20 25

CATALOG

ITW Welding

Miller®   HOBART FILLER METALS   BERNARD™   TREGASKISS®

ITW WELDING SOLUTIONS
BUILT BY PEOPLE LIKE YOU, FOR PEOPLE LIKE YOU

Careful planning. Attention to detail. Pride in a job well done. That's how people like you weld. That's how people at ITW Welding work.

ITW Welding offers a full portfolio solution to all welding needs, from welding equipment, PPE and filler metals to guns and torches. This portfolio includes four powerhouse brands: Miller, Hobart, Bernard and Tregaskiss.

ITW Welding designs and manufactures value-added equipment and specialty consumables with leading technology for a variety of industrial applications where weld quality is a critical factor: manufacturing, construction, aviation, agriculture, motorsports and more. Our customers demand quality, reliability and ease of use.

Whether you weld to build a project, a business or a dream, you can depend on ITW Welding products to get the job done right. Because we work the way you work.

Welding Distributors
Knowledge+Advice+Support

When you work with a welding distributor, you're working with a valued partner. You can depend on their in-depth knowledge and assistance to select a perfect solution — and their support throughout your product's long lifetime of service. Visit MillerWelds.com to find a welding distributor near you.

Miller Electric Mfg. LLC
MillerWelds.com
1-800-4-A-Miller
(1-800-426-4553)

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

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

NEW FROM BLUE

32

Auto Deltaweld™ 350 and 500 Basic

48

XMT® 400 ArcReach®

62

Maxstar® 400
Dynasty® 400
Dynasty® 800

73

OptX™ 2kW Laser Welder System

87

Bobcat™ 265 Air Pak™

110

FILTAIR® Purifier

111

Weld Booths

116

Weld-Mask™ with *ClearLight*™

See Index on Page 131 for Additional NEW! or IMPROVED! Products

Also see Automation and Multiprocess sections for machines that can MIG weld.

	Product Guide	Page	Class	MIG	Pulsed MIG	Flux-cored*	CAC-A	Portability	Weldable Metals	Welding Output Range	Special Features	Typical Applications
1-Phase	Millermatic® 142	5	●	●		●		Handles, optional running gear	Steel, stainless, aluminum	30–140 A	All-in-one, 120 V input, advanced Auto-Set™, Smooth-Start™	Up to 3/16 in. using self-shielded wire maintenance/repair, auto body
	Millermatic® 211	5	●	●		●				30–230 A	All-in-one, 120 or 240 V input, Auto-Set™, Smooth-Start™	Up to 3/8 in. maintenance/repair, auto body
	Millermatic® 252	6	●	●		●		Installed running gear	Steel, stainless, aluminum	30–300 A	All-in-one, standard timers menu, Fan-On-Demand™, connects to standard MIG gun or spool gun	Up to 1/2 in. industrial production/fabrication, farm
	Millermatic® 255	7	●	●	●	●		Handles, optional running gear	Steel, stainless, aluminum	20–350 A	All-in-one, Auto-Set™, stores up to four programs, connects to standard MIG gun, push-pull gun or spool gun	Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum
1-& 3-Ph	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 standard MIG gun, push-pull gun or spool gun	Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum
	AlumaFeed® 350 Aluminum System	9	●	●	●			Handles, optional cart, MIGRunner™	Aluminum	5–425 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
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 Intellx™ feeders, Accu-Pulse® MIG welding with Intellx Pro and Elite feeders; optional Insight Core™ and Centerpoint™ Basic	Medium-to-large manufacturing and fabrication
	Deltaweld® 500 System	10	●	●	●	●	3⁄8"			30–650 A 10–44 V	Special arc control feature when paired with Intellx™ feeders, Accu-Pulse® MIG welding with Intellx Pro and Elite feeders; optional Insight Core™ and Centerpoint™ Basic	Medium-to-large manufacturing and fabrication
	Continuum™ 350 System	12	●	●	●	●	1⁄4"	Lift eye, optional running gear, MIGRunner™	Most metals	20–400 A 10–44 V	Advanced arc performance, Insight Core™; optional Insight Centerpoint™	Mid- to high-volume manufacturing
	Continuum™ 500 System	12	●	●	●	●	3⁄8"			20–600 A 10–44 V	Advanced arc performance, Insight Core™; optional Insight Centerpoint™	Mid- to high-volume manufacturing

Product Key   Class: ● Light industrial ● Industrial ● Heavy industrial   Capability: ● Designed for this process ◉ Capable of this process
*If using self-shielded wire on a CC/CV machine, use CV weld output.

Millermatic® 142 and 211
See literature DC/12.41 (142) and DC/12.58 (211)

Millermatic 142

Millermatic 211

Millermatic 142 front panel

Millermatic 211 front panel

Light industrial ● CV DC 1 Phase

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

Comes complete with
- 10 ft. (3 m) 100-amp MDX™-100 MIG gun with AccuLock™ MDX™ consumables
- 10 ft. (3 m) work cable with clamp
- 6.5 ft. (2 m) power cord with plug (Millermatic 142) **OR** 6.5 ft. (2 m) power cord with MVP plugs for 120 V and 240 V (Millermatic 211)
- 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/CO_2 mix, two .030 in. contact tips, Hobart® spool of .030 in. solid wire, 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 122)
- Protective Cover (pg 125)
  301737 For Millermatic 142
  301262 For Millermatic 211
- V-Knurled Drive Roll 202926

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

Mild Steel Welding Capability

		3/8 in. (9.5 mm)
Max.		
Model	3/16 in. (4.8 mm)	
	142	**211**
Min.	24 ga. (0.6 mm)	24 ga. (0.6 mm)

Aluminum Welding Capability

		3/8 in. (9.5 mm)
Max.		
Model	14 ga. (1.9 mm)	
	142	**211**
Min.	18 ga. (1.2 mm)	18 ga. (1.2 mm)

*Aluminum welding with the Millermatic 142 or Millermatic 211 uses optional Spoolmate 100 spool gun with 4043 series aluminum wire **OR** optional Spoolmate 150 spool gun with 4000 or 5000 series aluminum wire.*

Recommended aluminum solution
*Spoolmate 100 **OR** Spoolmate 150 (page 26).*

Auto-Set™ automatically provides the right settings to weld mild steel while **infinite voltage control** allows the flexibility to manually set your own parameters.
- Set the wire diameter
- Set the thickness of material you are welding
- Start welding with the exact parameters you need!

Inverter technology combines best-in-class arc characteristics with the portability of a 33-pound (142) or 38-pound (211) machine. The arc is extremely forgiving to variations in arc length and travel speeds.

Angled cast-aluminum drive system with calibrated tension knob creates consistent feeding and easy setup.

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

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

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

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

Thermal overload protection shuts down unit if airflow is blocked or duty cycle is exceeded. Automatically resets when unit cools.

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

Millermatic 211 model additional features

Advanced Auto-Set™ includes five different wire/gas combinations.

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.

Model/Stock Number	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Wire Type and Diameter Capacity		Power Source Dimensions	Power Source Net Weight
				120 V	240 V	KVA	KW					
Millermatic 142 **907838** 951000072 With running gear/ cylinder rack	120 V	30–140	100 A at 19 VDC, 60% duty cycle	19.3	—	2.32	2.32	60–600 ipm (1.5–15.2 m/min.)	**Solid steel** .023–.030 in. (0.6–0.8 mm) **Stainless** .023–.030 in. (0.6–0.8 mm) **Flux-cored** .030–.035 in. (0.8–0.9 mm)		H: 14.625 in. (372 mm) W: 9.75 in. (248 mm) D: 20 in. (508 mm)	33 lb. (15.4 kg)
			80 A at 18 VDC, 100% duty cycle	14.8	—	1.78	1.78					
Millermatic 211 **907614** 951603 With running gear/ cylinder rack	120 V	30–130	115 A at 19.8 VDC, 20% duty cycle	24.3	—	2.9	2.9	60–600 ipm (1.5–15.2 m/min.)	**Solid steel** .023–.035 in. (0.6–0.9 mm) **Stainless** .023–.035 in. (0.6–0.9 mm) **Flux-cored** .030–.045 in. (0.8–1.2 mm)		H: 12.5 in. (318 mm) W: 11.25 in. (286 mm) D: 20.5 in. (521 mm)	38 lb. (17.2 kg)
	240 V	30–230	150 A at 21.5 VDC, 40% duty cycle	—	16.6	4.0	4.0					

Millermatic® 252
See literature DC/12.49

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 spool gun.

Recommended aluminum solution
Spoolmatic (page 27).

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

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

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

Superior aluminum MIG welding with direct connection of optional Spoolmate™ 200 and Spoolmatic® spool guns. No extra module to buy or install.

Heavy-duty aluminum two-drive-roll system.

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

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

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

Comes complete with
- 15 ft. (4.5 m), 250-amp MDX™-250 MIG gun with AccuLock™ 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 gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO_2 mix
- Factory-installed lowered running gear/cylinder rack with chain to secure gas cylinder
- .030/.035 in. reversible dual-groove drive rolls
- Extra contact tips

Most popular accessories
- Spoolmate™ 200 Spool Gun (pg 26)
- Spoolmatic® Spool Gun (pg 27) (non-Pro gun only)
- Dual EZ-Change™ Low Cylinder Rack 300337 (pg 122)
- Elevated Gun and Cable Rack 300335 (pg 122)
- Protective Cover 195142 (pg 125)
- 230-Volt Extension Cord 770644

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

Stock Number	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz 208 V	230 V	240 V	460 V	575 V	KVA	KW	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
907321 208/240 V **951960*** 208/240 V	30–300	200 A at 24 VDC, 60% duty cycle	57.0	—	50.8	—	—	11.4	7.1	50–700 ipm (1.3–17.8 m/min.)	**Solid steel** .023–.045 in. (0.6–1.2 mm) **Stainless** .023–.045 in. (0.6–1.2 mm) **Flux-cored** .030–.045 in. (0.8–1.2 mm)	H: 30 in. (762 mm) W: 19 in. (483 mm) D: 40 in. (1,016 mm)	205 lb. (93 kg)
		250 A at 26.5 VDC, 40% duty cycle	64.2	—	56.4	—	—	12.6	9.4				
907322 230/460/575 V **951961*** 230/460/575 V		200 A at 24 VDC, 60% duty cycle	—	46	—	23	18	9.8	7.5				
		250 A at 26.5 VDC, 40% duty cycle	—	2**	—	1**	0.8**	0.46**	0.13**				

Millermatic® 255 See literature DC/12.8

Industrial ● CV DC ⚡ 1 Phase

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

Comes complete with
- 15 ft. (4.5 m) 250-amp MDX™-250 MIG gun with AccuLock™ S consumables
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO_2 mix
- .035/.045 in. reversible V-groove drive rolls
- 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 Rack with Elevated Gun and Cable Rack 301481 (pg 122)
  Converts an EZ-Latch™ Single Cylinder Running Gear into a Dual Cylinder Rack Running Gear as seen below

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

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

Welding Capability

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

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

Recommended aluminum solution
XR-Aluma-Pro push-pull gun (page 28).

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

Easy-to-understand interface with 7-inch color LCD display ensures proper machine setup and parameter selection, reducing setup time and increasing weld time.
- Quick-access Auto-Set and pulse mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick, easy and intuitive
- Large text for easier readability
- Intuitive connection setup images
- Full troubleshooting descriptions versus help errors and look up codes

AUTO-LINE TECHNOLOGY Allows for any input voltage hookup (208–240 V, single-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

Auto-Set™ Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.
- Available for MIG and pulsed MIG processes with the ability to fine-tune your settings
- Set weld parameters by selecting wire and gas type, wire diameter and material thickness

Program mode allows easy save and recall of favorite weld settings. Delivers greater productivity and consistent quality while minimizing supervisor intervention.

EXCLUSIVE! 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.

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

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

Stock Number 907734	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Wire Type and Diameter Capacity		Power Source Dimensions*	Power Source Net Weight*
			208 V	240 V	KVA	KW					
951766 With EZ-Latch single cylinder running gear	20–350	230 A at 25.5 VDC, 60% duty cycle	44.0	39.5	9.5	7.2	50–800 ipm (1.3–20 m/min.)	**Solid steel**	.023–.045 in. (0.6–1.2 mm)	H: 19.25 in. (489 mm)	84 lb. (38 kg)
								Stainless	.023–.045 in. (0.6–1.2 mm)	W: 13.75 in. (349 mm)	
								Aluminum	.035–.047 in. (0.9–1.2 mm)	D: 24.25 in. (616 mm)	
								Flux-cored	.030–.045 in. (0.8–1.2 mm)		
								Silicon bronze	.030–.035 in. (0.8–0.9 mm)		

Millermatic® 355 See literature DC/12.95

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

Comes complete with
- 15 ft. (4.5 m) 300-amp Bernard® BTB MIG gun with AccuLock™ S consumables and .035/.045 in. reversible V-groove drive rolls **OR** 25 ft. (7.6 m) XR-Aluma-Pro™ air-cooled push-pull MIG gun with Miller® FasTip™ consumables and .035/.047 in. reversible U-groove drive rolls for aluminum wire
- 10 ft. (3 m) work cable with clamp
- 9 ft. (2.7 m) industrial power cord
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO_2 mix
- Extra contact tips and material thickness gauge (229895)

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-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 Rack with Elevated Gun and Cable Rack 301481 (pg 122)
  Converts an EZ-Latch™ Single Cylinder Running Gear into a Dual Cylinder Rack Running Gear as seen below

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

- **Demo Cable Kit** 289696

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

Welding Capability

Max. 1/2 in. (13 mm)	Max. 1/2 in. (13 mm)	
Mild Steel	**Aluminum**	*Aluminum welding uses optional XR-Aluma-Pro push-pull gun.*
Min. 22 ga. (0.8 mm)	Min. 18 ga. (1.2 mm)	

Recommended aluminum solution
XR-Aluma-Pro push-pull gun (page 28).

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

Easy-to-understand interface with 7-inch color LCD display ensures proper machine setup and parameter selection, reducing setup time and increasing weld time.
- Quick-access Auto-Set and pulse mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick, easy and intuitive
- Large text for easier readability
- Intuitive connection setup images
- Full troubleshooting descriptions versus help errors and look up codes

Single- or three-phase input power provides versatility to utilize any North American power (208, 240, 460, 575 V).

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

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

Auto-Set™ Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.
- Available for MIG and pulsed MIG processes with the ability to fine-tune your settings
- Set weld parameters by selecting wire and gas type, wire diameter and material thickness

Program mode allows easy save and recall of favorite weld settings. Delivers greater productivity and consistent quality while minimizing supervisor intervention.

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.

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

Heavy-duty aluminum four-drive-roll system.

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

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

Optional demo cable kit (sold separately) powers the display through USB to train users in a quiet conference room or showroom versus connecting to shop power in a noisy work environment.

*See literature DC/12.95 for dimensions and weight with running gear.

Stock Number 907808 w/BTB MIG gun 951926 w/BTB MIG gun and EZ-Latch single cylinder running gear 951927 w/XR-Aluma-Pro gun and EZ-Latch single cylinder running gear	Input Power	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		Power Source Dimensions*	Power Source Net Weight*
				208 V	240 V	460 V	575 V	KVA	KW						
	3-phase	20–400 A 12–34 V	310 A at 29.5 VDC, 60% duty cycle	32.3	28.8	18.2	15.4	15.3	11.5	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 in. (489 mm) W: 13.75 in. (349 mm) D: 26.25 in. (667 mm)	99 lb. (45 kg)
	1-phase, 460 or 575 V	20–400 A 12–34 V		—	—	35.6	32.3	15.0	11.1						
	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

See literature DC/34.0

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

AUTO-LINE TECHNOLOGY AlumaPower™ 350 model allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power. *450 model is 230/460 V manual link or 575 V, three-phase only.*

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.

AlumaPower™ 350 MPa and XR-AlumaFeed® SuitCase® with XR-Aluma-Pro gun air-cooled package shown.

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

Most popular accessories
- XR™ Push-Pull Guns (pg 28)
- MIGRunner™ Cart 195445 (pg 123)
- Coolmate™ 3 043007 (pg 123)
- Coolant 043810 (pg 123)
- Industrial MIG 4/0 Kits (pg 125)
  300405 With Dinse connectors (350 MPa only)
  300390 With lug connectors (450 MPa only)
  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 195591
- 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.

Models/Packages

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

Power Source Only Stock Number	Package Stock Number*	XR-AlumaFeed SuitCase Feeder	XR-Aluma-Pro™ Push-Pull MIG Gun	XR™-Pistol-Pro Push-Pull MIG Gun	Industrial MIG 4/0 Kit	Coolmate™ with Coolant	Cart
AlumaPower 350 MPa **907420** 208–575 V **907420001** 208–575 V w/auxiliary power	**951834** w/350 model (907420)	**301567**	25 ft. air-cooled	—	—	—	—
	951836 w/350 model (907420)	**301567**	—	25 ft. air-cooled	—	—	—
	951833 w/350 model (907420)	**301567**	25 ft. air-cooled	—	With Dinse connectors	—	MIGRunner cart
AlumaPower 450 MPa **907483** 230/460 V w/auxiliary power **907484** 575 V w/auxiliary power	**951840** w/450 model (907483)	**301567**	25 ft. air-cooled	—	With lug connectors	—	MIGRunner cart
	951839 w/450 model (907483)	**301567**	25 ft. water-cooled	—	With lug connectors	Coolmate 3	MIGRunner cart

Note: All packages listed include 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 not included — order separately above.

