A at 24.8 VDC, 30% duty cycle	—	25.7	6.2	6.2				
	CC: Stick*	120 V	30–100 A	95 A at 23.8 VDC, 40% duty cycle	22.5	—	2.7	2.7				
		240 V	30–200 A	190 A at 27.6 VDC, 20% duty cycle	—	25	6	6				
	CC: TIG	120 V	20–150 A	140 A at 15.6 VDC, 40% duty cycle	22.7	—	2.8	2.8				
		240 V	20–210 A	190 A at 17.6 VDC, 20% duty cycle	—	16.6	4	3.9				



Multimatic® 220 AC/DC

Multiprocess



See page 129

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.

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
- 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
- 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 26)
300371 Spoolmate 100
301272 Spoolmate 150
- 12.5 ft. (3.8 m) Weldcraft™ W-250 TIG torch WP-20-12-R (pg 70)
- Dual Cylinder Rack Cart 951770 (pg 121)



- Coolmate™ 1S 301856 (pg 123) (requires 25 mm Flow Thru Dinse for Water Cooler 301883)
- Protective Cover 301524 (pg 125)
- Wireless Remote Foot Control 301580 (pg 129)

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

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.

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)
					120 V	240 V	KVA	KW				
907757	With RFCS-14 HD foot control	120 V 240 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)	
95100070	With RFCS-14 HD foot control and dual cylinder rack cart			200 A at 24 V, 20% duty cycle	—	27.2	4.8	4.8				
907757002	With wireless foot control			170 A at 21.5 V, 40% duty cycle	—	21.5	3.8	3.8				
951000104	With wireless foot control and dual cylinder rack cart	120 V 240 V	30–90 A	90 A at 23.6 V, 40% duty cycle	24.5	—	2.9	2.9	—	46 VDC		
				200 A at 28.4 V, 15% duty cycle	—	31.3	7.5	7.5				
	CC: TIG	120 V 240 V	20–140 A	130 A at 15.2 V, 40% duty cycle	24.0	—	2.9	2.9				
				210 A at 18.4 V, 20% duty cycle	—	22.4	5.4	5.4				

Multimatic® 235



See page 129

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

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	TIG Mild Steel
MIN. 16 ga. (1.5 mm)	MIN. 24 ga. (0.6 mm)
MAX. 1/4 in. (6.4 mm)	

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



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 26)
 - 300371 Spoolmate 100
 - 301272 Spoolmate 150
 - 300497 Spoolmate 200
- Spoolmatic® Spool Gun (pg 27) (non-Pro gun only)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 122)



- EZ-Latch™ Dual Cylinder Running Gear 951769 (pg 122)
- Protective Cover 301521 (pg 125)
- Multimatic 235/255 TIG Kit 301518 (pg 128)
- 10-Pin to 14-Pin Adapter Cord 301545 (pg 128)
- Wireless Remote Foot Control 301580 (pg 129)

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)***
				240 V*	KVA	KW				
907780	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)
951846	With EZ-Latch single cylinder running gear	CC: Stick*	150 A at 26 V, 60% duty cycle	20.2	5.0	4.8	—			
951847	With EZ-Latch dual cylinder running gear and TIG kit	CC: DC TIG	180 A at 17.2 V, 60% duty cycle	17.0	4.2	4.1	—			





Multimatic® 255

Multiprocess



See page 129

Welding Capability

MAX. 1/2 in. (13 mm)			
MIG Mild Steel	MIG Aluminum		
MIN. 22 ga. (0.8 mm)	MIN. 18 ga. (1.2 mm)		
MAX. 5/16 in. (7.9 mm)	MAX. 3/8 in. (9.5 mm)		
Stick Mild Steel	TIG Mild Steel		
MIN. 16 ga. (1.5 mm)	MIN. 24 ga. (0.6 mm)		

Aluminum welding uses optional XR-Aluma-Pro push-pull gun. TIG welding uses optional Multimatic 235/255 TIG kit.

Multimatic 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 process and weld mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick and easy
- Intuitive connection setup images

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (208–575 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, pulsed 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

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 for each process.

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

Heavy-duty aluminum two-drive-roll system.

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

Compatible with 6010 stick electrodes.



Industrial processes

- MIG (GMAW) • Pulsed MIG (GMAW-P)
- 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™ heavy duty consumables
- 10 ft. (3 m) cable with electrode holder
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- Two factory-installed gas solenoids
- .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)

Most popular accessories

- Spoolmatic® Spool Gun (pg 27) (non-Pro gun only)
- XR-Aluma-Pro™ Air-Cooled Push-Pull Guns (pg 28)
- XR™-Pistol-Pro Air-Cooled Push-Pull Guns (pg 28)
- EZ-Latch™ Single Cylinder Running Gear 301449 (pg 122)



- **EZ-Latch™ Dual Cylinder Running Gear** 951769 (pg 122)
- Protective Cover 301521 (pg 125)
- Multimatic 235/255 TIG Kit 301518 (pg 128)
- 10-Pin to 14-Pin Adapter Cord 301545 (pg 128)
- Wireless Remote Foot Control 301580 (pg 129)

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

*See literature DC/12.9 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)*	
				208 V	240 V	460 V	575 V					KVA
907728 951767 With EZ-Latch single cylinder running gear 951768 With EZ-Latch dual cylinder running gear and TIG kit	CV: MIG/flux-cored	20–350 A	230 A at 25.5 V, 60% duty cycle	34.7	29.7	17.1	14.3	8.2	8.2	81VDC	H: 19.25 (489) W: 13.75 (349) D: 24.25 (616)	84 (38)
	CC: Stick	30–275 A	200 A at 28 V, 60% duty cycle	33.5	29	16.4	13.6	7.8	7.8			
	CC: DC TIG	5–275 A	275 A at 21 V, 60% duty cycle	34.1	29.9	17	14.1	8.1	8.1			

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.



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 129

Key features

AUTO-LINE TECHNOLOGY 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.

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).

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

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

¹Dynasty model only.

²With 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 62 in the TIG section for Maxstar 280 Series and page 63 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)	
					208 V	230 V	400 V	460 V	575 V	600 V	KVA	KW			
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			
	MIG/flux-cored	3-phase	5-280 A	250 A at 26.5 V	*	*	13	11	9	—	9.2	8.9			
		1-phase	5-280 A	200 A at 24 V	31	29	*	*	*	—	6.5	6.3			
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			



XMT® Series Non-ArcReach® Models (Under-Roof Application Focused)

Excellent multiprocess arc performance makes the XMT family the most popular in the industry. Choose from our CC/CV and MPa models (pages 48–49) or ArcReach models (pages 50–52) to find the right solution for your business.

Multiprocess



NEW!

» XMT 400



» XMT 450 CC/CV



» XMT 650

Key features

AUTO-LINE™ TECHNOLOGY 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 and 650 models. XMT 450 is 230/460 V manual link or 575 V, three-phase only. XMT 650 is 380/460 V manual link, three-phase only.

Adaptive Hot Start™ provides positive arc starts without sticking.

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

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

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

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.

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

Dinse- or Tweco®-style weld receptacles (XMT 400) provide high-quality weld cable connections.

Weld studs (XMT 450 and 650).

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

XMT® 400, 450 CC/CV and 650

Flexibility and simplicity make these the most popular models. They have the core multiprocess capabilities along with the flexibility of a 14-pin for spool guns, feeders and remote controls.



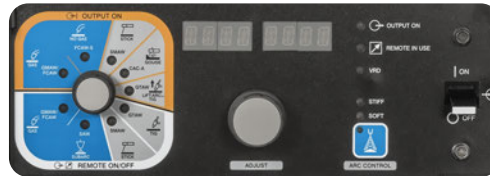
XMT 400

Additional XMT 400 features when using an Intellex™ Pro or Elite feeder (pg 16)

- Accu-Pulse® MIG
- Versa-Pulse™ MIG (Intellex Elite only)
- High deposition MIG (GMAW) (Intellex Elite only)
- RMD® (Intellex Elite only)
- Profile Pulse™



XMT 450 CC/CV



XMT 650

XMT® 450 MPa

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



Additional features when using an XR-AlumaFeed® SuitCase® feeder (pg 9) or 74 MPa Plus feeder (pg 18).

- Synergic pulsed MIG
- Profile Pulse™

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	400 V	460 V	575 V	KVA	KW			
400 A XMT 400 (Dinse except as noted) 907881 ◀ Power source only 907881001 Power source only (Tweco®) 951971 MIGRunner with Intellex Basic 951000212 MIGRunner with Intellex Pro 951972 MIGRunner with Intellex Elite	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)
				59.9	52.1	—	27.1	23.5	19.9	11.5	10.8			
	1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle ²	—	—	—	—	—	—	—	—	—	—	—
450 A XMT 450 CC/CV (1/2 in. stud) 907481 ◀ 230/460 V power source only XMT 450 MPa (1/2 in. stud) 907479 ◀ 230/460 V power source only 907479001 230/460 V w/auxiliary power ¹ 907480 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 (15 VDC ⁴)	H: 17.25 (438) W: 14.5 (368) D: 27.13 (689)	122 (55.3)
				—	51	—	—	27.6	23.6	21.6	18.3			
	3-phase	10–815 A 10–44 V	650 A at 44 VDC, 100% duty cycle SAW mode: 750 A at 44 VDC, 60% duty cycle	—	—	51.5 ³	—	42.6	—	33.9	31.9	82 VDC (9 VDC ⁴)	H: 28.19 (716) (includes lift eye) W: 16.69 (424) D: 31.63 (803)	159 (72.1)
650 A 951000067 Stationary 951000068 MIGRunner	3-phase	10–815 A 10–44 V	650 A at 44 VDC, 100% duty cycle SAW mode: 750 A at 44 VDC, 60% duty cycle	—	—	59.9 ³	—	49.1	—	39.5	37.0	82 VDC (9 VDC ⁴)	H: 28.19 (716) (includes lift eye) W: 16.69 (424) D: 31.63 (803)	159 (72.1)



XMT 450 and 650 are 3-phase only.

Heavy industrial processes*

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

*See additional XMT 400 and XMT 450 MPa process capabilities at left with select wire feeders.

**XMT 400 and XMT 450 MPa only.

***XMT 650 only.

MIGRunner™ packages include

- XMT® 400 OR 650 power source
- Intellex™ (XMT 400) OR S-74 MPa Plus (XMT 650) wire feeder with .035/.045 in. reversible V-groove drive rolls
- Bernard® BTB Gun 400 A with AccuLock™ consumables
- MIGRunner™ cart (XMT 400) OR running gear cylinder rack (XMT 650)
- XMT 400 MIGRunner: Flowmeter regulator with 3 ft. (0.9 m) gas hose, 6 ft. (1.8 m) 4/0 wire feeder to power source weld cable, 10 ft. (3 m) 4/0 work cable with clamp, and 5 ft. (1.5 m) ArcConnect cable
- XMT 650 MIGRunner: Industrial MIG 4/0 kit consisting of flowmeter regulator with 10 ft. (3 m) gas hose, 10 ft. (3 m) 4/0 feeder weld cable with lugs, and 15 ft. (4.6 m) work cable with 600-amp C-clamp

XMT 650 stationary package is the same as MIGRunner package minus

- Running gear cylinder rack

Most popular accessories

- Wire feeders: See Wire Feeder/Power Source Compatibility chart (pg 19)
- Spoolmatic®/ WC-24 (pg 27/130)

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

Multiprocess



XMT® Series ArcReach® Models (Outdoor Application Focused)

Multiprocess



» XMT 400 ArcReach



» XMT 450 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 pages 13–15/53 for ArcReach feeders and page 53 for the Stick/TIG Remote. Learn more about ArcReach technology at MillerWelds.com/arcreach

Key features

AUTO-LINE™ TECHNOLOGY 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 and 650 models. XMT 450 is 230/460 V manual link or 575 V, 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.

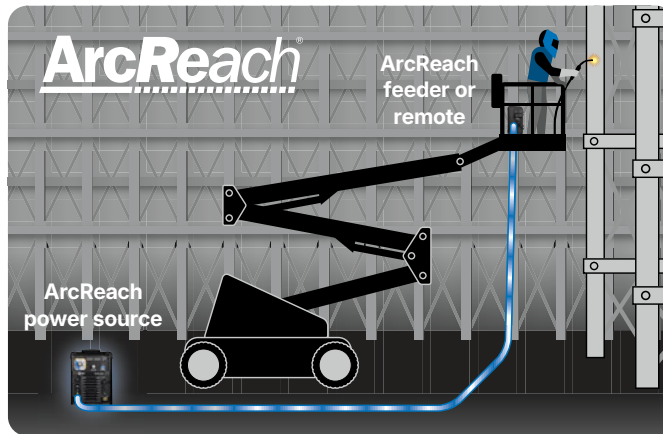
Note: XMT 450 CC/CV ArcReach arc voltage can be set at the feeder and actual arc voltage and current delivered to the weld can be monitored using the digital meters on the feeder.

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.



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	400 V	460 V	575 V	KVA	KW		H: 17.25 (438) W: 12.75 (324) D: 20.25 (514)	
400 A	XMT 400 ArcReach (Tweco® except as noted) 907865 ◀ Power source only	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)
	907865004 Power source only (Dinse)	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			
	951000114 Stick/TIG system														
	951000113 ◀ MIG/flux-cored system														
	951000112 RMD/pulse system														
450 A	XMT 450 CC/CV ArcReach (1/2 in. stud) 907481003 ◀ 230/460 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 (15 VDC ⁴)	H: 17.25 (438) W: 14.5 (368) D: 27.13 (689)	122 (55.3)
	907481004 230/460 V w/auxiliary power ¹														
	907482 575 V power source only														
650 A	XMT 650 ArcReach (1/2 in. stud) 907823 ◀ 380/460 V power source only	3-phase	10–815 A 10–44 V	650 A at 44 VDC, 100% duty cycle	—	—	51.5 ³	—	42.6	35.2	33.9	31.9	82 VDC (9 VDC ⁴)	H: 28.19 (716) (includes lift eye) W: 16.69 (424) D: 31.63 (803)	159 (72.1)
	907845 575 V power source only		SAW mode: 10–65 V (non-polarity reversing model only)	750 A at 44 VDC, 60% duty cycle	—	—	59.9 ³	—	49.1	41.1	39.5	37.0			
	907822 380/460 V w/polarity reversing			815 A at 44 VDC, 25% duty cycle	—	—	65.3 ³	—	53.6	44.3	43.0	40.2			



XMT 450 and 650 are 3-phase only.

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 and 650 models with ArcReach Smart Feeder.

***XMT 650 except Polarity Reversing model.

Stick/TIG system includes

- XMT 400 ArcReach power source
- ArcReach Stick/TIG Remote

MIG/flux-cored system includes

- XMT 400 ArcReach power source
- ArcReach SuitCase 12 wire feeder with drive rolls
- Bernard® BTB Gun 300 A with AccuLock™ consumables

RMD/pulse system includes

- XMT 400 ArcReach power source
- ArcReach Smart Feeder wire feeder with drive rolls
- Bernard® PipeWorx 300-15 MIG gun

Most popular accessories

- Wire feeders: See Wire Feeder/Power Source Compatibility chart (pg 19)
- Spoolmatic®/ WC-24 (pg 27/130)
- XMT ArcReach® Racks (pg 52)
- ArcReach® Stick/TIG Remote 301325 (pg 53)
- ArcReach® Heater (pg 96) (for all models except XMT 450)

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

Multiprocess



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



» XMT 400 ArcReach Rack

6-Pack Rack shown



» XMT 650 ArcReach Rack

4-Pack Rack shown

See pages 50 and 51 for the uses and advantages of ArcReach.

Note: For additional rack systems see CST™ 282 Racks on page 57.

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 and 650 models 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 (pg 19)
- ArcReach® Stick/TIG Remote 301325 (pg 53)
- ArcReach® Heater (pg 96) (for all models except XMT 450)

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

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®)		59.38 x 43 x 34.38 (1,508 x 1,092 x 873)	770 (349)
XMT 450 CC/CV ArcReach Rack	907700 4-Pack Rack (stud)	230/460 V, 3-phase (fused for 460 V)	59.38 x 43 x 34.38 (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 34.38 (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 48)	XMT® 400 ArcReach (Page 50)	XMT® 450 CC/CV (Page 48)	XMT® 450 MPa (Page 48)	XMT® 450 CC/CV ArcReach (Page 50)	XMT 650 (Page 48)	XMT® 650 ArcReach (Page 50)
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)	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	
14-PIN COMPLIANT	Yes		Yes			Yes	
PULSED MIG	Yes (see literature sheets for details)		—	Yes	—	—	Yes (with ArcReach Smart Feeder)
	—	Yes	—	—	Yes	—	Yes



Let Your Welders Weld.™



**Game-Changing Control
Where You Need It Most.**

ArcReach® Welding Systems

The more they stop the more it costs.



» Plug-in Power Sources

XMT® 400 ArcReach® Systems
(page 50/52)

XMT® 450 CC/CV ArcReach®
(page 50/52)

XMT® 650 ArcReach® (page 50/52)

XMT® 650 ArcReach® with
Polarity Reversing (page 50/52)



» Wire Feeders

ArcReach® 16 Feeder (page 13)

ArcReach® SuitCase® Feeders (page 14)

ArcReach® Smart Feeder (page 14)



» Stick/TIG Remote

ArcReach® Stick/TIG Remote 301325



» Engine-Driven Welders

Bobcat™ 265 ArcReach® Model (page 80)

Trailblazer® 330 (page 82/85)

Big Blue® ArcReach® Models (page 86–89)

ArcReach®

Heating Systems

Preheat faster so welding schedules
stay on time.



» Air-cooled Induction System

ArcReach® Heater and Tools (page 96)

*Note: For product compatibility between
ArcReach power sources and accessories,
see product literature sheets.*

MillerWelds.com/arcreach



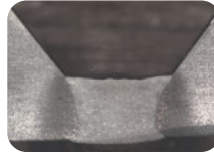
PipeWorx 400 Welding System

Designed exclusively for pipe fabrication shops.

Multiprocess
Pipe Welding



Advanced technologies of PipeWorx system



RMD
carbon
steel

Regulated Metal Deposition (RMD®)

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



Pulsed
MIG
stainless

Pulsed MIG

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



Heavy industrial processes

- Stick (SMAW) • DC TIG (GTAW)
- MIG (GMAW) • Flux-cored (FCAW)
- RMD® • Pulsed MIG (GMAW-P)

PipeWorx welding system (951000094 or 951000095) comes complete with

- PipeWorx 400 power source with cable hangers (907382 OR 907384)
- Dual-wire feeder with drive rolls (300366)
- Two Bernard® PipeWorx 300-15 MIG guns (195400)
- Running gear with gas cylinder rack and handles (300368)
- PipeWorx accessories kit for dual-wire feeder (300568) consisting of 25 ft. (7.6 m) work cable with EG500 clamp, two flowmeter regulators and two 5 ft. (1.5 m) gas hoses
- Cable kit with 25 ft. (7.6 m) work sense lead (300367)

Most popular accessories

- Bernard® PipeWorx 300-15 Gun 195400 15 ft. (4.6 m)
- Composite Cable Kit 300454 25 ft. (7.6 m) 300456 50 ft. (15.2 m)



- PipeWorx Cooler 300370
- Coolant 043810 (pg 123)
- Foot Control Bracket 300676
- RFCS-14 HD Foot Control 301589 (pg 129)
- RPBS-14 Fingertip Control 300666 (pg 129)
- Wireless Remote Foot Control 301580 (pg 129)
- TIG torch (WP1825RM) with adapter (45V11)

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

Key features

Simple process setup

- Setting up a new weld process is simple, requiring fewer steps, less training, and minimizing potential errors
- Front panel was designed by welders for welders — only backlit controls are adjustable to eliminate confusion
- Memory feature stores four programs each for stick, DC TIG, and wire processes (left and right feeder side)

Multiprocess machine

- Includes conventional stick, DC TIG (Lift-Arc™ or HF start), MIG and flux-cored welding processes
- Includes advanced RMD and pulsed MIG processes for high-quality welds and enhanced productivity

Quick process changeover

- Innovative cable and gun storage — cables stay connected to the power source, eliminating the need for switching when changing welding processes
- PipeWorx “Quick-Select” technology auto-chooses welding process, polarity, cable outputs, and parameters
- Eliminates set-up time for switching cables and gas hoses

*Dimensions and weight are for power source only.

MODEL/STOCK NO. MOST POPULAR SYSTEM	WELDING MODE/PROCESS	AMPERAGE/VOLTAGE RANGES	RATED OUTPUT AT 100% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT, 60 HZ			KVA			KW			MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)*	NET WEIGHT LB. (KG)*
				230 V	460 V	575 V	230 V	460 V	575 V	230 V	460 V	575 V			
PipeWorx 400 Welding System 951000094 230/460 V 951000095 575 V PipeWorx 400 Power Source only 907382 230/460 V 907384 575 V	CC: Stick	40–400 A	400 A at 36 VDC	43.9	26.6	22.4	17.5	21.2	22.3	16.1	16.3	16.4	90 VDC	H: 28.5 (724) W: 19.5 (495) D: 31.75 (806)	225 (102)
	CC/DC: TIG	10–350 A	350 A at 24 VDC	29.3	18.2	13.5	11.8	14.5	13.4	10.7	10.6	10			
	CV: MIG/flux-cored	10–44 V	400 A at 34 VDC	42.9	24	20.5	17.3	19.2	20.5	16	15.8	16.2			
MODEL/STOCK NO.	INPUT POWER	INPUT WELDING CIRCUIT RATING	WIRE FEED SPEED	WIRE DIAMETER CAPACITY			MAXIMUM SPOOL SIZE CAPACITY	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)						
PipeWorx Dual-Wire Feeder only 300366	24 VAC, 11 A	100 V, 750 A at 100% duty cycle	50–780 ipm (1.3–19.8 m/min.)	.035–.062 in. (0.9–1.6 mm)			60 lb. (27 kg)	H: 14 (356) W: 19 (483) D: 29 (737)	90 (41)						



Stick (SMAW)



Also see Multiprocess and TIG sections for machines that can stick weld. For more information, visit MillerWelds.com/stick

	MODEL	PAGE	CLASS	STICK	DC TIG	PORTABILITY	WELDABLE METALS	WELDING AMPERAGE RANGE	SPECIAL FEATURES	TYPICAL APPLICATIONS
1-PHASE	Thunderbolt® 210 MV	55	●	+		Shoulder strap	Steel, stainless	10–210 DC	Infinite amperage control, digital meter	Garage/job shops, maintenance/repair, farm
	Maxstar® 161 S	56	■	+		Handle/shoulder strap, optional case		20–160 DC	Auto-Line™ (120–240 V), digital meter	MRO, ship installation/repair, farm/ranch
1-/3-PH	Maxstar® 210 STR	56	■	+	+	Handles, shoulder strap, optional cart	Steel, stainless	10–210 DC	Auto-Line™ (120–480 V), digital meters	Construction, fabrication, pipe, steel erection, shipbuilding
	CST™ 282	57	■	+	+	Handle, optional cart		5–280 DC	Portable at 34.6 lb., Auto-Line™ (208–575 V), digital meter, also available in multioperator rack	Construction, fabrication, pipe, steel erection, shipbuilding
3-PH	CST™ 282 Rack	57	▲	+	+	Lift eye, casters	Steel, stainless	5–280 DC	Up to 4 or 8 operators, light weight	Construction, maintenance/repair, shipbuilding

PRODUCT KEY Class: ● Light industrial ■ Industrial ▲ Heavy industrial Capability: ❖ Capable of this process + Designed for this process
NEW! or IMPROVED! products appear in blue type.

Thunderbolt® 210 MV

Dependable, portable, and powerful stick welder.

NEW!



Light industrial process

- Stick (SMAW)

Comes complete with

- 10 ft. (3 m) No. 4 electrode cable with heavy-duty electrode holder
- 10 ft. (3 m) work cable with clamp
- 6.5 ft. (2 m) power cord with multi-voltage plugs for 120 V and 240 V
- Adjustable shoulder strap

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

Key features

Segmented display to make setup and fine tuning easier.

More versatile — weld up to 210 amps with the flexibility of 120- or 240-volt power.

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

Infinite amperage control lets you set the amperage in 1-amp increments for better fine tuning.

STOCK NO.	INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT	MAXIMUM AMPS INPUT AT RATED LOAD OUTPUT	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
907909	120 V, 50/60 Hz	10–110 A	65 A at 60% duty cycle, 50 A at 100% duty cycle	27.8	9.5 V	H: 10.2 (260) W: 6.3 (160) D: 13.4 (340)	13 (5.9)
	240 V, 50/60 Hz	10–210 A	135 A at 60% duty cycle, 105 A at 100% duty cycle	44.9			



Maxstar® 161 S

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

Stick (SMAW)



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 workpiece and turns the welding output off to 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 25 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 (pg 128)

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

*Sense voltage for stick.

Note: See page 59 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 (12–16 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			

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

AUTO-LINE TECHNOLOGY 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 workpiece and turns the welding output off to 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 (pg 68)
- Air-Cooled TIG Torch Connector (pg 128)
- Remote Controls (pg 128–129)

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

*Sense voltage for stick and Lift-Arc TIG.

Note: See page 62 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								MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
					120 V	208 V	240 V	400 V	480 V	KVA	KW				
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				

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.



Industrial processes

- Stick (SMAW)
- TIG (GTAW)

Comes with

- 6 ft. (1.8 m) power cord

Most popular accessories

- CST 282 Rack (see below)
- Remote Controls (pg 128–129)
- 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.

Stick (SMAW)

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 pounds (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.



See page 129

CST 282 with Tweco®-style receptacles shown.



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® 907810 Dinse	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				
	TIG	3-phase	5–280 A	150 A at 26 V, 100% duty cycle	23.07	20.59	12.97	11.8	11.15	6.4	4.5				9.5 VDC
				280 A at 21.2 V, 35% duty cycle	20.77	18.85	11.54	10.22	8.95	8.9	7.1				
		1-phase	5–280 A	200 A at 18 V, 100% duty cycle	12.89	11.74	7.42	6.55	5.49	5.4	4.3				
				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.



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 128–129)
- For TIG torches see literature DC/29.6

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

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.



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



See page 129

Note: For additional rack systems see XMT® ArcReach® Racks on page 52.

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) IN. (MM)	NET WEIGHT LB. (KG)	
				230 V	460 V	575 V					
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)



TIG (GTAW)



Also see Multiprocess section for machines that can TIG weld. For more information, visit MillerWelds.com/tig

	MODEL	PAGE	CLASS	TIG	PULSED TIG	STICK	CAC-A	MIG/FLUX-CORED	MAX. ELECTRODE DIAMETER					MATERIAL THICKNESS RANGE (TIG)	WELDING AMPERAGE RANGE	PULSE CAPABILITY	NET WEIGHT	GENERATOR POWER REQUIREMENT
									E6010/11	E6013	E7018	E7024	CAC-A					
DC (STEEL)	Maxstar® 161	59	■	+	+	+			5/32 in.	1/8 in.	1/8 in.	3/32 in.	—	.020–3/16 in.	5–160 A	0–150 pps (STH model)	13 lb. (5.9 kg)	5.3 kW
	Maxstar® 210	62	■	+	+	+			3/16 in.	3/16 in.	5/32 in.	5/32 in.	—	.002–1/4 in.	1–210 A	0.1–250 pps (base model) 0.1–500 pps (DX model)	38 lb. (17.2 kg)	9 kW
	Maxstar® 280	62	■	+	+	+	+		7/32 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.	.004–3/8 in.	1–280 A	0.1–250 pps (base model) 0.1–500 pps (DX model)	47 lb. (21.3 kg)	12.5 kW
	Maxstar® 400	64	▲	+	+	+	+		5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.012–5/8 in.	3–400 A	0.1–5,000 pps	126 lb. (57 kg)	20 kW
AC/DC (ALUMINUM/STEEL)	Syncrowave® 212	60	●	+	+	+	+		5/32 in.	5/32 in.	5/32 in.	5/32 in.	—	.020–1/4 in. (aluminum/steel)	20–210 A	0.1–150 pps	54 lb. (24.5 kg)	6 kW
	Syncrowave® 300	61	■	+	+	+			5/32 in.	5/32 in.	1/8 in.	1/8 in.	—	.015–3/8 in. (alum.) .012–1/2 in. (steel)	5–300 A	0.1–150 pps	101 lb. (45.8 kg)	9 kW
	Syncrowave® 400	61	■	+	+	+			3/16 in.	3/16 in.	3/16 in.	3/16 in.	—	.015–1/2 in. (alum.) .012–5/8 in. (steel)	5–400 A	0.1–150 pps	131 lb. (59.4 kg)	14 kW
	Dynasty® 210	63	■	+	+	+			3/16 in.	3/16 in.	5/32 in.	5/32 in.	—	.012–1/4 in. (alum.) .002–1/4 in. (steel)	2–210 A (AC) 1–210 A (DC)	0.1–500 pps	47 lb. (21.3 kg)	9 kW
	Dynasty® 300	63	■	+	+	+	+		7/32 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.	.012–3/8 in. (alum.) .004–3/8 in. (steel)	2–300 A (AC) 1–300 A (DC)	0.1–500 pps	55 lb. (25 kg)	12.5 kW
	Dynasty® 400	65	▲	+	+	+	+		5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.015–5/8 in. (alum.) .012–5/8 in. (steel)	3–400 A	0.1–500 pps (AC) 0.1–5,000 pps (DC)	126 lb. (57 kg)	20 kW
	Dynasty® 800	65	▲	+	+	+	+		5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	.020–1 in. (aluminum/steel)	5–800 A	0.1–500 pps (AC) 0.1–5,000 pps (DC)	201 lb. (91 kg)	50 kW

PRODUCT KEY

Class: ● Light industrial ■ Industrial ▲ Heavy industrial
 NEW! or IMPROVED! products appear in blue type.