Model	Input Power	Amp/Volt Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz					KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
				208 V	230 V	400 V	460 V	575 V					
AlumaPower 350 MPa	3-phase	5–425 A 10–38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
	1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
AlumaPower 450 MPa	3-phase	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 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)

XR-AlumaFeed SuitCase Feeder 14-pin compliant, but only operates synergically w/MPa power sources	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
	24 VAC, 5 A, 50/60 Hz	400 A at 100% duty cycle System duty cycle is limited to gun rating	50–900 ipm (1.3–23 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 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	31 lb. (14.1 kg)

Deltaweld® Systems
See literature DC/16.5 (Deltaweld 350) and DC/16.7 (Deltaweld 500)

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

Deltaweld 500 MIGRunner with single-wire Intellx Elite feeder shown with NEW! industrial water cooler (sold separately).

Reduce the time and hassle of setting up welding systems. Make your move to a weld-ready Deltaweld MIGRunner™.

Old Deltaweld® System

3 HOURS

Time spent assembling old Deltaweld package

VS

New Deltaweld® System

14 MINUTES

Time spent assembling new Deltaweld package

Ships as a complete package. Just hook up your primary power, add gas, wire and welding gun, and you're ready to weld.

NEW! Industrial MIGRunner cart is more robust with stowaway dual cylinder rack and lockable front casters with oversized rear wheels.

NEW! Single-wire feeder swivel kit for convenience and function, reducing wear on gun and liner assembly. It includes integrated handle, MIG gun and cable holders, and moves with the MIG gun, allowing operator to see the front of the feeder and which parameters are selected.

NEW! Industrial water cooler (sold separately) integrates into the bottom of the industrial cart.

MIGRunner packages
(see chart at right) include a Bernard® BTB Gun 400 A (two with dual-wire feeders) with AccuLock™ consumables.

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

Model *Most Popular MIGRunner* ◄	MIGRunner with Intellx Basic Feeder		MIGRunner with Intellx Pro Feeder		MIGRunner with Intellx Elite Feeder	
	Single-Wire	Dual-Wire	Single-Wire	Dual-Wire	Single-Wire	Dual-Wire
Deltaweld 350 208/230/460 V	951000138	951000139	951000140 ◄	951000197	951000142	951000144
Deltaweld 350 w/Insight 208/230/460 V	—	—	951000141	—	951000143	—
Deltaweld 500 208/230/460 V	951000147	951000148	951000149 ◄	951000151	951000152	951000154
Deltaweld 500 w/Insight 208/230/460 V	—	—	951000150	—	951000153	—
Deltaweld 500 575 V	—	—	951000155 ◄	—	951000157	951000159
Deltaweld 500 w/Insight 575 V	—	—	951000156	—	951000158	—

Deltaweld Power Sources

Deltaweld 350 with factory-installed Insight shown.

Deltaweld 500 with factory-installed Insight shown.

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.

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

Welding Intelligence™. Get more done, produce higher-quality welds and control costs with optional factory-installed Insight, Insight Centerpoint™ Basic or Insight Centerpoint™ Premium. Gives owners/managers visibility of welder productivity, so they can make informed decisions to drive improvements (see pages 76 and 77).

Intellx™ Wire Feeders

Intellx Basic feeder (single-wire)

Intellx Pro feeder (dual-wire)

Intellx Elite feeder (single-wire)

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

AccuLⓞck™ Intellx wire feeders include a Bernard® BTB Gun 400 A (two with dual-wire feeders) with AccuLock™ consumables.

Three dedicated Intellx™ 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.
- **Elite** adds additional weld programs, intuitive display with on-demand graphics and more control (see chart at right).

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

Dual-wire models allow two different wire types to be available on one feeder, avoiding downtime from changing spools and drive rolls.

Rotatable drive assembly eliminates severe bends in the wire feed path. This extends gun-liner life and aids in feeding difficult wires.

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

Intellx Feeder Features

Feature	Basic	Pro	Elite
Digital meters	●	●	Color 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 and RMD			●
XR™ Plus push-pull gun compatible			●
Profile Pulse™			●
Weld sequence control			●
Trigger dual schedule			●
Dual schedule switch support			●
Parameter limits, memory lockouts and system lock			●
Wire retract, auto thread and auto purge			●
Cloning and custom weld library			●

Heavy industrial ● CV DC 3 Phase

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

[1]With Intellx Pro and Elite feeders.
[2]With Intellx Elite feeders.

MIGRunner™ packages include
- Deltaweld power source
  350: 907747 or 907747002
  500: 907785 or 907785002
  500 (575 V): 907786 or 907786002
- Intellx 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, cable and gun 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 123)
- Industrial MIG 4/0 Kits with Lugs (stationary packages only) (pg 125)
- Industrial Cooler 301759
- ArcConnect Control/Motor Cables
  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)
- Feeder Swivel Kit 301838
- Hanging Bail 058435
- HD MIG AccuLock™ Nozzle N-A3412C
- 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.

Intellx™ Swingarc™

Order each separately

Required pipe post

Required Deltaweld 350 or 500 power source

Optional Swingpak base

Swingarc

Model	Swingarc with Intellx Pro Feeder		Swingarc with Intellx Elite Feeder	
	Single-Wire	Dual-Wire	Single-Wire	Dual-Wire
12 ft. (3.7 m)	951804001	951932001	951000091	951000092
16 ft. (4.9 m)	951806001	—	951000093	—

*Intellx 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.*

*Additional models are available — visit MillerWelds.com or your distributor. See literature sheets for additional model specifications.
**Refer to Deltaweld 350 and 500 owner's manuals for KVA/KW for 575 V models, and Deltaweld 500 owner's manual for gouge mode ratings.

	Power Source Only/Stock Number *Most Popular Models* ◄	Amp/Volt Ranges	Rated Output**	Amps Input at Rated Load Output, 60 Hz** 208 V	230 V	460 V	575 V	KVA	KW	Power Source Dimensions *(Includes lift eye)*	Power Source Net Weight
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 in. (568 mm) W: 15.35 in. (390 mm) D: 29.15 in. (740 mm)	115 lb. (52.2 kg)
			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 in. (568 mm) W: 15.35 in. (390 mm) D: 31.65 in. (804 mm)	145 lb. (65.8 kg)
			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		

Feeder Only	Stock Number		Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
Intellx Basic	951783001 951815001	Single-wire Dual-wire	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 in. (413 mm) W: 12.38 in. (314 mm) D: 27.88 in. (708 mm) Dual: H: 14 in. (356 mm) W: 18 in. (457 mm) D: 34.5 in. (876 mm)	Single: 44.8 lb. (20.3 kg) Dual: 77 lb. (34.9 kg)
Intellx Pro	951784001 ◄ 951816001	Single-wire Dual-wire							
Intellx Elite	951941001 951942001	Single-wire Dual-wire							

11

Continuum™ Systems
See literature DC/36.0

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

Continuum 350 push-only MIGRunner package shown (motor cable not pictured).

More power — better reliability

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

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

Power source design

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

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

Welding Intelligence™. Get more done, produce higher-quality welds and control costs.
- **Insight Core™ (standard)** gives owners/managers visibility of welder productivity, to make informed decisions to drive improvements (see page 76).
- **Insight Centerpoint™ (optional)** gives real-time guidance to welders, so less training is required and weld quality is improved (see page 77).

Feeder design

AccuL⊙ck™ Continuum wire feeders include a Bernard® BTB Gun 400 A (two with dual-wire feeders) with AccuLock™ consumables.

Tru-Feed™ technology provides precise feeding operation for stable arc performance.
- **Low-inertia motor** provides faster response for the best arc starts with the least amount of spatter.
- **Balanced-pressure drive-roll design and tensioners** feed wire in its truest and straightest form for consistent feedability, resulting in better welding performance.

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

Heavy industrial ● CC CV DC 3 Phase

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

MIGRunner™ packages include
- Continuum power source
- **Push-only pkg:** Continuum single-wire feeder with .035/.045 in. V-groove drive rolls and Bernard® BTB Gun 400 A with AccuLock™ consumables
  Push-pull pkg: Continuum dual-wire feeder with .035/.047 in. U-groove and .035/.045 in. V-groove drive rolls, XR-Aluma-Pro Plus gun, and Bernard® BTB Gun 400 A with AccuLock™ consumables
- Continuum running gear/cylinder rack and handles/cable hangers
- 3 ft. (0.9 m) control/motor cable
- Industrial MIG 4/0 kit consisting of flowmeter regulator(s) with 10 ft. (3 m) gas hose(s), 10 ft. (3 m) 4/0 feeder weld cable with lugs, and 15 ft. (4.6 m) work cable with 600-amp C-clamp

Wire feeding options
- Continuum Feeders* (see chart below)
- Continuum Swingarc™ Feeders*
  951635001 12 ft. (3.7 m) single-wire
  951636001 16 ft. (4.9 m) single-wire
  951725001 12 ft. (3.7 m) dual-wire

  *Feeders include .035/.045 in. V-groove drive rolls and a Bernard BTB Gun 400 A (two with dual-wire models) with AccuLock consumables.
- See literature DC/36.0 for additional booms and options

Most popular accessories
- Bernard® MIG Guns (pg 24–25)
- Insight Centerpoint™ Software (pg 77)
- Continuum Running Gear/Cylinder Rack 301264 (pg 123)
- Industrial MIG 4/0 Kits (with lug connectors) (pg 125)
- Continuum Integrated Cooler 301214 Mounts to bottom of power source — does not require external power
- Motor/Control Cables
  263368003 3 ft. (0.9 m)
  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)

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

Continuum Processes

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

*While idling.

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

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

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

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

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

Model	Stock Number		Amp/Volt Ranges	Rated Output	Amps Input at Rated Output, 50/60 Hz, 3-Phase							Max. Open-Circuit Voltage	Power Source Dimensions (Includes lift eye)	Power Source Net Weight
					230 V	380 V	400 V	460 V	575 V	KVA	KW			
Continuum 350	951852001	Push-only MIGRunner package	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*	71 VDC	H: 27.187 in. (691 mm) W: 17.5 in. (444 mm) D: 28.125 in. (714 mm)	127 lb. (57.6 kg)
	951865001	Push-pull MIGRunner package												
	907636	Power source only												
	907636001	With running gear/cylinder rack												
Continuum 500	951853001	Push-only MIGRunner package	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*	71 VDC		148 lb. (67.1 kg)
	951866001	Push-pull MIGRunner package												
	907640	Power source only												
	907640001	With running gear/cylinder rack												

Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
Continuum Feeder 951631001 Single-wire model 951673001 Dual-wire model	50 VDC	500 A at 100% duty cycle	Standard: 50–1,000 ipm (1.3–25.4 m/min.)	.035–5/64 in. (0.9–2.0 mm)	18 in. (457 mm), 60 lb. (27 kg)	H: 13.812 in. (351 mm) Single W: 16.312 in. (414 mm) Dual W: 17 in. (432 mm) D: 29.687 in. (754 mm)	Single: 43 lb. (19.5 kg) Dual: 61.5 lb. (27.9 kg)

WIRE FEEDERS

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

Product Guide	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 Gas-shld	Flux-cored Self-shld	Alum.				
ArcReach® SuitCase® (8 and 12)	14	●	●	◉		●		CC/CV	●	●	● CV[2]	◉	.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	Portable
ArcReach® Smart Feeder	14	●	●	●	●	◉		ArcReach equipped[1]	●	●			.035–.045 in. (0.9–1.1 mm)	12 in. diameter spool capacity, remote voltage control without a control cord, requires an XMT® 350 FieldPro™ or XMT 400 ArcReach 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	
ArcReach® 16	16	●	●			●	●[3]	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	
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	Bench
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	

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

[1] Smart Feeder requires an XMT 350 FieldPro or XMT 400 ArcReach connected to three-phase power or a compatible ArcReach-equipped engine drive. 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] ArcReach 16 requires an XMT 400 or 650 power source to gouge.

SuitCase® Series
Portable Feeders

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

SuitCase Series Features

Feature	ArcReach				12RC
	8	12	12 HD	Smart	
Available with Bernard® gun:					
BTB Gun 300 A	●	●			●
S-Gun™	●	●			
Dura-Flux™	●	●			
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			●		

ArcReach® SuitCase 8

ArcReach® SuitCase 12

PORTABLE!

ArcReach® Smart Feeder

SuitCase 12RC

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.

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.

Setting the standard for performance

AccuLock™

ArcReach Suitcase and SuitCase 12RC wire feeders with a Bernard BTB or IronPro gun include AccuLock™ consumables (see chart on page 15).

Heavy-duty drive motor with tachometer control provides wire feed speed that is accurate and consistent from the start of the weld to the finish and from one weld to the next. Consistent wire feed speed is very important with large-diameter cored wire, because small changes in wire feed speed make large changes in deposition rates.

Wide voltage range for small and large wires with no contactor chatter or arc outages.
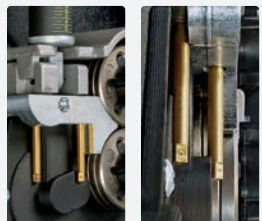
Ultra-low-drag inlet guide pins (except ArcReach Smart Feeder) make loading the wire easy and do not deform the wire on the way into the drive rolls, improving wire feeding performance.

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

Digital meters with SunVision™ technology can display voltage, wire feed speed, and also amperage if desired. Meters can be seen clearly even in direct sunlight.

Unique and durable case

Impact-resistant, flame-retardant case provides strength and durability, 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.

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.

Extreme reliability

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

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

See literature M/6.55

ArcReach®

Remote control of the power source without a cord. 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 48–50 and 82–91 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® 350 FieldPro™ or XMT® 400 ArcReach® (page 48) connected to three-phase power or a compatible ArcReach-equipped engine drive (pages 82–91).

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

Additional features of ArcReach Smart Feeder

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

RMD carbon steel
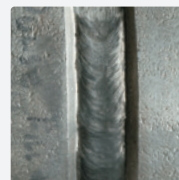
Pulsed MIG stainless

SuitCase® 12RC See literature M/6.5

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.

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

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

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

For ArcReach SuitCase 8 and 12
- Maxstar® 280 Multiprocess (pg 45)
- Dynasty® 300 Multiprocess (pg 45)
- XMT® Series (pg 46–50)
- Bobcat™ Series (pg 82)
- Trailblazer® 330 Series (pg 84)
- Bobcat™ 200 Air Pak™ (pg 86)
- Bobcat™ 265 Air Pak™ (pg 87)
- Trailblazer® 330 Air Pak™ (pg 87)
- Big Blue® Series (pg 88–91)

For ArcReach Smart Feeder
- XMT® 350 FieldPro™ or XMT® 400 ArcReach® (pg 48) (requires three-phase power)
- Big Blue® Series (ArcReach models only) (pg 88–91)

For SuitCase 12RC (requires power source with compatible 14-pin connector)
- XMT® Series (pg 46)
- Trailblazer® 330 Series (pg 84)
- Trailblazer® 330 Air Pak™ (pg 87)
- Big Blue® Series (pg 88–91)

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.

	Model	Stock Number*	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Max. Spool Size Capacity	Dimensions	Net Weight
ArcReach	**ArcReach SuitCase 8**	**951726001** w/Bernard BTB Gun 300 A **951727** w/Bernard S-Gun **951728** w/Bernard Dura-Flux gun **301457** Feeder only	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 in. (324 mm) W: 7.25 in. (184 mm) D: 18 in. (457 mm)	28 lb. (13 kg)
	ArcReach SuitCase 12	**951729001** w/Bernard BTB Gun 300 A **951730** w/Bernard S-Gun **951731** w/Bernard Dura-Flux **951732** w/Bernard PipeWorx 300-15 gun **301456** Feeder only		425 A at 60% duty cycle		**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 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	35 lb. (15.9 kg)
	ArcReach SuitCase 12 Heavy Duty	**951000096** w/Bernard IronPro gun **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 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	35 lb. (15.9 kg)
	ArcReach Smart Feeder	**951733** w/Bernard PipeWorx gun **300935** Feeder only	XMT 350 FieldPro or XMT 400 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 in. (457 mm) W: 13 in. (330 mm) D: 21.5 in. (546 mm)	50 lb. (23 kg)
	SuitCase 12RC	**951580001** w/Bernard BTB Gun 300 A **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 in. (394 mm) W: 9 in. (229 mm) D: 21 in. (533 mm)	31 lb. (14.1 kg)

ArcReach® 16
Portable Feeder

See literature M/6.55

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

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 or field roller	●

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.

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

Processes
- MIG (GMAW) • Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 3/8 in. carbons) with XMT 400 or 650 power source

Suggested power sources
- XMT® 400 ArcReach (pg 48–50)
- XMT® 650 Series (pg 46–50)

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.

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.

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

ArcReach® Remote control of the power source without a cord.
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 cord 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® 650 model (page 50).

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 shop cart and field roller). The ArcReach 16 wire feeder preassembled options include a shop cart and a 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.

	Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Max. Spool Size Capacity	Dimensions (H x W x D)	Net Weight
ArcReach	**301619** Base feeder only **301664** With shop cart **951000065** With shop cart and Bernard BTB Gun 400 A **301663** With field roller **951000066** With field roller and Bernard IronPro gun	Operates on open-circuit voltage and arc voltage: 12–110 VDC	450 A at 100% duty cycle 500 A at 60% duty cycle **CAC-A** 600 A at 40% duty cycle	50–780 ipm (1.3–19.8 m/min.) dependent on arc voltage	**Solid wire** .035–5/64 in. (0.9–1.9 mm) **Flux-cored** .045–3/32 in. (1.1–2.4 mm)	18 in. (457 mm) 60 lb. (27.2 kg)	**Base feeder** 15.3 x 16.7 x 32.8 in. (388 x 424 x 833 mm) **Shop cart** 20 x 24.9 x 36.3 in. (508 x 632 x 922 mm) **Field roller** 28.2 x 19.9 x 42.7 in. (716 x 505 x 1,084 mm)	**Base feeder** 101 lb. (45.8 kg) **Shop cart** 120 lb. (54.4 kg) **Field roller** 123 lb. (55.7 kg)

20 Series
Heavy-Industrial Bench Feeders

See literature M/11.0

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

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

20 Series Features

Feature	Basic	Digital
Available w/Bernard® gun: BTB Gun 400 A	●	●
Trigger hold	●	●
Digital meter(s)	◉	●
Remote voltage control	◉	●
Adjustable run-in control	◉	●

● **Standard** ◉ **Field option**

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.

Heavy industrial ● **CV DC**
Use with CV, DC power sources.

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

Suggested power sources
- Deltaweld® 350/500 with 14-pin (pg 10)
- XMT® Series (pg 46–49)

Suggested guns
- Bernard® Guns (pg 24–25)

Most popular accessories

- **Feeder Cart** 142382 (pg 122)
- Extension Cables (pg 130)

- **Spool Adapter** 047141 (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

- **Spool Cover** 057607
- Wire Reel Assembly 108008

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

Stock Number		Input Power	Wire Feed Speed	Wire Type and Diameter Capacity	Max. Spool Size Capacity	Dimensions	Net Weight
301499	Basic feeder only	24 VAC, 3.5 A, 50/60 Hz	75–750 ipm (1.9–19 m/min.)	.023–5/64 in. (0.6–2.0 mm)	60 lb. (27 kg) coil with optional wire reel assembly (108008)	H: 16 in. (406 mm) W: 12.375 in. (314 mm) D: 27.875 in. (708 mm)	46 lb. (21 kg)
951779001	Basic feeder w/Bernard BTB Gun 400 A						
301499001	Digital feeder only						
951780001	Digital feeder w/Bernard BTB Gun 400 A						

74 MPa Plus
Heavy-Industrial Bench Feeders

See literature M/3.0

Heavy-industrial bench feeders with features for weld control and programs, plus push-pull aluminum capabilities. Optimized with AlumaPower™ MPa or XMT® MPa power sources.

74 MPa Plus Features

Feature	
Available w/Bernard® gun: BTB Gun 400 A	●
Trigger hold	●
Digital meter(s)	●
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™	●

Additional features when used with AlumaPower MPa or XMT MPa power sources

Synergic pulsed MIG. As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed, reducing the need to make additional adjustments.
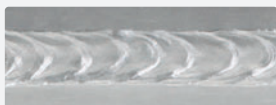
Profile Pulse™ provides TIG appearance with MIG simplicity and productivity. Achieve "stacked dimes" without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.

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

S-74 MPa Plus

D-74 MPa Plus

*Feeders **include** a 10 ft. interconnecting cord and are **available** with drive rolls and a Bernard BTB Gun 400 A (two with dual-wire models, see chart below).*

AccuLock™ 74 MPa Plus wire feeders with a Bernard BTB Gun include AccuLock™ consumables (see chart below).

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

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

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

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

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

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

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

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

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

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

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

Heavy industrial ● CV DC
Use with CV, DC power sources.

Processes
- MIG (GMAW) ▪ Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MPa Plus feeder and MPa power source

Suggested power sources
- AlumaPower™ MPa (pg 9)
- Deltaweld® 350/500 with 14-pin (pg 10) (pulsed MIG not available)
- XMT® Series (pg 46–49)

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

Most popular accessories

- **Feeder Cart** 142382 (pg 122)
- Extension Cables (pg 130)

- **Spool Adapter** 047141 (pg 130)
- Wire Straightener (pg 130)
- Hanging Bail 058435

- **Spool Covers**
  057607 For 74 MPa Plus single-wire models and left side of dual-wire models
  090389 For right side of 74 MPa Plus dual-wire models
- 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.

Model/Stock Number	Input Power	Wire Feed Speed	Wire Type and Diameter Capacity	Max. Spool Size Capacity	Dimensions	Net Weight
S-74 MPa Plus **951291001** Single-wire feeder w/Bernard BTB Gun 400 A	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 in. (356 mm) W: 12.5 in. (318 mm) D: 28 in. (711 mm)	48 lb. (21.2 kg)
D-74 MPa Plus **951292001** Dual-wire feeder w/two Bernard BTB Gun 400 A					H: 14 in. (356 mm) W: 21 in. (533 mm) D: 35 in. (889 mm)	87 lb. (39.5 kg)

74 MPa Plus Remote Configurations
See literature M/3.0

Remote wire feeder control box and wire 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)

Gun NOT included.
Must be ordered separately.

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.*

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

Dual-wire control box
300739 D-74 MPa Plus

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

Gun NOT included.
Must be ordered separately.

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.

Heavy industrial ● CV DC
Use with CV, DC power sources.

Processes
- MIG (GMAW) Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MPa Plus configurations and 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.

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 XL-550

Fabshield XLR-8

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 CO_2
- Low hydrogen weld deposit

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

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 Edge XP

FabCOR® Edge™ XP

- AWS: A5.18: E70C-6M-H4
- Gas-shielded, metal-cored wire
- Excellent weldability, high-deposition rate
- Market-leading silicon control technology
- Balanced arc characteristic
- High welder appeal
- 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 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 charactistic
- Robust low-temp impact properties
- High productivity in handheld and automation
- Reduces post-weld cleaning and rework

Quantum Arc™ 3 and 6

- AWS: ER705-3 and ER70S-6
- Solid wire
- Excellent feedability
- Quantum Arc 3: For use with CO_2 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

- 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

Hobart 418

Product Guide

Product Guide	Page	Class	MIG	Pulsed MIG	Flux-cored*	Solid	Flux-cored Gas-shld	Self-shld	Alum.	Wire Diameter Capacity	Available Cable Lengths	Typical Applications
Steel												
MIGmatic™ M-100 MIG Gun	22	● (Light)	●		◉	●	◉	◉CV*	◉	.023–.045 in. (0.6–1.2 mm)	10 ft.	Light industrial steel fabrication
MIGmatic™ M-150 MIG Gun	22	● (Light)	●		◉	●	◉	◉CV*	◉	.023–.045 in. (0.6–1.2 mm)	15 ft.	Light industrial steel fabrication
MDX™-100 MIG Guns	23	● (Light)	●		◉	●	◉	◉CV*	◉	.023–.045 in. (0.6–1.2 mm)	10 or 15 ft.	Light industrial steel fabrication
MDX™-250 MIG Guns	23	● (Industrial)	●	◉	◉	●	◉	◉CV*	◉	.023–.045 in. (0.6–1.2 mm)	10 or 15 ft.	Industrial steel fabrication
Bernard® BTB MIG Guns	24	● (Heavy)	●	◉	◉	●	◉	◉CV*	◉	.023–1/8 in. (0.6–3.2 mm)	10, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Bernard® Clean Air E™ Fume Extraction Guns	25	● (Heavy)	●	◉	◉	●	◉	◉CV*	◉	.023–1/8 in. (0.6–3.2 mm)	10, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Bernard® IronPro™ Self-Shielded Flux-Cored Gun	25	● (Heavy)			●			●CV*		.062–3/32 in. (1.6–2.4 mm)	15 ft.	Heavy industrial steel fabrication
Aluminum												
Spoolmate™ 100 Spool Gun	26	● (Light)	●			●			●	.023–.035 in. (0.6–0.9 mm)	12 ft.	Light industrial aluminum fabrication
Spoolmate™ 150 Spool Gun	26	● (Light)	●			●			●	.030–.035 in. (0.8–0.9 mm)	20 ft.	Light industrial aluminum fabrication
Spoolmate™ 200 Spool Gun	26	● (Light)	●			●			●	.023–.035 in. (0.6–0.9 mm)	20 ft.	Light industrial aluminum fabrication
Spoolmate™ 3035 Spool Gun	26	● (Light)	●			●			●	.023–.035 in. (0.6–0.9 mm)	20 ft.	Light industrial aluminum fabrication
Spoolmatic® Spool Guns	27	● (Industrial)	●	◉	◉	●		◉CV*	●	.030–1/16 in. (0.8–1.6 mm)	15 or 30 ft.	Industrial aluminum fabrication
XR-Aluma-Pro™ Lite Push-Pull Gun	28	● (Industrial)	●	◉		◉			●	.030–.047 in. (0.8–1.2 mm)	25 ft.	Industrial aluminum fabrication
XR-Aluma-Pro™ Push-Pull Guns	28	● (Heavy)	●	●		◉			●	.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	● (Heavy)	●	●		◉			●	.030–1/16 in. (0.8–1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
XR™-Pistol Push-Pull Guns	28	● (Heavy)	●	●		◉			●	.030–1/16 in. (0.8–1.6 mm)	15 or 30 ft.	Heavy industrial aluminum fabrication
XR™-Pistol-Pro Push-Pull Guns	28	● (Heavy)	●	●		◉			●	.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	● (Heavy)	●	●		◉			●	.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: ● Designed for this process ◉ Capable of this process
*Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.
NEW! or IMPROVED! products appear in blue type.

MIGmatic™ M-Series MIG Guns See literature AY/15.0

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

M-100   *M-150*   *Conversion diffuser*   *Conversion kit*

AccuLock™ MDX™ Conversion Kit 1880269
Kit features a conversion diffuser to consolidate MIG nozzles and contact tips to AccuLock MDX. 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 (pg 5)
- Multimatic® 215 (pg 41)
- Multimatic® 220 AC/DC (pg 42)

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)
- AccuLock™ MDX™ Conversion Kit 1880269
  Allows MIGmatic M-100 and M-150 MIG guns to upgrade to AccuLock™ MDX™ nozzles and tips (see pg 23)

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

Model	Stock Number	Cable Length	Rated Output	Rated Duty Cycle	Wire Diameter Capacity	Gun Only Net Weight
M-100	248282	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 See literature AY/15.5

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

MDX-100   *MDX-250*

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

AccuLock™ consumables provide long life and superior wire feeding. See below for more information.

Pulse welding capable (MDX-250 only) due to increased copper in the gun cable which ensures reliable performance with CV and pulse waveforms.

Model	Stock Number	Cable Length	Rated Output	Rated Duty Cycle	Standard Wire Size	Standard Consumables
MDX-100	1770028	10 ft. (3 m)	100 A	100% with CO₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock MDX
	1770029	15 ft. (4.6 m)	100 A	100% with CO₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock MDX
MDX-250	1770035	10 ft. (3 m)	250 A	100% with CO₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock MDX
	1770037	15 ft. (4.6 m)	250 A	100% with CO₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock MDX
	1770038	15 ft. (4.6 m)	250 A	100% with CO₂ gas, 60% with mixed gas	.035–.045 in. (0.9–1.2 mm)	AccuLock MDX
	1770043	15 ft. (4.6 m)	250 A	100% with CO₂ gas, 60% with mixed gas	.035–.045 in. (0.9–1.2 mm)	AccuLock S

AccuLock™ MDX™ Consumables See literature AY/15.5

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.

EZFeed™ Liner technology utilizes unique profile and reduced touch points, improving wire feeding while enhanced coil profile optimizes wire support.

AccuLock MDX power pin caps are available in three wire range sizes. They work together with AccuLock 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.

Upgrade to AccuLock S consumables for increased durability and longer life when guns are used in pulsed welding or more industrial applications. See page 24 for more information.

AccuLock MDX   *AccuLock S*

MDX Series MIG Guns Consumable Kits

For MDX-100 with AccuLock MDX
1880272 .023 in (0.6 mm)
1880273 .030 in (0.8 mm)
1880274 .035 in (0.9 mm)

For MDX-250 with AccuLock MDX
1880275 .030 in (0.8 mm)
1880276 .035 in (0.9 mm)
1880277 .045 in (1.2 mm)

For MDX-250 with AccuLock S
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. Both kits for MDX-250 gun also include one neck insulator.

**Light industrial** ● *MDX-100*
Industrial ● *MDX-250*

Processes
- MIG (GMAW) ▪ Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MDX-250

Suggested power sources
For MDX-100
- Millermatic® 142/211 (pg 5)
- Multimatic® 215 (pg 41)
- Multimatic® 220 AC/DC (pg 42)

For MDX-250
- Millermatic® 252 (pg 6)
- Millermatic® 255 (pg 7)
- Multimatic® 235 (pg 43)
- Multimatic® 255 (pg 44)

Most popular consumables

AccuLock Consumables

Power Pin Caps (inches)
2200360	.023–.030
2200361	.030–.035
2200362	.035–.045

Liners (inches)
LM1A-10	.023–.025, 10 ft. length
LMD2A-10	.030–.035, 10 ft. length
LMD3A-10	.035–.045, 10 ft. length
LM1A-12	.023–.025, 12 ft. length
LMD2A-12	.030–.035, 12 ft. length
LMD3A-12	.035–.045, 12 ft. length
LM1A-15	.023–.025, 15 ft. length
LMD2A-15	.030–.035, 15 ft. length
LMD3A-15	.035–.045, 15 ft. length

Diffusers
D-M100	MDX-100
D-M250	MDX-250
D-MA250M	MDX-250 AccuLock S conversion

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)
AccuLock MDX
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

AccuLock S
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)
AccuLock MDX
T-M023	.023
T-M030	.030
T-M035	.035
T-M045	.045
T-M047	3/64

AccuLock S
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.

Bernard® Semi-Automatic Guns

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

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

Fully configurable BTB MIG guns help keep your skilled welders comfortable while also increasing their productivity.
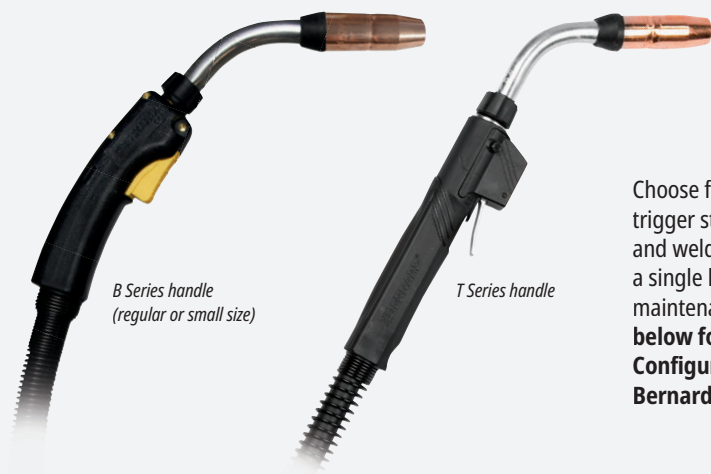
B Series handle (regular or small size)

T Series handle

Choose from a variety of necks, handles and trigger styles to optimize welder ergonomics and weld access, then standardize with a single line of consumables to simplify maintenance and contain costs. **See chart below for a pre-configured BTB MIG gun. Configure your BTB MIG gun by visiting BernardTregaskiss.com/ConfigureMyGun**

[1] *Comes with a Miller® power pin and rear load liner.*

Stock Number	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 See Bernard literature SP-ALS

AccuL☺ck™

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

Now available with select Miller packages. Scan the QR code or visit BernardTregaskiss.com/acculocks-systems to find out more.

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.

Heavy industrial ●

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

Duty cycle ratings
- 100% with CO_2
- 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)
- Continuum™ 350/500 (pg 12)
- Maxstar® 280 Multiprocess (pg 45)
- Dynasty® 300 Multiprocess (pg 45)
- XMT® Series (pg 46–50)
- Bobcat™ Series (pg 82)
- Trailblazer® 330 Series (pg 84)
- Bobcat™ 200 Air Pak™ (pg 86)
- Bobcat™ 265 Air Pak™ (pg 87)
- Trailblazer® 330 Air Pak™ (pg 87)
- Big Blue® Series (pg 88–91)

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 Nozzles* (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.

BERNARD™

Bernard® Semi-Automatic Guns

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

Clean Air E™ Fume Extraction Guns *See Bernard literature SP-CLE*

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.

NEW!

Lever handle

Button handle

Versatile models
- Available in 300-amp or 400-amp models — rated at 60 percent duty cycle with mixed gases
- Configurable with AccuLock™ S consumables

Enhanced comfort
- Lightweight handle with a rear swivel for optimal ergonomics
- Comparable weight and handle size to standard air-cooled or water-cooled MIG guns
- Choose from three thread-on nozzle fume inlet lengths to customize the balance between access and fume extraction control to suit your welding application

Effective fume capture
- Removes fumes directly at the source for cleaner air and reduced visible fume
- Reduces cleaning time and improves weld quality due to weld visibility
- Ideal for large weldments, confined spaces and overhead welding applications

Durable construction
- Built for long-lasting performance in demanding environments

Ease of repair
- Less time maintaining — more time welding

Stock Number	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 *See Bernard literature SP-IP 1.0*

Designed for structural steel erector sites. Comes with 15-foot (4.6 m) cable and short handle for excellent joint access and maneuverability.
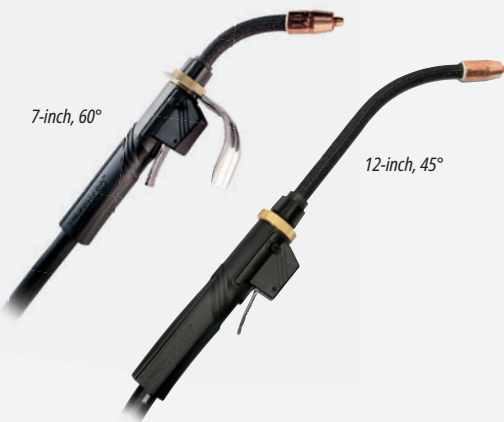
7-inch, 60°

12-inch, 45°

- Available in 350-amp or 450-amp models at 60 percent duty cycle
- Includes AccuLock™ S consumables with 3/32-inch (2.4 mm) liner for large diameter FCAW wires
- 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 sizes for different length and bend radius
- Optional heat shield keeps welder's hands shielded from heat

Stock Number	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)
- Continuum™ 350/500 (pg 12)
- Maxstar® 280 Multiprocess (pg 45)
- Dynasty® 300 Multiprocess (pg 45)
- XMT® Series (pg 46–50)

For IronPro guns only
- Bobcat™ Series (pg 82)
- Trailblazer® 330 Series (pg 84)
- Bobcat™ 200 Air Pak™ (pg 86)
- Bobcat™ 265 Air Pak™ (pg 87)
- Trailblazer® 330 Air Pak™ (pg 87)
- Big Blue® Series (pg 88–91)

Suggested fume extractors*
- FILTAIR® 130 (pg 104)
- FILTAIR® 215 (pg 105)

*Compatible with Clean Air guns only.