Capability: + Some models + All models

Maxstar® 161 STL and STH DC TIG and Stick

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



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

AUTO-LINE TECHNOLOGY 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.

*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 907710 Power source only 907710001 TIG/stick package 907710002 TIG/stick package with remote fingertip control	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)
		240 V	5–160 A	160 A at 16.4 V, 20% duty cycle	15.05	3.62	3.49			
Maxstar 161 STH 907711 Power source only 907711001 TIG/stick package with remote fingertip control	Stick	120 V	20–90 A	90 A at 23.6 V, 30% duty cycle	23.16	2.78	2.76			
		240 V	20–160 A	160 A at 26.4 V, 20% duty cycle	22.55	5.41	5.25			



Industrial processes

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

Comes with

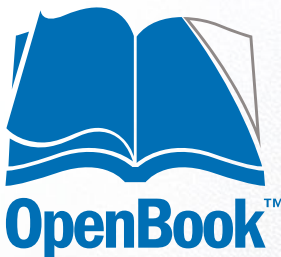
- 6.5 ft. (2 m) power cords for 120 V and 240 V
- 13 ft. (4 m) electrode cable with holder and 25 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector
- Air-cooled TIG torch connector
- Adjustable handle/shoulder strap
- Quick-reference guide

TIG/stick packages include above plus

- 12.5 ft. (3.8 m) Weldcraft™ A-150 TIG torch (WP1712RD125)
- 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.

TIG (GTAW)



OpenBook provides FREE interactive online training resources, educational materials and tracking tools. Visit OpenBook.MillerWelds.com for details.

Customize your classroom

- Implement materials that fit your curriculum and learning objectives, including:
 - e-Learning modules
 - Lab builder
 - Customizable certificates of completion
 - Course builder
 - Quiz builder
- Miller® and Hobart® pre-defined courses with certificates of completion
- Track individual student progress
- All material aligns with AWS standards

Motivate and engage students

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

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



Syncrowave® 212

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

TIG (GTAW)



NEW!

TIG Welding Capability

MAX. 1/4 in. (6.4 mm)

Steel	Aluminum
-------	----------

MIN. 0.020 in. (0.5 mm)



Air-Cooled Ready-to-Weld Package with wireless remote foot control shown.

Key features



Easy-to-understand interface with 4.3-inch LCD display.

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

NEW! Auto-Set™ automatically sets your welder to the proper parameters. Simply select the process, material type, material thickness, joint type and tungsten size. Miller-recommended machine parameters, gas flow rate, cup size and filler rod diameter are also provided.

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

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

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

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

Dedicated 4-pin receptacle for Spoolmate™ 150 spool gun.

Dedicated cooler power receptacle provides power for the Coolmate™ 1S.

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



Light industrial processes

- AC/DC TIG (GTAW)
 - Pulsed DC TIG (GTAW-P)
 - DC Stick (SMAW) • MIG (GMAW)*
- *With Spoolmate™ 150.

Air-cooled packages come with

- 12.5-foot (3.8 m) Weldcraft™ A-150 TIG torch with 50 mm Dinse-style connector
- 15-foot cable with electrode holder
- 15-foot (4.6 m) work cable with clamp
- 6.5-foot (2 m) 120-volt power cord and 6.5-foot (2 m) 240-volt power cord
- Heavy-duty wired foot control with 20-foot cord and 14-pin plug **OR** wireless remote foot control
- Weldcraft gas lens accessory kit (air)
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Material thickness gauge

Air-cooled spool gun packages include above plus

- Spoolmate 150 spool gun
- Spool gun adapter

Water-cooled packages come with

- Coolmate™ 1S with four one-gallon bottles of coolant
- 12.5-foot (3.8 m) Weldcraft™ W-250 TIG torch with 50 mm Dinse-style connector and international-style TIG torch adapter (#20, water)
- 10-foot (3 m) TIG torch cable cover
- 15-foot cable with electrode holder
- 15-foot (4.6 m) work cable with clamp
- 6.5-foot (2 m) 120-volt power cord and 6.5-foot (2 m) 240-volt power cord
- Heavy-duty wired foot control with 20-foot cord and 14-pin plug **OR** wireless remote foot control
- Weldcraft gas lens accessory kit (water)
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Material thickness gauge

Most popular accessories

- Dual Cylinder Rack Cart 951770 (pg 121)
- Coolmate™ 1S 301856 (pg 123)
- Protective Cover 301886 (pg 128)

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

*Dimensions and weight are for power source only.

STOCK NO.	INPUT POWER	WELDING MODE	WELDING AMPERAGE RANGE	RATED OUTPUT AT 60% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS* IN. (MM)	NET WEIGHT* LB. (KG)
Air-Cooled Packages	120 V	DC TIG	20–140 A	110 A at 14.4 V	18.8	46 V	H: 17.5 (445) W: 11.25 (286) D: 21.5 (546)	54 (24.5)
907911 With RFCS-14 HD wired foot control		AC TIG						
907939 With wireless remote foot control		DC Stick	35–90 A	70 A at 22.8 V	18.8			
Air-Cooled Spool Gun Packages		DC MIG	30–100 A	90 A at 18.5 V	19.2			
951000200 With RFCS-14 HD wired foot control	240 V	DC TIG	20–210 A	130 A at 15.2 V	11.8			
951000253 With wireless remote foot control		AC TIG						
Water-Cooled Packages		DC Stick	35–160 A	120 A at 24.8 V	16.3			
951000201 With RFCS-14 HD wired foot control		DC MIG	30–175 A	130 A at 20.5 V	16			
951000254 With wireless remote foot control								

Syncrowave® 300 and 400

AC/DC TIG and Stick



TIG (GTAW)

Industrial processes

- TIG (GTAW)
- Stick (SMAW)
- DC pulsed TIG (GTAW-P)

Comes with

- 10 ft. (3 m) power cord (no plug)
- Two 50 mm Dinse-style connectors

TIGRunner® includes above plus

- Syncrowave 300/400 4-Wheel Cart
- Coolmate™ 3S

Complete package includes above plus

- Coolant (four 1-gallon bottles)
- Remote control (foot or wireless foot)
- Weldcraft™ water-cooled torch kit
Syncrowave 300: W-280
Syncrowave 400: W-375

Most popular accessories



- Syncrowave 300/400 4-Wheel Cart 301601 (pg 122)
- Coolant 043810 (pg 123)



- Weldcraft™ Water-Cooled Torch Kits (pg 128)
300990 W-280 (WP-280)
301268 W-375
- Remote Controls (pg 128–129)
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.

Key features

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

AC frequency controls the width of the arc cone and can improve directional control of the arc (50–150 Hz).

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

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

Lift-Arc™ provides 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.

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

Arc timer/cycle counter records actual welding time and number of arc starts. Great for estimating job costs.

Coolmate™ 3S cooler (shown in Complete package).

Three-gallon cooling system features a flow indicator to visually indicate system is working and an external filter to stop objects from entering the water-cooled torch cable.



Syncrowave 300



Syncrowave 400

Complete package with wireless foot control shown.

TIG Welding Capability			
	MAX. 1/2 in. (12.7 mm)		MAX. 3/8 in. (9.5 mm)
Syncrowave 300 Steel		Syncrowave 300 Aluminum	
	MIN. 0.012 in. (0.3 mm)		MIN. 0.015 in. (0.4 mm)
	MAX. 5/8 in. (15.9 mm)		MAX. 1/2 in. (12.7 mm)
Syncrowave 400 Steel		Syncrowave 400 Aluminum	
	MIN. 0.012 in. (0.3 mm)		MIN. 0.015 in. (0.4 mm)



See page 129

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

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

***See literature AD/4.25 and AD/4.28 for TIGRunner dimensions and weight.

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)***
					208 V	240 V	480 V	KVA	KW		
Syncrowave 300 907782 Power source only 907782001 TIGRunner 951000003 Complete w/foot 951872 Complete w/wireless foot	TIG (includes cooler power draw)	3-phase	5–300 A	210 A at 18.4 V	16	14	7	5.9	5.5	60 VDC (13 VDC**)	H: 29.4 (746) W: 15 (381) D: 24.6 (625)
		1-phase	5–300 A	210 A at 18.4 V	27	24	12	5.7	5.5		
	Stick	3-phase	5–230 A	160 A at 26.4 V	16	11	5	5.7	5.5		
		1-phase	5–230 A	160 A at 26.4 V	27	23	11	5.7	5.5		
Syncrowave 400 907783 Power source only 907783001 TIGRunner 951000004 Complete w/foot 951873 Complete w/wireless foot	TIG (includes cooler power draw)	3-phase	5–400 A	300 A at 22 V	25	23	11	9.1	8.8	70 VDC (13 VDC**)	H: 29.4 (746) W: 15 (381) D: 24.6 (625)
		1-phase	5–400 A	300 A at 22 V	43	42	20	9.7	8.9		
	Stick	3-phase	5–300 A	250 A at 30 V	27	24	12	9.8	9.4		
		1-phase	5–300 A	250 A at 30 V	47	43	21	10.4	9.5		



Maxstar® 210/280 Series

DC TIG and Stick

TIG (GTAW)



Maxstar 210



Maxstar 280 DX

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 (pg 122)
- Small Runner™ Cart 301615 (pg 122)
- Coolmate™ 1.3 301616 (pg 123)
- Coolant 043810 (pg 123)



- **Contractor Kits** (pg 128)
 - 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** (pg 128)
 - 300185 W-250 (WP-20)
 - 300990 W-280 (WP-280)
 - 301268 W-375
- **Remote Controls** (pg 128–129)
 - 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.

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 129

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

Note: See page 56 in the Stick section for Maxstar 210 STR and see page 47 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)
					120 V	208 V	230 V	240 V	400 V	460 V	480 V	575 V	KVA	KW				
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)	
			1–210 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
	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
	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

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



TIG (GTAW)



» Dynasty 210



» Dynasty 300

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 (pg 122)
- Small Runner™ Cart 301615 (pg 122)
- Coolmate™ 1.3 301616 (pg 123)
- Coolant 043810 (pg 123)
- Contractor Kits (pg 128)
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** (pg 128)
300185 W-250 (WP-20)
300990 W-280 (WP-280)
301268 W-375
- Remote Controls (pg 128–129)
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.

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)

*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. Note: See page 47 in the Multiprocess section for Dynasty 300 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	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® 400 DC TIG and Stick

TIG (GTAW)



TIG Welding Capability

MAX. 5/8 in. (15.9 mm)

Steel

MIN. 0.012 in. (0.3 mm)



See page 129



Heavy industrial processes

- TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P)
- Air carbon arc (CAC-A)

Comes with

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

TIGRunner® includes above plus

- Runner™ Cart
- Coolmate™ 3.5

Complete package includes above plus

- Coolant (four 1-gallon bottles)
- Wireless remote foot control
- Weldcraft™ W-375 water-cooled torch kit

Most popular accessories

- Runner™ Cart 300244 (pg 122)
- Coolmate™ 3.5 301788 (pg 123)
- Coolant 043810 (pg 123)



- Weldcraft™ Water-Cooled Torch Kits (pg 128)
 - 301268 W-375
 - 300186 W-400 (WP-18SC)
- Remote Controls (pg 128–129)
 - 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.

Key features

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

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (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).

Cooler power supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 3.5.

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

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

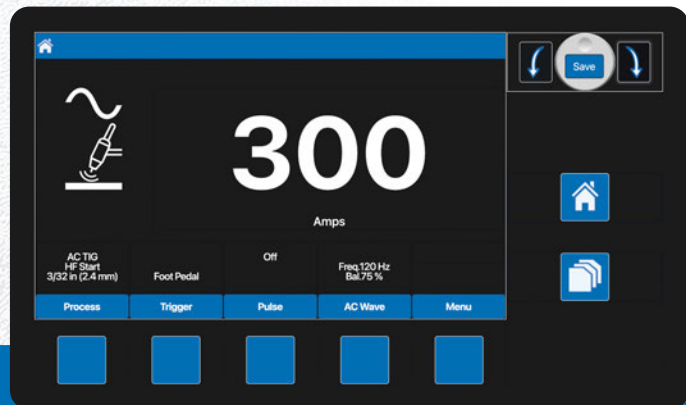
High-speed DC TIG pulse controls capable of 5,000 pulses per second.

*Sense voltage for low OCV stick and Lift-Arc TIG. **Power source only. See literature DC/24.5 for TIGRunner dimensions and weight.

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)**	
					208 V	230 V	400 V	460 V	600 V	KVA	KW			
907873 Power source only	TIG/stick	3-phase	3–400 A	300 A at 32 V	33	30	17	15	11	12	11.6	75 VDC (10–15 VDC*)	H: 24.13 (613) W: 13.88 (352) D: 24.31 (618)	126 (57)
907873001 TIGRunner		1-phase	3–400 A	250 A at 30 V	48	43	24	20	15	10	9.2			
951000098 Complete package														

TIG Simulator

The simulator is a training tool and can be utilized for offline programming. Create a weld program on the online simulator, save it onto a USB, and plug the USB into the machine and start welding with the saved programs!



Interactive interface simulator — Try it now at TIG.MillerWelds.com/simulator

Dynasty® 400 and 800 AC/DC TIG and Stick



TIG (GTAW)



» Dynasty 400



» Dynasty 800

Key features

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

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (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.

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.

Cooler power supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 3.5.

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

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

High-speed DC TIG pulse controls capable of 5,000 pulses per second.

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.

AC amplitude/amperage allows EP and EN amperages to be set independently to precisely control heat input to the work and electrode.

Heavy industrial processes

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

400 model comes with

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

800 model comes with

- Thread-lock water-cooled torch connector and two thread-lock weld cable connectors

Note: Power cord is NOT included with Dynasty 800.

TIGRunner® includes above plus

- Runner™ Cart
- Coolmate™ 3.5

Complete package includes above plus

- Coolant (four 1-gallon bottles)
- Wireless remote foot control
- Weldcraft™ water-cooled torch kit
Dynasty 400: W-375
Dynasty 800: W-400

Most popular accessories

- Runner™ Cart 300244 (pg 122)
- Coolmate™ 3.5 301788 (pg 123)
- Coolant 043810 (pg 123)



- **Weldcraft™ Water-Cooled Torch Kits** (pg 128)
301268 W-375
300186 W-400 (WP-18SC)
- **Remote Controls** (pg 128–129)
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.

TIG Welding Capability			
MAX. 5/8 in. (15.9 mm)		MAX. 1 in. (25.4 mm)	
Dynasty 400 Steel	Dynasty 400 Aluminum	Dynasty 800 Steel	Dynasty 800 Aluminum
MIN. 0.012 in. (0.3 mm)	MIN. 0.015 in. (0.4 mm)	MIN. 0.020 in. (0.5 mm)	



See page 129



Dynasty 400 Complete package shown.

*Sense voltage for low OCV stick and Lift-Arc TIG. **Power source only. See literature AD/5.5 for TIGRunner dimensions and weight.

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)**
					208 V	230 V	400 V	460 V	600 V	KVA	KW				
Dynasty 400 907858 Power source only 907858001 TIGRunner 951000002 Complete package	TIG/stick	3-phase	3–400 A	300 A at 32 V	36	33	19	16	12	13.1	12.5	75 VDC (10–15 VDC*)	H: 24.13 (613) W: 13.88 (352) D: 24.31 (618)	126 (57)	
			3–400 A	250 A at 29 V	52	47	26	22	16	10.9	9.9				
Dynasty 800 907859 Power source only 907859001 TIGRunner 951000008 Complete package	TIG/stick	3-phase	5–800 A	600 A at 44 V	96	86	48	42	32	35	33	75 VDC (10–15 VDC*)	H: 34.25 (870) W: 13.88 (352) D: 24.31 (618)	201 (91)	
			5–800 A	500 A at 40 V	136	122	66	56	42	28	26				



Weldcraft™ Series TIG Torches

Synonymous with versatility and performance, Weldcraft TIG torches can handle the most intricate to the most demanding TIG welding challenges. From the 125-amp hand-held MicroTIG® torch to the 500-amp machine-held water-cooled models, there's a Weldcraft torch for nearly every TIG application.

TIG Torches



Setting the standard for performance

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

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

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

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

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

Extreme reliability

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

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

Reduce leakage of gas and water through secure mechanical fittings.

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

For more information, visit MillerWelds.com/tigtorches

TIG Torch Configurator

Make Sure You Are Using The Right Torch And Consumables For Your Application

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



Choose Products

- Torches Only
- Consumables Only
- Both Torches and Consumables

Next



Work Material

- Mild Steel/Stainless Steel
- Deoxidized Copper
- Titanium
- Magnesium
- Aluminum

Previous Next



Part Number	Description	Quantity
WC332X7	2% Ceriated Tungsten (3/32" dia.)	1
54N63	Large Diameter GL Insulator	1
53N88XXL	#10 Large Dia. GL Alumina Nozzle XXLong	1
10N24	Collet for 3/32" dia. Tungsten	1
45V64	Large Gas Lens for 3/32" dia. Tungsten	1
300M	Medium Back Cap	1

Reset

Print

Email

Visit now at MillerWelds.com/torchconfig



Process

- TIG (GTAW)

Suggested power sources

- Multimatic® 215 PRO (pg 43): A-150
- Multimatic® 220 AC/DC (pg 44): A-150
- Multimatic® 235 (pg 45): A-150
- Multimatic® 255 (pg 46): A-150
- Maxstar® 280 Multiprocess (pg 47): A-200, A-250, W-280
- Dynasty® 300 Multiprocess (pg 47): A-200, A-250, W-280
- XMT® Series (pg 48–51): A-200, A-250
- CST™ 282 (pg 57): A-250
- Maxstar® 161 STL/STH (pg 59): A-150
- Syncrowave® 212 (pg 60): A-150
- Syncrowave® 300 (pg 61): A-200, A-250, W-280
- Syncrowave® 400 (pg 61): W-375
- Maxstar® 210 (pg 62): A-150, W-250
- Maxstar® 280 (pg 62): A-200, A-250, W-280
- Dynasty® 210 (pg 63): A-150, W-250
- Dynasty® 300 (pg 63): A-200, A-250, W-280
- Maxstar® 400 (pg 64): W-375
- Dynasty® 400 (pg 65): W-375
- Dynasty® 800 (pg 65): W-400

Weldcraft™ Air-Cooled TIG Torches

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

Weldcraft™ Water-Cooled TIG Torches

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

Weldcraft™ Specialty TIG Torches

Specialty torches are designed to fit best in unique applications. The Modular Series torches allow for a quick change to many different torch styles for any joint configuration. For those hard-to-reach areas the W-125 MicroTIG® torch provides access and superior maneuverability.

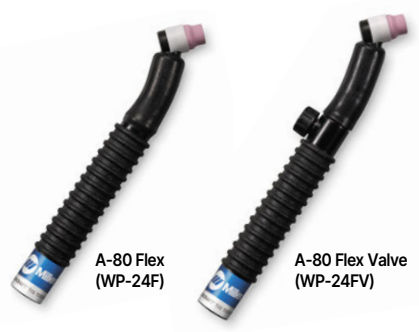
Weldcraft™ Automation TIG Torches

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

Weldcraft™ A-80 Series

Formerly known as WP-24 Series

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



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

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

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

Applications

- Shipbuilding • Motorsports
- Aerospace • Restricted areas

Most popular consumables

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

Most popular accessories

- Collet Body Wrench 53N20

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

Note: Front end consumables sold separately.

MODEL	RUBBER		TYPE	RATED OUTPUT AT 60% DUTY CYCLE	ELECTRODE RANGE
	12.5 FT. (3.8 M)	25 FT. (7.6 M)			
A-80 Flex	WP-24F-12-R	WP-24F-25-R	Air-cooled	DC: 80 A AC: 50 A	.020–3/32 in. (0.5–2.4 mm)
A-80 Flex Valve	WP-24FV-12-R	WP-24FV-25-R			

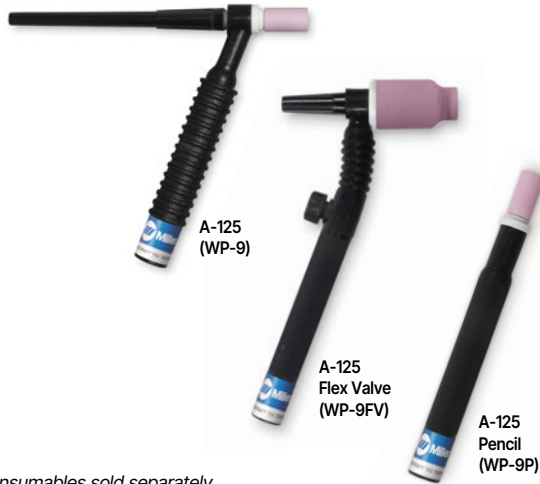


Weldcraft™ A-125 Series

Formerly known as WP-9 Series

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

TIG Torches
Air-Cooled



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

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

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

Note: Front end consumables sold separately.

Applications

- Maintenance and repair • Motorsports
- Metal art • Fabrication

Most popular consumables

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

Most popular accessories

- Accessory Kit AK1C (pg 74)

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

MODEL	RUBBER 12.5 FT. (3.8 M) 25 FT. (7.6 M)		2-PIECE RUBBER 12.5 FT. (3.8 M) 25 FT. (7.6 M)		TYPE	RATED OUTPUT AT 60% DUTY CYCLE	ELECTRODE RANGE
	WP-9-12-R	WP-9-25-R	—	—			
A-125	WP-9-12-R	WP-9-25-R	—	—	Air-cooled	DC: 125 A AC: 100 A	.020–1/8 in. (0.5–3.2 mm)
A-125 Valve	WP-9V-12-R	WP-9V-25-R	—	WP-9V-25-2			
A-125 Flex	WP-9F-12-R	WP-9F-25-R	WP-9F-12-2	WP-9F-25-2			
A-125 Flex Valve	WP-9FV-12-R	WP-9FV-25-R	—	WP-9FV-25-2			
A-125 Pencil	WP-9P-12-R	WP-9P-25-R	—	—			

Weldcraft™ A-150 Series

Formerly known as WP-17 Series

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



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

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

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

Note: Front end consumables sold separately.

Applications

- Fabrication • Maintenance and repair
- Aerospace • Food/beverage industry
- Metal art • Petro/chemical
- Shipbuilding

Most popular consumables

- Collets
 - 10N23 1/16 in. (1.6 mm)
 - 10N24 3/32 in. (2.4 mm)
 - 10N25 1/8 in. (3.2 mm)
- Collet Bodies
 - 10N31 1/16 in. (1.6 mm)
 - 10N32 3/32 in. (2.4 mm)
 - 10N28 1/8 in. (3.2 mm)
- Alumina Nozzles
 - 10N48 #6, 3/8 in.
 - 10N47 #7, 7/16 in.
 - 10N46 #8, 1/2 in.

Most popular accessories

- Accessory Kit AK-150MFC (pg 74)
Converts A-150 into 28 different torch styles while using existing cable

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

MODEL	RUBBER 12.5 FT. (3.8 M) 25 FT. (7.6 M)		MONO-FLEX™ 12.5 FT. (3.8 M) 25 FT. (7.6 M)		2-PIECE RUBBER 12.5 FT. (3.8 M) 25 FT. (7.6 M)		TYPE	RATED OUTPUT AT 60% DUTY CYCLE	ELECTRODE RANGE
	WP-17-12-R	WP-17-25-R	WP-17-12-MF	WP-17-25-MF	WP-17-12-2	WP-17-25-2			
A-150	WP-17-12-R	WP-17-25-R	WP-17-12-MF	WP-17-25-MF	WP-17-12-2	WP-17-25-2	Air-cooled	DC: 150 A AC: 115 A	.020–1/8 in. (0.5–3.2 mm)
A-150 Valve	WP-17V-12-R	WP-17V-25-R	WP-17V-12-MF	WP-17V-25-MF	WP-17V-12-2	WP-17V-25-2			
A-150 Flex	WP-17F-12-R	WP-17F-25-R	—	—	—	WP-17F-25-2			
A-150 Flex Valve	WP-17FV-12-R	WP-17FV-25-R	—	—	WP-17FV-12-2	WP-17FV-25-2			
A-150 Flex Valve Redhead	WP-R17FV-12-R	WP-R17FV-25-R	—	—	—	—			



Weldcraft™ A-200 Series

Formerly known as WP-26 Series

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



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

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

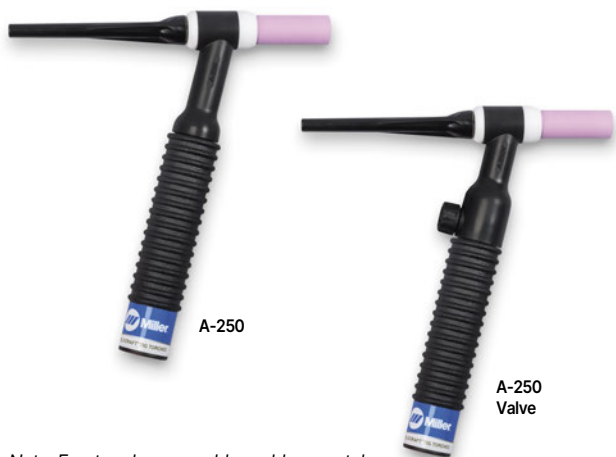
Maximum versatility. Utilize the Redhead™ Series torches in a variety of welding applications without adding expenses.

Note: Front end consumables sold separately.

MODEL	RUBBER 12.5 FT. (3.8 M) 25 FT. (7.6 M)		2-PIECE RUBBER 12.5 FT. (3.8 M) 25 FT. (7.6 M)		TYPE	RATED OUTPUT AT 60% DUTY CYCLE	ELECTRODE RANGE
	WP-26-12-R	WP-26-25-R	WP-26-12-2	WP-26-25-2			
A-200	WP-26-12-R	WP-26-25-R	WP-26-12-2	WP-26-25-2	Air-cooled	DC: 200 A AC: 150 A	.020–5/32 in. (0.5–4.0 mm)
A-200 Valve	WP-26V-12-R	WP-26V-25-R	WP-26V-12-2	WP-26V-25-2			
A-200 Flex	WP-26F-12-R	WP-26F-25-R	—	WP-26F-25-2			
A-200 Flex Valve	WP-26FV-12-R	WP-26FV-25-R	WP-26FV-12-2	WP-26FV-25-2			
A-200 Flex Redhead	WP-R26F-12-R	—	—	—			
A-200 Flex Valve Redhead	—	WP-R26FV-25-R	—	—			

Weldcraft™ A-250 Series

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



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

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

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

Note: Front end consumables sold separately.

MODEL	2-PIECE RUBBER, 25 FT. (7.6 M)	TYPE	RATED OUTPUT AT 60% DUTY CYCLE	ELECTRODE RANGE
A-250	301525025	Air-cooled	DC: 250 A AC: 188 A	.020–5/32 in. (0.5–4.0 mm)
A-250 Valve	301526025			

Applications

- Fabrication
- Maintenance and repair
- Manufacturing
- Shipbuilding
- Vocational

Most popular consumables

- Collets
 - 10N23 1/16 in. (1.6 mm)
 - 10N24 3/32 in. (2.4 mm)
 - 10N25 1/8 in. (3.2 mm)
- Collet Bodies
 - 10N31 1/16 in. (1.6 mm)
 - 10N32 3/32 in. (2.4 mm)
 - 10N28 1/8 in. (3.2 mm)
- Alumina Nozzles
 - 10N47 #7, 7/16 in.
 - 10N46 #8, 1/2 in.
 - 10N45 #10, 5/8 in.