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
NS-AFLX Tip insulation
NS-AFLX-HD Armored tip insulation

Centerfire™ Consumables
(not compatible with IronPro™)

Diffusers (amps)
DS-1 300, small
D-1 400, 500, 600, large

Copper Nozzles (inches)
NS-5818C 5/8 ID, 1/8 rec., small
N-5818C 5/8 ID, 1/8 rec., large
N-5814C 5/8 ID, 1/4 rec., large
N-3414C 3/4 ID, 1/4 rec., large

Contact Tips (inches)
T-035 .035
T-045 .045
T-052 .052
T-062 1/16

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

BERNARD™

Spoolmate™ Spool Guns

Reliable and economical spool guns designed for light fabricators.

Spoolmate 100

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

Spoolmate 150

PORTABLE!

Spoolmate 200

Spoolmate 3035

Spoolmate 100 See literature M/1.45

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

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.

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

Includes carrying case, extra contact tips and nozzle.

Spoolmate 150 See literature M/1.46

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

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.

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

Spoolmate 200 See literature M/1.47

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

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

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

Easy access to drive assembly and drive rolls.

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

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

Spoolmate 3035 See literature M/1.5

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

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.

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

Easy-to-remove head tube assembly.

Light industrial ● CV DC
Use with CV, DC power sources.

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

Suggested power sources

For Spoolmate 100 and 150
- Millermatic® 142/211 (pg 5)
- Multimatic® 215 (pg 41)
- Multimatic® 220 AC/DC (pg 42)
- Multimatic® 235 (pg 43)
- Syncrowave® 210 (pg 58) (requires MIG accessory kit 301254)

For Spoolmate 200
- Millermatic® 252 (pg 6)
- Millermatic® 255 (pg 7)
- Millermatic® 355 (pg 8)
- Multimatic® 235 (pg 43)
- Multimatic® 255 (pg 44)
- Bobcat™ 265 (pg 82)
- Trailblazer® 330 Series (pg 84)
- Bobcat™ 200 Air Pak™ (pg 86)
- Bobcat™ 265 Air Pak™ (pg 87)
- Trailblazer® 330 Air Pak™ (pg 87)

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 Spoolmatic 3035
- Heavy-Duty Head Tube 195375

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

Model/ Stock Number	Welding Current Rating	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** **Solid steel** **Stainless**	.030–.035 in. (0.8–0.9 mm) .023–.035 in. (0.6–0.9 mm) .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** **Solid steel** **Stainless**	.030–.035 in. (0.8–0.9 mm) .030–.035 in. (0.8–0.9 mm) .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** **Solid steel** **Stainless**	.030–.035 in. (0.8–0.9 mm) .023–.035 in. (0.6–0.9 mm) .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** **Solid steel** **Stainless**	.030–.035 in. (0.8–0.9 mm) .023–.035 in. (0.6–0.9 mm) .023–.035 in. (0.6–0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 2.25 in. (57 mm) D: 8 in. (203 mm)	9.1 lb. (4.1 kg)

Spoolmatic® Spool Guns

Portable, aluminum wire feeder for industrial applications.

Spoolmatic

PORTABLE!

Spoolmatic See literature M/1.73

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.

Spoolmatic Pro

Spoolmatic Pro (additional features) See literature M/1.76

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

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

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

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

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

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

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 43)
- Multimatic® 255 (pg 44)

For both Spoolmatic models
- Bobcat™ 265 (pg 82)
- Trailblazer® 330 Series (pg 84)
- Bobcat™ 200 Air Pak™ (pg 86)
- Bobcat™ 265 Air Pak™ (pg 87)
- Trailblazer® 330 Air Pak™ (pg 87)

The following power sources require a WC-24 control (137549)
- AlumaPower™ MPa (pg 9)
- XMT® Series (pg 46–50)
- Big Blue® Series (not compatible with Big Blue 450 Duo CST) (pg 88–91)

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 Number	Welding Current Rating	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			H: 10.75 in. (273 mm) W: 2.5 in. (64 mm) D: 15.375 in. (390 mm)	3.0 lb. (1.4 kg)
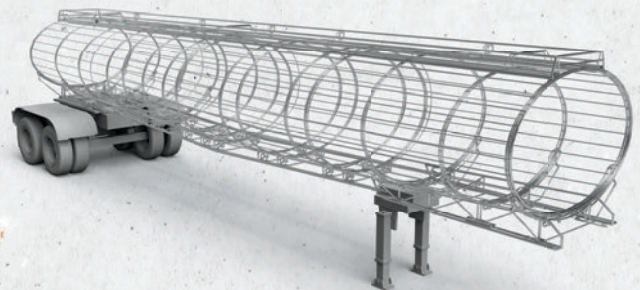
XR™ Push-Pull Guns

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

XR-Aluma-Pro Lite

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

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

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

XR-Aluma-Pro™ Lite See literature M/1.75

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

XR-Aluma-Pro

XR-Aluma-Pro™ See literature M/1.71
XR-Aluma-Pro™ Plus See literature M/1.77

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

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

PORTABLE!

XR™-Pistol See literature M/1.73

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

XR-Pistol

XR™-Pistol-Pro See literature M/1.74
XR™-Pistol Plus See literature M/1.77

Exceptional aluminum welding results for heavy-industrial applications.

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

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

XR-Pistol-Pro

Industrial ● *Aluma-Pro Lite*
Heavy industrial ● *Aluma-Pro, Aluma-Pro Plus, and all Pistol guns*

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

Processes
- 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 44) (XR-Aluma-Pro Lite, XR-Aluma-Pro and XR-Pistol-Pro guns only)

The following power sources require an XR-AlumaFeed® SuitCase® (pg 9)
- AlumaPower™ MPa (pg 9)
- Deltaweld® 350/500 (pg 10) (14-pin receptacle models only)
- XMT® Series (pg 46–50)
- Trailblazer® 330 Series (pg 84)
- Trailblazer® 330 Air Pak™ (pg 87)

For Plus guns
- Deltaweld® 350 or 500 with Intellx™ Elite feeder (pg 10)
- Continuum™ 350 or 500 with Continuum™ feeder (pg 12)
- AlumaPower™ MPa (pg 9) with 74 MPa Plus feeder (pg 18)
- XMT® Series (except XMT polarity reversing models) (pg 46–50) 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.

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*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				Welding Current Rating	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)

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

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

PERFORMARC™
ROBOTIC WELDING SYSTEM

Miller®

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

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.

A/B 180° Indexing 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, 92 or 108 in. servo indexing table

Side-by-Side
Two-station load/unload systems
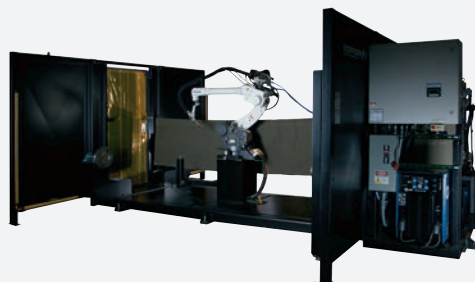
Robot between dual head and tailstock/ single- or dual-robot configuration.

PA1100SS 1,100 lb./side, 120 in. long x 44 in. turning diameter
PA2200SS 2,200 lb./side, 120 in. long x 66 in. turning diameter

A/B 180° Indexing H-Frame
Single-station load/unload systems

Dual head and tailstock/ single- or dual-robot configuration.

PA1100HW 1,100 lb./side, 60 in. long x 40 in. turning diameter on 108 in. servo indexer

A/B 180° Indexing Ferris Wheel
Single-station load/unload systems

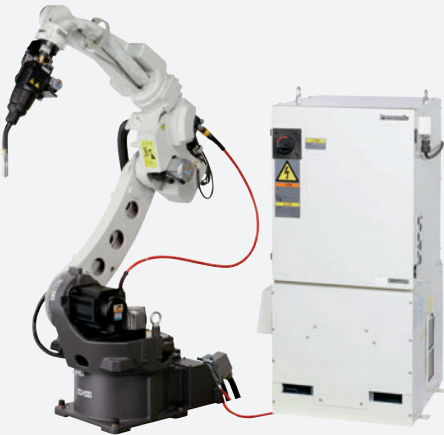**Dual head and tailstock/ single-, dual- or triple-robot configuration.**

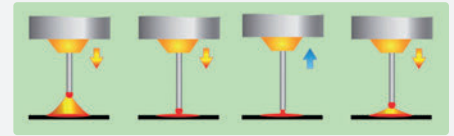**PA1100FW** 1,100 lb./side, 118 in. long x 43 in. turning diameter

Active Wire Process (AWP)

Active wire is an advanced short arc welding process combining the robot motion path, welder waveform and servo wire feed control simultaneously reversing the wire at the short circuit to control the weld deposition precisely.

**Spatter control.** Spatter is virtually eliminated in all phases of the weld using mixed argon 90/10 or 100 percent CO_2 gas.

Fast and clean arc striking. At the moment the wire touches the base the wire is reversed, reducing arc strike spatter by up to 90 percent.

Flexibility. Large variations in torch angle are possible, allowing push-pull in and out of corners without increasing spatter.

Appearance. The precise nature of the process allows many customers an alternative to TIG welding.

Wide range of materials. Mild steels, stainless steels and aluminum from thin to medium gauge benefit from AWP.

Thick Plate Welding
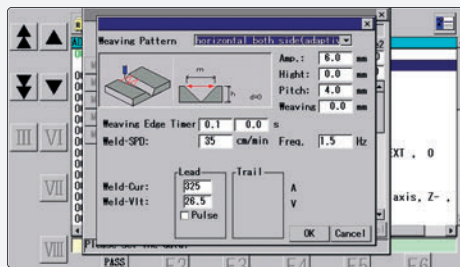
Fast and easy programming even on the most complex multi-pass weldments. All required commands and sensor setup in a single menu screen. Welding procedures can be developed quickly and transported easily from part to part.

Graphical, menu-driven interface. Pop-up graphical windows allow for fast programming of any welding joint in a single location.

Multi-layer path control. Easy-to-use interface to sequence the location of starts/stops and create multi-layer weld paths with appropriate offsets.

Advanced sensors. High-voltage touch sensing with menu-driven touch macros, a specialized high-amperage arc sensor system, and adaptive fill capability allow the weld process to adapt to incoming/varying production parts.

DeskTop Programming and Simulation (DTPS)
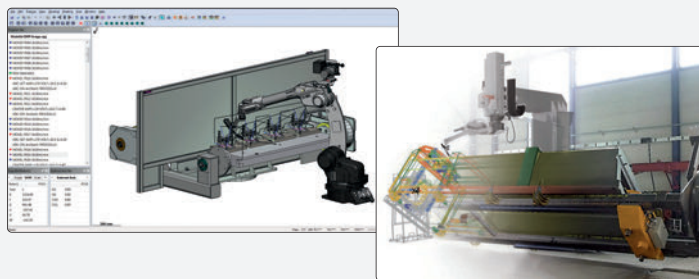
Software allows the development of programs offline, minimizing robot downtime and maximizing throughput and productivity.

Specialized software generates programs and simulates the actual taught paths from your desktop.

Native language programming. Same language and functions that the technician will see on the teaching pendent, making program generation off-line easier than competitive code-based systems.

Simplified file transfer. Transfer robot programs between robot types, sizes and controller generations.

Automation Components

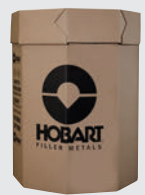*Auto Deltaweld™ and Auto-Continuum™ power sources and wire drives (pg 32–33)*

Insight Core™, Centerpoint™ and ArcAgent™ Welding Intelligence™ (pg 75–77)

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

FILTAIR® weld fume extraction system with low profile hood (pg 108–109)

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

Auto Deltaweld™ 350 and 500 Basic

See literature AU/10.5 (350 Basic) and AU/10.7 (500 Basic)

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

Heavy industrial ●

CV DC ⚡ **3** Phase **1** Phase *Auto Deltaweld 500 is 3-phase only.*

Processes
- Accu-Pulse® MIG (GMAW-P)
- MIG (GMAW) ■ Flux-cored (FCAW)

Comes with
- 6.7 ft. (2 m) Ethernet cable

Wire feeding option
- Auto Deltaweld Basic Fixed Wire Drive (see bottom of page) — does not include drive rolls

Most popular accessories
- 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)

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

NEW!

Auto Deltaweld 350 Basic shown with Auto Deltaweld Basic fixed wire drive.

Auto Deltaweld 350 Basic shown with user-supplied cobot.

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

Pulse capable. Accu-Pulse offers a more forgiving arc and compensates for variations in operator technique, providing a wider operating window.

Easy to integrate. Auto Deltaweld provides both Modbus TCP and EtherNet/IP for direct communications to your cobot.

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.

*KVA and KW for 575-volt model.

Model	Stock Number	Input Power	Output Ranges	Rated Output	Amps Input at Rated Output, 60 Hz						Power Source Dimensions	Power Source Net Weight
					208 V	230 V	460 V	575 V	KVA	KW		
Auto Deltaweld 350 Basic	**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 in. (471 mm) W: 15.35 in. (390 mm) D: 29.15 in. (740 mm)	115 lb. (52.2 kg)
		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 Basic	**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 24.7*	21.7 21.7*	H: 18.55 in. (471 mm) W: 15.35 in. (390 mm) D: 31.65 in. (804 mm)	145 lb. (65.8 kg)

Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
Auto Deltaweld Basic Fixed Wire Drive 301728 Left-hand drive	50 VDC	600 A at 60% duty cycle, 113 VDC	Standard: 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 in. (246 mm) W: 11.8 in. (300 mm) D: 10.8 in. (274 mm)	21.2 lb. (9.6 kg)

Auto-Continuum™ Systems

See literature AU/10.0

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

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

Most popular accessories
- Insight Centerpoint™ Software (pg 77)
- 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, 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.

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

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

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

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

Easy communication from robot to power source.

Designed for easy integration with fixed and flexible automation.

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

Welding Intelligence™. Get more done, produce higher-quality welds and control costs.

- **Insight Core™ (standard)** gives owners/managers visibility of welder productivity, so they can make informed decisions to drive improvements (see page 76).
- **Insight Centerpoint™ (optional)** gives real-time guidance to welders, so less training is required and weld quality is improved (see page 77).

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).

*While idling.

Model/Stock Number	Amp/Volt Ranges	Rated Output	Amps Input at Rated Output, 50/60 Hz, 3-Phase							Max. Open-Circuit Voltage	Dimensions *(Includes lift eye)*	Net Weight
			230 V	380 V	400 V	460 V	575 V	KVA	KW			
Auto-Continuum 350 **907656** **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: 27.187 in. (691 mm) W: 17.5 in. (444 mm) D: 28.22 in. (717 mm)	130 lb. (59.4 kg)
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		150 lb. (69 kg)

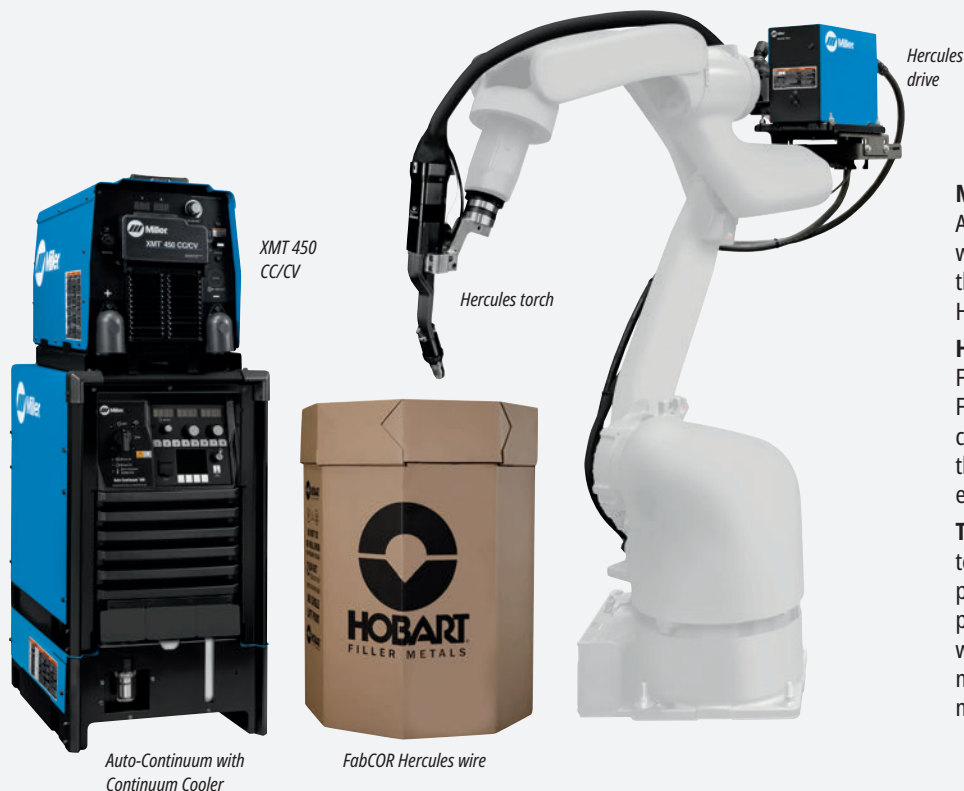| Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Dimensions	Net Weight
Auto-Continuum Wire Drive Motor Assembly **301207** Left-hand drive	50 VDC	500 A at 100% duty cycle	Standard: 50–1,000 ipm (1.3–25.4 m/min.)	.035–5/64 in. (0.9–2.0 mm)	H: 8.75 in. (222 mm) W: 10 in. (254 mm) D: 10 in. (254 mm)	16.5 lb. (7.5 kg)

Hercules™ High-Deposition Automated Welding System   See literature AU/55.0

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.