Most popular accessories



- **Gas Lens Kit AK3GL** (pg 74)
Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode



- **Accessory Kit AK3C** (pg 74)
Includes one short back cap, one of each size (#5, #6, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode

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



Weldcraft™ W-180

Formerly known as WP-24W

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

TIG Torches
Water-Cooled



Note: Front end consumables sold separately.

Use high amperage in confined areas for efficient welding.

Superior maneuverability in limited-access locations with the compact torch body.

Excellent weld capacity without increasing torch size, due to the efficient cooling system.

Applications

- Aerospace • Manufacturing
- Food/beverage industry • Shipbuilding
- Maintenance and repair
- Petro/chemical • Precision fabrication

Most popular consumables

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

MODEL	BRAIDED RUBBER, 25 FT. (7.6 M)		VINYL, 25 FT. (7.6 M)		TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
A-180	WP-24W-25-R		WP-24W-25		Water-cooled	DC: 180 A, AC: 115 A	.020–3/32 in. (0.5–2.4 mm)

Weldcraft™ W-200 Pencil Flex

Formerly known as WP-25

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



Note: Front end consumables sold separately.

Pencil-style with flexible neck designed for both high-amperage applications and confined-area access.

Extend trouble-free service and minimize downtime due to overheating with the innovative cooling design.

Comfort and control are increased with the lightweight, well-balanced body design.

Applications

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

Most popular consumables

- Insulator (non-gas lens and gas lens) (required) 598882
- Collets (non-gas lens and gas lens)
 - 13N21 .040 in. (1.0 mm)
 - 13N22 1/16 in. (1.6 mm)
 - 13N23 3/32 in. (2.4 mm)
 - 13N24 1/8 in. (3.2 mm)
- Collet Bodies
 - 13N26 .040 in. (1.0 mm)
 - 13N27 1/16 in. (1.6 mm)
 - 13N28 3/32 in. (2.4 mm)
 - 13N29 1/8 in. (3.2 mm)
- Gas Lens
 - 45V42 .040 in. (1.0 mm)
 - 45V43 1/16 in. (1.6 mm)
 - 45V44 3/32 in. (2.4 mm)
 - 45V45 1/8 in. (3.2 mm)
- Alumina Nozzles
 - 13N08 #4, 1/4 in.
 - 13N09 #5, 5/16 in.
 - 13N10 #6, 3/8 in.
 - 13N11 #7, 7/16 in.
 - 13N12 #8, 1/2 in.
 - 13N13 #10, 5/8 in.
 - 53N58 #4, 1/4 in. (gas lens)
 - 53N59 #5, 5/16 in. (gas lens)
 - 53N60 #6, 3/8 in. (gas lens)
 - 53N61 #7, 7/16 in. (gas lens)
 - 53N61S #8, 1/2 in. (gas lens)

MODEL	BRAIDED RUBBER		VINYL		TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
	12.5 FT. (3.8 M)	25 FT. (7.6 M)	12.5 FT. (3.8 M)	25 FT. (7.6 M)			
W-200 Pencil Flex	WP-25-12-R	WP-25-25-R	WP-25-12	WP-25-25	Water-cooled	DC: 200 A AC: 140 A	.020–1/8 in. (0.5–3.2 mm)

Weldcraft™ W-250 Series

Formerly known as WP-20 Series

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



W-250 (WP-20)

W-250 Valve (WP-20V)

Extend torch life and minimize downtime due to overheating with the efficient around-the-head cooling design.

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

Easy hose replacement (W-250 Valve) with the innovative mechanical fittings design.

Most popular accessories

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

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

MODEL	BRAIDED RUBBER		VINYL		TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
	12.5 FT. (3.8 M)	25 FT. (7.6 M)	12.5 FT. (3.8 M)	25 FT. (7.6 M)			
W-250	WP-20-12-R	WP-20-25-R	WP-20-12	WP-20-25	Water-cooled	DC: 250 A AC: 180 A	.020–1/8 in. (0.5–3.2 mm)
W-250 Valve	—	—	—	WP-20V-25			



TIG Torches
Water-Cooled

Weldcraft™ W-280 Super Cool™ Weldcraft™ W-375 Super Cool™

W-280 Super Cool formerly known as WP-280

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



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

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

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

Note: Front end consumables sold separately.

Applications

- Aerospace • Automotive
- Fabrication
- Manufacturing
- Shipbuilding
- Tool and die
- Tube and pipe • Vocational

Most popular consumables

- Insulator (required) (non-gas lens and gas lens) 598882
- Collets (non-gas lens and gas lens)
 - 13N21 .040 in. (1.0 mm)
 - 13N22 1/16 in. (1.6 mm)
 - 13N23 3/32 in. (2.4 mm)
 - 13N24 1/8 in. (3.2 mm)
- Collet Bodies
 - 13N26 .040 in. (1.0 mm)
 - 13N27 1/16 in. (1.6 mm)
 - 13N28 3/32 in. (2.4 mm)
 - 13N29 1/8 in. (3.2 mm)
- Gas Lens
 - 45V42 .040 in. (1.0 mm)
 - 45V43 1/16 in. (1.6 mm)
 - 45V44 3/32 in. (2.4 mm)
 - 45V45 1/8 in. (3.2 mm)
- Alumina Nozzles
 - 13N08 #4, 1/4 in.
 - 13N09 #5, 5/16 in.
 - 13N10 #6, 3/8 in.
 - 13N11 #7, 7/16 in.
 - 13N12 #8, 1/2 in.
 - 13N13 #10, 5/8 in.
 - 53N58 #4, 1/4 in. (gas lens)
 - 53N59 #5, 5/16 in. (gas lens)
 - 53N60 #6, 3/8 in. (gas lens)
 - 53N61 #7, 7/16 in. (gas lens)
 - 53N61S #8, 1/2 in. (gas lens)

MODEL	BRAIDED RUBBER			BRAIDED RUBBER WITH 50 MM DINSE	TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
	12.5 FT. (3.8 M)	25 FT. (7.6 M)	50 FT. (15.2 M)				
W-280 Super Cool	301251012	301251025	301846	301251001	Water-cooled	DC: 280 A, AC: 195 A	.020–1/8 in. (0.5–3.2 mm)
W-375 Super Cool	301253012	301253025	—	301253001	Water-cooled	DC: 375 A, AC: 265 A	.020–1/8 in. (0.5–3.2 mm)

Weldcraft™ W-350 Series

Formerly known as WP-18 Series

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



Note: Front end consumables sold separately.

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

Reduce discomfort and fatigue using the comfortable handle design.

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

Applications

- Fabrication • Manufacturing
- Maintenance and repair
- Shipbuilding • Tube and pipe

Most popular consumables

- Collets
 - 10N24 3/32 in. (2.4 mm)
 - 10N25 1/8 in. (3.2 mm)
 - 54N20 5/32 in. (4.0 mm)
- Collet Bodies
 - 10N32 3/32 in. (2.4 mm)
 - 10N28 1/8 in. (3.2 mm)
 - 406488 5/32 in. (4.0 mm)
- Alumina Nozzles
 - 10N48 #6, 3/8 in.
 - 10N47 #7, 7/16 in.
 - 10N46 #8, 1/2 in.
 - 10N45 #10, 5/8 in.
 - 10N44 #12, 3/4 in.

MODEL	RUBBER		VINYL		TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
	12.5 FT. (3.8 M)	25 FT. (7.6 M)	12.5 FT. (3.8 M)	25 FT. (7.6 M)			
W-350	WP-18-12-R	WP-18-25-R	WP-18-12	WP-18-25	Water-cooled	DC: 350 A AC: 250 A	.020–5/32 in. (0.5–4.0 mm)
W-350 Valve	—	WP-18V-25-R	—	WP-18V-25			



Weldcraft™ W-400 Super Cool™

Formerly known as WP-18SC

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



Note: Front end consumables sold separately.

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

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

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

Applications

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

Most popular consumables

- Heavy-Duty Collets
 - 10N25HD 1/8 in. (3.2 mm)
 - 54N20HD 5/32 in. (4.0 mm)
 - 18C36 3/16 in. (4.8 mm)
- Heavy-Duty Nose Collet Body (all sizes) NCB-36
- Alumina Nozzles
 - 54N16 #6, 3/8 in.
 - 54N15 #7, 7/16 in.
 - 54N14 #8, 1/2 in.
- Back Caps
 - 57Y04 Short
 - 300M Medium
 - 57Y02 Long

MODEL	RUBBER, 25 FT. (7.6 M)	VINYL, 25 FT. (7.6 M)	TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
W-400 Super Cool	WP-18SC-25-R	WP-18SC-25	Water-cooled	DC: 400 A, AC: 280 A	.020–3/16 in. (0.5–4.8 mm)

Weldcraft™ W-125 Micro Series

Formerly known as WP-125 Series

Water-cooled MicroTIG® torches designed for limited-access joints.



W-125 Long Micro shown.

Note: Front end consumables sold separately.

Small torch body designed for limited-access joints. Medium torch body is 4 inches while the long torch body is 5 inches.

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

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

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

Applications

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

Most popular consumables

- 90° Chucks
 - 125C40-90 .040 in. (1.0 mm)
 - 125C116-90 1/16 in. (1.6 mm)
 - 125C332-90 3/32 in. (2.4 mm)



- Quartz Nozzles (see literature AY/25.0)

MODEL	BRAIDED RUBBER, 25 FT. (7.6 M)	TYPE	RATED OUTPUT AT 100% DUTY CYCLE	ELECTRODE RANGE
W-125 Medium Micro	WP-125M-25-R	Water-cooled	DC: 125 A AC: 80 A	.040–3/32 in. (1.0–2.4 mm)
W-125 Long Micro	WP-125L-25-R			

Weldcraft™ Modular Series

Air-cooled and water-cooled torches engineered to weld multiple joint configurations for various applications and angles.



A-150 Modular (WP-150)

A-150 Modular Valve (WP-150V)

W-225 Modular (WP-225)

Note: Front end consumables sold separately.

Built-in, efficient cooling system reduces overheating to extend parts and consumable life.

Modular design minimizes costs and downtime for torch changeover and parts inventory.

Easy configurable head options provide greater flexibility and joint access, minimizing downtime for torch changeover.

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

Applications

- Maintenance and repair • Aerospace
- Metal art • Food/beverage industry
- Petro/chemical • Shipbuilding
- Manufacturing • Vocational
- Precision fabrication • Tube and pipe

Most popular accessories

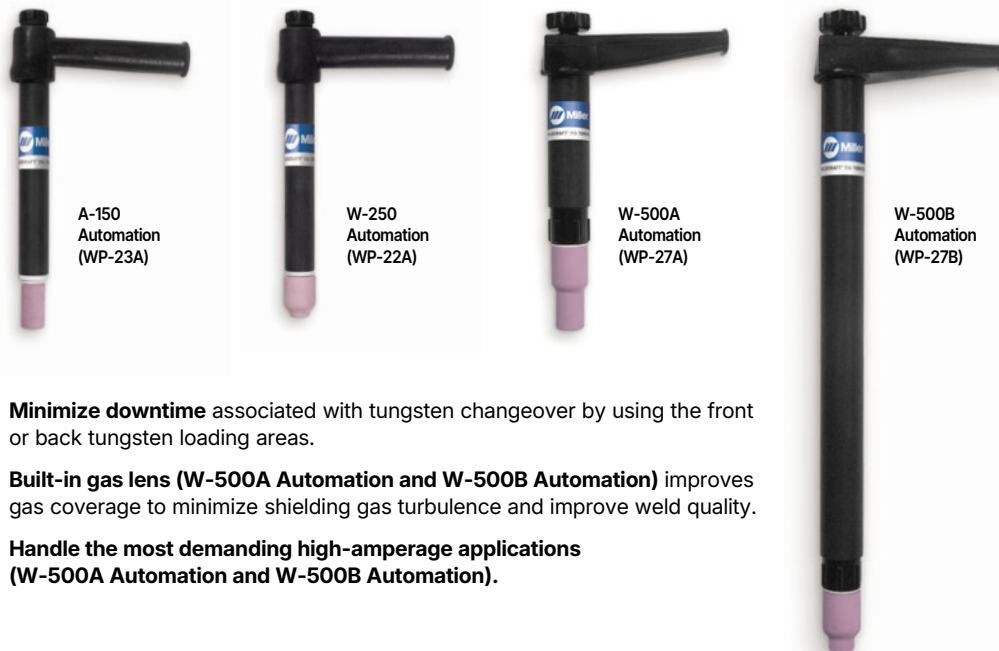


- **Accessory Kit** (pg 74)
 - AK-150MFC For A-150 torch
 - AK-225MFC For W-225 torch

MODEL	RUBBER 12.5 FT. (3.8 M)	25 FT. (7.6 M)	BRAIDED RUBBER 12.5 FT. (3.8 M)	25 FT. (7.6 M)	VINYL 25 FT. (7.6 M)	TYPE	RATED OUTPUT (TORCH HEAD DEPENDENT)	ELECTRODE RANGE (TORCH HEAD DEPENDENT)
A-150 Modular	WP-150-12-R	WP-150-25-R	—	—	—	Air-cooled	DC: 150 A at 60% duty cycle AC: 105 A at 60% duty cycle	.020–1/8 in. (0.5–3.2 mm)
A-150 Modular Valve	WP-150V-12-R	WP-150V-25-R	—	—	—			
W-225 Modular	—	—	WP-225-12-R	WP-225-25-R	WP-225-25	Water-cooled	DC: 225 A at 100% duty cycle AC: 160 A at 100% duty cycle	.020–5/32 in. (0.5–4.0 mm)

Weldcraft™ Automation Series

Air-cooled and water-cooled torches designed for low- and high-amperage mechanized applications.



Minimize downtime associated with tungsten changeover by using the front or back tungsten loading areas.

Built-in gas lens (W-500A Automation and W-500B Automation) improves gas coverage to minimize shielding gas turbulence and improve weld quality.

Handle the most demanding high-amperage applications (W-500A Automation and W-500B Automation).

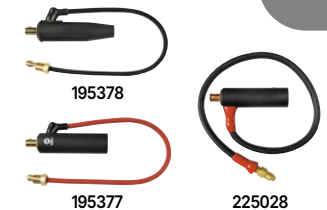
Note: Front end consumables sold separately.

Applications

- Aerospace
- Food/beverage industry
- Pressure vessel fabrication
- Petro/chemical

Most popular accessories

- Cable Covers
For A-150 and W-250 torches
WC-3-10 10 ft. (3 m)
WC-3-22 22 ft. (6.7 m)
For W-500 torches
WC-4-10 10 ft. (3 m)
WC-4-22 22 ft. (6.7 m)



- **1-Piece Power Cable Connector** (pg 128)
195378 50 mm Dinse-style for air-cooled torch
195377 50 mm Dinse-style for water-cooled torch
225028 50 mm thread-lock for water-cooled torch

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

TIG Torches
Automation/Tungsten

MODEL	RUBBER 3 FT. (0.9 M) 12.5 FT. (3.8 M)		2-PIECE RUBBER 12.5 FT. (3.8 M)		VINYL 3 FT. (0.9 M) 12.5 FT. (3.8 M) 25 FT. (7.6 M)			TYPE	RATED OUTPUT	ELECTRODE RANGE
	—	WP-23A-12-R	WP-23A-12-2	—	—	—	—			
A-150 Automation	—	WP-23A-12-R	WP-23A-12-2	—	—	—	Air-cooled	DC: 150 A at 60% duty cycle AC: 120 A at 60% duty cycle	.040–3/32 in. (1.0–2.4 mm)	
W-250 Automation	—	—	—	WP-22A-3	WP-22A-12	WP-22A-25	Water-cooled	DC: 250 A at 100% duty cycle AC: 180 A at 100% duty cycle	.040–1/8 in. (1.0–3.2 mm)	
W-500A Automation	WP-27A-3	WP-27A-12	—	—	—	—	Water-cooled	DC: 500 A at 100% duty cycle AC: 350 A at 100% duty cycle	.040–1/4 in. (1.0–6.4 mm)	
W-500B Automation	WP-27B-3	WP-27B-12	—	—	—	—	Water-cooled	DC: 500 A at 100% duty cycle AC: 350 A at 100% duty cycle	.040–1/4 in. (1.0–6.4 mm)	

Weldcraft™ Tungsten

Tungsten for the most demanding TIG welding applications!

Available in four types and industry-standard diameters, our line of Weldcraft tungsten electrodes has undergone rigorous testing to ensure the highest quality and durability. Color-coded packages include ten 7-inch (175 mm) tungsten electrodes.

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



TYPE AND DESCRIPTION	STOCK NO.	DIAMETER IN. (MM)
2% Ceriated (EWCe-2) Performs well in DC welding and arc starting at low-current settings, and offers excellent performance in AC processes.	WC040X7	0.040 (1.0)
	WC116X7	1/16 (1.6)
	WC332X7	3/32 (2.4)
	WC018X7	1/8 (3.2)
	WC532X7	5/32 (4.0)
2% Lanthanated (EWLa-2) Provides excellent arc starting, arc stability and re-ignition, and less tip erosion in AC or DC welding. Can substitute for 2% Thoriated.	WL2040X7	0.040 (1.0)
	WL2116X7	1/16 (1.6)
	WL2332X7	3/32 (2.4)
	WL2018X7	1/8 (3.2)
	WL2532X7	5/32 (4.0)
Pure (EWP) Forms a clean, balled end when heated and provides good arc stability for AC welding with a balanced or unbalanced squarewave or sine wave.	WP116X7	1/16 (1.6)
	WP332X7	3/32 (2.4)
	WP018X7	1/8 (3.2)
Rare Earth (EWG) Combines the best of all alloying elements, and provides excellent arc stability in AC or DC welding.	WG116X7	1/16 (1.6)
	WG332X7	3/32 (2.4)
	WG018X7	1/8 (3.2)

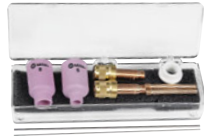


Weldcraft™ TIG Torch Accessories

TIG Torches
Accessories

GL Kits (Gas Lens Kits)

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



301876
For A-150 Series and A-200 Series. Includes gas lens insulator, one of each size (#5, #8) alumina nozzle, and one of each size (1/16, 3/32 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.



AK3GL
For A-150 Series, A-200 Series and A-250 Series. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.



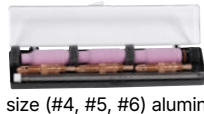
AK4GL
For W-200 Pencil Flex, W-225 Modular, W-250 Series, W-280 Super Cool and W-375 Super Cool. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.

AK Kits (Accessory Kits)

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



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



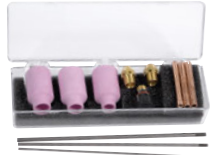
AK2C
For A-150 Series. Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.



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



AK4C
For W-250 Series, W-280 Super Cool and W-375 Super Cool. Includes one long back cap, one of each size (#5, #6, #7) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.



AK18C
For W-400 Super Cool. Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, one of each size (3/32, 1/8 HD, 5/32 HD) collet, one of each size (.020–1/8 inch, 1/8–3/16 inch) collet body, and one of each size (3/32, 1/8, 5/32 inch) 7-inch 2% ceriated tungsten electrode.



AK125C
For W-125 Micro Series. Includes one of each size (180°, 45°, 90°, 90° short) quartz nozzle, and one of each size (.040, 1/16 inch) of the following: 180-degree chuck, 45-degree chuck, 90-degree chuck, and 7-inch 2% ceriated tungsten electrode.



AK-150MFC
For A-125 Series, A-150 Series and A-150 Modular Series. Allows welding operators to customize their standard A-125 (WP-9) or A-150 (WP-17) TIG torch for their specific application. Kit converts into 28 different torch styles while using the existing A-125 or A-150 cable. Features collets, collet bodies, nozzles, torch heads, handle and more.



AK-225MFC
For W-225 Modular. Includes five additional torch heads, collets, collet bodies, nozzles, handle and more.



MAK-2S
For W-350 Series. Includes one short and one long back cap, four back cap o-rings, two cup gaskets, one gas lens insulator, and one of each size (.040, 1/16, 3/32, 1/8 inch) gas lens. Also includes the following ten collets: (1) .040, (3) 1/16, (3) 3/32, (2) 1/8, (1) 5/32; and eight collet bodies: (1) .040, (2) 1/16, (2) 3/32, (2) 1/8, (1) 5/32.

Quick Connects



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



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

Cable Covers



WC-3-10 10 ft. (3 m)
WC-3-22 22 ft. (6.7 m)
WC-3-48 48 ft. (14.6 m)
Cable covers protect the welding cables from the day-to-day wear and tear of common welding environments. Available in 10-foot, 22-foot, and 48-foot lengths, these covers can help prevent the frequent replacement of expensive welding cables.

Remote Controls

See pages 128–129 in Accessories section for stock numbers and more information.



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



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



Foot pedal current/contactor controls.



Miniature hand current/contactor controls.



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



Momentary-contact switch for contactor controls.



Remote on/off control.



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.



NEW!



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.

Battery-Powered

*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 TIG: 10–160 A	Charge 0–95% Fast <30 min.* Standard <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						
Venture 150 T	907888 Power source only						
	951000256 With battery pack, charger and TIG contractor kit						
	951000257 With two battery packs, charger and TIG contractor kit						
	951000258 With TIG contractor kit (no battery pack or charger)						
	907889 Power source only						



Change the welding game with an OptX laser welding system. Unleash the workforce's welding potential and significantly reduce learning curves so any welder can drive output.

For more information, visit MillerWelds.com/optx

Laser Welding

OptX™ Laser Welding Systems

The OptX 1kW and 2kW handheld laser welding power sources and OptX wire feeder provide consistent welding results and are ideal for high-productivity, precision-welding applications with tight fit-up and minimal gaps.



NEW!

OptX 1kW System
OptX 2kW looks the same, but has additional accessories (see list at right).

Key features

High speed welding that is up to four times faster than TIG, with simple material preparation and minimal post-finishing.

Spot, autogenous and wire welding, along with a cleaning* function, provide high-quality, consistent results.

Simple interface with pre-built parameters for welding and cleaning* applications that provide reliable results for different material types and thicknesses.

OptX wire feeder is designed and manufactured specifically for the handheld laser welding application, providing consistent results in an industrial setting.

Nearly eliminate the need for pre- and post-weld processing where tight part fit-up is available.

Built-in safety features include two-stage trigger, nozzle-to-part detection, laser area interlock system, cable interlock system, e-stop button and key switch.

OptX laser welding enclosure is included in the Ready-to-Weld packages (see below) or sold separately (see accessories). 8 x 8 foot laser welding enclosure rated up to 2,500 W/cm².

NEW!



1
Phase

Light Industrial process

- Laser welding

Packages include

- OptX 1kW OR 2kW hand-held laser welding power source
- OptX wire feeder
- OptX laser torch
- 11-foot (3.4 m) conduit wire (steel)
- OptX accessory kit consisting of OptX carbon fiber laser welding helmet, OptX standard laser safety glasses, OptX torch cradle, OptX torch cover, welding nozzles (set of 5), protective windows with o-rings (5-pack of each), 10-foot (3 m) Cat 6 Ethernet cable, contact tips, and additional components and tools
- OptX hardware kit consisting of work-sense clamp, Smith regulator (30-150-580), 5-foot (1.5 m) gas hose, .045 V-groove 4-roll drive roll kit, and trigger cable
- OptX 2kW package adds 11-foot (3.4 m) conduit wire (aluminum), cleaning nozzles (set of 3), and .047 U-groove 4-roll drive roll kit

Ready-to-weld packages include above plus

- OptX laser welding enclosure
- OptX door interlock switch

Most popular accessories

- OptX Cart 301792 (pg 122)
- OptX Laser Welding Enclosure 301902
- OptX Door Interlock Switch 301804 Includes 32 ft. (9.8 m) cable — two switches required for laser operation
- OptX Process Validation Fixture 301878
- 1/16-Inch Conversion Kits 301827 Steel 301828 Aluminum Includes 11-ft. (3.4 m) wire conduit, V-groove (steel) or U-groove (aluminum) drive roll kit, and 10-pack of contact tips

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

*Only OptX 2kW model has cleaning function.

MODEL/STOCK NO.	INPUT POWER	OUTPUT	RATED OUTPUT AT 100% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT, 50/60 HZ			MATERIAL THICKNESS RANGE (WIRE AUTOGENOUS) / SPOT WELDING PENETRATION DEPTH	LASER WELDING TRAVEL SPEED	POWER SOURCE DIMENSIONS IN. (MM)	POWER SOURCE NET WEIGHT LB. (KG)
OptX 1kW Package 951000204	1-phase	1 kW	1 kW at 30°C	20	6	5.85	Aluminum: 20-12 gauge Steel/Stainless: 20-12 gauge Copper: 18-14 gauge	15-20 ipm (0.3-0.5 mpm)	H: 21 (533) W: 12.4 (315) D: 25.2 (640)	140 (64)
OptX 1kW Ready-to-Weld Package 951000239										
OptX 2kW Package 951000109	1-phase	2 kW	2 kW at 30°C	32	6	5.85	Aluminum: 20 gauge-1/4 in. Steel/Stainless: 20 gauge-1/4 in. Copper: 18 gauge-1/8 in.	15-20 ipm (0.3-0.5 mpm)	H: 21 (533) W: 12.4 (315) D: 25.2 (640)	140 (64)
OptX 2kW Ready-to-Weld Package 951000240										
MODEL	INPUT POWER		WIRE FEED SPEED	WIRE DIAMETER CAPACITY			SPOOL SIZE CAPACITY		DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
OptX Wire Feeder	120 VAC, 3.5 A, 50/60 Hz		5-80 ipm (0.127-2.032 m/min.)	.023-5/64 in. (0.6-2.0 mm) .045 in. (1.1 mm) recommended			8 in. (203 mm) and 12 in. (305 mm)		H: 16 (406) W: 12.38 (314) D: 27.88 (708)	46 (21)



For more information, visit MillerWelds.com/engineDriven

	MODEL	PAGE	CLASS	STICK	MIG*	FLUX-CORED*	DC TIG	PAC**	CAC-A	PORTABILITY	WELDABLE METALS	WELDING AMPERAGE RANGE	CONTINUOUS AUXILIARY POWER	ENGINE BRAND	SPECIAL FEATURES	TYPICAL APPLICATIONS
GAS	Fusion 185	78	●	+			◆	◆		Optional lift eye or running gear	Steel	30-185 DC	6,200 W	Rehko	Mobile, PowerShift technology, inverter stick	Maintenance, construction, repair, service trucks
	Blue Star® 185	78	●	+			◆	◆			Steel	60-195 DC	6,200 W	Rehko	Compact	
	Bobcat™ 200 Air Pak™	84	■	+	+	+	+	+			Steel, stainless, aluminum	30-210 DC	6,500 W	Rehko	Air compressor, battery charge/crank assist, Auto-Speed™, inverter CC/CV	Service trucks, repair, maintenance, farm/ranch
	Bobcat™ 230	80	■	+	+	+	+	+		Lift eye, optional running gear or trailer	Steel, stainless, aluminum with adapter	20-230 DC	9,500 W	Rehko, Vanguard	Cost-effective DC stick	Maintenance, farm/ranch, construction
	Bobcat™ 230 3 Phase	80	■	+	+	+	+	+				20-230 DC	8,500 W	Rehko	3-phase power for pivot irrigation	Farm/ranch
	Bobcat™ 265 Air Pak™	85	■	+	+	+	+	+	3/16"		Steel, stainless, aluminum	20-265 DC	9,500 W	Rehko	Air compressor, Auto-Set™, EFI, battery charge/crank assist	Service/maintenance, construction
	Trailblazer® 330	82	▲	+	+	+	+	+	3/16"	Lift eye, optional running gear or trailer	Steel, stainless, aluminum	20-330 DC	10,500 W	Rehko	ArcReach®, Auto-Set™, advanced Auto-Speed™; optional wireless interface control, Excel™ power, EFI, battery charge/crank assist, polarity reversing	Fab, maintenance, structural, repair, pipe
	Trailblazer® 330 Air Pak™	85	▲	+	+	+	+	+	3/16"			20-330 DC	10,500 W	Rehko	Air compressor, ArcReach®, Auto-Set™, advanced Auto-Speed™, battery charge/crank assist; optional wireless interface control, cooler/separator	Service/maintenance, construction
GAS OR LP	Bobcat™ 265	80	■	+	+	+	+	3/16"	Lift eye, optional running gear or trailer	Steel, stainless, aluminum	20-265 DC	9,500 W	Rehko (gas/LP), Vanguard (gas)	Most popular engine drive, remote start/stop on gas models, Auto-Set™; optional ArcReach®, battery charge/crank assist	Fab, maintenance, farm/ranch, construction	
DIESEL	Bobcat™ 200 Air Pak™ Diesel	84	■	+	+	+	+	+		Lift eye, optional running gear or trailer	Steel, stainless, aluminum	30-210 DC	6,500 W	Kubota	Air compressor, battery charge/crank assist, Auto-Speed™, inverter CC/CV	Service trucks, repair, maintenance, farm/ranch
	Trailblazer® 330 Diesel	82	▲	+	+	+	+	3/16"			Steel, stainless, aluminum with adapter	20-330 DC	10,500 W	Kubota	ArcReach®, Auto-Set™, advanced Auto-Speed™; optional wireless interface control, Excel™ power, battery charge/crank assist, polarity reversing	Fab, maintenance, structural, repair, pipe
	Big Blue® 400 Pro	86	▲	+	+	+	+	3/16"		Lift eye, optional trailer	Steel, stainless, aluminum with adapter	20-400 DC	10,000 W	Kubota, Mitsubishi	Quiet, compact, fuel efficient; optional wireless interface control, ArcReach®	Construction, repair
	Big Blue® 400 PipePro®	87	▲	+	+	+	+	3/16"				20-400 DC	10,000 W	Mitsubishi	Wireless interface control, ArcReach®, Line-X® top cover, lift-off service door; optional stainless steel	Cross country pipeline
	Big Blue® 450 Duo CST™	87	▲	+		+	+	3/16"				5-450 DC	8,900 W	Mitsubishi	Dual operator in a compact package	Construction, fabrication, pipe
	Big Blue® 500 Pro	88	▲	+	+	+	+	5/16"		Lift eye, generally mounted on optional trailer	Steel, stainless, aluminum with adapter	20-500 DC	3-ph: 20,000 W 1-ph: 12,000 W	Kubota	Quiet, fuel efficient; optional ArcReach®, wireless interface control	Construction, repair
	Big Blue® 600 Series	88	▲	+	+	+	3/8"					20-600 DC		Kubota (Pro) Deutz (Air Pak)	Quiet, powerful, fuel efficient; optional ArcReach®, wireless interface control — Air Pak™ model has ArcReach® standard and adds air compressor	Construction, repair maintenance, mining, rail
	Big Blue® 800 Series	89	▲	+	+	+	1/2"					20-800 DC		Deutz	ArcReach®, dual operator; optional wireless interface control — Air Pak™ model adds air compressor	Construction, repair maintenance, mining, rail

PRODUCT KEY

Class: ● Light industrial ■ Industrial ▲ Heavy industrial Capability: ◆ Capable of this process + Designed for this process
*With wire feeder. **With appropriate Spectrum® plasma cutter.



Engine-Driven

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 processes

- Stick (SMAW) • DC TIG (GTAW)

Gasoline engine

- **Rehiko 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 (pg 124)
- Running Gear 301246 (pg 124)
- Twist Lock Adapter Cord 301489 (pg 124)
- Protective Cover 301245 (pg 124)

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)
GAS	907781 Rehiko	Engine power	CC: 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: Stick	30–100 A	90 A at 23.6 V, 40% duty cycle	22.7	—		
		PowerShift 240 V	CC: Stick	30–185 A	185 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	25.0	—		

Blue Star® 185

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



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

- **Rehiko 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 (pg 124)
- Running Gear 301246 (pg 124)
- Protective Cover 301245 (pg 124)

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 Rehiko	CC: 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)

Bobcat™/Trailblazer® — Which is Right for You?



Engine-Driven



Bobcat: The most popular engine-driven welder

- Effective multiprocess engine-driven welder
- Dependable power and weld output
- Independent welder and auxiliary power system
- Easy to maintain
- Quiet operation

Trailblazer: A top performer in the industry

- Unbeatable arc performance
- Independent welder and auxiliary power system
- Exclusive technologies — advanced Auto-Speed™, Dynamic DIG™ and optional Excel™ power
- Fuel-efficient and quiet operation

	Bobcat 230 (page 80)	Bobcat 265 (page 80)	Trailblazer 330 (page 82)
FUEL SYSTEM			
Fuel Type	Gasoline	Gasoline or LP	Gasoline or diesel
Delivery	Carburetor (manual choke)	Carburetor (gas Rehiko: eChoke™ / gas Vanguard and LP Rehiko: manual choke)	Carburetor (eChoke™) or EFI
WELD			
Output	CC/CV, DC only	CC/CV, DC only	CC/CV, DC only
Processes	Stick / MIG / FCAW	Stick / MIG / FCAW / Gouge	Stick / MIG / FCAW / Gouge
Amperage Range	20–230 A	20–265 A	20–330 A
Voltage Range	14–25 V	14–28 V	15–40 V
AUXILIARY POWER			
Peak Watts	11,000 watts	11,000 watts	12,000 watts
Continuous Watts	9,500 watts	9,500 watts	10,500 watts
Excel™ Power	—	—	2,400 watts (option) (20 A at 120 V, 60 Hz at all engine speeds)
SOUND LEVELS			
Maximum / At Idle	73.1 dB / 64 dB	73.1 dB / 64 dB	73.5 dB / 65 dB
DIMENSIONS			
Size (H x W x D)	26.5 x 20.13 x 37.06 in.	26.5 x 20.13 x 37.06 in.	26.5 x 20.13 x 37.06 in.
Weight	376 lb.	382 lb.	400 lb.
KEY FEATURES			
Display	Knob	LCD	LCD
Maintenance	Fuel / Hours / Oil	Predictive maintenance	Predictive maintenance
Auto-Set™	—	Yes	Yes
Battery Charge/Crank Assist	—	150 A charge / 300 A crank (option)	150 A charge / 300 A crank (option)
ArcReach®	—	Yes (option)	Yes
Spool Gun	Requires WC adapter (page 130)	Direct connect	Direct connect
Remote Capabilities	—	Remote start/stop (Rehiko gas models only)	Wireless interface control (option) and 14-pin
Air Pak™	—	Yes (option)	Yes (option)



Bobcat™ Series Gas or LP

Next-generation Bobcat series: The most popular engine-driven welder is reliable, powerful and durable. It is one of the smallest and lightest in its class with more capabilities to take on more jobs — and faster, easier setup too.

Engine-Driven



» Bobcat 230



» Bobcat 265



Easy to use

Bobcat 230: Single-knob adjustment for quick and precise setup.

Bobcat 265: Digital interface speeds machine setup and makes it less complicated.



Separate weld and auxiliary power

Full auxiliary power at any setting.



Exceptional arc performance

Easy arc starts and less spatter. Provides DC welding output for greater versatility and quality welds on all types of metals.



Easier mobility and uses less truck space and payload

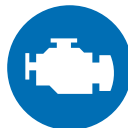
Over 100 pounds lighter and 13 percent smaller than previous models. Bobcat engine-driven welders can easily be moved around and take up less space, leaving more room on your truck for other equipment and tools.



Easy maintenance

Bobcat 230: Simple digital display that tracks your engine hours and alerts you when an oil change is required.

Bobcat 265: LCD screen allows for better visibility of routine maintenance items, making it easier to plan downtime.



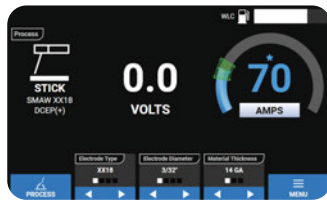
Engine options

Choice of Rehlko or Vanguard engine.

Bobcat 265 model additional features



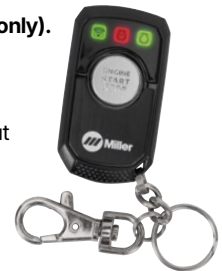
Auto-Set™ makes weld parameter setup fast, easy and accurate for operators of all skill levels.



Direct spool gun connection 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.

Remote start/stop (Bobcat 265 Rehlko gas models only).

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



Battery charge/crank assist (option) ensures that you have reliable DC output when you need it, without carrying a separate charger.

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



Industrial processes

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

¹With voltage-sensing feeder.

²Bobcat 265 models only. Two-piece TIG torch recommended.

³Bobcat 265 models only.

Engines

- **Gas: Rehiko CH730 (with eChoke™ on Bobcat 265)**
23.5 hp at 3,600 rpm
- **Gas: Vanguard (with manual choke)**
23 hp at 3,600 rpm
- **LP: Rehiko CH730**
Liquid withdrawal LP system
21 hp at 3,600 rpm

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

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- ArcReach® SuitCase® Feeders (pg 14)
- Spoolmate™ 200 (pg 26) (Bobcat 265 only)
- Spoolmatic® (pg 27) (Bobcat 265 only)
- ArcReach® Stick/TIG Remote (pg 53) (Bobcat 265 ArcReach model only)
- Spectrum® 625 X-TREME™ (pg 98)
- Running Gear (pg 124)
- Protective Cage with Cable Holders (pg 124)
- Protective Cover (pg 124)
- Full KVA Adapter Cord 300517 (pg 124)
- HWY-Mid Frame Trailer (pg 125)

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

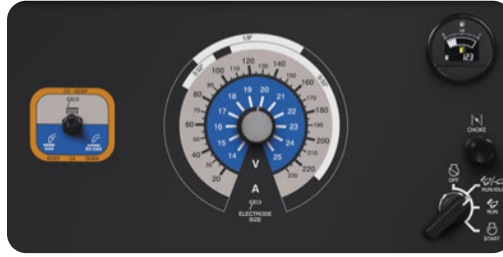
Bobcat™ 230 (Gas)

Reliable, simple engine-driven welders great for stick and flux-cored welding. Designed for maintenance/repair operations, construction, farm, ranch and auxiliary power use.



Bobcat™ 230 3 Phase (Gas)

For farm and ranch owners in need of single- and three-phase power. Designed to run 480-volt three-phase pivot irrigation systems and other farm/ranch equipment.



Bobcat™ 265 (Gas or LP)

MOST POPULAR! Reliable, easy to use and more capable engine-driven welders great for stick and flux-cored welding. Designed for maintenance/repair operations, construction, and auxiliary power use.



*Electric fuel pump recommended for operation at altitudes above 5,000 feet. This feature is on Bobcat 265 model 907826003 and sold separately as a kit (301741) for other Bobcat gas models. **Order Battery Charge/Jump Cables (300422) separately. ***Order Hose and LP Tank Mounting Assembly (301710) separately.

MODEL/STOCK NO. *	WELDING MODE/PROCESS	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
Bobcat 230 — Non-remote start/stop model 907824 Rehiko with GFCI 907847 Vanguard with GFCI	CC: Stick	20–230 A	230 A at 29.2 V, 100% duty cycle	Single-phase Peak: 11,000 watts Continuous: 9,500 watts	H: 26.5 (673) H: 31.2 (792) (to top of exhaust) W: 20.13 (511) D: 37.06 (941)	376 (171)
	CV: MIG/FCAW	14–25 V	230 A at 25.5 V, 100% duty cycle			
Bobcat 230 3 Phase — Non-remote start/stop model 907842 Rehiko with GFCI	CC: Stick	20–230 A	230 A at 29.2 V, 100% duty cycle	Single-phase/three-phase Peak: 10,000 watts Continuous: 8,500 watts	H: 26.5 (673) H: 31.2 (792) (to top of exhaust) W: 20.13 (511) D: 37.06 (941)	385 (175)
	CV: MIG/FCAW	14–25 V	230 A at 25.5 V, 100% duty cycle			
Bobcat 265 907826 Rehiko with GFCI 907826001 Rehiko with GFCI and ArcReach® 907826002 Rehiko with GFCI and battery charge/crank assist** 907826003 Rehiko with GFCI and electric fuel pump Bobcat 265 — Non-remote start/stop model 907848 Vanguard with GFCI 907827*** LP Rehiko with GFCI	CC: Stick/TIG	20–265 A	265 A at 27 V, 100% duty cycle	Single-phase Peak: 11,000 watts Continuous: 9,500 watts	H: 26.5 (673) H: 31.2 (792) (to top of exhaust) W: 20.13 (511) D: 37.06 (941)	Gas: 382 (173) LP: 366 (166)
	CV: MIG/FCAW	14–30 V	265 A at 27 V, 100% duty cycle			



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

ArcReach® 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

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.

Direct spool gun connection

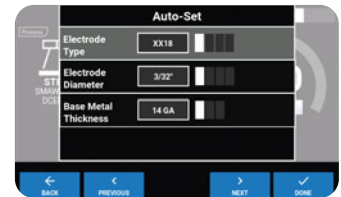
Direct hook up makes it easy to weld aluminum, expanding the types of jobs you can take on. Adapters are no longer required with the integrated 10-pin connection. Optimized for Spoolmate™ and Spoolmatic® spool guns.

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.

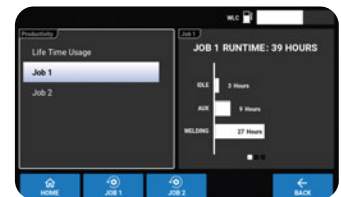
Auto-Set™

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 14/53)
- Spoolmate™ 200 (pg 26)
- Spoolmatic® (pg 27)
- ArcReach® Stick/TIG Remote (pg 53)
- Spectrum® 625 X-TREME™ (pg 98)
- Running Gear (pg 124)
- Protective Cage with Cable Holders (pg 124)
- Protective Cover (pg 124)
- Full KVA Adapter Cord (pg 124)
- HWY-Mid Frame Trailer (pg 125)

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



Engine-Driven

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

**Order Battery Charge/Jump Cables (300422) separately.

	MODEL/STOCK NO.*	WELDING MODE/PROCESS	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	CC: Stick/TIG	20–330 A	330 A at 30 V, 100% duty cycle	Single-phase Peak: 12,000 watts Continuous: 10,500 watts Excel power (optional) Single-phase: 2,400 watts 20 A at 120 V, 60 Hz auxiliary power at idle speed and while welding	H: 26.5 (673) H: 31.2 (792) (to top of exhaust) W: 20.13 (511) D: 37.06 (941)	400 (181)
	907831 Rehiko with GFCI						
	907831001 Rehiko with Excel power	CV: MIG/FCAW	15–40 V	325 A at 30.25 V, 100% duty cycle			
	907832 EFI Rehiko with GFCI						
	907832001 EFI Rehiko with Excel power						
	907832002 EFI Rehiko with Excel power and WIC						
907832003 EFI Rehiko with Excel power and battery charge/crank assist**	CC: Stick/TIG	20–330 A	330 A at 31 V, 100% duty cycle				
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				CV: MIG/FCAW	15–40 V	330 A at 30.5 V, 100% duty cycle	
907849 Kubota with GFCI							
907849001 Kubota with Excel power	CC: Stick/TIG	20–330 A	330 A at 31 V, 100% duty cycle				
907849002 Kubota with Excel power and WIC							
907849003 Kubota with Excel power and battery charge/crank assist**							



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 (gas)



» 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. Maximize 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 ECH730**
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 14)
- Spoolmate™ 200 (pg 26)
- Spoolmatic® (pg 27)
- Spectrum® 375 X-TREME™ (pg 98)
- Full KVA Adapter Cord (pg 124)
- Protective Covers (pg 124)
- Remote Output Panel Kit (pg 124)
- HWY-Mid Frame Trailer (pg 125)
- 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 MODE/PROCESS	AMP/VOLT RANGES	RATED OUTPUT AT 184°F (40°C)	AUXILIARY POWER AT 184°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)	
GAS	Bobcat 200 Air Pak 907771 Rehlko	CC: 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: 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 warranted 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)

¹With wire feeder.

²Two-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 warranted separately by engine manufacturer.

Most popular accessories

- ArcReach® SuitCase® Feeders (pg 14)
- Spoolmate™ 200 (pg 26)
- Spoolmatic® (pg 27)
- ArcReach® Stick/TIG Remote (pg 53) (Trailblazer only)
- ArcReach® Heater (pg 53/96) (Trailblazer only)
- Spectrum® 625 X-TREME™ (pg 98)
- Protective Cover (pg 124)

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

Engine-Driven



MODEL/STOCK NO.	WELDING MODE/PROCESS	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)	
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)	570 (259)	
	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)	587 (266)	
	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	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		80–160 psig	100%	1.75 qt. (1.7 L)



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



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.



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.

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.

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.



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)

¹With wire feeder.

²ArcReach 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

Note: Engines are warranted separately by engine manufacturer.

Trailer package includes

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



Most popular accessories

- SuitCase® Feeders (pg 14/53)
- ArcReach® Smart Feeder (pg 14/53) (for ArcReach-equipped models only)
- Protective Cover (pg 124)

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

	STOCK NO.	WELDING MODE/PROCESS	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°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	Single-phase Peak: 12,000 watts Continuous: 10,000 watts	H: 32 (813)	Kubota: 950 (431) Mitsubishi: 993 (450)
	907732001 Kubota with ArcReach			350 A at 27 V, 100% duty cycle		H: 37 (876) (to top of exhaust)	
	907732013 Kubota with ArcReach and WIC	CV: MIG/FCAW	14-40 V	400 A at 24 V, 100% duty cycle		W: 26.25 (667)	
	951744 Kubota with ArcReach trailer package			D: 56 (1,422)			
	907733 Mitsubishi						
907733001 Mitsubishi with ArcReach							

WE BUILD TO WORK AS HARD AS YOU DO.

YOUR REPUTATION RELIES ON EVERY WELD. WE'VE GOT YOUR BACK.

For nearly a century, Miller has stood with the welders who get the job done. We build equipment as tough as the people who use it. Simple to operate. Made to last. Backed by support that's there when you need it.



Big Blue® 400 PipePro®

Designed for the transmission pipeline welder — with wireless interface control standard, superior downhill stick arc characteristics and MIG/flux-cored capabilities to meet high-strength steel requirements for the most demanding pipeline jobs.



Stainless steel model shown.

WIRELESS INTERFACE CONTROL

WIC is standard on all models. Work hassle-free with full engine-driven welder control in the palm of your hand.



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.

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.

Compact size and weight optimizes truck space.

LINE-X® cover provides superior impact, corrosion and abrasion protection.

Other features include digital meters with SunVision™, automatic idle, adjustable Hot Start™, output contactor control, 120-volt block heater, engine coolant temperature gauge and lift-off service door.



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)

¹With wire feeder.

²With ArcReach Smart Feeder.

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

- ArcReach® SuitCase® and Smart Feeders (pg 14/53)
- Full KVA Adapter Cord (pg 124)
- Single-Phase Full KVA Plug Kit (pg 124)
- Protective Cover (pg 124)
- HWY-Mid Frame Trailer (pg 125)

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

Engine-Driven

	STOCK NO.	WELDING MODE/PROCESS	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
DIESEL	907805001 Mitsubishi	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)	993 (450)
	907805 Mitsubishi w/stainless steel						

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.



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

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.



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 (pg 124)
- Single-Phase Full KVA Plug Kit (pg 124)
- Protective Cover (pg 124)
- HWY-Mid Frame Trailer (pg 125)

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	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)
- RMD®² • 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 14/53)
- ArcReach® Smart Feeder (pg 14/53)³
- ArcReach® Stick/TIG Remote (pg 53)³
- ArcReach® Heater (pg 53/96)³
- Dynasty 210® Series (pg 63)
- Full KVA Adapter Cord 300517 (pg 124)
- Full KVA Plug Kit (pg 124)
- Protective Covers (pg 124)
- Remote Output Panel Kit (pg 124)
- HWY-225 Trailer (pg 125)
- 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 MODE/PROCESS	AMP/VOLT RANGES	RATED OUTPUT AT 104°F (40°C)	AUXILIARY POWER AT 104°F (40°C)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
Big Blue 500 Pro 907736 Kubota 907736001 Kubota Deluxe model	CC: Stick/TIG	20–500 A	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 Big Blue 600 Air Pak* 907750 Deutz	CC: Stick/TIG	20–600 A	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) Air Pak: 2,040 (925)
	CV: MIG/FCAW	15–50 V	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			
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.



» 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® power sources 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)
- RMD²
- 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.)

¹With wire feeder.

²With 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 14/53)
- ArcReach® Smart Feeder (pg 14/53)
- ArcReach® Stick/TIG Remote (pg 53)
- ArcReach® Heater (pg 53/96)
- Dynasty 210® Series (pg 63)
- Full KVA Adapter Cord (pg 124)
- Full KVA Plug Kit (pg 124)
- Protective Cover 301113 (pg 124)
- Remote Output Panel Kit (pg 124)
- HWY-225 Trailer (pg 125)
- 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

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



Engine-Driven

*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 MODE/PROCESS	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	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			
	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)	



Miller offers an array of versatile submerged arc components, including power sources, controls, wire drives, torches, tractors and a variety of other accessories.

For more information, visit MillerWelds.com/subarc

Submerged Arc

SubArc Digital Series

The SubArc Digital Series of power sources, interface controls and accessories include digital control and communication electronics designed to improve weld performance and simplify the integration of the equipment in more advanced applications.



» SubArc DC 650 Digital



» SubArc DC 1000 Digital



» SubArc AC/DC Digital

Key features

Two DC power source models and one AC/DC power source model. Power sources have sufficient power capacity to cover applications from traditional DC single-arc to multi-wire tandem welding. In the case of electroslag welding or other high-current demand, two or more power sources can easily be paralleled (both DC and AC/DC machines).

Low-voltage accessory operation and improved environmental protection. The Digital Series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated, providing a high level of protection for harsh environments.

Easy to integrate. Our SubArc power sources are easy to integrate by using a standard Modbus® connection.

All power sources feature thermal overload protection, line voltage compensation and Fan-On-Demand™.

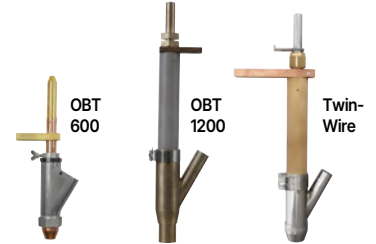


Sub Arc DC Series is DC only.

Heavy industrial processes

- Submerged arc (SAW)
- Electroslag (ESW)
- Air carbon arc cutting and gouging (CAC-A)

Most popular accessories



- **SubArc Torches** (pg 127)
043923 OBT 600
043900 OBT 1200
301144 1200-Amp Twin-Wire Torch (Long)



- **SubArc Flux Hopper Digital Low Voltage** 300942 (pg 127)
- 15 ft. (4.6 m) SubArc Parallel Cable 260775015 (pg 127)
- 15 ft. (4.6 m) SubArc Tandem Cable 260878015 (pg 127)

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

*While idling.

MODEL/STOCK NO.	AMPERAGE RANGE (CC MODE)	VOLTAGE RANGE (SUB ARC MODE)	RATED OUTPUT AT 100% DUTY CYCLE	AMPS INPUT AT RATED OUTPUT, 60 HZ					MAX OPEN-CIRCUIT VOLTAGE	DIMENSIONS (INCLUDES LIFT EYE, BUT NOT STRAIN RELIEF) IN. (MM)	NET WEIGHT LB. (KG)
				230 V	460 V	575 V	KVA	KW			
SubArc DC 650 Digital 907622 230/460/575 V	50–815 A	20–44 V	650 A at 44 V	126 3.8*	63 1.9*	50.4 1.4*	50 1.52*	34.8 0.76*	75 Vpk	H: 30 (762) W: 23 (584) D: 38 (965)	593 (269)
SubArc DC 1000 Digital 907624 230/460/575 V	100–1,250 A	20–44 V	1,000 A at 44 V	180 5.8*	90 2.9*	72 2.4*	73 3.2*	53 0.5*	68 Vpk		682 (309)
SubArc AC/DC Digital 907620 460 V	300–1,250 A	20–44 V	1,000 A at 44 V	—	122 3.0*	—	98 2.37*	53 0.95*	93 Vpk	H: 43 (1,092) W: 28 (711) D: 48 (1,219)	1,187 (538)



SubArc Interface Digital Control



Easier setup and operation. The SubArc Interface Digital control recognizes the power source and wire drive connected, and automatically configures the system for proper operation.

Internal terminal strip is able to integrate with positioners, sidebeams, turning rolls and other peripheral equipment.

Most popular accessories

- SubArc Control Cables (pg 127)
 - 260622030 30 ft. (9.1 m)
 - 260622050 50 ft. (15 m)
 - 260622060 60 ft. (18.3 m)
 - 260622080 80 ft. (24.4 m)
 - 260622100 100 ft. (30.5 m)
 - 260622120 120 ft. (36.6 m)
 - 260622200 200 ft. (61.0 m)

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

STOCK NO.	INPUT POWER FROM WELDING POWER SOURCE	WELDING POWER SOURCE TYPE	WELD VOLTAGE/AMPERAGE CAPACITY	DIMENSIONS H x W x D IN. (MM)	NET WEIGHT LB. (KG)
300936	24 VAC, 1-phase, 25 A, 50/60 Hz	Constant voltage (CV), AC or DC, with remote contactor and output control capabilities	0–100 V 0–1,500 A	11.5 x 12 x 7 (292 x 305 x 178)	15.8 (7.2)

SubArc Remote Operator Interface



Motor Control Digital



Remote Pendant Digital

Point-of-use installation.

Remote Pendant can be handheld or secured at point of use to improve operation.

Remote installation.

Motor Control can be remotely installed, resulting in reduced cables at the operator workstation.

Side handles on Remote Pendant provide option for handheld operation with full functionality of a traditional SubArc Interface.

Most popular accessories

- SubArc Control Cables (see pg 127 for complete list)
 - 260622030 30 ft. (9.1 m)
 - 260622050 50 ft. (15 m)
 - 260622080 80 ft. (24.4 m)
- Continuum™ Control/Motor Cables (see pg 127 for complete list)
 - 263368015 15 ft. (4.6 m)
 - 263368025 25 ft. (7.6 m)
 - 263368050 50 ft. (15 m)

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

*Motor Control Digital and Remote Pendant Digital require each other, along with a Continuum control/motor cable.

MODEL/STOCK NO.*	STOCK NO.	INPUT POWER FROM WELDING POWER SOURCE	WELDING POWER SOURCE TYPE	WELD VOLTAGE/AMPERAGE CAPACITY	DIMENSIONS H x W x D IN. (MM)	NET WEIGHT LB. (KG)
SubArc Motor Control Digital	301425	24 VAC, 1-phase, 25 A, 50/60 Hz	Constant voltage (CV), AC or DC, with remote contactor and output control capabilities	0–100 V 0–1,500 A	11.5 x 12 x 7 (292 x 305 x 178)	15.8 (7.2)
SubArc Remote Pendant Digital	301424	42 VDC, 1 A			11 x 10.63 x 3.13 (279 x 270 x 80)	3 (1.4)

SubArc Wire Drives Digital Low Voltage



SubArc Wire Drive 400 Digital Low Voltage

is a standard-speed, right-angle wire drive assembly with a 4-foot (1.2 m) input power cord.

SubArc Wire Drive 200 Digital Low Voltage

is a low-speed, right-angle wire drive assembly with a 4-foot (1.2 m) input power cord.

Most popular accessories

- Motor Extension Cables (pg 127)
 - 254232005 5 ft. (1.5 m)
 - 254232010 10 ft. (3 m)
 - 254232025 25 ft. (7.6 m)
 - 254232065 65 ft. (19.8 m)
- Drive Rolls (pg 127)
- Single-Wire Straightener 199733 (pg 127)
- Twin-Wire Straightener 301160 (for twin-wire torches only) (pg 127)
- Manual Single Slide (pg 127)

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

MODEL	STOCK NO.	INPUT POWER	RATING	WIRE FEED SPEED	WIRE DIAMETER CAPACITY	NET WEIGHT LB. (KG)
SubArc Wire Drive 400 Digital Low Voltage	300938	38 VDC	1/5 hp, 85 rpm	30–400 ipm (0.8–10.2 m/min.)	1/16–5/32 in. (1.6–4.0 mm)	26 (11.8)
SubArc Wire Drive 200 Digital Low Voltage	301596	38 VDC	1/5 hp, 42 rpm	20–200 ipm (0.5–5.1 m/min.)	1/8–3/16 in. (3.2–4.8 mm)	26 (11.8)



SubArc Hercules™ System

A patented, game-changing, high-deposition submerged arc welding solution with filler metal, torch, and power source combined to deliver outstanding improvements to deposition rates and travel speed.