Hercules drive

Hercules torch

XMT 450 CC/CV

Auto-Continuum with Continuum Cooler

FabCOR Hercules wire

Miller power sources and Hercules drive.
An Auto-Continuum™ and XMT® 450 power source work with the Hercules drive. Together, they 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. The Tregaskiss Hercules torch has dual contacts that 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 up to 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.

Auto-Continuum power source (see page 33)
- 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 33)
- 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 46/47)
- 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 Cell See literature AU/60.0

Copilot is our smallest, most affordable welding cell that delivers the productivity and repeatability of robotic welding and utilizes the capabilities of collaborative robotics.

IMPROVED! *Now available with additional power source and air- or water-cooled choices, touch sensing and seam tracking.*

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

Entry-level collaborative welding cell. Operators can load and unload from a single station that can be shared with the robot envelope. 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.

Air- and water-cooled systems available

- **Air-cooled systems** include power source and compatible wire drive, welding robot, robotic MIG gun, 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 gun, Coolmate™ 1.3 (301617) with four gallons of coolant 11, pullout shelf for Coolmate, water lines, and cable sleeve.

Full complement of capabilities with Auto Deltaweld™ (see page 32) or Auto-Continuum™ (see page 33). GMAW power sources with Accu-Pulse® and waveform capability. Systems with Auto-Continuum add Versa-Pulse™, RMD® and high-deposition MIG advanced processes.

Tregaskiss® TOUGH GUN® CA3 robotic MIG gun with AccuLock™ R consumables (see page 38) 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 StrongHand Tools®, among others.

Note: Bluco® is a registered trademark of Bluco® Corporation. StrongHand Tools® is a registered trademark of StrongHand 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 castor wheels for easy positioning and adjustment.

***NEW!* Touch sensing (Auto Deltaweld systems only)** provides a means of detecting welding workpiece location by utilizing voltage sensing along with programmed torch "sweeps" to positively locate the workpiece position prior to welding.

***NEW!* Through-arc seam tracking (select Auto Deltaweld systems only)** 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 Number*	Type	Input Power	Rated Output	Wire Feed Speed	Payload Capacity	Approximate Dimensions		Approximate Shipping Weight
Copilot with Auto Deltaweld 350 and Auto Deltaweld Basic fixed wire drive **951000110** With touch sensing **951000115** With touch sensing and through-arc seam tracking	Air-cooled	208/230/460 V, 3-phase, 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	H: 84 in. (2,134 mm) W: 48 in. (1,219 mm) D: 52 in. (1,321 mm)	Max. tool height: Contact Miller Load height: 37 in. (940 mm)	1,700 lb. (771 kg)
Copilot with Auto Deltaweld 500 and Auto Deltaweld Basic fixed wire drive **951000134** With touch sensing **951000135** With touch sensing and through-arc seam tracking	Water-cooled	208/230/460 V 3-phase, 60 Hz	500 A at 39 V, 100% duty cycle		750 lb. (340 kg) with casters			
Copilot with Auto-Continuum 350 and Auto-Continuum wire drive motor assembly **951000108**	Air-Cooled	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.)				
Copilot with Auto-Continuum 500 and Auto-Continuum wire drive motor assembly **951000105**	Water-cooled	Auto-Line™ 230–575 V 3-phase, 50/60 Hz	500 A at 39 V, 100% duty cycle					

jetline®

Jetline offers a partnership to ensure you find the right solution to improve your weld quality and productivity — from design to installation, our engineers will help you get the results you need to stay competitive. Learn more at MillerWelds.com/automation

Longitudinal Seam Welding Systems

Jetline longitudinal seam welders deliver speed and precision. Features include linear welding, high-volume cylinder production, joining thin-gauge or coiled sheets and more.

- High-precision travel and positioning result in weld accuracy
- Complete solution, single source
- All seam welders come standard with a 9700T series control — an optional 9900 control is available
- Aluminum hold-down fingers with copper tips absorb and dissipate heat
- Toe-touch tapeswitch control activates finger clamping
- Seam welder models include:
  - External: flat sheets, cylinders and more
  - Internal: flat sheets and internal welds on cylinders
  - Combination: flat sheets and internal and external welds on cylinders
  - Elevating: seam welder raises and lowers to accommodate a wide range of part diameters, up to 96-inch OD
  - Bench style: small seam welder for welding shorter, smaller parts

Circumferential Welding Systems
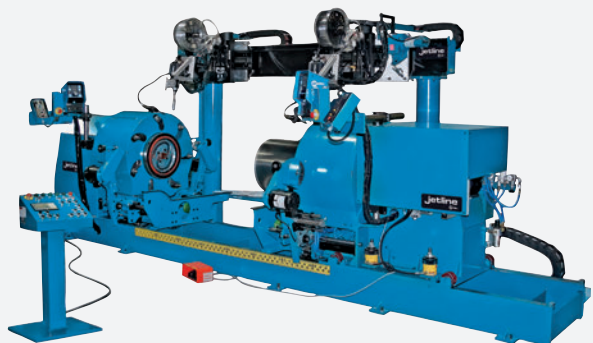
Jetline precision lathes and light-, medium- and heavy-duty circumferential welders handle a wide variety of part sizes and dimensions — from less than one pound up to 10,000 pounds, and from one inch up to 60 inches in diameter. Whatever the challenge, Jetline can work with you to find the perfect solution.

- Powered variable speed headstock
- Adjustable tailstock can be moved along the bed to accommodate differing part lengths
- Air-operated tailstocks apply a constant clamping pressure to the part throughout the welding cycle
- Circumferential welder models include:
  - Precision: 500-pound maximum part
  - Light duty: 500-pound maximum part
  - Medium duty: 2,000-pound maximum part
  - Heavy duty: 10,000-pound maximum part

Weld Head Locators

Jetline precision weld head locators provide a universal solution to position weld heads for circumferential and linear welding applications. With a variety of control systems, bolt-on accessories and base options, we can design the solution to meet your needs.

- Jetline weld head locators allow for simplified torch positioning
- Linear rails provide high-precision movement of the boom for linear welding
- 360 degrees of column rotation allows the weld head to be positioned over multiple fixtures
- Remote pushbutton pendant for weld head locator operation
- Weld head locator models include:
  - 6 x 6 foot
  - 9 x 9 foot
  - 12 x 12 foot

9900 Controller

The 9900 controller is a touch screen industrial computer with an intuitive graphical user interface.

- Large 15-inch touch screen panel with industrial PC
- User-friendly graphical interface and easy programming using industry-standard terms
- Graphical representation of the weld parameters during the weld and programming

- Standard configuration controls up to 15 channels
- Ethernet and fiber optic communication for flexibility and speed
- Software options

9700T Controller

The 9700T controller is the standard Jetline control and sequencer used on our motor-driven equipment.

- Microprocessor-based control technology
- User-friendly front panel layout with large-screen graphic backlit display
- Closed-loop control for higher accuracy and stability

- Modbus® provides enhanced control of compatible Dynasty® and Maxstar® power sources for a single point of programming
- Processes include GTAW, GMAW, SAW and PAW
- Integrates with other optional Jetline components including arc length control, cold wire and hot wire feeders, and oscillators

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.

- Regulation of welding voltage for precise, repeatable welds
- Provides consistent performance and results
- Simplified setup and operation requires minimal operator intervention

- Touch retract allows starting gap to be automatically preset in TIG (GTAW) applications
- Standard package includes 9790 arc length control and 6-inch arc length control actuator

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.

- Cold wire feeder system includes 9700W microprocessor control, four-roll feed assembly and wire guide positioner
- 9700W microprocessor controller offers a simple menu for setup and operation
- Four-roll feed assembly optimizes feeding of both hard and soft wires
- Wire guide positioner provides fine adjustment to position where the wire enters the weld puddle
- Optional clear spool cover protects the wire from the dust and dirt from the manufacturing environment

Seam Tracking Systems

Jetline tactile seam tracking systems simplify welding operation, ensuring the weld head is consistently positioned for optimal arc performance.

- Auto and manual modes allow system to be used as a seam tracker or motorized slide system
- Heavy-duty motorized slides provide 330-pound payload capacity at 15.7 inches

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.

- Oscillating the arc helps with sidewall fusion and reduces undercuts
- For applications where precision and repeatability are critical
- Improves productivity and quality in overlay, hard-facing, cladding and banding operations
- Micro-stepper drive provides precision arc oscillation
- Integrates with existing Jetline control packages

TREGASKISS®

Tregaskiss® Robotic Guns

Available with all PerformArc® robotic welding systems, fully configurable
Tregaskiss® TOUGH GUN® TA3 and CA3 robotic MIG guns are engineered for accurate, reliable and repeatable performance that maximize production uptime and throughput.

TOUGH GUN® TA3

TOUGH GUN® CA3

TOUGH GUN® CA3 equipped with TOUGH GUN I.C.E.™ technology

Air-Cooled MIG Guns

See Tregaskiss literature SP-TA3 and SP-CA3

TOUGH GUN® TA3 ThruArm® robotic MIG gun
(internal to the robot arm)
- Available in 350-amp models at 100 percent duty cycle (mixed gases)
- Available as a complete package from the power pin to the contact tip
- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy
- Maximize performance with AccuLock™ R consumables
- LSR+ unicable with SmoothTurn™ technology increases overall cable life up to 300 percent, maximizing uptime
- Wire brake, air blast, and TOUGH GUN I.C.E.™ technology are available options for select models

TOUGH GUN® CA3 robotic MIG gun (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 keeps costs down and minimizes downtime — no need to uninstall gun from the mounting arm when replacing cable
- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy
- Maximize performance with AccuLock™ R consumables
- Wire brake, air blast, and TOUGH GUN I.C.E.™ technology are available options for select models

TOUGH GUN I.C.E.™ technology
- Integrated cooling enhancer
- Extends consumable life by keeping front end components running cooler
- If water-cooling capability is lost, the 350-amp air-cooled product remains operational

Tregaskiss® Fixed Automatic Guns

Tregaskiss® fixed automatic MIG guns are engineered for hard tooling automation applications requiring a simple, durable and repeatable MIG gun.

MA1

MW1

Air-Cooled MIG Guns

See Tregaskiss literature SP-MA1

MA1 automatic MIG gun
- Available in 385-amp models
- Spring-guard strain relief prevents kinking and abrasion
- Air-cooled neck is made from aircraft-grade aluminum

Water-Cooled MIG Guns

See Tregaskiss literature SP-MW1

MW1 automatic MIG gun
- Available in 600-amp models
- Spring-guard strain relief prevents kinking and abrasion
- Stainless steel water-cooled neck is silver brazed and leak tested
- Uses a thread-on heavy-duty nozzle

Industrial ●

Process ▪ MIG (GMAW)

Compatible robots for robotic air-cooled guns
- Panasonic® ▪ ABB® ▪ COMAU® ▪ FANUC®
- KUKA® ▪ Yaskawa® Motoman®
- OTC Daihen®

Packages
- PerformArc® Systems (pg 30)

Most popular accessories
- TOUGH GUN I.C.E.™ Technology
  Adds water-cooling benefits to air-cooled guns to keep front-end consumables running cooler
- Neck Checking Fixture
- TOUGH GUN® TT4 Reamers (pg 39)

Most popular consumables

AccuLock™ R Consumables

TA3, CA3 and MA1 Diffusers

D-ATSH	Slip-on
D-ATTH	Thread-on

MW1 Diffuser

D-ATTH-MW1	Thread-on

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

TA3, CA3, MA1 and MW1 Liners (inches)

415-35-6Q	.035 – .045
415-116-6Q	.045 – 1/16

TA3 and CA3 Liners (inches)

415-35-062Q	.035 – .045, EZ-Feed™
415-116-062Q	.045 – 1/16, EZ-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 gun online, visit **BernardTregaskiss.com/ConfigureMyGun**

TREGASKISS®

Tregaskiss® TOUGH GUN® TT4 Reamers

See Tregaskiss literature SP-TT4

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

Two models available
- TOUGH GUN® TT4A (analog) reamer
- TOUGH GUN® TT4E (Ethernet) reamer

Standard features
- *NEW!* Factory-equipped reamer shrouds are now included with all TOUGH GUN® TT4 reamers configured specifically for use with your Copilot™ or a collaborative welding cell
- New 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 TOUGH GUN® TT4 reamer is known for, but with enhanced control optimization, remote monitoring capability and faster troubleshooting to facilitate increased productivity.

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

Industrial ●

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 TOUGH GUN® TT4A (analog) reamer quickly and easily at a safe distance
- TOUGH GUN® 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 TOUGH GUN® 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.

TREGASKISS®

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

See Tregaskiss literature SP-ALR

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 guns (see page 38) to simplify inventory and reduce replacement errors

QUICK LOAD® liners See Tregaskiss literature SP-QLL

For ease of maintenance, QUICK LOAD® liners install from the front of the MIG gun 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 guns (see page 38)

Power Source Welding Performance		Light Industrial		Industrial				Heavy Industrial			
		Multimatic® 215 (page 41)	Multimatic® 220 AC/DC (page 42)	Multimatic® 235 (page 43)	Multimatic® 255 (page 44)	Maxstar® 280 Multiprocess (page 45)	Dynasty® 300 Multiprocess (page 45)	XMT® 350 Models (pages 46–49)	XMT® 400 ArcReach® (pages 48–50)	XMT® 450 Models (pages 46–50)	XMT® 650 Models (pages 46–50)
Process	Short Circuit	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	Pulsed Spray				★★★★			★★★★[1]		★★★★[1]	
	Stick	★★	★★	★★★	★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	AC TIG		★★★★				★★★★				
	DC TIG	★★★	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★	★★★	★★★
	CAC-A					3/16 in.	3/16 in.	1/4 in.	5/16 in.	5/16 in.	3/8 in.
Material	Mild Steel	●	●	●	●	●	●	●	●	●	●
	Stainless Steel	●	●	●	●	●	●	●	●	●	●
	Aluminum	◉	●	●	●	◉	●	●[2]	◉	●[2]	◉
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.								◉	◉	●

Icon Key   Capability: ● Designed for   ◉ Capable of   Process Quality: ★ Good   ★★ Better   ★★★ Best   ★★★★ Optimized

[1] MPa models only.

[2] 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 See literature DC/12.59

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

Comes complete with
- 10 ft. (3 m) 100-amp MDX™-100 MIG gun with AccuLock™ MDX™ consumables
- 13 ft. (4 m) cable with electrode holder and 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
- 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/CO_2 mix, extra MDX contact tips, Hobart® spool of .030 in. solid wire, hook-and-loop cord wraps, information/settings chart 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 122)
- Protective Cover 301262 (pg 125)
- TIG Contractor Kit 301337 (pg 128)

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

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

Welding Capability

Max. 3/8 in. (9.5 mm)	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. 24 ga. (0.6 mm)	Min. 16 ga. (1.5 mm)

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

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

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

Weighing only 38 pounds, this lightweight MIG, stick and TIG welder provides portability on the job.

Angled cast-aluminum drive system with calibrated tension knob creates consistent feeding and easy setup.

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

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

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

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

Thermal overload protection shuts down unit if airflow is blocked or duty cycle is exceeded. Automatically resets when unit cools.

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

Stock Number	Welding Mode/Process	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz 120 V	240 V	KVA	KW	Wire Feed Speed	Max. Open-Circuit Voltage	Dimensions	Net Weight
907693	CV: MIG/flux-cored	120 V	30–125	110 A at 19.5 V, 60% duty cycle	23.0	—	2.8	2.8	60–600 ipm (1.5–15.2 m/min.)	58 VDC	H: 12.5 in. (318 mm) W: 11.25 in. (286 mm) D: 20.5 in. (521 mm)	38 lb. (17.2 kg)
951000001 With running gear/cylinder rack		240 V	30–230	200 A at 24 V, 20% duty cycle	—	25.8	6.2	6.2				
951674				150 A at 21.5 V, 40% duty cycle	—	16.7	4.0	4.0				
With TIG Contractor kit — see page 128 for kit contents	CC: TIG	120 V	20–150	140 A at 15.6 V, 40% duty cycle	24.6	—	3.0	3.0	—	58 VDC		
		240 V	20–210	190 A at 17.6 V, 20% duty cycle	—	18.0	6.7	6.7				
	CC: Stick	120 V	30–100	90 A at 23.6 V, 40% duty cycle	22.7	—	2.7	2.7				
		240 V	30–200	190 A at 27.6 V, 20% duty cycle	—	27.0	6.5	6.5				

Multimatic® 220 AC/DC

See literature AD/9.0

Multimatic 220 AC/DC with wireless foot control shown.