Submerged Arc



Hobart SubCOR wire

NEW!

SubArc DC 1000 Digital

XMT 450 SAW Hercules

SubArc Hercules preheat switch

SubArc Hercules torch

Key features

Miller® power sources. A SubArc power source works together with a secondary power source to enable the Hercules process of conditioning the wire.

Hobart® SubCOR™ wire was developed to achieve the high-deposition rates possible. This unique Hobart filler metal was specially formulated to maintain arc stability at these high-deposition rates whereas other wire formulations may lose arc stability and seize up over time.

SubArc Hercules™ torch features two separate contact tips that allow two sources of power input, enabling the high-deposition process by electrical conditioning of the wire. This torch was specifically created for the SubArc Hercules process to ensure smooth feeding performance at elevated wire temperatures and deposition rates.

SubArc Hercules™ switch kit provides the ability to alternate between a standard SAW process and SubArc Hercules with the flip of a switch.

Coordination of all the components, along with the unique formulation of the Hobart® SubCOR™ wire is what makes the SubArc Hercules process work. Hercules customers have enjoyed an average of 30 percent improvement in deposition rate over welding processes they previously considered best in class, raising the bar for state-of-the-art, high-deposition-rate welding productivity.

All components sold separately

SubArc Digital power source (see page 90)

- Provides submerged arc welding current
- Compatible with all SubArc equipment
 - SubArc DC 650 Digital
 - SubArc DC 1000 Digital
 - SubArc AC/DC Digital
 - Legacy 14-pin SubArc equipment

XMT® 450 SAW Hercules™ power source 907481005

- Provides secondary electrical current for SubArc Hercules process
- XMT 450 with modified-software lower voltage (1–10 volts)
- CV only

Note: This power supply can only be used for SubArc Hercules. It will NOT support other processes.

SubArc Hercules™ torch 301725

- Based on standard Miller® OBT 1200 torch
- Air-cooled
- Two contact tips
 - Preheat contact tip (upper contact tip) is a standard OBT 600
 - Welding tip (lower contact tip) is a standard OBT 1200

Hobart® SubCOR™ wire

- Developed to achieve the highest-deposition rates possible
- SubCOR (1/8 and 5/32 in. diameters)
 - SubCOR EM13K-S MOD (70 ksi tensile)
 - SubCOR 92S (80 ksi tensile)
 - SubCOR N1-S (70 ksi tensile for weathering steel)
 - SubCOR 100F3-S (90 ksi tensile)
 - SubCOR 120-S (110 ksi tensile)

SubArc Hercules™ preheat switch 301735

- Simple enable/disable switch
- LED on when enabled

Note: No special wire drive or interface required.



SubArc 3-Wheel Tractor



Easy-to-use foot- or hand-operated clutch allows for easy engagement of tractor drive and disengagement to move tractor into position.

Flexible mast configuration allows torch to be positioned in multiple weld zones and adapts to your weld application.

SubArc Tractor Interface Digital provides easy-to-operate single control for power source and tractor operation.

Regulated travel speed ensures your actual and set travel speeds are consistent, improving weld quality.

Locking front wheel can be set in place to desired travel path.

Accommodates a 60-pound (27 kg) wire reel for fewer wire changeovers.

Low-voltage operation and improved environmental protection. The Digital Series accessories are powered with 24 VAC control voltage from the power source. All power sources, interface controls and wire drives are IP23 rated, providing a high level of protection for harsh environments.

Package includes

- SubArc 3-Wheel Tractor
- SubArc Tractor Interface Digital
- SubArc Wire Drive 400 Digital Low Voltage
- 10 lb. (4.5 kg) capacity flux hopper with manual valve
- 60 lb. (27 kg) wire reel
- OBT 600 torch
- Wire straightener

Required power source

- SubArc Digital Series (pg 90)

Most popular accessories

- SubArc Control Cables (pg 127)
- Contact Tips (pg 127)
- Drive Rolls (pg 127)

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

STOCK NO.	INPUT POWER FROM WELDING POWER SOURCE	WIRE FEED SPEED	WIRE DIAMETER CAPACITY	GUN POSITIONING SLIDES	DRIVE MOTOR	TRAVEL SPEED	DIMENSIONS H x W x D IN. (MM)	NET WEIGHT LB. (KG)
951755	24 VAC, 1-phase, 25 A, 50/60 Hz	30–400 ipm (0.8–10.2 m/min.)	1/16–5/32 in. (1.6–4.0 mm)	3.5 in. (88.9 mm)	38 VDC	5–70 ipm (0.13–1.75 m/min.)	36 x 43.25 x 31.63 (914 x 1,149 x 803)	120 (54.4) without flux or wire

SubArc Portable Welding Systems



Self-contained system for pressure vessel, pipe and general welding applications. Houses a power source, column and boom on a mobile platform.

Built-in fork pockets and caster wheels allow welding system to be brought to the joint.

Easy positioning of the weld head through use of integrated motorized column, manual telescoping boom, slide and 360-degree column rotation.

Motorized column with pendant control and manual telescoping boom provides 44 inches (1,117 mm) of vertical travel and 31 inches (787 mm) of horizontal travel respectively.

Manual slide provides 7.87 inches (200 mm) of fine vertical and horizontal torch adjustment.

SubArc DC 650 Digital portable system shown.

Systems include

- Portable column and boom
- SubArc Digital power source
- SubArc Interface Digital and control cable
- SubArc Wire Drive 400 Digital Low Voltage
- 25 lb. (11.3 kg) capacity flux hopper with valve
- 60 lb. (27 kg) wire reel and support assembly
- OBT 600 torch (650 system) **OR** OBT 1200 torch (1000 system)
- Wire straightener
- Manual slide

Most popular accessories

- Contact Tips (pg 127)
- Drive Rolls (pg 127)

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

STOCK NO.	SUPPLY VOLTAGE	COLUMN STROKE	COLUMN TRAVEL	BOOM STROKE	BOOM TRAVEL	BASE ROTATION	MINIMUM WORKING HEIGHT IN. (MM)	MAXIMUM WORKING HEIGHT IN. (MM)	OVERALL HEIGHT IN. (MM)
951675 w/SubArc DC 650 Digital 951676 w/SubArc DC 1000 Digital See page 90 for power source specs	120 V, 1-phase, 60 Hz See page 90 for power source requirement	44 in. (1,117 mm)	Constant speed	31 in. (787 mm)	Manual	360°	DC 650: 33.5 (851) DC 1000: 26.25 (667)	DC 650: 77.5 (1,969) DC 1000: 70.25 (1,784)	102 (2,590)

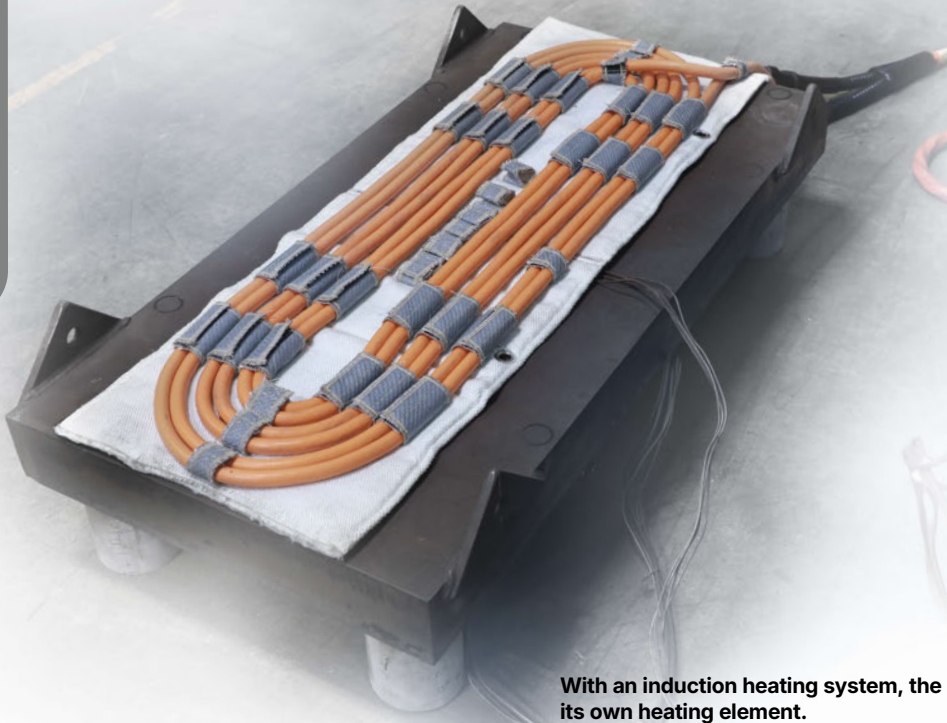


Easy to set up, an induction heating system delivers exceptional accuracy and efficiency, with fast time-to-temperature and true temperature uniformity across the workpiece.

For more information, visit MillerWelds.com/induction

Induction Heating

ProHeat™ Induction Heating



Reduce injury
Removing open flames from the jobsite increases safety.



Reduce labor
Perform other tasks while heating is happening.



Reduce inefficiencies
Weld team can be the heating team.



Reduce time to heat
In many cases, overall cycle can be up to four times faster than flame or resistance heating.

With an induction heating system, the metal part you're heating becomes its own heating element.

Induction heating applications

- Preheating and maintaining weld temperature • Hydrogen bake-out
- Post-weld heat treatment (PWHT) up to 1,450°F • Shrink-fit processes
- Various other applications which require heating

Induction heating industries

- Oil and gas • Structural • Power plants • Petrochemicals/refineries • Mining
- Shipyards • Pressure vessels • Process/power piping



ProHeat 35 power source shown with optional heavy-duty induction cooler, running gear and digital recorder.

ProHeat 35 Power Source

The ProHeat 35 induction power source is equipped with a built-in temperature controller allowing for manual or temperature-based programming using up to four control thermocouples. At more than 90 percent efficiency, the ProHeat 35 power source transfers more energy to the part, reducing operating costs over different heating methods.

Digital recorder (optional)

The digital recorder is commonly used in stress relieving and critical preheat applications. The recorder stores temperature data based on time. It is not required to perform successful heating applications.

Heavy-duty induction cooler (optional)

Optimized for induction heating applications, cooler features a 2.5-gallon rustproof polyethylene tank, high-pressure pump, and blower to yield a high cooling capacity.

Note: Primary input cable is not included with power source.

For more information: Call 1-844-IND-HEAT (1-844-463-4328) or email InductionSales@MillerWelds.com



One ProHeat™ System — Four Basic Induction Heating Configurations

ProHeat 35 induction heating systems solve preheating, post weld heat treatment (PWHT) and stress relieving problems.



Liquid-Cooled Cables

Heating applications up to 1,450 degrees Fahrenheit (788°C).

- A highly versatile tool for preheating, stress relieving, hydrogen bakeout, post weld heat treatment and shrink fit in a variety of pipe diameters and flat plate
- Designed with flexibility in mind, the ProHeat liquid-cooled induction heating cables can be wrapped into coils of various shapes and sizes to fit almost any induction heating application



Liquid-Cooled Rolling

Preheat of moving parts up to 600 degrees Fahrenheit (315°C).

- Ideal for preheating rolling pipe and moving parts, with easy and time-saving setup and movement for maintaining and adhering to preheat and interpass temperatures
- Adaptable to automation applications on gantry systems and robots
- *Optional* infrared temperature sensor can read the temperature on the moving part from 122–752 degrees Fahrenheit (50–400°C)
- *Optional* travel detect system can be used for setting different heating rates/ramps based on workpiece speed travel — when no movement is detected the system turns off the output preventing damage to workpiece and rolling inductor



Air-Cooled Blankets

Preheating applications up to 400 degrees Fahrenheit (204°C).

- Air-cooled blankets are available for pipe diameters from 8–60 inches, or in the case of plate available lengths are 40–197 inches
- The blankets easily conform to circular and flat parts and install in a matter of seconds
- Manufactured from durable high-temperature materials, flexible induction blankets are designed for both industrial and construction applications



Air-Cooled Cables

Preheating applications up to 400 degrees Fahrenheit (204°C).

- Air-cooled cables are available in lengths of 30 foot (9.1 m), 50 foot (15.2 m) or 80 foot (24.4 m) for flexible configurations
- Designed with flexibility and efficiency in mind, the air-cooled cables can be wrapped into coils of various shapes and sizes to fit almost any induction preheating application, without the need for cooler and coolant
- Air-cooled cables provide the same flexibility as liquid-cooled cables for preheating



ArcReach® Heater

Air-Cooled Induction System

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



ArcReach Heater



Air-cooled cable



Air-cooled quick wrap

Induction Heating

ArcReach Heater systems are lightweight and portable for field preheating and bakeout 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

Suggested power sources

- XMT® 400 ArcReach (pg 50–52)
- XMT® 650 ArcReach (pg 50–52)
- Trailblazer® 330 Series (pg 82)
- Trailblazer® 330 Air Pak™ (pg 85)
- Big Blue® Series (ArcReach models only) (pg 86–89)

Most popular accessories



- 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.

STOCK NO.	INPUT POWER	OUTPUT CURRENT	OUTPUT VOLTAGE	SOURCE CURRENT	OUTPUT FREQUENCY	RATED OUTPUT	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	5–30 kHz	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								



For more information, visit MillerWelds.com/plasmacutters

	MODEL	PAGE	CLASS	GOUGING	PIERCING	RATED OUTPUT/ DUTY CYCLE	RATED CUTTING CAPACITY*			MAX. SEVER THICKNESS MILD STEEL*	SPECIAL FEATURES	TYPICAL APPLICATIONS		
							MILD STEEL	STAINLESS STEEL	ALUMINUM					
1-PHASE	Spectrum® 375 X-TREME™	98	●	+	+	30 A at 40%	3/8 in.	3/8 in.	1/4 in.	5/8 in.	Auto-Line™ (120–240 V), MVP™ plugs, Auto-Refire™, automatic air regulation, XT30 torch	HVAC, maintenance, light construction, auto restoration, fabrication		
	Spectrum® 625 X-TREME™	98	●	+	+	40 A at 60%	5/8 in.	1/2 in.	3/8 in.	7/8 in.	Auto-Line™ (120–240 V), MVP™ adapters, Auto-Refire™, automatic air regulation, XT40 torch	Maintenance, light construction, body shops, prototyping		
	Spectrum® 875	98	■	+	+	50 A at 60%	7/8 in.	7/8 in.	5/8 in.	1-1/4 in.	Auto-Refire™, automatic air regulation, XT60 torch	Construction, maintenance/repair, fabrication		
1-3-PHASE	Spectrum® 875 Auto-Line™	98	■	+	+	1-phase: 230–575 V: 50 A at 60% 3-phase: 208–230 V: 55 A at 60% 3-phase: 380–575 V: 60 A at 60%	7/8 in.	7/8 in.	5/8 in.	1-1/4 in.	Auto-Line™ (208–575 V), Auto-Refire™, automatic air regulation, XT60 torch	Construction, maintenance/repair, fabrication		
ENGINE-DRIVEN WELDER/GENERATOR							CONTINUOUS AUXILIARY POWER		SPECTRUM 375 X-TREME STEEL QUALITY CUT / OUTPUT AMP SETTING**		SPECTRUM 625 X-TREME STEEL QUALITY CUT / OUTPUT AMP SETTING**		SPECTRUM 875/875 AUTO-LINE STEEL QUALITY CUT / OUTPUT AMP SETTING**	
CUTTING W/ENGINE DRIVES	Fusion 185 and Blue Star® 185						6,200 watts		3/8 in. / 30 A		Not recommended		Not recommended	
	Bobcat™ 200 Air Pak™						6,500 watts		3/8 in. / 30 A		Not recommended		Not recommended	
	Bobcat™ 230 and 230 3 Phase						9,500 watts		3/8 in. / 30 A		5/8 in. / 40 A		1/2 in. / 45 A	
	Bobcat™ 265 and 265 Air Pak™						9,500 watts		3/8 in. / 30 A		5/8 in. / 40 A		1/2 in. / 45 A	
	Trailblazer® 330 Series and 330 Air Pak™						10,500 watts		3/8 in. / 30 A		5/8 in. / 40 A		1/2 in. / 45 A	
	Big Blue® 400 Series						10,000 watts		3/8 in. / 30 A		5/8 in. / 40 A		1/2 in. / 45 A	
	Big Blue® 500 Pro, 600 Series and 800 Series						1-phase: 12,000 watts 3-phase: 20,000 watts		3/8 in. / 30 A		5/8 in. / 40 A		7/8 in. / 50 A	

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

*Note on cut capacity ratings: The Spectrum Series rating system is designed to provide a guide to help our customers choose the right machine for their application. Rated cut capacity is based on traveling approximately 15 inches per minute to achieve a steady, precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Sever cut is the maximum cut achieved in ideal conditions. Some factors that dictate actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.

**240 V, full KVA plug. Derate cut capacity with less auxiliary power.

For more detailed information, see individual literature sheets.

PRODUCT KEY



Spectrum® Series

Our Spectrum line of plasma cutters provides big cutting power in portable packages and with features like flexible cables and Auto-Refire technology they are better than ever. Step up to Spectrum 625 X-TREME™ or 875/875 Auto-Line™ models to add Ultra-Quick Connect hand-held torches.

Plasma Cutters



Spectrum 375 X-TREME

Spectrum 625 X-TREME

Spectrum 875

Spectrum 875 Auto-Line

Spectrum Features

FEATURE	375	625	875	
	X-TREME	X-TREME	875	AUTO-LINE
Auto-Line™ (120–240 V)	+	+		
Auto-Line™ (208–575 V)				+
MVP™ plugs/adapters	+	+		
Ultra-Quick Connect™ torch with flexible cable		+	+	+
Quick connect flexible work cable with clamp	+	+	+	+
Built-in gas/air filter and regulator	+	+	+	+
Auto-Refire™	+	+	+	+
Auto postflow	+	+	+	+
Auto air regulation	+	+	+	+
X-CASE™	+	+		

Key features

Power factor correction (PFC). Utilizes input power effectively.

LED indicators for easy troubleshooting.

Non-high-frequency arc starting does not interfere with or damage controls or computers.

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

Auto postflow calculates the optimum length of postflow time to optimize consumable life and eliminate excessive air usage.

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

Built-in gas/air filter and regulator. Provides air filtration of airborne particles five microns and larger. Additional filtration and water separation recommended.

LVC™ line voltage compensation provides peak performance power under variable input voltage conditions for clean, steady cuts.

Wind Tunnel Technology™ prevents abrasive dust and particles from damaging internal components.

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

Quick connect flexible work cable with heavy-duty clamp.

Rated Cutting Capacity

375 X-TREME		625 X-TREME		875 AUTO-LINE	
1/4 in. (6.4 mm)		3/8 in. (9.5 mm)		5/8 in. (15.9 mm)	
SPECTRUM 375 X-TREME®		SPECTRUM 625 X-TREME®		SPECTRUM 875/875 AUTO-LINE™	
Aluminum	Steel/Stainless	Aluminum	Steel	Aluminum	Steel/Stainless
3/8 in. (9.5 mm)		5/8 in. (15.9 mm)*		7/8 in. (22.2 mm)	

*Stainless: 1/2 in. (12.7 mm) for Spectrum 625 X-TREME.

Cut capacity ratings are based on traveling speed of approximately 15 inches per minute to achieve a precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Factors that can affect actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.

Spectrum 625 X-TREME and 875/875 Auto-Line hand-held torches

Ultra-Quick Connect™ hand-held torches with flexible cables. XT40 hand-held torch for 625 model and XT60 hand-held torch for both 875 models feature quick torch connection, ergonomic handles to help prevent operator fatigue and flexible cables that make maneuvering easier.



Spectrum® 375 X-TREME™/625 X-TREME™



Spectrum 625 X-TREME shown

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (120–240 V, single-phase, 50/60 Hz for 375 model and 120–240 V, single-phase, 60 Hz for 625 model) with no manual linking, providing convenience in any job setting.

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

Adjustable shoulder strap for easy transport.

Multi-voltage plug (MVP™) for 375 model and **MVP™ adapter** for 625 model allow connection to 120- or 240-volt receptacles without tools.

XT30 hand-held torch for 375 model and **Ultra-Quick Connect™ XT40 hand-held torch** for 625 model feature ergonomic design and flexible cables.

Automatic gouging consumable detection on 625 model detects gouging consumable and adjusts gas pressure to optimize performance, eliminating the need for a manual regulator.



Only 875 Auto-Line model has 3-phase capabilities.

Light industrial/ industrial processes

375/625: Light industrial

875/875 Auto-Line: Industrial

- Air plasma cutting
- Air plasma gouging (625/875 models)

375 model comes complete with

- XT30 hand-held torch with 12 ft. (3.7 m) cable
- Heavy-duty work clamp with 12 ft. (3.7 m) flexible cable
- 10 ft. (3 m) power cord with MVP plugs for 120 V and 240 V
- X-CASE for protection and storage
- Consumables box with two electrodes, two tips, deflector and air fitting

625 model comes complete with

- XT40 hand-held torch with 12 ft. (3.7 m) or 20 ft. (6.1 m) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 12 ft. (3.7 m) power cord with 240 V, L6-30P twist lock plug
- MVP adapters with 120 V and 240 V plugs
- X-CASE for protection and storage
- Consumables box with two electrodes, two 40 A tips, one 30 A tip, one 30 A drag shield, deflector and air fitting

875 models come complete with

- XT60 hand-held torch with 20 ft. (6 m) or 50 ft. (15.2 m) cable
- Heavy-duty work clamp and flexible cable with quick connect
- 10 ft. (3 m) power cord
- Extra consumables

Most popular accessories (pg 126)

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

Spectrum® 875/875 Auto-Line™



Spectrum 875 shown

AUTO-LINE TECHNOLOGY Spectrum 875 Auto-Line model allows for any input voltage hookup (208–575 V, single- or three-phase, 50/60 Hz) with no manual linking, providing convenience in any job setting.

Note: Standard Spectrum 875 model operates on 208/230 V, single-phase, 50/60 Hz input voltage only.

Consumables storage compartment provides convenient access to consumables and parts.

Handle for easy transport.

Ultra-Quick Connect™ XT60 hand-held torch with ergonomic design and flexible cable.

MODEL/STOCK NO.	INPUT POWER	RATED OUTPUT AT 104°F (40°C)	RATED MAXIMUM INPUT AMPS	KVA	KW	COMPRESSOR REQUIREMENT	DIMENSIONS IN. (MM)	NET WEIGHT WITH TORCH LB. (KG)
Spectrum 375 X-TREME 907529 With 12 ft. torch	1-phase	120 V (15 A): 20 A at 88 VDC, 60% duty cycle	18.3	2.1	2.1	5.0 cfm (142 L/min.) at 90 psi (621 kPa)	H: 9 (229) W: 5.5 (140) D: 13.25 (337)	12 ft. torch: 19 (8.6)
		120 V (20 A): 27 A at 92 VDC, 35% duty cycle	26.1	3.1	3.1			
		240 V: 30 A at 92 VDC, 40% duty cycle	14.7	3.5	3.4			
Spectrum 625 X-TREME 907579 With 12 ft. torch 907579001 With 20 ft. torch	1-phase	120 V (15 A): 20 A at 88 VDC, 60% duty cycle	17.7	2.1	2.1	6.0 cfm (170 L/min.) at 90 psi (621 kPa)	H: 9 (229) W: 5.5 (140) D: 13.25 (337)	12 ft. torch: 21 (9.5) 20 ft. torch: 23 (10.5)
		120 V (20 A): 27 A at 91 VDC, 35% duty cycle	25.0	3.0	3.0			
		240 V: 40 A at 140 VDC, 60% duty cycle	27.6	6.6	6.5			
Spectrum 875 907850 With 20 ft. torch 907850001 With 50 ft. torch	1-phase	208/230 V: 50 A at 140 VDC, 60% duty cycle	208 V: 45.8 230 V: 40.9	208 V: 9.9 230 V: 9.7	208 V: 9.8 230 V: 9.6	6.75 cfm (191 L/min.) at 90 psi (621 kPa)	H: 13.5 (343) W: 8.75 (222) D: 18.5 (470)	20 ft. torch: 48 (21.8) 50 ft. torch: 57 (25.9)
		208/230 V: 40 A at 140 VDC, 100% duty cycle						
Spectrum 875 Auto-Line 907851 With 20 ft. torch 907851001 With 50 ft. torch	1-phase	208 V: 60 A at 140 VDC, 30% duty cycle	208 V: 47.6	208 V: 9.9	208 V: 9.7	6.75 cfm (191 L/min.) at 90 psi (621 kPa)	H: 13.5 (343) W: 8.75 (222) D: 18.5 (470)	20 ft. torch: 51 (23.1) 50 ft. torch: 60 (27.2)
		208–575 V: 60 A at 140 VDC, 40% duty cycle	230 V: 42.9	230 V: 9.7	230 V: 9.6			
		230–575 V: 50 A at 140 VDC, 60% duty cycle	380 V: 25.6	380 V: 9.7	380 V: 9.6			
		230–575 V: 45 A at 140 VDC, 100% duty cycle	460 V: 20.9	460 V: 9.7	460 V: 9.6			
			575 V: 16.8	575 V: 9.7	575 V: 9.6			
1-phase	208 V: 60 A at 140 VDC, 30% duty cycle	208 V: 28.2	208 V: 9.9	208 V: 9.5	6.75 cfm (191 L/min.) at 90 psi (621 kPa)	H: 13.5 (343) W: 8.75 (222) D: 18.5 (470)	20 ft. torch: 51 (23.1) 50 ft. torch: 60 (27.2)	
	230 V: 60 A at 140 VDC, 40% duty cycle	230 V: 25.3	230 V: 9.9	230 V: 9.5				
	208–230 V: 55 A at 140 VDC, 60% duty cycle	380 V: 15	380 V: 9.9	380 V: 9.4				
	380–575 V: 60 A at 140 VDC, 60% duty cycle	460 V: 12.3	460 V: 9.9	460 V: 9.4				
	208–575 V: 50 A at 140 VDC, 100% duty cycle	575 V: 9.8	575 V: 9.8	575 V: 9.8				



Smith™ Pressure Regulators / Station Regulator



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 46 only) allows smooth, easy adjustment even at high-pressure levels.

Stainless steel diaphragm (Series 40 and 46) resists corrosion, leaking and freeze-up if used with liquid (cryogenic) gases for extended service life, **OR neoprene diaphragm (Series 30 and 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 46) OR 2-inch gauges (Series 30 and 35) with shatter-resistant polycarbonate lens covers.

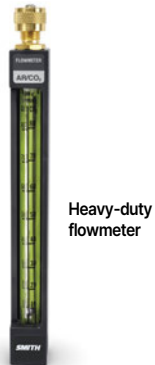
Dual filters including Sure Seat™ protect high-pressure seat from debris for reliable operation and long service life.

Color-coded label supplies performance capabilities, easy gas service identification and technical information.

Smith™ Flowmeter Regulators / Flowmeters



Heavy-duty flowmeter regulator



Heavy-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.



Smith self-centering ball guide

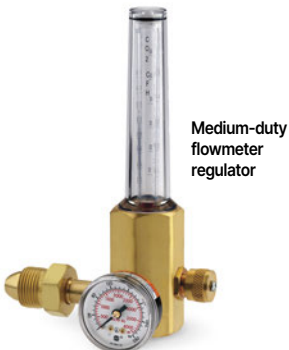
Others' conventional flow tube

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.



Medium-duty flowmeter regulator



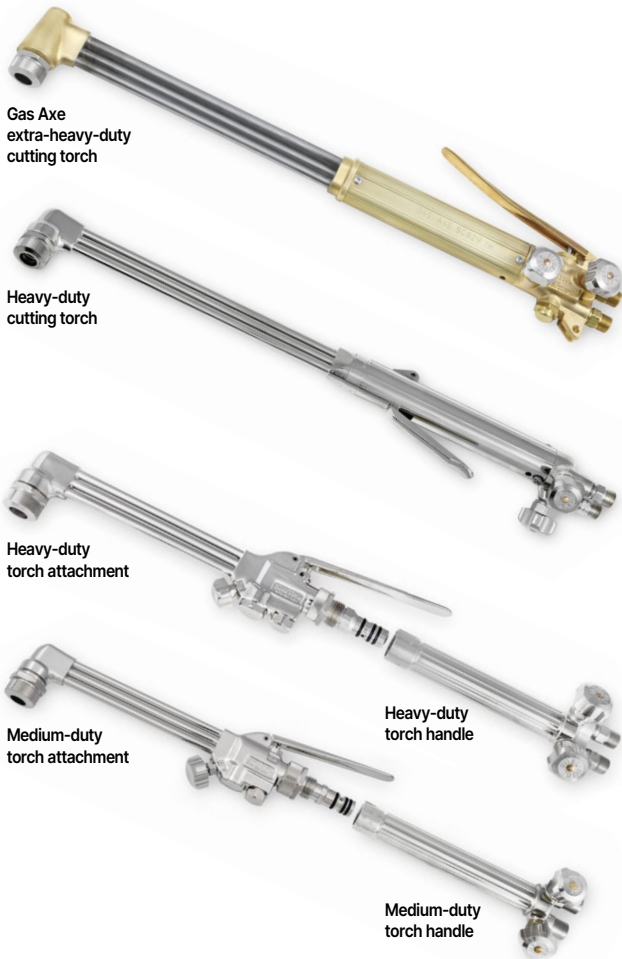
Medium-duty flowmeter





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 Axe extra-heavy-duty cutting torch

Heavy-duty cutting torch

Heavy-duty torch attachment

Medium-duty torch attachment

Heavy-duty torch handle

Medium-duty torch handle

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.

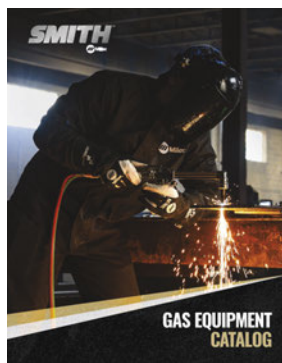
Smith™ Outfits

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

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.

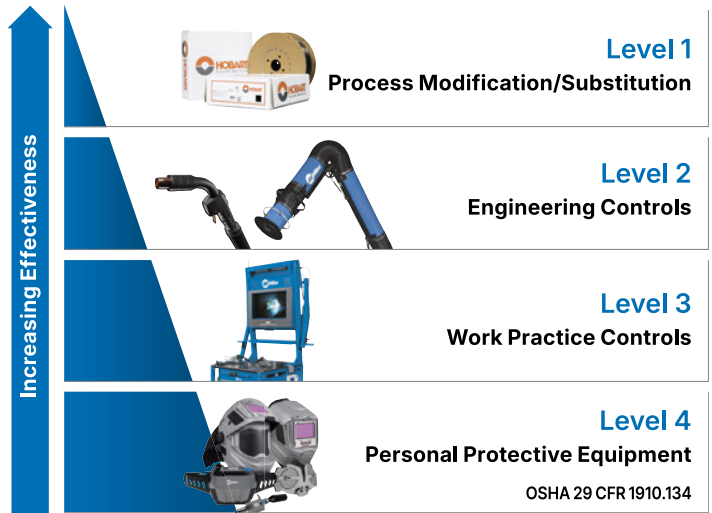




Safety Products

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

	MODEL	PAGE	EXTRACTOR TYPE	FILTER TYPE	WELDING ARCS	ZONEFLOW™ TECHNOLOGY	IDEAL FOR
HIGH - VACUUM	FILTAIR® 130	102	Portable	Manual cleaning	1	—	Light fabrication and manufacturing, contractors, MRO
	FILTAIR® 215	103	Mobile	Self-cleaning	Up to 4 per unit	—	Heavy industrial fabrication and fume guns/ long distance extraction
HIGH - VOLUME	FILTAIR® MWX	104	Mobile	MWX-D: Disposable MWX-S: Self-cleaning	1	—	Fabrication shops, manufacturing and training centers
	FILTAIR® Capture 5	104	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	105	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	106	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	108	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 25)
- 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,	31 sq. ft.	132 cfm (62 L/sec.)	68.5 dBA at	1.27 kW	H: 23 (584)	46 (21)
951860 With flexible funnel magnetic nozzle	60 Hz at 11.25 A	(2.88 sq. m)		5 ft. (1.5 m)		W: 12 (305) D: 12 (305)	

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.

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 25)



- **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**

Safety and Health



MODEL/STOCK NO.	INPUT POWER	FILTER MEDIA	NOMINAL AIRFLOW (VARIABLE)	SOUND LEVEL	MOTOR	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
301842	230 V	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						
301879	575 V						



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

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 951511 10 ft. standard arm 951512 12 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) MWX-S: 300 (136)
Capture 5 (Self-Cleaning) 951639 208/230 V, 10 ft. ZoneFlow arm 951640 208/230 V, 12 ft. ZoneFlow arm		208/230 V, 1-phase, 60 Hz at 14.6/13.5 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
951574 460 V, 10 ft. ZoneFlow arm 951575 460 V, 12 ft. ZoneFlow arm		460 V, 3-phase, 60 Hz at 3.7 A							



FILTAIR® SWX Series

Stationary fume extraction systems, wall- or column-mounted next to the weld area and designed specifically for welding. Disposable or self-cleaning filter models for multiple applications.



SWX-D

Disposable filter model shown with telescoping arm.



SWX-S

Self-cleaning model 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 arms. Choose from three different arm styles:

- **Telescoping arms** fit small booth spaces and telescope from 3 to 4.5 feet
- **Standard arms** cover larger spaces and are available in 7-, 10-, and 12-foot versions
- **ZoneFlow arms (self-cleaning models only)** extend the capture zone up to 5 feet and are available in 10- and 12-foot versions

Self-cleaning model additional features

Upgrade to self-cleaning model 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.

ZoneFlow™ arm 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 disposable filter models
 - 300540 For self-cleaning models
- Filters efficiently capture weld fume particulate and offer superior filter life



Hood Light with Arc Sensor

- 300763 For SWX Series (telescoping and standard arms only)
- Illuminates the welding zone and enables the fume extractor to start automatically when welding begins



SWX Dual-Arm Add-On Packages

- 951621 With telescoping arm
 - 951519 With 7 ft. standard arm
 - 951520 With 10 ft. standard arm
 - 951521 With 12 ft. standard arm
 - 951762 With 10 ft. ZoneFlow arm
 - 951822 With 12 ft. ZoneFlow arm
- Includes 8-inch diameter arm, blower, control box, mounting bracket, duct and back draft dampers to turn single-arm weld fume extractor into dual-arm extractor

*Weight is without extraction arm.

MODEL/STOCK NO.		INPUT POWER	FILTER MEDIA	EXTRACTION ARM DIAMETER	NOMINAL AIRFLOW	SOUND LEVEL	MOTOR	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)*
SWX-D (Disposable Filter)	SWX-S (Self-Cleaning)	Blower motor: 115 V, 1-phase, 60 Hz at approximately 11.9 A ZoneFlow: 115 V, 1-phase, 60 Hz at approximately 12 A	490 sq. ft. (45.52 sq. m)	8 in. (203 mm)	1,200 cfm (566 L/sec.)	Standard: Approximately 75 dBA at 5 ft. (1.5 m) ZoneFlow: Approximately 80 dBA at 5 ft. (1.5 m)	1 hp, 3,450 rpm	SWX-D H: 29 (737) SWX-S H: 33 (838) W: 27.25 (692) D: 33 (838)	Cabinet: SWX-D: 130 (59) SWX-S: 195 (88) Blower/bracket: 95 (43)
951619 Telescoping arm	951620 Telescoping arm								
951513 7 ft. standard arm	951516 7 ft. standard arm								
951514 10 ft. standard arm	951517 10 ft. standard arm								
951515 12 ft. standard arm	951518 12 ft. standard arm								
	951760 10 ft. ZoneFlow arm								
	951761 12 ft. ZoneFlow arm								



FILTAIR® 4000-12000

Industrial centralized weld fume extractors are custom-engineered solutions designed for multiple capture sources which require ducting and accessories to complete the system.



FILTAIR 4000 model shown. Other models are available (6000, 8000, and 12000).

Key features

FILTAIR engineering resources. Design and engineering resources recommend, develop and support custom-engineered solutions.

Improves operating efficiency. Helps create a cleaner shop with less downtime spent cleaning equipment.

Stand-alone space saver. Our fully assembled fume extractor provides up to a 65 percent smaller footprint versus traditional cartridge-style extractors. It provides all the necessary extraction tools, while offering customizable options.



Less noise. High-efficiency motors and integrated silencer housing create a quieter, more productive work area.

Integrated electrical controls. Control panel manages all of the collector functions, including fan, filter differential, and pulse cleaning system.



24 VDC motor start/stop feedback relay allows an external signal to automate the remote start of collector fan from other equipment.

ZoneFlow™ arm additional features

EXCLUSIVE! ZoneFlow technology. Extends 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)

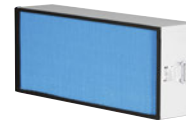
Custom solutions

- Schools and training facilities
- Automation and robotic cells
- Hood containment
- Return air options to save on heating costs

Comes with

- FilTek® XL filter
- Top OR front air inlet
- Configured for indoor OR outdoor mounting (outdoor models are wind load and seismic rated and include remote-mounted control box)

Most popular consumables and accessories



- FilTek XL Filter 300927
- Extraction Arms (pg 107)
- Arm Mounting Bracket Kit (pg 107)
- Low Profile Hoods (pg 107)
- Call us toll-free at 1-855-345-8247 for information on factory options such as HEPA filter kit, weather hood, Spark Cooler® and integration services

FilTek® XL filters

Easy-clean filter with surface-loaded filter technology allows for more effective weld fume pulse cleaning without penetration into the filter. This provides an easier filter cleaning process, while outlasting conventional cartridge filters.



Smaller size and fewer filters. One FilTek XL filter replaces up to three cartridge-style filters, increasing efficiency, reducing extractor size and lowering operational costs.

*Based on clean filters.

**Dimensions for base models without factory options.

For more information and requests for quotes on custom-engineered solutions to fit your needs, call us toll-free at 1-855-345-8247 or email us at FILTAIRquotes@millerwelds.com

MODEL	INPUT POWER	NUMBER OF FILTER PACKS	NOMINAL AIRFLOW RANGE*	SOUND LEVEL	DIMENSIONS H x W x D IN. (MM)**	SHIP WEIGHT LB. (KG)
FILTAIR 4000	230, 460 or 575 V, 3-phase, 60 Hz	4	2,000–4,800 cfm (944–2,265 L/sec.)	72–75 dBA at 5 ft. (1.5 m) Peak pulse cleaning is 92.7 dBA at 5 ft. (1.5 m)	86.1 x 31.2 x 83.2 (2,187 x 792 x 2,113)	1,600 (726)
FILTAIR 6000		6	2,300–6,600 cfm (1,085–3,115 L/sec.)		117.2 x 31.2 x 83.2 (2,977 x 792 x 2,113)	2,250 (1,021)
FILTAIR 8000		8	2,500–7,000 cfm (1,180–3,304 L/sec.)		135 x 37.2 x 83.2 (3,429 x 945 x 2,113)	2,900 (1,315)
FILTAIR 12000		12	4,000–10,500 cfm (1,888–4,955 L/sec.)		120.3 x 59.7 x 83.2 (3,056 x 1,516 x 2,113)	3,900 (1,769)



FILTAIR® 4000–12000 Accessories

Miller offers a full line of accessories for complete system solutions and turnkey installation.



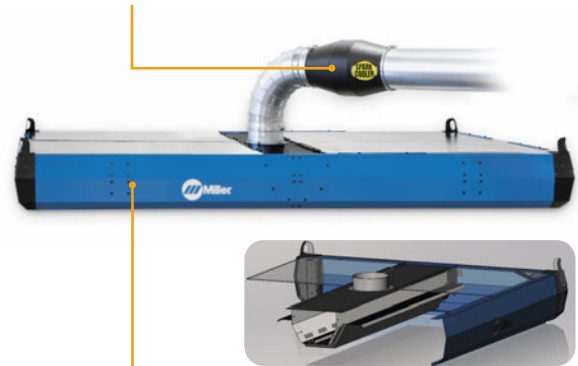
Easy-to-operate, pre-assembled extraction arms and mounting equipment.

- **Telescoping arms** are designed to fit small booth spaces used in training centers and educational booths. Telescopes from 3 to 4.5 feet with a wide range of motion to cover all positions
- **Standard arms** are designed to cover larger spaces and are available in 7-, 10- and 12-foot versions. External brackets and adjustments allow air to pass through with less resistance, giving you stronger cfm (airflow)
- **ZoneFlow™ arms** are designed to cover larger spaces and are available in 10- and 12-foot versions. ZoneFlow arms extend the capture zone up to five feet versus up to 18 inches with conventional source capture arms. External brackets and adjustments allow air to pass through with less resistance giving you stronger cfm (airflow)
- **Arm mounting bracket and ducting kit** includes a supporting bracket and collar for connecting an extraction arm to ductwork

MODEL	6-INCH DIAMETER	8-INCH DIAMETER
Telescoping Arm	301242 3–4.5 ft. arm	301237 3–4.5 ft. arm
Standard Arm	300953 7 ft. arm	300980 7 ft. arm
	300954 10 ft. arm	300981 10 ft. arm
	300955 12 ft. arm	300982 12 ft. arm
ZoneFlow Arm with Motor Control Box	951810 10 ft. arm	951758 10 ft. arm
	951811 12 ft. arm	951759 12 ft. arm
Arm Mounting Bracket and Ducting Kit	300952	300771

Spark Cooler®

- Cools sparks using the fume extractor's airflow
- Very efficient — maximizes the extractor's power
- Simple design is easy to install



FILTAIR low profile hood

- Available in sizes from 4 x 4 feet up to 16 x 16 feet in one-foot increments
- Exclusive design — capture velocity zone is maximized and distributed over the work area
- Hood airflow design reduces sound for better communication
- Unique airflow offers spark abatement in the extraction rail, as well as the recommended Spark Cooler
- Clear, UV-protected polycarbonate ceiling panels allow maximum light into the cell
- Corner lift hooks are convenient for installing or hanging over a work area — hood can also be placed on an existing cell enclosure or supported with post assemblies

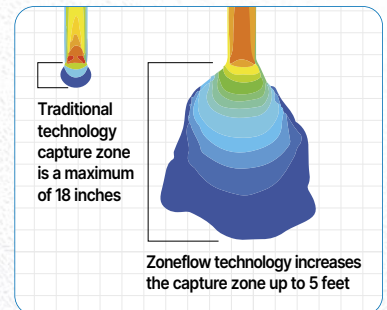
For more information and requests for quotes on custom-engineered solutions to fit your needs, call us toll-free at 1-855-345-8247 or email us at FILTAIRquotes@millerwelds.com

ZoneFlow™ Technology

The Capture Zone Redefined — Innovative, Extended-Capture Fume Extraction System Designed Specifically For Welding



Miller®-exclusive ZoneFlow is a patented airflow technology that creates an extraction zone with air on the inside of the zone having lower pressure than air on the outside. The air pressure difference causes weld fume to get funneled to the center of the extraction arm. ZoneFlow technology has capture zones up to five feet (versus up to 18 inches for conventional technology) without affecting shielding gas or weld performance! The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity.



ZoneFlow is standard on the FILTAIR Capture 5, and optional on the FILTAIR SWX Series and FILTAIR 4000–12000 models (see pages 104, 105 and 106).

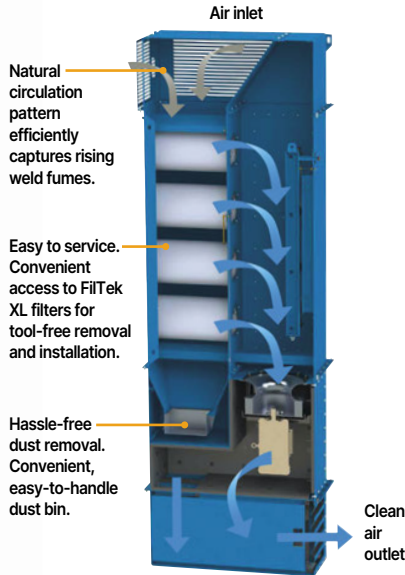


FILTAIR® Purifier

Stand-alone system that efficiently captures lingering weld fumes as they ascend, while circulating filtered air near floor level to improve overall air quality.



Integrated control panel with simple and intuitive display.



Processes

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

Comes with

- Eight FilTek® XL filters

Most popular consumables and accessories



- FilTek XL Filter 296823
Filter efficiently captures weld fume particulate and offers superior filter life

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.

Easy filter access and maintenance. Self-cleaning system extends filter life and includes an easy-to-reach particulate disposal bin. Filter change is simple with external access and no tools required.

Maximized nominal suction power of 7,000 cfm to better capture weld fumes and provide a cleaner environment.

Up to 85 percent more cfm within a similar footprint — creating faster air changeover and requiring fewer units to clean the same volume of air.

Efficient design. Captures rising weld fume at a height where it lingers, up to 41 percent higher than other systems.

Safety features include temperature sensor and water sprinkler included for reduced thermal hazard risk.

STOCK NO.	FILTER MEDIA	NUMBER OF FILTERS	NOMINAL AIRFLOW RANGE	SOUND LEVEL	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
301745 230 V, 3-phase, 60 Hz	2,032 sq. ft. (189 sq. m)	8	7,000 cfm (3,304 L/sec.)	75–80 dBA running at 5 ft. (1.5 m) Intermittent pulse cleaning is approximately 93 dBA at 5 ft. (1.5 m)	H: 170 (4,318) W: 48 (1,220) D: 62 (1,575)	3,272 (1,484)
301746 460 V, 3-phase, 60 Hz						
301769 575 V, 3-phase, 60 Hz						

FilTek® XL Filters The FilTek XL filter's higher MERV rating means superior filtering performance.

Filters are rated on a MERV scale, which measures filter efficiency based on particle count. MERV ratings range from 1 to 16, with 16 being the best at filtering small particulate — such as those found in weld fumes.

Filters in common air filtration systems often have MERV ratings from 7 to 11. FilTek XL filters are rated at class-leading MERV 15 or 16 to capture from 85–95 percent or more of weld fume particulate.

APPLICABLE WELD FUME MERV RATING CATEGORIES ¹	PARTICLE SIZE RANGE EFFICIENCY % ²		
	0.3 TO 1 µm	1 TO 3 µm	3 TO 10 µm
10	Not Rated	50–65%	85%
11	Not Rated	65–80%	85%
12	Not Rated	80–90%	85%
13	<75%	90%	90%
14	75–85%	90%	90%
15	Miller® FilTek XL	85–95%	90%
16		≥95%	≥95%
HEPA ³	≥99.97%	≥99.97%	≥99.97%
Weld Fume Composition ⁴	75–95%	≤15%	≤10%

¹ American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 52.2

² National Air Filtration Association (NAFA) Guide

³ HEPA filters are depth loading and have high restrictions to air flow, reducing system performance versus FilTek XL filters.

⁴ Jenkins, Pierce, Edgar, Particle Size Distribution of GMAW and FCAW



Weld Booths

Configurable weld booths with single-panel design for maximum modularity and customizability.



Key features

Engineered to seamlessly integrate into a variety of training and other welding environments.

Weld booth panels are available in 4-, 5- and 6-foot widths to be used as back or side walls.

Single-panel modular design to fit any space with a variety of configurations.

16-gauge steel with 1.5-inch-square tube structure and black textured powder coat for sleek look and long-lasting durability.

Walls are 27.5 inches from the ground to provide safety and accessibility.

California fire marshal approved, amber see-through weld curtains.

Multiple different arm mounting locations.

Floor anchoring feet (floor anchoring is optional and installation is the responsibility of customer).

Order exactly what you need to fit your layout

- Modular panels (sold individually)
- Hardware kit (one per booth) Includes weld curtain, curtain rod and hardware

Note: Simple nut-and-bolt assembly is required.

Most popular accessories



5-foot booth shown with ArcStation 60WX workstation

- ArcStation™ 60WX 951000107 Exclusive ArcStation table for use with 5-foot and larger weld booths



4-foot booth shown with ArcStation 30FX workstation

- ArcStation™ 30FX 300837 ArcStation table for use with 4-foot and larger weld booths



4-foot booth shown with FILTAIR telescoping arm

- FILTAIR® Extraction Arms (pg 107)

Weld Booth Configurations (Examples)

Single booth

1

- 1 back wall (choose width)
- 2 side walls (choose depth)
- 3 total panels (dimensions can be different)

Two connected booths (shared back wall)

1 2

- 1 back wall (choose width)
- 4 side walls (choose depth)
- 5 total panels (dimensions can be different)

Two connected booths (shared side wall)

1 2

- 2 back walls (choose width)
- 3 side walls (choose depth)
- 5 total panels (dimensions can be different)

Even number of connected booths (shared side and back walls)

1 2
3 4

- 2 back walls (choose width)
- 6 side walls (choose depth)
- 8 total panels (dimensions can be different)

*Order one hardware kit (295581) per booth. Includes weld curtain, curtain rod and hardware.

For more information, call us toll-free at 1-855-345-8247 or email us at FILTAIRquotes@millerwelds.com

MODEL/STOCK NO.*	MATERIAL	PANEL DIMENSIONS IN. (MM)	PANEL WEIGHT LB. (KG)
295140 4 ft. single panel	16-gauge steel with 1.5 in. square tube structure with black textured powder coat	H: 78 (1,981)	4 ft.: 63 (29)
295126 5 ft. single panel		W/D: 48 or 60 or 72 (1,219 or 1,525 or 1,828)	5 ft.: 75 (34)
296015 6 ft. single panel			6 ft.: 88 (40)



Respiratory



PAPR II with Helmet

- With T94-R™ helmet (external grind control)
292753 With *ClearLight™* 4x auto-darkening lens assembly
- With T94i-R™ helmet (integrated clear grind shield)
292754 With *ClearLight™* 4x auto-darkening lens assembly
- With T94i-R™ XL helmet (integrated clear grind shield)
292755 With *ClearLight™* 2.0 auto-darkening lens assembly

PAPR Systems

PAPR (Powered Air Purifying Respirator) systems consist of blower assembly, HEPA filter, prefilters (6), spark guard, breathing tube, breathing tube cover, padded belt, comfortable shoulder straps, lithium-ion batteries (2), battery charger, flowmeter, tool bag, and helmet assembly **OR** helmet assembly with integrated hard hat **OR** face shield assembly with clear shield (see packages at left).

- HEPA filter provides up to 99.97 percent filtration of airborne particulate
- NIOSH 42 CFR 84 certified, assigned protection factor of 25 with standard head seal **OR** 1,000 with optional heavy-duty head seal (Hard Hat and Face Shield only)



PAPR II with Hard Hat

- With T94iH-R™ helmet (integrated clear grind shield)
287510 With *ClearLight™* 4x auto-darkening lens assembly and integrated MSA V-Gard® hard hat
- 287188 Heavy-duty head seal only

Lift-to-talk head assembly improves communication by allowing face access without removal of head assembly.

Optional heavy-duty head seal provides additional protection with an APF of 1,000 (sold separately).



Key features

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.

MSA Fas-Trac® III ratchet-suspension headgear (Hard Hat) reduces pressure points while increasing stability.

Lightweight low-profile blower assembly with integrated backpack-style shoulder straps reduces back strain and fatigue.

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 112 for helmet features



PAPR II with Face Shield

- 288356 With HDV face shield
- 288346 Heavy-duty head seal only



Optional heavy-duty head seal provides additional protection with an APF of 1,000 (sold separately).



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 112 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 package below).

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

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

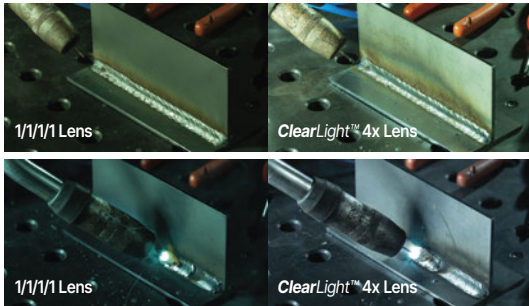


Auto-Darkening Welding Helmets

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)	17.5 oz. (495 g)	16.6 oz. (471 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.





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

Gear Box™
296771

Blue Rage™ II
296774

Forged In Freedom™
299617

NEW!

Digital Performance™ Series

Lightweight helmet with superior headgear for ultimate comfort.



Black
296757

Blue Rage™
296753

Unity™
296755



Burn & Blossom™
296756

Carbon Edge™
299616

NEW!

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

NEW!

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 hard hats. Other brands may fit depending on size and shape. Helmet and hard hat not included



Headgear 290460 Legacy (shown)
260486 Gen. IV
770246 Gen. I



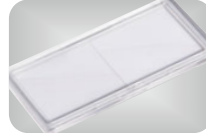
Helmet Lighting Accessory 281361
For T94 helmets
282013
For Infinity, Elite, Performance, Classic and MP-10 helmets

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



2 x 4 Auto-Darkening Lens with ClearLight™ Lens Technology
287828 Shade 9
287830 Shade 10
287833 Shade 11

- Solar powered lens fits all 2 x 4 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



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 251018

- Holds welding helmets, grinding shields or other helmets with a headgear
- Silicone strap secures the helmet in place



Jobsite Tool Bag 228028

- Over twenty separate pockets
- Opening of 12 x 18.5 inches (305 x 470 mm)

NEW!



Welding Backpack 299081

- 8 x 14 inch main compartment fits PPE, tools, or a Venture™ 150
- External helmet carrier and eleven pockets keep you organized



CoolBelt™ Belt-Mounted Helmet Cooling System 245230

- 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.



Weld-Mask™ with ClearLight™



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 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



Face Shield

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

- HDV technology provides a sharp detailed view at any angle with minimal distortion
- Impact-resistant shield for increased durability and protection
- Lightweight design for all-day wear and comfort
- Clear + Anti-Fog lens coating prevents fogging for enhanced visibility
- Shade 3 and 5 lenses provide protection for cutting, brazing or soldering applications
- Made of polycarbonate material that provides 99.9 percent UVA/UVB/UVC protection to help prevent eye damage
- ANSI Z87.1 compliant



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



Welding Gloves

Performance — exceptional comfort and performance combined with dexterity and flexibility.



Heavy-Duty MIG/Stick

- Strategically placed patches on palm and back for extended glove life
- Double-layered insulated palm and back for added protection and comfort
- Premium pig grain leather palm for extreme durability and protection



MIG (lined)

- Dual-padded palm for added comfort
- Fleece-insulated palm with foam-insulated back
- Cow grain palm, pig split back and goat grain inner fingers provide exceptional dexterity and comfort



TIG

- Completely unlined for heightened feel and dexterity
- Triple-padded palm for added comfort
- Premium goat grain leather for superior flexibility and dexterity



TIG/Multitask

- Wool back provides ultimate insulation
- Dual-padded palm for added comfort
- Premium goat grain leather offers superior flexibility and dexterity



Metalworker

- Durable top grain leather and spandex back for enhanced durability and dexterity
- Neoprene wrist with hook-and-loop closure for increased fit and support
- Padded, reinforced palm and thumb saddle for extended wear

Classic — traditional design for the value-minded welder.



Heavy-Duty MIG/Stick

- Premium pig grain leather palm and pig split back and cuff
- Curved wrist design complements the natural bend of the wrist, keeping cuff from flaring open when in work position
- Reflective insulation on back for reduced heat impact



MIG (cowhide)

- Cow split leather palm amplifies dexterity while pig split back and cuff provide abrasion, puncture and moisture resistance
- Curved wrist design complements the natural bend of the wrist, keeping cuff from flaring open when in work position
- Internal leather reinforcement patches strengthen the palm, index and thumb tip for extended glove life



MIG (pigskin)

- Pig split leather palm, back and 6-inch cuff provide abrasion, puncture and moisture resistance
- Designed with pre-curved fingers for ergonomic fit and maximum comfort
- Moisture-wicking fleece and foam elevate comfort and reinforcement patches extend wear



TIG

- Internal padding adds comfort and durability to the palm, index and edge
- Unlined palm heightens feel and dexterity for ultimate control
- Select sheep grain palm, cow split back and pig split 6-inch cuff



Work

- Dual-padded palm for added durability
- Fleece back provides ultimate insulation
- Premium cow grain leather for superior durability and abrasion resistance

Cut-resistant — exceptional comfort, performance and protection.



MIG

- ANSI A5 cut rating, level 4 puncture and abrasion rating, and level 3 heat rating
- Designed with pre-curved fingers for ergonomic fit and exceptional comfort
- Ergonomic wrist design for additional comfort
- Goat grain palm, cow split back and cuff, with Kevlar® flame-resistant thread



TIG

NEW!

Women's — designed for a more tailored fit.