WIRELESS REMOTE COMPATIBLE

See page 129

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

Light industrial ● CC/CV AC/DC 1 Phase

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 AccuLock™ 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/CO_2 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

- **Dual Cylinder Rack Cart** 951770 (pg 122)
- 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)	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. 1/4 in. (6.4 mm)	Max. 1/4 in. (6.4 mm)
TIG Mild Steel	**TIG Aluminum**
Min. 24 ga. (0.6 mm)	Min. 24 ga. (0.6 mm)

Max. 3/8 in. (9.5 mm)
Stick Mild Steel
Min. 16 ga. (1.5 mm)

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

All in one. Comes equipped with all accessories to MIG, stick, AC and DC TIG weld with one machine — unlike other machines where you need to purchase additional accessories.

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

Weighing only 56 pounds, this lightweight MIG, stick and AC/DC TIG welder provides portability on the job.

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

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

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

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

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

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

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

Stock Number 907757 951000070 With dual cylinder rack cart 907757002 With wireless foot control 951000104 With dual cylinder rack cart and wireless foot control	Welding Mode/Process	Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Max. Open-Circuit Voltage	Dimensions	Net Weight
					120 V	240 V	KVA	KW				
	CV: MIG/ flux-cored	120 V	30–125	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 in. (445 mm) W: 11.25 in. (286 mm) D: 21.5 in. (546 mm)	56 lb. (25.3 kg)
		240 V	30–230	200 A at 24 V, 20% duty cycle	—	27.2	4.8	4.8				
				170 A at 21.5 V, 40% duty cycle	—	21.5	3.8	3.8				
	CC: TIG	120 V	20–140	130 A at 15.2 V, 40% duty cycle	24.0	—	2.9	2.9	—	46 VDC		
		240 V	20–210	210 A at 18.4 V, 20% duty cycle	—	22.4	5.4	5.4				
	CC: Stick	120 V	30–90	90 A at 23.6 V, 40% duty cycle	24.5	—	2.9	2.9				
		240 V	30–200	200 A at 28.4 V, 15% duty cycle	—	31.3	7.5	7.5				

Multimatic® 235 See literature DC/14.0

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

Industrial ● CC/CV ⚡ DC 1 Phase

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

Comes complete with
- 15 ft. (4.5 m) 250-amp MDX™-250 MIG gun with AccuLock™ 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
- Flow gauge regulator and gas hose for argon or AR/CO_2 mix
- .030/.035 in. reversible V-groove drive rolls
- 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 Rack with Elevated Gun and Cable Rack 301481 (pg 122)
  Converts an EZ-Latch™ Single Cylinder Running Gear into a Dual Cylinder Rack Running Gear as seen below

- **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.

WIRELESS REMOTE COMPATIBLE
See page 129

Welding Capability

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

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

Easy-to-understand interface with 4.3-inch color LCD display and intuitive connection setup images.

Weighing only 63 pounds (machine only), this lightweight MIG, stick and DC TIG welder provides portability on the job.

Compatible with Spoolmate™ 100, 150 and 200, and Spoolmatic 15A and 30A spool guns to offer a variety of aluminum welding solutions.

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

Heavy-duty aluminum two-drive-roll system.

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

Auto-Set™ Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.
- Available for MIG, stick and DC TIG processes with the ability to fine-tune your settings
- Set weld parameters by:
  MIG — selecting wire and gas type, wire diameter and material thickness
  Stick — selecting electrode type, electrode diameter and material thickness
  DC Lift-Arc™ TIG — selecting remote on/off, tungsten diameter and material thickness

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

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

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

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

*Input voltage range for the Multimatic 235 is 204–276 V.
**See literature DC/14.0 for dimensions and weight with running gear.

Stock Number 907780	Welding Mode/Process	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz 240 V*	KVA	KW	Wire Feed Speed	Max. Open-Circuit Voltage	Power Source Dimensions**	Power Source Net Weight**
951846 With EZ-Latch single cylinder running gear	CV: MIG/flux-cored	30–235	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 in. (489 mm) W: 13.75 in. (349 mm) D: 24.25 in. (616 mm)	63 lb. (29 kg)
951847 With EZ-Latch dual cylinder rack running gear and TIG kit	CC: Stick	30–200	150 A at 26 V, 60% duty cycle	20.2	5.0	4.8	—			
	CC: DC TIG	20–210	180 A at 17.2 V, 60% duty cycle	17.0	4.2	4.1				

Multimatic® 255
See literature DC/12.9

WIRELESS REMOTE COMPATIBLE

See page 129

Multimatic 255 with EZ-Latch single cylinder running gear shown.

Welding Capability

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

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

Industrial ● CC/CV DC 1 Phase

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

Comes complete with
- 15 ft. (4.5 m) 250-amp MDX™-250 MIG gun with Bernard® AccuLock™ S 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
- Flow gauge regulator and gas hose for argon or AR/CO$_2$ mix
- .035/.045 in. reversible V-groove drive rolls
- 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 Rack with Elevated Gun and Cable Rack 301481 (pg 122)
  Converts an EZ-Latch™ Single Cylinder Running Gear into a Dual Cylinder Rack Running Gear as seen below

- **EZ-Latch™ Dual Cylinder Rack 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.

Easy-to-understand interface with 7-inch color LCD display ensures proper machine setup and parameter selection, reducing setup time and increasing weld time.
- Quick-access process and weld mode backlit buttons across the top illuminate when active
- Soft-key buttons below the display change function depending on which screen is displayed — makes setup or change quick, easy and intuitive
- Large text for easier readability
- Intuitive connection setup images
- Full troubleshooting descriptions versus help errors and look up codes

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

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

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

Auto-Set™ Elite offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.
- Available for MIG, pulsed MIG, stick and DC TIG processes with the ability to fine-tune your settings
- Set weld parameters by:
  MIG — selecting wire and gas type, wire diameter and material thickness
  Stick — selecting electrode type, electrode diameter and material thickness
  DC Lift-Arc™ TIG — selecting remote on/off, tungsten diameter and material thickness

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

EXCLUSIVE! 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.

See literature DC/12.9 for dimensions and weight with running gear.

Stock Number 907728	Welding Mode/Process	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz						Wire Feed Speed	Max. Open-Circuit Voltage	Power Source Dimensions*	Power Source Net Weight*
				208 V	240 V	460 V	575 V	KVA	KW				
951767 With EZ-Latch single cylinder running gear **951768** With EZ-Latch dual cylinder rack running gear and TIG kit	CV: MIG/flux-cored	20–350	230 A at 25.5 V, 60% duty cycle	34.7	29.7	17.1	14.3	8.2	8.2	50–800 ipm (1.3–20 m/min.)	81 VDC	H: 19.25 in. (489 mm) W: 13.75 in. (349 mm) D: 24.25 in. (616 mm)	84 lb. (38 kg)
	CC: Stick	30–275	200 A at 28 V, 60% duty cycle	33.5	29	16.4	13.6	7.8	7.8	—			
	CC: DC TIG	5–275	275 A at 21 V, 60% duty cycle	34.1	29.9	17	14.1	8.1	8.1				

Maxstar® 280 Multiprocess
See literature DC/35.5
Dynasty® 300 Multiprocess
See literature AD/4.97

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

WIRELESS REMOTE COMPATIBLE
See page 129

Industrial ●

CC CV / AC DC **3** Phase **1** Phase *Maxstar is DC only*

Processes
- AC[1]/DC TIG (GTAW) ▪ Pulsed TIG (GTAW-P)
- MIG (GMAW)[2] ▪ Flux-cored (FCAW)[2]
- Stick (SMAW) ▪ Air carbon arc (CAC-A)

[1] Dynasty model only.
[2] With ArcReach SuitCase wire feeder.

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

TIGRunner® includes above plus
- Small Runner™ Cart
- Coolmate™ 1.3

Contractor package includes above (except TIGRunner) plus
- Contractor kit with A-200 TIG torch and RFCS-14 HD foot control (301549)
- ArcReach® SuitCase® 12 with two .035/.045 in. reversible V-groove drive rolls
- Bernard® BTB Gun 300 A with AccuLock™ consumables

Complete package includes TIGRunner above plus
- ArcReach® SuitCase® 12 with two .035/.045 in. reversible V-groove 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

*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.

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. Ideal solution for dirty or unreliable power.

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

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

QUIETPULSE™ QuietPulse is activated by changing the waveshape for DC pulse welding 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™ feature operates the auxiliary cooling system only when needed. Reduces noise, energy use, and airborne contaminants pulled through the cooler.

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

Most popular accessories
- ArcReach® SuitCase® Feeders (pg 14)
- Small Runner™ Cart 301615 (pg 123)
- Coolmate™ 1.3 301616 (pg 123)
- Contractor Kits (pg 128)
  301311 w/RCCS-14 finger control
  301309 w/RFCS-14 HD foot control
- 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)

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

Dynasty 300 Multiprocess Complete package shown.

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	Amps Input at Rated Load Output, 50/60 Hz 208 V	230 V	240 V	400 V	460 V	575 V	600 V	KVA	KW	Max. Open-Circuit Voltage	Power Source Dimensions	Power Source Net Weight
DC	**Maxstar 280 Multiprocess 907552001** Power source only *See page 60 in the TIG section for Maxstar 280 Series*	TIG	3-phase	1–280	250 A at 20 V	21	19	—	11	9	7	—	7.6	7.3	60 VDC (11 VDC**)	H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.5 in. (569 mm)	47 lb. (21.3 kg)
			1-phase	1–280	250 A at 20 V	35	32	—	18	16	13	—	7.3	7.1			
		Stick	3-phase	5–280	250 A at 30 V	*	*	—	14	13	10	—	9.9	9.6			
			1-phase	5–280	180 A at 27.2 V	32	29	—	*	*	*	—	6.7	6.5			
		MIG/ flux-cored	3-phase	5–280	250 A at 26.5 V	*	*	—	13	11	9	—	9.2	8.9			
			1-phase	5–280	200 A at 24 V	31	29	—	*	*	*	—	6.5	6.3			
AC/DC	**Dynasty 300 Multiprocess 907819** Power source only **907819001** TIGRunner **951000099** Contractor w/foot and SuitCase 12 **951000100** Complete w/wireless foot and SuitCase 12 *See page 61 in the TIG section for Dynasty 300 Series*	TIG	3-phase	2–300 (AC) 1–300 (DC)	250 A at 20 V	19	—	16	10	8	—	7	7.5	6.6	60 VDC (11 VDC**)	H: 13.88 in. (352 mm) W: 8.5 in. (216 mm) D: 21.88 in. (555 mm)	55 lb. (25 kg)
			1-phase	2–300 (AC) 1–300 (DC)	250 A at 20 V	33	—	29	17	15	—	11	6.7	6.7			
		Stick	3-phase	5–300	250 A at 30 V	*	—	*	14	12	—	9	9.8	9.1			
			1-phase	5–300	200 A at 27.2 V	35	—	31	*	*	—	*	9.3	9.2			
		MIG/ flux-cored	3-phase	5–300	250 A at 26.5 V	*	—	*	12	11	—	9	8.9	8.1			
			1-phase	5–300	200 A at 24 V	31	—	27	*	*	—	*	6.2	6.1			

XMT® Series Non-ArcReach® Models (Under-Roof Application Focused)
See literature DC/18.93 (350), DC/18.94 (450) and DC/18.98 (650)

XMT 350 CC/CV

XMT 450 CC/CV

XMT 650 CC/CV

Excellent multiprocess arc performance makes the XMT family the most popular in the industry. Choose from our CC/CV and MPa models (pages 46 – 47) or ArcReach models (pages 48 – 50) to find the right solution for your business.

Input power choices

AUTO-LINE TECHNOLOGY XMT 350 models allow for any input voltage hookup (208 – 575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable input power.

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.

Advanced features for the professional welder

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

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

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

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

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

Performance

High-quality performance in all welding processes, from thick to thin metals.

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.

Reliability

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

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

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

Welder-friendly control panel

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

Ultra-tough, polycarbonate-blended cover (XMT 350 and 450) protects front controls from damage.

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

Output connector choices

Dinse- or Tweco®-style weld receptacles (XMT 350) provide high-quality weld cable connections.
Note: Two Dinse connectors are supplied with Dinse machines. Tweco connectors must be ordered separately.

Weld studs (XMT 450 and 650).

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

XMT® 350 CC/CV, 450 CC/CV and 650 CC/CV

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

XMT 350 CC/CV and XMT 450 CC/CV

XMT 650 CC/CV

XMT® 350 MPa and 450 MPa

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

Pulse programs provide a reduced heat-affected zone and good gap filling ability, and are great for thick to thin metal. They allow welding in all positions, as well as faster travel speeds and deposition.

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

Additional features when using a 74 MPa Plus feeder or XR-AlumaFeed® SuitCase® feeder.

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.

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

[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.*

Heavy industrial ●

CC/CV DC **3** Phase **1** Phase   *XMT 450 and 650 are 3-phase only.*

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 — 350: 1/4 in., 450: 5/16 in., 650: 3/8 in.)

*XMT MPa models only. **XMT 650 only.

MIGRunner™ packages include
- XMT 350 or 650 CC/CV power source
- 20 Series Basic (XMT 350) **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 350) **OR** running gear cylinder rack (XMT 650)
- **XMT 350 MIGRunner:** Flowmeter regulator with 3 ft. (0.9 m) gas hose, 6 ft. (1.8 m) 2/0 wire feeder to power source weld cable, and 10 ft. (3 m) 2/0 work cable with clamp
  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 includes everything in MIGRunner package except
- Running gear cylinder rack

Most popular accessories
- XR-AlumaFeed® SuitCase® 301567 (pg 9)
- SuitCase® Feeders (pg 14)
- 20 Series Feeders (pg 17)
- 74 MPa Plus Feeder (pg 18)
- Spoolmatic®/ WC-24 (pg 27/130)
- MIGRunner™ Cart 195445 (pg 123) (for XMT 350/450 models only)
- Running Gear Cylinder Rack 300408 (pg 123)
- Industrial MIG 4/0 Kits (pg 125)

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

	Model/Stock Number *Most Popular Models ◀*	Input Power	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz								Max. Open-Circuit Voltage	Power Source Dimensions	Power Source Net Weight
					208 V	230 V	380 V	400 V	460 V	575 V	KVA	KW			
350 A	**XMT 350 CC/CV (Dinse)** **907161◀** 208–575 V power source only **907161011** 208–575 V w/auxiliary power[1] **951786001** 208–575 V MIGRunner	3-phase	5–425 A 10–38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	—	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	78 lb. (35.4 kg)
	XMT 350 MPa (Dinse except where noted) **907366◀** 208–575 V power source only **907366011** 208–575 V w/auxiliary power[1] **907366014** 208–575 V (Tweco®)	1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle[2]	60.8	54.6	—	29.7	24.5	19.9	11.7	11.2			
450 A	**XMT 450 CC/CV (1/2 in. stud)** **907481◀** 230/460 V power source only **907482** 575 V with ArcReach	3-phase	15–600 A 10–38 V	450 A at 38 VDC, 100% duty cycle	—	51	—	—	27.6	24.4	22	18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)
	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				—	51	—	—	27.6	23.6	21.6	18.3			
				(KVA is 23.5 on 575 V)											
650 A	**XMT 650 CC/CV (1/2 in. stud)** **907843◀** 380/460 V power source only **951000067** 380/460 V stationary **951000068** 380/460 V MIGRunner	3-phase	10–815 A 10–44 V SAW mode: 10–65 V	650 A at 44 VDC, 100% duty cycle	—	—	51.5[3]	—	42.6	—	33.9	31.9	82 VDC	H: 28.187 in. (716 mm) with lift eye W: 16.687 in. (424 mm) D: 31.625 in. (803 mm)	159 lb. (72.1 kg)
				750 A at 44 VDC, 60% duty cycle	—	—	59.9[3]	—	49.1	—	39.5	37.0			
				815 A at 44 VDC, 25% duty cycle	—	—	65.3[3]	—	53.6	—	43.0	40.2			

XMT® Series ArcReach® Models (Outdoor Application Focused)

See literature DC/18.96 (350), DC/18.97 (400), DC/18.94 (450) and DC/18.98 (650)

ArcReach®

Every year, outdated welding equipment wastes hundreds of productive work hours — and thousands of dollars in profit — by forcing operators to make numerous walks from the weld joint to the welder. Welding systems with ArcReach technology let operators adjust welding parameters right at the weld joint without a control cord using the wire feeder or remote — maximizing arc-on time, improving safety and impacting the bottom line. See pages 14–16/51 for ArcReach feeders and page 51 for the Stick/TIG Remotes. Learn more about ArcReach technology at **MillerWelds.com/arcreach**

XMT 650 ArcReach

XMT 450 CC/CV ArcReach

NEW!

XMT 400 ArcReach

XMT 350 FieldPro™ with Polarity Reversing

More jobsite productivity and efficiency

Cable Length Compensation (CLC™) (except XMT 450 CC/CV ArcReach) 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.

Polarity reversing models of power source and remote are ideal for pipe and module assembly where changing polarity happens frequently.