MIG

- Fleece-lined for added comfort
- Cow grain palm and cow split back for long-lasting durability
- Seamless index finger for enhanced dexterity



TIG

- Foam-padded palm enhances comfort during extended use
- Split leather palm patch increases durability and wear resistance
- Goatskin leather for exceptional comfort and dexterity

*All asterisked stock numbers are sold as one pair. All others are sold as six packs (six pairs).

PERFORMANCE	SMALL	MEDIUM	LARGE	X-LARGE	2X-LARGE	CLASSIC	MEDIUM	LARGE	X-LARGE	CUT-RESISTANT	SMALL	MEDIUM	LARGE	X-LARGE	2X-LARGE
HD MIG/Stick	—	—	263339	263340	269615*	HD MIG/Stick	—	271877*	271887*	MIG	290412*	290413*	290414*	290415*	290416*
MIG (Lined)	—	263332	263333	263334	269618*	MIG (Cowhide)	—	271890*	271891*	TIG	290401*	290402*	290403*	290404*	290411*
TIG	263346	263347	263348	263349	—	MIG (Pigskin)	—	279875*	279876*	WOMEN'S	SMALL	MEDIUM	LARGE	X-LARGE	2X-LARGE
TIG/Multitask	263352	263353	263354	263355	—	TIG	279897*	279898*	279899*		MIG	298676*	298677*	298679*	298680*
Metalworker	—	251066	251067	251068	—	Work	266041*	266042*	266043*	TIG	298681*	298683*	298684*	298686*	—



Welding Apparel

All apparel is made of flame-resistant material.



Grain Leather Jacket (see size chart)

- Top-grain pigskin leather
- Expandable leather strategically placed for optimal mobility
- Satin lining for maximum comfort
- Tapered, athletic cut
- Sewn entirely with Kevlar® thread, adding structural durability at each seam

Split Leather Jacket (see size chart)

- Premium pig split leather
- Extended rear tail for added protection
- Expandable leather strategically placed for optimal mobility
- Mesh lining for comfort and breathability
- Sewn entirely with Kevlar® thread, adding structural durability at each seam

WeldX™ Jacket (see size chart)

- 7-ounce WeldX front and navy cotton back
- Lightweight exclusive material with extreme flame-resistant properties
- Vented back/extended rear tail
- Zipper closure with hook-and-loop fastened flap
- Chromium free

Combo Jacket (see size chart)

- 9-ounce Indura® cotton (flame resistance guaranteed for life of jacket) with top-grain leather providing additional protection in high-exposure areas
- Pre-shrunk fabric

Indura® Cloth Jacket (see size chart)

- 9-ounce Indura® cotton (flame resistance guaranteed for life of jacket)
- Pre-shrunk fabric

Note: Indura® is a registered trademark of Westex® by Milliken™ used under license by IFR Workwear Inc.



Classic Cloth Jacket (see size chart)

- 9-ounce navy cotton
- Pre-shrunk fabric
- Fold-in sleeve snaps
- Finished hems and reinforced stitching

NEW!



Women's Cloth Jacket (see size chart)

- Designed to women's size standards with an adjustable waist for a tailored and comfortable fit
- 9-ounce 100 percent cotton for reliable comfort and protection
- Covered front zipper for a secure closure
- Wrist snap closures



Classic Cloth Apron 247149

- 35-inch length with accessible front pocket
- Adjustable drawstring ensures a good fit



Leather Bib/Apron 231125

- Attaches to combo jacket with snaps across the chest as a bib or along the bottom as an apron



Combo Sleeves 231096

- Indura® cotton/top-grain leather
- 21-inch length



Classic Cloth Sleeves 247148

- 18-inch length
- Fold-in sleeve snaps
- Upper arm elastic band

APPAREL	SMALL	MEDIUM	LARGE	X-LARGE	2X-LARGE	3X-LARGE	4X-LARGE	5X-LARGE
Grain Leather Jacket	—	—	231090	231091	231092	—	—	—
Split Leather Jacket	273212	273213	273214	273215	273216	273217	273218	273219
WeldX Jacket	247114	247115	247116	247117	247118	247119	247120	247121
Combo Jacket	—	231081	231082	231083	231084	—	—	—
Indura Cloth Jacket	—	258097	258098	258099	258100	—	—	—
Classic Cloth Jacket	244749	244750	244751	244752	244754	244755	244756	244758
Women's Cloth Jacket	298543	298544	298545	298546	299574	—	—	—



MobileArc™ Augmented Reality Welding System

An affordable, easy-to-use welding tool designed to attract, engage and introduce students to welding through a hands-on augmented reality experience.



Key features

- Highly portable, lightweight design** allows for easy transport.
- Easy setup and simple user interface** allow students to work independently.
- Real-time feedback** provided on users' technique helps correct errors, reinforces proper welding practices and accelerates skill advancement.
- Minimize material cost** by saving wire, gas and workpieces in this simulation environment.
- Output can be streamed to an external display.**
- Comes complete with** mobile device with case, black Classic helmet with mobile device mount, MIG welding gun with AR nozzle, mobile device gun mount, workpiece (base and top plates), 1.50 and 2.00 magnifying lenses, mobile device charger, and travel bag.

STOCK NO.	BATTERY LIFE	PROCESS	WELDING POSITIONS	MULTI-PASS	NET WEIGHT
907817	Mobile device (internal rechargeable battery): 3 hours of continuous simulation (will run indefinitely when powered through USB charging port)	Welding gun (9-volt battery): 70 hours of continuous use	GMAW	2F, 1G	T-joint, butt joint, lap joint System with travel bag: 7 lb. (3.2 kg) Welding helmet with mobile device: 25 oz. (709 g)

AugmentedArc® Augmented Reality Welding System

A multiprocess welding simulator designed to train and transform welding techniques.



Key features

- Optimize instructor efficiency by using the Teacher software** to create a virtual classroom with customized curriculum, quizzes and weld exercises.
- Real-time feedback** provided on users' technique helps correct errors, reinforces proper welding practices and accelerates skill advancement.
- Reduce overall training time** compared to traditional methods.
- Minimize material cost** by saving wire, gas and workpieces in this simulation environment.
- Build a larger, more-skilled welding workforce** when computer-savvy individuals are drawn to welding education programs.
- Comes complete with** AugmentedArc simulator, Teacher software, OpenBook™ theory content, quizzes, assignments and NCCER exercises, black Infinity™ AR helmet, internal router, MIG gun with AR nozzle, SMAW stinger, TIG torch with AR nozzle, two electrode/filler rods with AR tips, work stand for out-of-position apps, seven workpieces to simulate lap joint, T-joint, butt joint, pipe-to-plate, butt pipe, V-groove with backing and V-groove without backing.
- Visit MillerWelds.com for the following optional components:** TIG foot pedal kit, AugmentedArc controller for multiple system connectivity, and heavy-duty transportation cases.

STOCK NO.	INPUT POWER	VOLTAGE/ AMPERAGE SELECTION	WELDING POSITIONS	POLARITY SELECTION	SHIELDING GAS SELECTION	WIRE SPEED SELECTION	BASE MATERIAL SELECTION	WORKPIECE SELECTION IN. (MM)	STICK ELECTRODE SELECTION	DIAMETER SELECTION IN. (MM)	SIMULATOR DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
951823	115 V, 15 A, 60 Hz 230 V, 10 A, 50 Hz	GMAW: 10–38 V 50–425 A FCAW: 10–38 V 50–425 A SMAW: 50–425 A GTAW: 50–425 A	1F–4F 1G–6G	DCEP DCEN AC	CO ₂ Argon O ₂ Argon CO ₂ Argon	GMAW/FCAW: 50–1,000 ipm (1.27–25.4 m/min.)	Carbon steel Stainless steel Aluminum	1/8, 1/4, 3/8 (3.2, 6.4, 9.5)	E7018 E6010 E6013	Solid wire: .030, .035, .045 (0.8, 1.0, 1.2) Stick electrode: 1/8, 3/32, 5/32 (2.5, 3.25, 4.0) Filler rod: 3/32 (2.4)	H: 21 (533) W: 9.38 (238) D: 17.25 (438)	Simulator: 20.7 (9.4) Helmet: 1.97 (0.9)



LiveArc™ Welding Performance Management System

A live welding training system designed to refine and enhance welding techniques.

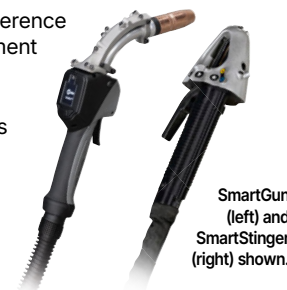


Key features

More efficient and cost-effective training with faster results. Benefit from both weld simulation and the real-world experience of live arc welding with instant, valuable feedback on welding technique to quickly help build skills.

Motion-tracking technology measures the operator's adherence to preset technique parameters. Cameras track the movement of LEDs embedded in the MIG SmartGun and SMAW SmartStinger during pre-weld simulations and live welds. The system then delivers visual feedback on the operator's performance via the LiveArc system's main display.

Comes complete with SmartGun with 15 ft. (4.6 m) cable, SmartStinger with 12 ft. (3.7 m) cable, 15 ft. (4.6 m) Dinse-style cable, router box, calibration tool, two table clamps, C-clamp assembly, removable arm extension for out-of-position right- and left-hand applications, extra Bernard® consumables, and software update for SMAW applications.



SmartGun (left) and SmartStinger (right) shown.

Other Training Resources:
See page 59 for OpenBook™ Online Training and page 114 for Student Safety Packs

STOCK NO.	INPUT POWER	PROCESSES	WELDING POSITIONS	MULTI-PASS	RATED OUTPUT	ELECTRODE DIAMETER IN. (MM)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
907714001	120 V, 60 Hz Compatible with Miller® power sources	GMAW, GMAW-S, GMAW-P, FCAW-G	2F-4F, 1G-4G	Groove and fillet up to 1 in. (25 mm) plate	SmartGun: 400 A at 60% duty cycle (mixed gases)	SmartGun: Up to 5/64 (2.0)	H: 77.5 (1,969) W: 46 (1,168) D: 31 (787)	527 (239)
		SMAW	2F-4F, 1G-4G	Limited groove applications	SmartStinger: 250 A at 60% duty cycle	SmartStinger: Up to 1/8 (3.2)		

ArcCapture™ Weld Camera Systems

Deliver next-level training with our high-definition ArcCapture weld camera systems designed for modern welding programs — project live demos, observe welds remotely, and give welders a front-row seat to every weld.

NEW!



ArcCapture with Wi-Fi weld camera

ArcCapture weld camera

Key features

Multi-device streaming to view and manage live weld footage from a variety of devices — including smartphones, tablets, and computers — for flexible access in any environment.

High-definition capture (1920 x 1080 resolution) provides clear recording of the welding arc for real-time observation.

Portable and easy-to-install with a lightweight, compact design and quick, simple setup.

Wi-Fi connectivity to easily connect to phone or tablet via Wi-Fi or to large screens for group viewing or training.

Flexible field of view with interchangeable 8 mm, 12 mm, or 16 mm lenses to best suit your training environment.

Reduces rework and material waste through better visibility and timely feedback.

No extra lighting required as arc light is the only light source needed to deliver sharp, high-definition video.

Comes complete with ArcCapture weld camera, converter, power supply cords, 12 mm lens, lens cover, 16.4 ft. (5 m) SDI cable, and 3.2 ft. (1 m) USB cable.

Visit MillerWelds.com for the following optional components: travel case camera extension cord, and ArcCapture mounting arm (shown at right).



MODEL	STOCK NO.	RESOLUTION	FOCUS TYPE	SHUTTER TYPE	CAMERA DIMENSIONS H x W x D IN. (MM)	CAMERA NET WEIGHT LB. (KG)
ArcCapture Weld Camera System	907916	1920 x 1080	Fixed	Electronic	1.57 x 1.18 x 4.09 (40 x 30 x 104)	0.34 (0.15)
ArcCapture with Wi-Fi Weld Camera System	907917	(Full HD color)		rolling	2.28 x 2.01 x 3.27 (58 x 51 x 83)	0.6 (0.27)



Count on Miller to design the perfect workbenches to complete welding projects faster and easier. Our workstations are versatile and just the right height to work comfortably.

For more information, visit MillerWelds.com/arcstation

Workstations

ArcStation™ 30FX

When portability or space-savings is a concern, the ArcStation 30FX is your solution.



30FX shown with two 6-inch X-clamps (sold separately).

Key features

Wheels, handle, and fold-up design make unit easy to take to the jobsite or move around the shop.

Compact size makes storing the unit a breeze. Unit folds down to 6 x 29 x 48 inches (152 x 737 x 1219 mm).

30 x 30 inch size tabletop provides plenty of work surface.

3/16-inch X-pattern steel tabletop allows trouble-free clamping.

1.5-inch diameter steel tube frame provides strength and durability.

Includes removable gun holder.

Add the optional 6-inch X-clamp (300613) to make this the ultimate portable workbench.

STOCK NO.	STEEL TOP	LOAD CAPACITY	WORKBENCH DIMENSIONS H x W x D IN. (MM)	WORKBENCH NET WEIGHT LB. (KG)
300837	(1) 29 x 29 x 3/16 in. X-pattern	500 lb. (227 kg)	35 x 29 x 29 (889 x 737 x 737)	74 (34)

ArcStation™ 60SX Fully Loaded

The 60SX Fully Loaded is perfect for the welder who needs a tough workbench for the fab shop or the garage.



60SX Fully Loaded

Key features

30 x 60 inch size tabletop provides double the work surface of the 30FX.

3/8-inch X-pattern steel tabletop allows trouble-free clamping.

Durable 1/8-inch steel frame with cross bar and heavy-duty tabletops provide a sturdy area for welding or metalworking.

Adjustable leveling feet keep workbench rock-steady.

Comes customized with a wide range of handy accessories to make this the ultimate workbench (see at right for what is included and replacement accessories).

ArcStation 60SX Fully Loaded comes with

- ① 6-Inch X-clamp 300613
- ② Dust Tray 300605
- ③ Tool Chest with Ball-Bearing Slides 300610
- ④ Side Shelf 300680
- ⑤ 5-Inch Quick-Remove Vise with Mount 300611
- ⑥ Weld Curtain 300686
- ⑦ Casters 300849



Convenience Kit 300614
Includes the following:

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



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

STOCK NO.	STEEL TOP	LOAD CAPACITY	WORKBENCH DIMENSIONS H x W x D IN. (MM)	WORKBENCH NET WEIGHT LB. (KG)
951793	(1) 29 x 29 x 3/8 in. solid, (1) 29 x 29 x 3/8 in. X-pattern	1,000 lb. (454 kg)	35 x 58 x 29 (889 x 1,473 x 737)	318 (144)

Automated MIG 121

Cable Connectors and Adapters 121/128

Carts, Cylinder Racks and Running Gear 121/122/124

Coolmate Coolant Systems 123

Engine Drive Accessories 124–125

- Big Blue Accessories
- Blue Star and Fusion Accessories
- Bobcat and Trailblazer Accessories
- Protective Covers • Remote Output Panel Kit
- Trailers • Welder/Generator Accessories

MIG Accessories 125

- Machine and Gun Accessory Kits
- Protective Covers

Plasma Cutter Accessories 126

- Cables and Cable Covers • Cutting Guides
- Filters • Plugs and Cords • Protective Case
- Torches

**Process Selector Control/
Polarity Switch 126**

**Remote Controls and Wireless Remote
Controls 126/128/129**

Stick Accessory Kits 127

Submerged Arc Accessories 127

- Cables • Flux Hopper • Torches
- Torch Accessories
- Wire Drive Assembly Accessories

TIG Accessories 128–129

- Connectors (Torches and Weld Cables)
- Expansion Memory Card • Kits
- Protective Case/Covers • Remote Controls

Wire Feeder Accessories 130

- Cables • Power Supply Adapter
- Spool Accessories
- Spool Gun Controls and Kits
- Wire Straightener

Automated MIG

For adapters and drive motors, visit MillerWelds.com.



Coolant Flow Switch 195461

For water-cooled guns. To ensure coolant is flowing in the system.

A lack of coolant flow may cause damage to water-cooled guns. Module allows wiring into the peripheral connector port. 50-foot (15.2 m) cable with connector and separate shell connector for simple modification to desired length in the field. Quarter-turn quick connection.

Cable Connectors and Adapters

Also see Torch and Weld Cable Connectors in TIG Accessories on page 128.

For XMT 400, CST, Syncrowave, Maxstar and Dynasty. These power sources are equipped with Dinse- or Tweco-style connectors for secondary connections.



Dinse-Style Connector Kits 042418

Accepts #4 to #1/0 AWG cable

042533 Accepts #4 to #1/0 AWG cable

Kits include one male Dinse-style plug which attaches to the work and/or weld cables and plugs into the female Dinse-style receptacles on the power source.



Extension Kit for Dinse-Style Cable Connectors 042419

Accepts #4 to #1/0 AWG cable. Used to adapt or extend weld and/or work cables. Kit includes one

male Dinse-style plug and one in-line female Dinse-style receptacle.

Extensions for Dinse-Style Cable Connectors 134460

Male Dinse-style plug

134600 Female Dinse-style receptacle

Used to adapt or extend weld and/or work cables. Accepts #1/0 to #2/0 AWG cable.



Tweco®-Style Connector 191981

Accepts #1/0 to #2/0 AWG

cable. Kit includes one male Tweco-style plug which attaches to the work and/or weld cables and plugs into the female Tweco-style receptacles on the power source.



Dinse/Tweco® Adapter 042465

Dinse/Cam-Lok Adapter 042466

One-piece adapter with male

Dinse-style plug (to power source) on one end and female Tweco- or Cam-Lok-style receptacle (for weld cable connection) on other end.



Tweco®/Dinse Adapter 210061

One-piece adapter with male Tweco-style plug (to power

source) on one end and female Dinse-style receptacle (for weld cable connection) on other end.

Carts, Cylinder Racks and Running Gear

Also see Engine Drive Accessories on page 124.



Feeder Cart 142382

A low-profile creeper cart which allows the operator to easily move the feeder around the work area.



Universal Cart and Cylinder Rack 042934

For XMT 400, CST, Maxstar 210/280 and Dynasty 210/300. Accommodates a single gas cylinder up to

56 inches (1,422 mm) high and measuring 6 to 9 inches (152 to 229 mm) in diameter.

Also provides storage for items such as electrodes, helmets and gloves.



**Running Gear/
Cylinder Rack 301239**

For Millermatic 142/211 PRO and Multimatic 215 PRO. Heavy-duty construction with 8-inch rubber rear wheels, convenient front handles, cable

holders and plastic consumable storage box. For gas cylinders no greater than 7 inches (178 mm) in diameter or 65 pounds (29.5 kg) in weight.



**Dual Cylinder Rack
Cart 951770**

For Millermatic 142/211 PRO, Multimatic 215 PRO/220 AC/DC and Syncrowave 212. Similar to Running Gear/
Cylinder Rack, but with dual-cylinder

rack and a bracket that holds a variety of tools. **Dual Cylinder Rack Conversion Kit and Tool Holder (301454)** is also available separately for use with Running Gear/Cylinder Rack 301239 above.



**Dual EZ-Change™
Low Cylinder Rack
with Elevated Gun
and Cable Rack 300337**

For Millermatic 252. Allows operators to easily roll cylinders on and off the rack with no lifting and keeps cables off the floor and tangle free. **Elevated Gun**

and Cable Rack (300335) is also available separately for use with factory-installed single-cylinder rack.

Carts, Cylinder Racks and Running Gear (continued)



EZ-Latch™ Single Cylinder Running Gear 301449
For Millermatic 255/355 and Multimatic 235/255. Running gear with a single-cylinder rack and storage compartment. Machine is secured to cart by latches that rotate to disengage machine for easy portability.



EZ-Latch™ Dual Cylinder Rack Running Gear 951769
For Millermatic 255/355 and Multimatic 235/255. Similar to EZ-Latch Single Cylinder Running Gear, but with a dual-cylinder rack and elevated gun/cable rack to keep cables off the floor and tangle free.

keep cables off the floor and tangle free.



EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack 301481
For Millermatic 255/355 and Multimatic 235/255. Converts an EZ-Latch Single Cylinder Running Gear into an EZ-Latch Dual

Cylinder Rack Running Gear, including the elevated gun/cable rack to keep cables off the floor and tangle free.



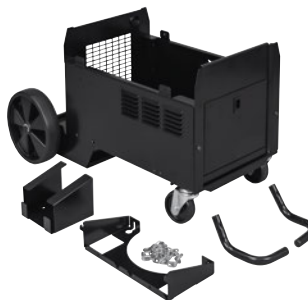
MIGRunner™ Cart 195445
For AlumaFeed system and XMT 400 with single-wire feeders. Small footprint and easily maneuverable, with a dual-cylinder rack low enough that you do not have to lift bottles. Durable, heavy-duty ergonomic handles are designed for comfort.



Running Gear Cylinder Rack 300408
For XMT with single- or dual-wire feeders. Holds two large gas cylinders and has gun cable hangers and a consumable storage drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single- or dual-wire feeders can be mounted to cart and secured.



Industrial Cart 301758
For Deltaweld 350/500. Robust cart features small footprint, stowaway dual-cylinder rack and lockable front casters with oversized rear wheels. Industrial cooler (sold separately) integrates into bottom portion of cart.



Syncrowave 300/400 4-Wheel Cart 301601
For Syncrowave 300/400 (machine only). Cart includes storage space with latching door, handles, cylinder rack with chain, foot control holster, and cooler adapter kit. Allows for the addition of a Coolmate 3 externally-powered cooler if desired.



2-Wheel Trolley Cart 300971
For Maxstar 210/280 and Dynasty 210/300 with or without Coolmate 1.3. Easy-to-maneuver two-wheel cart features single-cylinder rack, chain for cylinder, straps (quick and easy to detach and carry machine), cable holders, torch holder, storage area, and filler rod storage area.



Small Runner™ Cart 301615
For Maxstar 210/280 and Dynasty 210/300 with or without Coolmate 1.3. Cart features single-cylinder rack, foot pedal holder, two cable/torch holders and two TIG filler holders.



Runner™ Cart 300244
For Maxstar 400 and Dynasty 400/800 with or without Coolmate 3.5. Cart features single-cylinder rack, foot pedal holder, three cable/torch holders and two TIG filler holders.



OptX Cart 301792
For OptX 1kW/2kW. Provides a sturdy foundation for your OptX handheld laser welding power source, OptX wire feeder and two gas bottles. Plenty of storage for accessories, consumables and PPE, with rugged wheels providing the ability to move the system around.

Coolmate™ Coolant Systems



Key features

Closed-loop design with radiator reduces coolant temperatures and prevents the system from overheating. Closed-loop design also recirculates the coolant through a fan-cooled heat exchanger.

Rustproof coolant reservoir molded of polyethylene for durability and corrosion resistance.

Standard inlet/outlet torch fittings are compatible with TIG and MIG torches having standard 5/8-inch 18 left-hand fittings.

10-foot (3 m) power cords are longer than most power cords in the industry — providing the extra length when required.

Compatible with Miller® coolants. Ideal for warm and cold weather conditions, while providing HF or corrosion protection.

Coolmate 1S

Designed to integrate with Syncrowave 212 (also accepts Multimatic 220 AC/DC — no cooler power). 1.0-gallon cooler designed for water-cooled torches rated up to 250 amps.*

Coolmate 1.3

Designed to integrate with Maxstar 210/280 and Dynasty 210/300. Light industrial, 1.3-gallon cooler designed for water-cooled torches rated up to 280 amps.*

Coolmate 3

Economical, 3-gallon cooler designed for water-cooled torches rated up to 500 amps.*

Coolmate 3.5

Designed to integrate with Maxstar 400 and Dynasty 400/800. Industrial, 3.5-gallon cooler designed for water-cooled torches rated up to 600 amps.*

Coolmate 4

Best performer in its class — industrial, 4-gallon cooler designed for water-cooled torches rated up to 600 amps.*

**May vary with torch design and cable length. Miller® coolant systems are backed by the best warranty in the industry — one full year.*



Coolant

Must be ordered in quantities of four. One-gallon recyclable plastic bottle. Miller® coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37 degrees Fahrenheit (-38°C) or boiling to 227 degrees Fahrenheit (108°C).

- **Low-Conductivity Coolant** (clear, pre-mixed) 043810
For TIG and MIG applications. NOT for use in push-pull systems or systems where aluminum is in coolant path/circuit.
- **Aluminum-Protecting Coolant** (green, pre-mixed) 043809
Primarily used in push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.

Accessories

¹Maximum cooling capacity is based on a 77° Fahrenheit (25°C) environment at maximum flow with a 117° Fahrenheit (65°C) coolant temperature rise.

²Rated IEC standard cooling capacity is based on a 77° Fahrenheit (25°C) environment at a flow of one liter per minute with a 72° Fahrenheit (40°C) coolant temperature rise.

MODEL/STOCK NO.	MOTOR INPUT VOLTAGE	MAXIMUM CURRENT DRAW		MAXIMUM COOLING CAPACITY ¹	RATED COOLING CAPACITY ²	TANK CAPACITY GAL. (L)	DIMENSIONS IN. (MM)	NET WEIGHT WITHOUT COOLANT LB. (KG)
		50 HZ	60 HZ					
Coolmate 1S 301856	120 V, 1-phase, 50/60 Hz	0.7 A	0.7 A	2,100 W (7,100 Btu/hr.) 3.4 qt./min. (3.2 L/min.)	1,140 W (3,890 Btu/hr.) 1.1 qt./min. (1 L/min.)	1.0 (3.8)	H: 7.81 (198) W: 11.28 (289) D: 24 in. (610)	25 (11)
	240 V, 1-phase, 50/60 Hz	0.4 A	0.4 A					
Coolmate 1.3 301616	115 V, 1-phase, 50/60 Hz	5.9 A	4.7 A	3,400 W (11,600 Btu/hr.) 3.8 qt./min. (3.6 L/min.)	1,330 W (4,540 Btu/hr.) 1.1 qt./min. (1 L/min.)	1.3 (4.9)	H: 11.38 (289) W: 10.38 (264) D: 24.25 (616)	46 (21)
Coolmate 3 043007 120 V 043008 240 V	115 V, 1-phase, 50/60 Hz	5.9 A	4.7 A	3,820 W (13,000 Btu/hr.) 4.2 qt./min. (4.0 L/min.)	1,420 W (4,840 Btu/hr.) 1.1 qt./min. (1 L/min.)	3 (11.4)	H: 13.25 (337) W: 12.25 (311) D: 23.25 (584)	40 (18)
	230 V, 1-phase, 50/60 Hz	2.5 A	3.0 A					
Coolmate 3.5 301788	115 V, 1-phase, 50/60 Hz	5.9 A	4.7 A	3,770 W (12,900 Btu/hr.) 5.5 qt./min. (5.2 L/min.)	1,460 W (4,980 Btu/hr.) 1.1 qt./min. (1 L/min.)	3.5 (13.2)	H: 11.63 (295) W: 15.63 (397) D: 27 (686)	64 (29)
Coolmate 4 042288	115 V, 1-phase, 50/60 Hz	5.9 A	4.7 A	5,500 W (18,000 Btu/hr.) 5.9 qt./min. (5.6 L/min.)	1,780 W (6,070 Btu/hr.) 1.1 qt./min. (1 L/min.)	4 (15)	H: 16.25 (413) W: 15.25 (387) D: 18.75 (476)	38 (17)

Engine Drive Accessories

Also see Trailers on page 125.

Big Blue Accessories



Vandalism Lockout Kit 399802 Field
For Big Blue 500 Pro/600 Series. Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.

Blue Star and Fusion Accessories



Lifting Eye 195353
For Fusion and Blue Star.



Running Gear 301246
For Fusion and Blue Star. Compact and balanced, lightweight wheelbarrow-style

running gear provides easy on-site mobility.

Bobcat and Trailblazer Accessories



Multi-Terrain Running Gear with Never Flat™ Tires 301708 For gas/LP Bobcat and gas Trailblazer (except Air Pak models).
301717 For Trailblazer 330 Diesel. Includes two heavy-duty 15-inch tires, two 8-inch rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications and is easy to move around the jobsite.



Off-Road Running Gear with Never Flat™ Tires 301706
For gas/LP Bobcat and gas Trailblazer (except Air Pak models). Includes four heavy-duty 15-inch tires and a rugged handle to provide maximum maneuverability.



Off-Road Running Gear with Protective Cage and Never Flat™ Tires 301707
For gas/LP Bobcat and gas Trailblazer (except Air Pak models). Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.



Protective Cage with Cable Holders 301709 For gas/LP Bobcat and gas Trailblazer (except Air Pak models).
301718 For Trailblazer 330 Diesel. Rugged cage with cable holders protects your investment. Works with Running Gear, Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.



Gas Cylinder Mounting Assembly 301711
For gas Bobcat and Trailblazer (except Air Pak models). Designed for use with Running Gear, Protective Cage, or by itself. Includes base tray with bottle bracket, vertical support rack and safety chain.

Note: Not for use with LP Tank Mounting Assembly. Not recommended for use with Protective Cover.



Hose and LP Tank Mounting Assembly 301710
For LP Bobcat. Designed for use with Running Gear, Protective Cage, or by itself. Includes bracket and clamp to mount 33- and 43-pound tanks horizontally, and hose with fittings to converter.

Note: Not for use with Gas Cylinder Mounting Assembly. Not recommended for use with Protective Cover.

Protective Covers



301712



195301

Protective Covers

Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of the welder.

- 301245** For Fusion and Blue Star.
- 301712** For gas Bobcat and Trailblazer (except Air Pak models) **without** Protective Cage or Running Gear.
- 301713** For gas Bobcat and Trailblazer (except Air Pak models) **with** Protective Cage or Running Gear.
- 301731** For diesel Trailblazer 330 **without** Protective Cage or Running Gear.
- 301729** For diesel Trailblazer 330 **with** Protective Cage or Running Gear.
- 301475** For gas Bobcat 200 Air Pak **without** Running Gear.
- 301531** For diesel Bobcat 200 Air Pak **without** Running Gear.
- 301730** For Bobcat 265 Air Pak and Trailblazer 330 Air Pak.
- 195301** For Big Blue 400 Pro/400 PipePro/450 Duo CST.
- 301495** For Big Blue 500 Pro/600 Pro with Kubota.
- 301113** For Big Blue 600 Air Pak/800 Series with Deutz.

Remote Output Panel Kit



Remote Output Panel Kit 951850
For Big Blue (except 450 Duo CST) models. Kit allows you to locate your engine-driven welder's output panels at the point of use.

Welder/Generator Accessories



Female Receptacle

Twist Lock Adapter Cord 301489

For Fusion. L14-30R to NEMA 6-50R. Adapts engine drive 120/240-volt twist lock plug to common Millermatic and Spectrum 240-volt plug.



Female Receptacle

Full KVA Adapter Cord 300517
For Bobcat, Trailblazer and Big Blue models. NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.



Full KVA Plug Kit 19172 1-phase, 120/240 V, 50 A plug (NEMA 14-50P). For Bobcat, Trailblazer and Big Blue models.
165963 3-phase, 480 V, 30 A plug (NEMA L16-30P). For Bobcat 230 3 Phase.
254140 3-phase, 240 V, 50 A plug (NEMA 15-50P). For Big Blue 500 Pro/600 Series/800 Series.

Trailers



HWY-Mid Frame Trailer
For Bobcat, Trailblazer and Big Blue 400 Pro/400 PipePro/450 Duo CST. A 1,424-pound (646 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye.



HWY-225 Trailer
For Big Blue models. A 2,700-pound (1,225 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye.

Note: Trailers are shipped unassembled. *Width at outside of fenders.

MODEL/STOCK NO.	GROSS AXLE WEIGHT RATING LB. (KG)	GROSS VEHICLE WEIGHT RATING LB. (KG)	NET PAYLOAD LB. (KG)	HEIGHT OF BED IN. (MM)	ROAD CLEARANCE IN. (MM)	TRACK (CENTER TO CENTER OF TIRES) IN. (MM)	STANDARD TIRES (STANDARD RATING OR P-SIZE RATING)	DIMENSIONS IN. (MM)	NET WEIGHT LB. (KG)
HWY-Mid Frame 301438	1,605 (728)	1,424 (646)	1,424 (646)	19.5 (495)	8 (203)	46 (1,168)	ST175/80D-13 Load Range C	L: 101 (2,565) W: 55 (1,397)*	181 (82)
HWY-225 301338	3,500 (1,588)	2,999 (1,360)	2,700 (1,225)	19 (483)	7.5 (191)	50 (1,270)	ST175/80R-13 Load Range D	L: 105.5 (2,680) W: 56.5 (1,435)*	280 (127)

Most popular accessories

- **Fender Kit 301439**
For HWY-Mid Frame and HWY-225. Replacement fenders.

- **Cable Tree 043826**
For HWY-Mid Frame and HWY-225. Provides an area to conveniently wrap weld cables and extension cords.

- **Dual Hitch 301441**
For HWY-Mid Frame and HWY-225. Combination 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye in one reversible assembly.

- **2-In-1 Document/Fire Extinguisher Holder 301236**
For HWY-Mid Frame and HWY-225. Stores documents and holds a 5-pound fire extinguisher.

Note: Holder shown mounted on trailer. Fire extinguisher not included.



Accessories

MIG Accessories

Machine and Gun Accessory Kits



MIG kit with Dinse-style connectors for single-wire feeders shown.

- Industrial MIG 4/0 Kit (with lugs) 300390** For single-wire feeders.
300957 For dual-wire feeders.
 Consists of flowmeter regulator with 10-foot (3 m) gas hose, 10-foot (3 m) 4/0 feeder weld cable with lugs, and 15-foot (4.6 m) work cable with 600-amp C-clamp. Dual kit comes with two flowmeter regulators and gas hoses.
- Industrial MIG 4/0 Kit (with Dinse-style connectors) 300405** For single-wire feeders.
300956 For dual-wire feeders.
 Same as above except weld and work cables have Dinse-style connector on one end instead of lug.

MIGmatic™ M-Series Gun Consumable Kits

- 234607** .023 in. (0.6 m) wire
234608 .030 in. (0.8 m) wire
234609 .035 in. (0.9 m) wire
 For M-100/M-150 guns. Kits include ten contact tips, one tip adapter, one standard nozzle and a consumable storage box.

Protective Covers



301737
For Millermatic 142/211 PRO and Multimatic 215 PRO. Features side pocket.



301524
For Multimatic 220 AC/DC.



195142
For Millermatic 252. Features side pocket.



301521
For Millermatic 255 and Multimatic 235/255. Features side pocket.

Plasma Cutter Accessories

Cables and Cable Covers

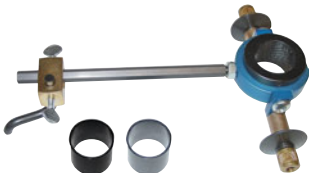


Flexible Work Cable
234838 20 ft. (6.1 m)
234930 50 ft. (15.2 m)
 Work cable with quick connect and heavy-duty clamp.

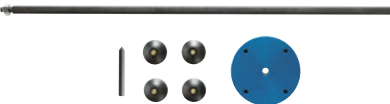


Cable Covers
239642 20 ft. (6.1 m)
231867 25 ft. (7.6 m)
231868 50 ft. (15.2 m)

Cutting Guides



Plasma Circle-Cutting Guides **253055**
 For XT30/XT40/XT60 torches. Cut straight lines or circles up to 12 inches in diameter.



Suction/Magnetic Pivot Base **195979**
 Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 30 inches in diameter.



Plasma Standoff Roller Guide **253054**
 Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

Filters



In-Line Air Filter Kit **228926**
 Mounts to back of the plasma cutter. Includes male and female 1/4-inch NPT quick-disconnect fittings and hose for easy on/off connection. The **replaceable filter element (228928)** filters to .85 micron for removal of 99.9 percent of water, dirt and oil.



RTI Filter and Bracket **300491**
 For Spectrum 875/875 Auto-Line. Can be mounted on plasma cutter or on wall. Install as close as possible to point of air consumption. The **replaceable filter element (212771)** filters as small as one micron for removal of 99.9 percent of water, dirt and oil.

Plugs and Cords

MVP™ Plugs



219258
 For 6-50P power cable (230/240 V, 50 A).
219261
 For 5-15P power cable (115/120 V, 15 A).
219259
 For 5-20P power cable (115/120 V, 20 A).

For Spectrum 375 X-TREME, Millermatic 211 PRO, Multimatic 215 PRO/220 AC/DC and Fusion. Allows connection of machine to 115/120-volt or 230/240-volt receptacles without tools — just choose the plug that fits the receptacle.

MVP™ Adapters

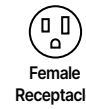


Female Receptacle



254328
 For connection to 6-50P receptacle (240 V, 50 A).
254330
 For connection to 5-15P receptacle (120 V, 15 A).
254331
 For connection to 5-20P receptacle (120 V, 20 A).

For Spectrum 625 X-TREME. Allows connection of machine to 120- or 240-volt receptacles without tools — just choose the adapter cord that fits the receptacle.



Female Receptacle

Full KVA Adapter Cord **300517**
 NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240-volt plug to common Millermatic and Spectrum 240-volt plug.

230-Volt Extension Cord **770644**
 20-foot (6.1 m) NEMA 6-50P to NEMA 6-50R heavy-duty extension cord. 8-gauge cord has lighted ends that show power is on and a molded integrated strain relief.

Protective Case



X-CASE **300184**
 For Spectrum 375 X-TREME/625 X-TREME.

Torches

See your Miller distributor for complete information on the following XT plasma torches and their consumables:



Spectrum Plasma Cutter Hand-Held Torches

For Spectrum 375 X-TREME
249949 12 ft. (3.7 m) XT30

For Spectrum 625 X-TREME
260633 12 ft. (3.7 m) XT40
260635 20 ft. (6.1 m) XT40

For Spectrum 875 and 875 Auto-Line
249953 20 ft. (6.1 m) XT60
249954 50 ft. (15.2 m) XT60



Each consumable kit includes a storage box.

Plasma Torch Consumable Kits

253520 For XT30 torch. Includes five electrodes, five tips, one swirl ring, one retaining cup, one o-ring and silicone grease.

253521 For XT40 torch. Includes five electrodes, five 40-amp tips, three 30-amp tips, one 40-amp drag shield, two 30-amp drag shields, one deflector, one o-ring, one swirl ring, one retaining cup, one 40-amp gouge tip, one gouge shield and silicone grease.

256033 For XT60 torch. Includes three standard electrodes, three standard tips, one drag shield, one deflector, one o-ring, one swirl ring, one retaining cup, one gouge tip, one gouge shield and silicone grease.

127493 Empty consumable storage box.

Process Selector Control/Polarity Switch



Process Selector Control **042872**
 For CC, CV or CC/CV welding power source. Provides an easy way to change

the welding process. Also for use with dual wire feeders or any application where electrical isolation and/or polarity reversing of weld current is required. Both functions can be used at the same time.

Remote Controls

Also see Remote Controls in TIG Accessories on pages 128 and 129.



PRHC-14 Hand Control **195511**
 For all solid-state power sources after serial number JK674521. Complete current or voltage control brings 120 volts of GFCI power to work area in a single cord. Housed in a durable and light aluminum case and includes 125-foot (38 m) cord with plugs.

Stick Accessory Kits



No. 2 Stick Cable Sets
195196 15 ft. (4.6 m), 200 A
300836 50 ft. (15 m), 200 A
 Consists of either 15- or 50-foot electrode cable with holder and matching length work cable with clamp. 100% duty cycle.



2/0 Stick Cable Sets
173851 50 ft. (15 m), 350 A
043952 100/50 ft. (30/15 m), 300 A
 Consists of either 50- or 100-foot electrode cable with holder and 50-foot work cable with clamp. 100% duty cycle.



Weld Cables
195457 2/0 cable with electrode holder, 400 A
195458 2/0 cable with work clamp, 400 A
301387 1/0 cable with electrode holder, 250 A
 Consists of a stud/Tweco® adapter and 10-foot (3 m) weld cable with a male Tweco-style plug and either an electrode holder or work clamp.



2/0 Weld Cable Extensions
195456 50 ft. (15 m)
 Extends weld cables (**195457**, **195458** and **301387**).

Submerged Arc Accessories

Cables



SubArc Control Cables
260622030 30 ft. (9.1 m)
260622050 50 ft. (15 m)
260622060 60 ft. (18.3 m)
260622080 80 ft. (24.4 m)
260622100 100 ft. (30.5 m)
260622120 120 ft. (36.6 m)
260622200 200 ft. (61.0 m)
 Cable between SubArc Interface or Motor Control and power source.



Flux Hopper Extension Cables
260623010 10 ft. (3 m)
260623025 25 ft. (7.6 m)
260623065 65 ft. (19.8 m)
 Cable between SubArc Interface or Motor Control and flux hopper.



Motor Extension Cables
254232005 5 ft. (1.5 m)
254232010 10 ft. (3 m)
254232025 25 ft. (7.6 m)
254232065 65 ft. (19.8 m)
 Cable between SubArc Interface or Motor Control and drive motor.



Continuum Motor/Control Cables
263368015 15 ft. (4.6 m)
263368025 25 ft. (7.6 m)
263368050 50 ft. (15 m)
263368080 80 ft. (24.4 m)
263368100 100 ft. (30.5 m)
 Cable between SubArc Motor Control and SubArc Remote Pendant.



SubArc Parallel Cable
260775015
 15 ft. (4.6 m)



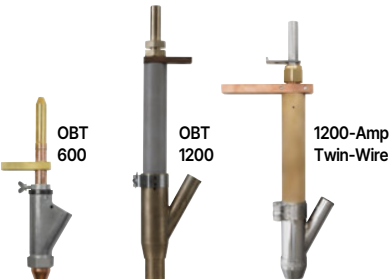
SubArc Tandem Cable
260878015
 15 ft. (4.6 m)

Flux Hopper



SubArc Flux Hopper Digital Low Voltage 300942
 25-pound (11 kg) capacity flux hopper utilizes a flux valve mechanism to ensure continuous delivery of flux to the arc. Features sight glass to visually monitor flux level and an opening sized for hookup of any flux-hopper-mounted recovery system. Includes slag screen.

Torches



OBT 600 043923
 600 amps at 100 percent duty cycle. For use with 1/16–5/32 inch (1.6–4.0 mm) wire. 10.25-inch (260.4 mm) torch body length.

OBT 1200 043900
 Features a replaceable breakaway adapter end to prevent costly damage should torch run into an obstruction. 1,200 amps at 100 percent duty cycle. For use with 1/16–5/32 inch (1.6–4.0 mm) wire. 17.25-inch (438.2 mm) torch body length.

1200-Amp Twin-Wire Torch (long) 301144
 1,200 amps at 100 percent duty cycle. For use with 3/64–3/32 inch (1.2–2.4 mm) wire. 16.97-inch (431 mm) torch body length.

Torch Accessories

OBT 600 Torch Body Extensions

- 043967** 1 in. (25.4 mm)
- 043969** 2 in. (50.8 mm)
- 043973** 4 in. (101.6 mm)
- 043975** 6 in. (152.4 mm)

OBT 1200 Torch Body Extension 043981

Overall length with extension is 9 inches (228.6 mm). Actual length of extension is 8.5 inches (215.9 mm).

OBT Torch Contact Tips

OBT 600	OBT 1200	Wire Size
192700	192141	1/16 in. (1.6 mm)
192701	199026	5/64 in. (2.0 mm)
192702	192142	3/32 in. (2.4 mm)
192703	200771	7/64 in. (2.8 mm)
192704	192143	1/8 in. (3.2 mm)
192705	192144	5/32 in. (4.0 mm)

1200-Amp Twin-Wire Torch Contact Tips

- 264595** 3/64 in. (1.2 mm)
- 264596** 1/16 in. (1.6 mm)
- 264597** 5/64 in. (2.0 mm)
- 264588** 3/32 in. (2.4 mm)

Wire Drive Assembly Accessories

Drive Rolls

- 132955** 1/16 in. (1.6 mm)
- 132960** 5/64 in. (2.0 mm)
- 132961** 3/32 in. (2.4 mm)
- 132962** 7/64 in. (2.8 mm)
- 132963** 1/8 in. (3.2 mm)
- 193700** 5/32 in. (4.0 mm)



Single-Wire Straightener 199733
 For OBT 600 and OBT 1200 single-wire torches. For 1/16–5/32 inch (1.6–4.0 mm) wire.

Twin-Wire Straightener 301160
 For 1200-amp twin-wire torch only. Single adjustment.



Manual Single Slide 301137
 Provides smooth and accurate movement of the welding heads. Allows for 7.87 inch (200 mm) travel adjustment with load capacity of 220 pounds (100 kg) at 1.64 feet (500 mm). **Not recommended for tandem.**




Wire Reel 108008
 Supports 60-pound (27 kg) coil of wire. Requires **Spool Support Assembly (119438)**.

TIG Accessories

Connectors (Torches and Weld Cables)

Air-Cooled TIG (GTAW) Torch Connectors

 **273483**^{1,2}
For Multimatic 215 PRO/
220 AC/DC and Maxstar 161.
25 mm (small) Dinse-style gas thru for one-piece
air-cooled torches.

 **194723** A-200 (WP26)
194722² All others
For Syncrowave 212.
50 mm Dinse-style
gas thru for one-piece air-cooled torches.

 **195379** A-200 (WP26)
195378² All others
For Multimatic 235/255,
CST (195378 only),
Syncrowave 300/400,
Maxstar 210/280/400 and
Dynasty 210/300/400.
50 mm Dinse-style for
one-piece air-cooled torches.


¹Except A-200 (WP26) torches.
²A-80 (WP24) torches require 24-5 adapter.

Water-Cooled TIG (GTAW) Torch Connectors

 **50 mm Dinse-Style
Flow Thru 195380**
For Syncrowave 212.
Used with all Weldcraft™
water-cooled torches.
*Note: Requires 11N17
gas coupler for use.*

 **50 mm Dinse-Style
with Water Return Line
195377**
For Syncrowave 300/400,
Maxstar 210/280/400 and
Dynasty 210/300/400.
Used with all Weldcraft™
water-cooled torches.

 **50 mm Thread-
Lock-Style 225028**
For Dynasty 800.
Used with all
Weldcraft™ water-
cooled torches.

 **Thread-Lock-Style Weld
Cable Connectors 225029**
For Dynasty 800. Contains two
male connectors that accept
#1/0 to #4/0 AWG size cable.

Expansion Memory Card

QuietPulse™ Expansion Memory Card 301790
For Maxstar 210/280/280 Multiprocess/
400/800 manufactured prior to serial number
ND040985L. Gain the ability to utilize QuietPulse
where the DC pulsed TIG welding waveshape
is changed to create a slower, more fluid
transition between the background and peak
amperage, resulting in lower audible noise.

Kits

 **A-200 torch with
RCCS-14 kit shown.**

Contractor Kit
301309 A-150 torch w/RFC-14 HD foot pedal
301311 A-150 torch with RCCS-14 fingertip
301549 A-200 torch w/RFC-14 HD foot pedal
301550 A-200 torch with RCCS-14 fingertip
For Maxstar 210/280 and Dynasty 210/300.
All-in-one TIG/stick welding kit includes either
a Weldcraft™ A-150 OR A-200 TIG torch,
RFC-14 HD foot control OR RCCS-14 fingertip
control, 200-amp stick electrode holder and
300-amp work clamp with 15-foot (4.6 m)
cables, flow gauge regulator with 12-foot
(3.7 m) gas hose, gas hose coupler, AK2C
torch accessory kit, and TIG torch connector.

 **Wireless
remote foot
control kit
shown.**

TIG Contractor Kit
301917 With wireless remote foot control
301916 With wired foot control
For Multimatic 215 PRO. Includes 12.5-foot
(3.8 m) Weldcraft™ A-150 TIG torch with flow
thru Dinse-style connector, wireless remote
foot pedal OR RFC-14 HD wired foot pedal,
flow gauge regulator with 12-foot (3.7 m)
gas hose, and AK2C torch accessory kit.

 **Multimatic
235/255 TIG Kit
301518**
Includes
25-foot (7.6 m)
Weldcraft™
A-150 TIG torch
with Dinse-style
connector,
RFC-14 HD foot control, 10-pin to 14-pin
adapter cord, flow gauge regulator with 5-foot
(1.5 m) gas hose, and AK3C torch accessory kit.

 **W-280
torch kit
shown.**

Weldcraft™ Water-Cooled Torch Kits
300185 250 A, W-250 (WP-20)
300990 280 A, W-280 (WP-280)
301268 375 A, W-375
300186 400 A, W-400 (WP-18SC)
For Syncrowave 300/400, Maxstar (except 161
models) and Dynasty. Includes 25-foot (7.6 m)
TIG torch with Dinse-style connector (thread-
lock on 400-amp kit), torch cable cover, work
clamp with 15-foot (4.6 m) cable (12-foot [3.7 m]
cable on 400-amp kit), flowmeter regulator with
gas hose, and AK4GL gas lens accessory kit
(AK18C accessory kit on 400-amp kit).

 **Venture 150 T
TIG Contractor
Kit 301922**
For Venture
150 T. Includes
12.5-foot (3.8 m)
Weldcraft™ A-150 TIG torch with flow thru
Dinse-style connector, RMS-6M hand control,
flow gauge regulator with 12-foot (3.7 m) gas
hose, and AK2C torch accessory kit.

Protective Case/Covers

 **X-CASE 301429**
For Maxstar 161
models.

 **301886 301382**

Protective Covers

301886 For Syncrowave 212.
301381 For Maxstar 210.
301382 For Maxstar 280 and Dynasty 210/300.

Remote Controls

 **14-Pin to 6-Pin Adapter
Cord 300507**
For Maxstar 161 STL/STH.
12-inch (305 mm) cord
adapts Miller® 14-pin foot
control or fingertip control to a 6-pin plug.

 **10-Pin to 14-Pin
Adapter Cord
301545**
For Multimatic
235/255. Allows standard 14-pin TIG remote
controls to be used with the Multimatic 235
and Multimatic 255.



RCC-14 (14-pin plug)
151086 26.5 ft. (8 m) cord with plug

RCC-6M (6-pin plug)
301118 13.25 ft. (4 m) cord with plug
For Maxstar 161 STL/STH.

East/west rotary-motion fingertip current/
contactor control attaches to TIG torch using
two hook-and-loop fasteners. Great for
production or contractors that need quick
ramp-up.



RCCS-14 (14-pin plug)
043688 26.5 ft. (8 m) cord with plug

RCCS-6M (6-pin plug)
195184 13.25 ft. (4 m) cord with plug
195503 26.5 ft. (8 m) cord with plug
For Maxstar 161 STL/STH.

RCCS-RJ45
301146 13.25 ft. (4 m) cord with plug
North/south rotary-motion fingertip current/
contactor control attaches to TIG torch using two
hook-and-loop fasteners. Great for applications
that require a finer amperage control.

Wireless Remote Controls Foot and Hand

Increases productivity, saves money, improves safety and is easy to use.



Wireless 14-pin receiver (included with both systems)

Wireless foot control

Wireless hand control

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.

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 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}

¹With wireless hand control only.

²Only 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.



**Some applications are not suitable for wireless communication. Actual range depends on factors such as obstructions, frequency interference, transmission technology, and weather. The rated ranges are under ideal conditions.*

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.

Wire Feeder Accessories

Cables

8-Conductor Cables

242208025 25 ft. (7.6 m)

242208050 50 ft. (15 m)

242208080 80 ft. (24.4 m)

For 24 VAC SuitCase 12RC and 20 Series feeders and 14-pin remote controls. 14-pin plug to a 14-pin socket. Not for 115-volt XR feeders.

11-Conductor Cables

247831025 25 ft. (7.6 m)

247831050 50 ft. (15 m)

247831080 80 ft. (24.4 m)

For XR-AlumaFeed SuitCase and 74 MPa Plus feeders. Eleven conductors to support contactor control and remote voltage control on all Miller® electronic constant-voltage (CV) 14-pin power sources. Additional functions supported when using the AlumaPower MPa or XMT MPa power sources include synergic pulsed MIG, remote process select and side select capabilities.

14-Conductor Cables

242205025 25 ft. (7.6 m)

242205050 50 ft. (15 m)

For HDC and WC-115 weld controls. Fully-loaded 14-pin extension cables for remote controls, and 24-volt and 115-volt feeders.

ArcConnect™ Control/Motor Cables

280471009 9 ft. (2.7 m)

280471025 25 ft. (7.6 m)

280471050 50 ft. (15 m)

280471075 75 ft. (22.9 m)

280471150 150 ft. (45.7 m)

For Intelx feeders. Connects power source directly to feeder or remote operator interface.

Power Supply Adapter



PSA-2 Control 141604

Required when using SuitCase 12RC, 20 Series or 74 MPa Plus feeders with power sources having only 115-volt power available. Control is equipped with a 14-pin receptacle and a 10-foot (3 m) interconnecting cord

with Hubbell connections for older-style power sources. Can also be used with competitive power sources requiring a contact closure for contactor control.

Spool Accessories



Spool Adapter 047141

For use with 14-pound (6.4 kg) spool of Hobart or Lincoln self-shielding wire.



Spool Covers

295231 For single-wire model and left side of dual-wire model Intelx, 20 Series and 74 MPa feeders.

296171 For right side of dual-wire model Intelx and 74 MPa feeders.

Spool Gun Controls and Kits

For more information on WC-115A and WC-24 see literature M/1.73 or M/1.76.



WC-115A Weld Control

137546 Without contactor

137546011 With contactor

Operates on 115-volt power and designed primarily for constant-current (CC) DC power sources. Can also be used with constant-voltage (CV) power sources or DC engine drives supplying 115 volts. Used with a CC source the control circuit functions in a voltage-sensing mode, and with a CV source it functions as a constant-speed circuit. Includes wire run-in and drive motor acceleration controls which ensure optimum arc starting performance.



WC-24 Weld Control 137549

For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Easily mounts on power source. Designed for use with Miller® constant-voltage (CV) power sources with 14-pin receptacles and supplying 24 VAC.

Spool Gun Extension Hose and Cable Kits

132228 25 ft. (7.6 m)

132229 50 ft. (15 m)

For Spoolmate 200, Spoolmatic and Spoolmatic Pro. Extends leads, etc. between spool gun and power source.

Wire Straightener



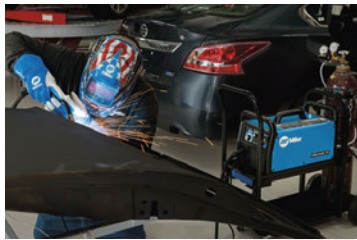
141580 For .035–.045 inch (0.9–1.1 mm) wire

141581 For 1/16–1/8 inch (1.6–3.2 mm) wire

For 20 Series and 74 MPa Plus feeders.

The Welding Intel You Need to Succeed

DIY



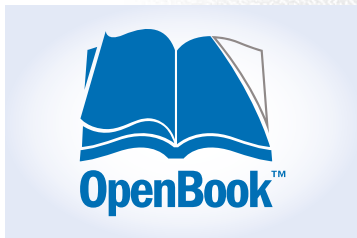
PRO



The Bevel



Instructor



Welding Safety



DIY – Project ideas, how-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.

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Work Truck Today

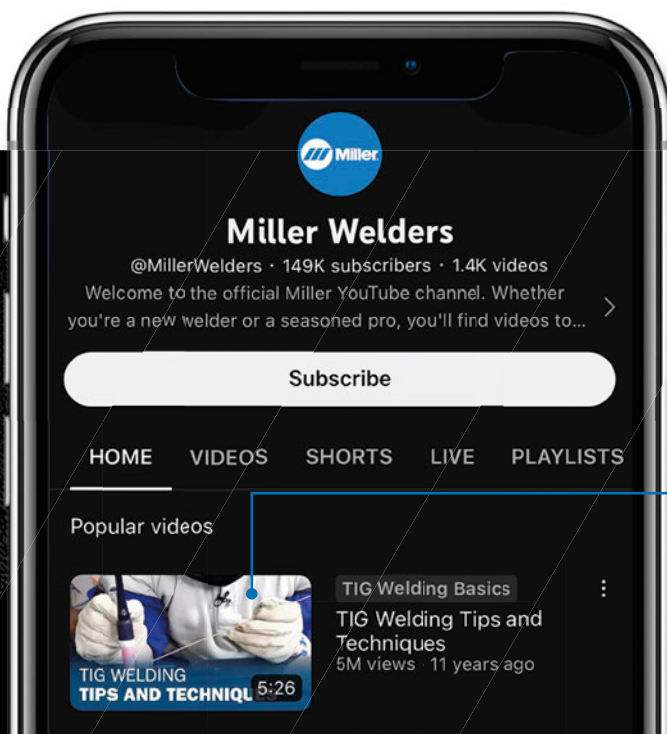


Welding Safety – Regulatory updates, industry news and solutions for occupational health and safety professionals.

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