AUTO-LINE™ TECHNOLOGY XMT 350 and 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. Ideal solution for dirty or unreliable input power.

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.

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

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

Exceptional arc performance

High-quality performance in all welding processes, from thick to thin metals.

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

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

Regulated Metal Deposition (RMD®) and pulsed MIG (XMT 350 and 400 models with ArcReach Smart Feeder) are fully supported, enabling operators to use these advanced processes in the field for faster, more-efficient welds.

Increased uptime

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.

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

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

Improved jobsite safety

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 through multistory and cluttered jobsites back to the power source.

More operator control

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

Adjust While Welding (AWW™) (except XMT 450 CC/CV ArcReach) allows weld operators to change weld parameters while the arc is on.

For the XMT 450 CC/CV ArcReach the operator can precisely set arc voltage at the feeder and monitor the actual arc voltage and current delivered to the weld using the digital meters on the feeder. This removes guesswork when it comes to adhering to weld procedures.

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

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

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.

ArcReach® Accessories

Maximize fleet compatibility and get the benefits of ArcReach when you pair XMT FieldPro™ and 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, ArcReach Stick/TIG Remote with Polarity Reversing and ArcReach Heater.
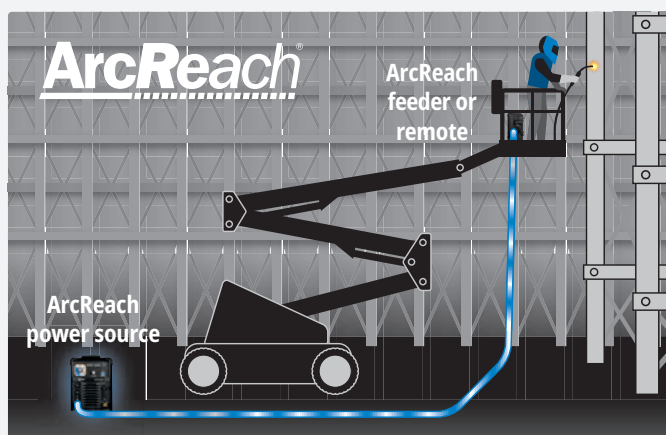
Heavy industrial ●

CC CV DC ⚡ **3 Phase** **1 Phase**   *XMT 450 and 650 are 3-phase only.*

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 — 350: 1/4 in., 400/450: 5/16 in., 650: 3/8 in.)

All except XMT 650 with Polarity Reversing.
**XMT 350 and XMT 400 models only with ArcReach Smart Feeder.*
***XMT 650 except Polarity Reversing model.*

Stick/TIG system includes
- XMT 350 or XMT 400 power source
- ArcReach Stick/TIG Remote

MIG/flux-cored system includes
- XMT 350 or XMT 400 power source
- ArcReach SuitCase 12 wire feeder with drive rolls
- Bernard® BTB Gun 300 A with AccuLock™ consumables

RMD/pulse system includes
- XMT 350 or XMT 400 power source
- ArcReach Smart Feeder wire feeder with drive rolls
- Bernard® PipeWorx 300-15 MIG gun

Most popular accessories
- ArcReach® SuitCase® Feeders (pg 14/51)
- ArcReach® Smart Feeder (pg 14/51) (for XMT 350 and 400 only)
- ArcReach® 16 Feeder (pg 16/51)
- XMT ArcReach® Racks (pg 50)
- ArcReach® Stick/TIG Remote with Polarity Reversing 300934 (pg 51) (for XMT 350 FieldPro with Polarity Reversing model only)
- ArcReach® Stick/TIG Remote 301325 (pg 51) (for all models except XMT 350 FieldPro with Polarity Reversing)
- ArcReach® Heater (pg 98) (for all models except XMT 450)

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

[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.

Model/Stock Number *Most Popular Models*◀	Input Power	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz								Max. Open- Circuit Voltage	Power Source Dimensions	Power Source Net Weight
				208 V	230 V	380 V	400 V	460 V	575 V	KVA	KW			
XMT 350 FieldPro w/Polarity Reversing 907731◀ 208–575 V power source only (Tweco®) 907731001 208–575 V power source only (Dinse) 951737 Stick/TIG system (Tweco®) 951735001 MIG/flux-cored system (Tweco®) 951739◀ RMD/pulse system (Tweco®)	3-phase	5–425 A 10–38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	—	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	93 lb. (42.2 kg)
	1-phase	5–425 A 10–38 V	300 A at 32 VDC, 60% duty cycle[2]	60.8	54.6	—	29.7	24.5	19.9	11.7	11.2			
XMT 400 ArcReach 907865◀ 208–575 V power source only (Tweco®) 907865004 208–575 V power source only (Dinse) 951000114 Stick/TIG system (Tweco®) 951000113◀ MIG/flux-cored system (Tweco®) 951000112 RMD/pulse system (Tweco®)	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	16.0	17.1	91 VDC	H: 17.25 in. (438 mm) W: 12.75 in. (324 mm) D: 20.25 in. (514 mm)	75 lb. (34.0 kg)
	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			
XMT 450 CC/CV ArcReach (1/2 in. stud) 907481003◀ 230/460 V 907481004 230/460 V w/auxiliary power[1] 907482 575 V	3-phase	15–600 A 10–38 V	450 A at 38 VDC, 100% duty cycle	—	51	—	—	27.6	24.4	22	18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)
XMT 650 ArcReach (1/2 in. stud) 907823◀ 380/460 V 907845 575 V **XMT 650 ArcReach w/Polarity Reversing (1/2 in. stud)** 907822 380/460 V	3-phase	10–815 A 10–44 V SAW mode: 10–65 V (non-polarity reversing model only)	650 A at 44 VDC, 100% duty cycle	—	—	51.5[3]	—	42.6	35.2	33.9	31.9	82 VDC	H: 28.187 in. (716 mm) with lift eye W: 16.687 in. (424 mm) D: 31.625 in. (803 mm)	159 lb. (72.1 kg)
			(KVA is 35.3 and KW is 31.7 on 575 V)											
			750 A at 44 VDC, 60% duty cycle	—	—	59.9[3]	—	49.1	41.1	39.5	37.0			
			(KVA is 41.0 and KW is 37.4 on 575 V)											
			815 A at 44 VDC, 25% duty cycle	—	—	65.3[3]	—	53.6	44.3	43.0	40.2			
			(KVA is 44.2 and KW is 40.5 on 575 V)											

XMT® ArcReach® Racks
See literature DC/18.97 (400), DC/18.94 (450) and DC/18.98 (650)

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 ● CC CV DC 3 Phase

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 — 350: 1/4 in., 400/450: 5/16 in., 650: 3/8 in.)

*All except XMT 650 with Polarity Reversing.
**XMT 400 models only with ArcReach Smart Feeder.
***XMT 650 except Polarity Reversing model.

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

Most popular accessories
- ArcReach® SuitCase® Feeders (pg 14/51)
- ArcReach® Smart Feeder (pg 14/51) (for XMT 400 only)
- ArcReach® 16 Feeder (pg 16/51)
- ArcReach® Stick/TIG Remote 301325 (pg 51)
- ArcReach® Heater (pg 98) (for all models except XMT 450)

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

See pages 48 and 49 for the uses and advantages of ArcReach.

Note: For additional rack systems see CST™ 282 Racks on page 55.

XMT 650 ArcReach 4-Pack Rack

XMT 400 ArcReach 6-Pack Rack

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 for easy access.

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

Top cover protects machines from falling debris.

Lift eyes simplify crane or overhead lifting device transport.

Lift truck fork pockets.

XMT 400 4-pack racks include casters that can be bolted to the rack base. Two swivel casters and two non-swivel casters. Large 5-inch diameter wheels enable the rack to be moved over grating and driveway gravel.

Model	Stock Number	Input Power to Rack	Dimensions (H x W x D) *(Includes lift eye)*	Net Weight
XMT 400 ArcReach Rack	**907882** 4-Pack Rack (Tweco®)	230–575 V, 3-phase (fused for 460/575 V)	59 x 34 x 32 in. (1,498 x 863 x 812 mm)	560 lb. (254 kg)
	907883 6-Pack Rack (Tweco®)		59.375 x 43 x 34.375 in. (1,508 x 1,092 x 873 mm)	770 lb. (349 kg)
XMT 450 CC/CV ArcReach Rack	**907700** 4-Pack Rack (stud)	230/460 V, 3-phase (fused for 460 V)	59.375 x 43 x 34.375 in. (1,508 x 1,092 x 873 mm)	780 lb. (354 kg)
XMT 650 ArcReach Rack	**907860** 4-Pack Rack (stud)	380/460 V, 3-phase (fused for 460 V)	76 x 43 x 34.375 in. (1,930 x 1,092 x 873 mm)	950 lb. (431 kg)
XMT 650 ArcReach w/Polarity Reversing Rack	**907852** 4-Pack Rack (stud)		76 x 43 x 34.375 in. (1,930 x 1,092 x 873 mm)	950 lb. (431 kg)

Choose the Right XMT Power Source

	350 or 400 Amp			450 Amp		650 Amp
	XMT 350 CC/CV	**XMT 350 MPa**	**XMT 400 ArcReach**	**XMT 450 CC/CV**	**XMT 450 MPa**	**XMT 650 CC/CV**
Input Power	3- or 1-phase power			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)
Weld Output (3-phase input power)	350 A at 34 VDC, 60% duty cycle		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)	1/4 in. (6.4 mm)		5/16 in. (7.9 mm)	5/16 in. (7.9 mm)		3/8 in. (9.5 mm)
Net Weight	78 lb. (35.4 kg)		75 lb. (34.0 kg)	122 lb. (55.3 kg)		159 lb. (72.1 kg)
Output Connector	Dinse-style	Dinse- or Tweco-style	Universal	1/2 in. stud		1/2 in. stud
Pulsed MIG	—	Yes	—	—	Yes	—
14-pin Compliant	Yes			Yes		Yes
Insight Core Capable (requires Insight Core 14-pin module)	Yes (except polarity reversing model) (page 76)			Yes (page 76)		Yes (except polarity reversing model) (page 76)
ArcReach®	Factory option (page 48)	—	Yes (page 48)	Factory option (page 48)	—	Factory option (page 48)

Let Your Welders Weld.™

Game-Changing Control Where You Need It Most.

ArcReach® WELDING SYSTEMS

The more they stop the more it costs.

◢ **ARCREACH PLUG-IN POWER SOURCES**

XMT® 350 FieldPro™ Systems with Polarity Reversing (page **48**)
XMT® 400 ArcReach® Systems (page **48/50**)
XMT® 450 CC/CV ArcReach® (page **48/50**)
XMT® 650 ArcReach® (page **48/50**)
XMT® 650 ArcReach® with Polarity Reversing (page **48/50**)

◢ **ARCREACH WIRE FEEDERS**

ArcReach® SuitCase® Feeders (page **14**)
ArcReach® Smart Feeder (page **14**)
ArcReach® 16 Feeder (page **16**)

◢ **ARCREACH STICK/TIG REMOTES**

ArcReach® Stick/TIG Remote 301325
ArcReach® Stick/TIG Remote with Polarity Reversing 300934

◢ **ARCREACH ENGINE-DRIVEN WELDERS**

Bobcat™ 265 ArcReach® Model (page **82**)
Trailblazer® 330 (page **84/87**)
Big Blue® ArcReach® Models (page **88–91**)

ArcReach®

HEATING SYSTEMS

Preheat faster so welding schedules stay on time.

◢ **ARCREACH HEATER AIR-COOLED INDUCTION SYSTEM**

ArcReach® Heater and Tools (page **98**)

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

MillerWelds.com/arcreach

PipeWorx 400 Welding System
See literature PWS/2.0

Designed exclusively for pipe fabrication shops.

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

Streamlined system
- Innovative cable and gun storage maintains an organized weld-cell area — cables stay connected to the power source, eliminating the need for switching when changing welding processes
- All system components are tailored to meet the demands of a pipe fabrication shop

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

Quick process changeover
- PipeWorx "Quick-Select" technology auto-chooses welding process, polarity, cable outputs, and parameters
- Eliminates set-up time for switching cables and gas hoses

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 301589 (pg 128)
- RPBS-14 300666 (pg 128)
- 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.

Advanced Technologies of PipeWorx System

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

RMD carbon steel

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

Pulsed MIG stainless

Dimensions and weight are for power source only.

Model/Stock Number *Most Popular System* ◄	Welding Mode/ Process	Amperage/ Voltage Ranges	Rated Output at 100% Duty Cycle	Amps Input at Rated Output, 60 Hz, 3-Phase 230 V		460 V	575 V	KVA 230 V	460 V	575 V	KW 230 V	460 V	575 V	Max. Open-Circuit Voltage	Dimensions*	Net Weight*
PipeWorx 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 in. (724 mm) W: 19.5 in. (495 mm) D: 31.75 in. (806 mm)	225 lb. (102 kg)
	CC/DC: TIG	10–350 A	350 A at 24 VDC	29.3		18.2	13.5	11.8	14.5	13.4	10.7	10.6	10			
	CV: MIG/flux-cored	10–44 V	400 A at 34 VDC	42.9		24	20.5	17.3	19.2	20.5	16	15.8	16.2			

Model/Stock Number	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
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 in. (356 mm) W: 19 in. (483 mm) D: 29 in. (737 mm)	90 lb. (41 kg)

Also see Multiprocess and TIG sections for machines that can stick weld.

Product Guide

Product	Page	Class	Stick	DC TIG	Portability	Weldable Metals	Welding Amperage Range	Special Features	Typical Applications	
Thunderbolt® 210	53	●	●		Handle, shoulder strap	Steel, stainless	20–210 DC	Infinite amperage control	Garage/job shops, maintenance/repair, farm	1-Ph
Maxstar® 161 S	53	●	●		Handle/shoulder strap, optional case		20–160 DC	Auto-Line™ (120–240 V), digital meter	MRO, ship installation/repair, farm/ranch	
Maxstar® 210 STR	54	●	●	●	Handles, shoulder strap, optional cart	Steel, stainless	10–210 DC	Auto-Line™ (120–480 V), digital meters	Construction, fabrication, pipe, steel erection, shipbuilding	1-&-3-Ph
CST™ 282	55	●	●	●	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	
CST™ 282 Rack	55	●	●	●	Lift eye, casters	Steel, stainless	5–280 DC	Up to 4 or 8 operators, light weight	Construction, maintenance/repair, shipbuilding	3-Ph

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

Thunderbolt® 210 See literature DC/37.0

Dependable, portable, powerful stick welder.

Portable with adjustable handle/shoulder strap. Easy to transport at only 15.5 pounds.

More powerful. Up to 85 more amps compared to leading competitive machine means you can weld thicker materials.

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

Precise, accurate, infinite amperage control and heat output.

Light industrial ● CC DC 1 Phase

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 240 V plug
- Cable pouch

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

Stock Number	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	Max. Open-Circuit Voltage	Dimensions	Net Weight
907722	240 V	25–210	210 A at 20% duty cycle	43.4	85 VDC	H: 10.5 in. (267 mm) W: 7.125 in. (181 mm) D: 13.375 in. (340 mm)	15.5 lb. (7.0 kg)

Maxstar® 161 S See literature DC/27.3

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

AUTO-LINE™ TECHNOLOGY

Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Portable with adjustable handle/shoulder strap. Easy to transport at only 13 pounds.

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

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

Adaptive Hot Start™ for stick arc starts.

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

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

Maxstar 161 S with X-CASE shown.

*Sense voltage for stick.

Industrial ● CC DC 1 Phase

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
- 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.

Stock Number 907709 907709001 With X-CASE See page 57 in the TIG section for Maxstar 161 STL and STH	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
	120 V	20–90	90 A at 23.6 V, 30% duty cycle	23.2	2.8	2.8	48 VDC (12–16 VDC*)	H: 10.3 in. (262 mm) W: 5.6 in. (142 mm) D: 13.5 in. (343 mm)	13 lb. (5.9 kg)
	240 V	20–160	160 A at 26.4 V, 20% duty cycle	22.6	5.4	5.3			

Maxstar® 210 STR
See literature DC/32.1

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

AUTO-LINE™ TECHNOLOGY Allows for any input voltage hookup (120–480 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

Dual schedule allows operators to switch between welding parameters for specific electrodes without readjusting the machine.

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

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

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

Remote amperage control.

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

Portable with adjustable shoulder strap.

Sense voltage for stick and Lift-Arc TIG.

Industrial ● CC DC 3 Phase 1 Phase

Processes
- Stick (SMAW) ▪ TIG (GTAW)

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

Most popular accessories
- 12.5 ft. (3.8 m) Weldcraft™ A-150 Valve TIG torch WP-17V-25-2 (pg 66)
- Remote Controls (pg 128)
- Air-Cooled TIG Torch Connector (pg 129)

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

Stock Number 907682 *See page 60 in the TIG section for Maxstar 210 Series*	Welding Process	Input Power	Welding Amperage Range	Rated Output at 60% Duty Cycle	Amps Input at Rated Load Output, 50/60 Hz 120 V	208 V	240 V	400 V	480 V	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
	Stick	3-phase	10–210	160 A at 26.4 V	—	15	13	8	6	5.5	5.2	80 VDC (11 VDC*)	H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 19.5 in. (495 mm)	36 lb. (16.3 kg)
		1-phase	10–210	160 A at 26.4 V	—	26	22	13	11	5.3	5.3			
		1-phase (120 V)	10–100	90 A at 23.6 V	23	—	—	—	—	2.8	2.8			
	TIG	3-phase	10–210	210 A at 18.4 V	—	14	12	7	6	5.2	4.9			
		1-phase	10–210	210 A at 18.4 V	—	24	20	12	10	4.9	4.9			
		1-phase (120 V)	10–150	125 A at 15 V	22	—	—	—	—	2.6	2.6			

CST™ 282 See literature DC/29.6

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

WIRELESS REMOTE COMPATIBLE

See page 129

CST 282 with Tweco®-style receptacles shown.

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

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

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

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.

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. Extra receptacles and wrench are sold separately as Universal Connector Kits.

Industrial ● CC DC 3 Phase 1 Phase

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 receptacles
  301595 Dinse-style receptacles
  301637 Cam-Lok-style receptacles
- For TIG torches see literature DC/29.6

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

Stock Number 907770 Tweco® 907810 Dinse	Welding Process	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz 208 V	230 V	400 V	460 V	575 V	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
	Stick	3-phase	30–280	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 in. (343 mm) W: 8 in. (203 mm) D: 18.5 in. (470 mm)	34.6 lb. (15.7 kg)
				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	200 A at 28 V, 50% duty cycle	33.7	30.65	17.61	16.18	14.51	8.3	6.6			
				150 A at 26 V, 100% duty cycle	23.07	20.59	12.97	11.8	11.15	6.4	4.5			
	TIG	3-phase	5–280	280 A at 21.2 V, 35% duty cycle	20.77	18.85	11.54	10.22	8.95	8.9	7.1	9.5 VDC		
				200 A at 18 V, 100% duty cycle	12.89	11.74	7.42	6.55	5.49	5.4	4.3			
		1-phase	5–280	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 See literature DC/29.6

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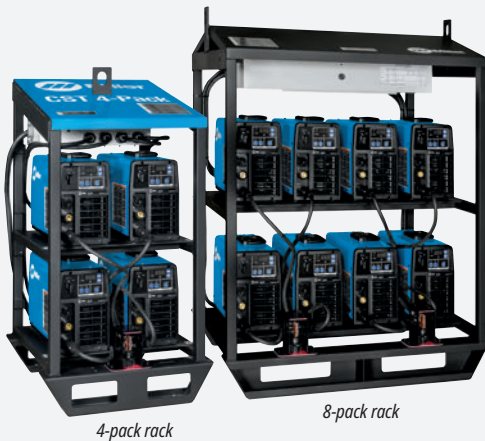
4-pack rack

8-pack rack

Note: For additional rack systems see XMT® ArcReach® Racks on page 50.

WIRELESS REMOTE COMPATIBLE

See page 129

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

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

Top cover protects machines from falling debris.

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 casters that can be bolted to the rack base. Two swivel casters and two non-swivel casters. Large 5-inch diameter wheels enable the rack to be moved over grating and driveway gravel.

Heavy industrial ● CC DC 3 Phase

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.

Model	Stock Number	Rack Capacity	Input Power to Rack	Amps Input at Rated Load Output, 50/60 Hz 230 V	460 V	575 V	KVA	KW	Dimensions (H x W x D) (Includes lift eye)	Net Weight
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 in. (1,289 x 648 x 673 mm)	330 lb. (150 kg)
8-Pack Rack	**907812** Tweco®	8 units		213	112	97	96	81.6	59.38 x 43 x 34.38 in. (1,508 x 1,092 x 873 mm)	550 lb. (250 kg)
Empty Rack	**951934**	4 units	—	—			—	—	Same as 4-pack rack above	166 lb. (75 kg)
	301610	8 units							Same as 8-pack rack above	280 lb. (127 kg)

TIG [GTAW]

Also see Multiprocess section for machines that can TIG weld.

	Product Guide	Page	Class	TIG	Pulsed TIG	Stick	CAC-A	MIG/Flux-cored	Max. Electrode Diameter E6010/11	E6013	E7018	E7024	CAC-A	Material Thickness Range (TIG)	Welding Amperage Range	Pulse Capability	Net Weight	Generator Power Requirement
DC (Steel)	Maxstar® 161	57	●	●	◉	●			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	60	●	●	◉	●			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	60	●	●	●	●	●		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	62	●	●	●	●	●		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)	Diversion™ 180	57	●	●					—	—	—	—	—	.030–3/16 in. (alum.) .025–3/16 in. (steel)	10–180 A	—	50 lb. (23 kg)	5.5 kW
	Syncrowave® 210	58	●	●	●	●		◉	5/32 in.	1/8 in.	1/8 in.	3/32 in.	—	.020–1/4 in. (aluminum/steel)	5–210 A	0.1–150 pps	133.5 lb. (61 kg)	6 kW
	Syncrowave® 300	59	●	●	●	●			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	59	●	●	●	●			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	61	●	●	●	●			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	61	●	●	●	●	●		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	62	●	●	●	●	●		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	62	●	●	●	●	●		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   Capability: ● All models   ◉ Some models
NEW! or IMPROVED! products appear in blue type.

Diversion™ 180 AC/DC TIG See literature AD/1.5

Professional-grade arc in a cost-effective package. Contains all of the features you need — simplicity combined with superior performance and value.

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

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

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

Portable. Easy to transport at 50 pounds.

*While idling.

TIG Welding Capability

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

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.

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

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.

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

Weldcraft™ A-150 torch with Diamond Grip™ provides more comfortable grip and reduces operator fatigue.

Light industrial ● CC AC/DC Phase 1

Process ▪ TIG (GTAW)

Comes with
- Power cord with MVP plugs for 120 V and 240 V
- 12.5 ft. (3.8 m) Weldcraft™ A-150 TIG torch
- 12 ft. (3.7 m) work cable with clamp
- RFCS-RJ45 remote foot control
- Flow gauge regulator with hose

Most popular accessories
- TIG Torch Accessory Kit AK2C (pg 72)
- Running Gear/Cylinder Rack 301239 (pg 122)
- Protective Cover 300579 (pg 128)
- RCCS-RJ45 Remote Fingertip Control 301146 (pg 128)
- RJ45 to 14-Pin Adapter Cord 300688
- Weldcraft™ Flexible Torch Body Kits (requires handle 105Z55R)
  A-125F (WP-9F)
  A-150F (WP-17F)

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

	Stock Number 907627	Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
AC/DC		115 V	10–125	125 A at 15 V, 35% duty cycle	26.5 (.88*)	3.1 (.1*)	3.0 (.03*)	80 VDC	H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	50 lb. (23 kg)
		230 V	10–180	150 A at 16 V, 20% duty cycle	16 (.44*)	3.7 (.1*)	3.6 (.03*)			
				180 A at 17.2 V, 10% duty cycle	20.5 (.44*)	4.7 (.1*)	4.6 (.03*)			

Maxstar® 161 STL and STH DC TIG and Stick

See literature DC/27.5

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)

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, providing convenience in any job setting.

Portable with adjustable handle/shoulder strap. Easy to transport at only 13 pounds.

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

Digital meter for more precise control.

Fan-On-Demand™ power source cooling system.

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

*Sense voltage for stick and Lift-Arc TIG.

Industrial ● CC DC Phase 1

Processes
- TIG (GTAW) ▪ Stick (SMAW)
- 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
- Quick-reference guide

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

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

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
DC	**Maxstar 161 STL** **907710** Power source only **907710001** TIG/stick package **907710002** TIG/stick package with remote fingertip control **Maxstar 161 STH** **907711** Power source only **907711001** TIG/stick package with remote fingertip control *See page 53 in the Stick section for Maxstar 161 S*	TIG	120 V	5–130	130 A at 15.2 V, 30% duty cycle	22.6	2.73	2.70	48 VDC (12–16 VDC*)	H: 10.3 in. (262 mm) W: 5.6 in. (142 mm) D: 13.5 in. (343 mm)	13 lb. (5.9 kg)
			240 V	5–160	160 A at 16.4 V, 20% duty cycle	15.05	3.62	3.49			
		Stick	120 V	20–90	90 A at 23.6 V, 30% duty cycle	23.16	2.78	2.76			
			240 V	20–160	160 A at 26.4 V, 20% duty cycle	22.55	5.41	5.25			

Syncrowave® 210
AC/DC TIG, Stick and MIG (with Spool Gun) See literature AD/4.6

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

Syncrowave 210 TIG/stick only package shown.

WIRELESS REMOTE COMPATIBLE

See page 129

Easy to use.
1) Turn power on.
2) Select the process.
3) Set amperage or voltage based on material thickness.
Then weld! It's easy as 1,2,3.

TIG Welding Capability

Max. 1/4 in. (6.4 mm)	
Steel	Aluminum
Min. 0.020 in. (0.5 mm)	

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

*With Spoolmate 150.

Comes with
- 10 ft. power cord with MVP plugs for 120 V and 240 V
- 12.5 ft. (3.8 m) Weldcraft™ A-150 TIG torch (WP1712MFDI50)
- 12 ft. (3.7 m) work cable with clamp and Dinse-style connector
- Electrode holder with Dinse-style connector
- RFCS-14 HD foot control
- Flow gauge regulator with hose
- Factory-installed running gear with EZ-Change™ low cylinder rack
- Quick-reference guide

TIG/MIG Complete package includes above plus
- Spoolmate™ 150 spool gun (301272)
- 4-14 pin connector
- Flow-thru Dinse-style connector

Most popular accessories
- 25 ft. (7.6 m) Weldcraft™ A-150 TIG Torch WP-17-25-R (pg 66)

- **TIG Torch Accessory Kit** AK2C (pg 72) Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 in.) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode
- TIG Torch Accessory Kit AK-150MFC (pg 72) Converts A-150 into 28 different torch styles while using existing cable — includes collets, collet bodies, nozzles, torch heads, handle and more
- Protective Cover 195142 (pg 128)
- RCC-14 Remote Control 151086 (pg 128)
- Wireless Remote Foot Control 301580 (pg 129)

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

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

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

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

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

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.

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

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

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

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

Auto-Set™ (MIG) automatically sets your welder to the proper parameters. Simply set the wire size, material thickness, and shielding gas and you're ready to weld with the Spoolmate™ spool gun.

	Stock Number	Input Power	Welding Process	Welding Amperage Range	Rated Output (R.M.S.) at 60% Duty Cycle	Amps Input at Rated Output	Max. Open-Circuit Voltage	Dimensions	Net Weight
AC/DC	**907596** TIG/stick only package	115 V	DC TIG	5–125	95 A at 13.8 V	17.4 (.58 while idling)	47 VDC	H: 31.5 in. (800 mm) W: 18.5 in. (470 mm) D: 43 in. (1092 mm)	TIG/stick only: 133.5 lb. (61 kg)
			AC TIG	5–125	90 A at 13.6 V	12.4 (.58 while idling)			
	951684 TIG/MIG Complete package — includes Spoolmate 150		DC stick	20–90	70 A at 22.8 V	20.5 (.58 while idling)			TIG/MIG Complete: 139.5 lb. (63 kg)
		230 V	DC TIG	5–210	125 A at 15 V	11.9 (.35 while idling)			
			AC TIG	5–210	114 A at 14.6 V	8.62 (.35 while idling)			
			DC stick	20–150	90 A at 23.6 V	11.9 (.35 while idling)			

Syncrowave® 300 and 400 AC/DC TIG and Stick

See literature AD/4.25 (300) and AD/4.28 (400)

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

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 packages include 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 123)
- 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.

TIG Welding Capability

400 Max. 5/8 in. (15.9 mm)	400 Max. 1/2 in. (12.7 mm)
300 Max. 1/2 in. (12.7 mm)	300 Max. 3/8 in. (9.5 mm)
Steel	**Aluminum**
Min. 0.012 in. (0.3 mm)	Min. 0.015 in. (0.4 mm)

WIRELESS REMOTE COMPATIBLE

See page 129

Syncrowave 300 machine only

Syncrowave 400 Complete package with foot control

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 AC or DC 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.

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

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.

*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 Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle*	Amps Input at Rated Output, 50/60 Hz					Max. Open-Circuit Voltage	Power Source Dimensions***	Power Source Net Weight***
					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	210 A at 18.4 V	16	14	7	5.9	5.5	60 VDC (13 VDC**)	H: 29.4 in. (746 mm) W: 15 in. (381 mm) D: 24.6 in. (625 mm)	101 lb. (45.8 kg)
		1-phase	5–300	210 A at 18.4 V	27	24	12	5.7	5.5			
	Stick	3-phase	5–230	160 A at 26.4 V	16	11	5	5.7	5.5			
		1-phase	5–230	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	300 A at 22 V	25	23	11	9.1	8.8	70 VDC (13 VDC**)	H: 29.4 in. (746 mm) W: 15 in. (381 mm) D: 24.6 in. (625 mm)	131 lb. (59.4 kg)
		1-phase	5–400	300 A at 22 V	43	42	20	9.7	8.9			
	Stick	3-phase	5–300	250 A at 30 V	27	24	12	9.8	9.4			
		1-phase	5–300	250 A at 30 V	47	43	21	10.4	9.5			

AC/DC

Maxstar® 210/280 Series DC TIG and Stick

See literature DC/32.1 (210) and DC/35.0 (280)

Maxstar 210   Maxstar 280 DX

WIRELESS REMOTE COMPATIBLE
See page 129

TIG Welding Capability

210 Max. 1/4 in. (6.4 mm)
Steel
210 Min. 0.002 in. (0.05 mm)
280 Max. 3/8 in. (9.5 mm)
Steel
280 Min. 0.004 in. (0.1 mm)

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 123)
- Small Runner™ Cart 301615 (pg 123)
- 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.

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 models: 120–480 V, 280 models: 208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

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

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

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

QUIETPULSE™ QuietPulse is activated by changing the waveshape for DC pulse welding 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. Simply select the feature and adjust until Pro-Set appears on the display.

Sleep timer conserves electricity. This programmable feature will power down the machine if it sits idle for a specified time.

Update and expand. Front panel memory card data port provides the ability to easily update software and expand product features.

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) feature operates the auxiliary cooling system only when needed. Reduces noise, energy use, and airborne contaminants pulled through the cooler.

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

Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	120 V	208 V	230 V	240 V	400 V	460 V	480 V	575 V	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
Maxstar 210 **907683** Power source only **Maxstar 210 DX** **907684** Power source only *See page 54 in the Stick section for Maxstar 210 STR*	TIG	3-phase	1–210	210 A at 18.4 V	—	14	—	12	7	—	6	—	5.2	4.9	80 VDC (11 VDC**)	H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 19.5 in. (495 mm)	38 lb. (17.2 kg)
		1-phase	1–210	210 A at 18.4 V	—	24	—	20	12	—	10	—	4.9	4.9			
		1-phase (120 V)	1–150	125 A at 15 V	22	—	—	—	—	—	—	—	2.6	2.6			
	Stick	3-phase	5–210	160 A at 26.4 V	—	15	—	13	8	—	6	—	5.5	5.2			
		1-phase	5–210	160 A at 26.4 V	—	26	—	22	13	—	11	—	5.3	5.3			
		1-phase (120 V)	5–100	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 *See page 45 in the Multiprocess section for Maxstar 280 Multiprocess*	TIG	3-phase	1–280	250 A at 20 V	—	21	19	—	11	9	—	7	7.6	7.3	60 VDC (11 VDC**)	H: 13.6 in. (346 mm) W: 8.6 in. (219 mm) D: 22.5 in. (569 mm)	47 lb. (21.3 kg) 50 lb. (22.7 kg) with CPS
		1-phase	1–280	250 A at 20 V	—	35	32	—	18	16	—	13	7.3	7.1			
	Stick	3-phase	5–280	250 A at 30 V	—	*	*	—	14	13	—	10	9.9	9.6			
		1-phase	5–280	180 A at 27.2 V	—	32	29	—	*	*	—	*	6.7	6.5			

Amps Input at Rated Load Output, 50/60 Hz

DC

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

See literature AD/4.81 (210) and AD/4.96 (300)

Dynasty 210

Dynasty 300

WIRELESS REMOTE COMPATIBLE

See page 129

TIG Welding Capability

210 Max. 1/4 in. (6.4 mm)	210 Max. 1/4 in. (6.4 mm)
Steel	**Aluminum**
210 Min. 0.002 in. (0.05 mm)	210 Min. 0.012 in. (0.3 mm)
300 Max. 3/8 in. (9.5 mm)	**300 Max. 3/8 in. (9.5 mm)**
Steel	**Aluminum**
300 Min. 0.004 in. (0.1 mm)	300 Min. 0.012 in. (0.3 mm)

Industrial ● CC AC/DC 3 Phase 1 Phase

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

Most popular accessories
- 2-Wheel Trolley Cart 300971 (pg 123)
- Small Runner™ Cart 301615 (pg 123)
- 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.

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, minimizing deviation from the welding procedure specification (WPS).

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 models: 120–480 V, 300 models: 208–600 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

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

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.

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.

QUIETPULSE™ QuietPulse is activated by changing the waveshape for DC pulse welding 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. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

AC waveforms (TIG) for advanced squarewave, soft squarewave, sine wave and triangular wave.

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

AC frequency (TIG) 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) feature operates the auxiliary cooling system only when needed. Reduces noise, energy use, and airborne contaminants pulled through the cooler.

AC/DC

Model/Stock Number*	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	120 V	208 V	240 V	400 V	460 V	480 V	600 V	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
Dynasty 210 **907816** Power source only **907816001** Power source w/CPS **907816002** TIGRunner w/CPS **951936** Complete w/CPS	TIG	3-phase	1–210	210 A at 18.4 V	—	16	14	8	—	7	—	5.7	5.2	80 VDC (11 VDC***)	H: 13.88 in. (352 mm) W: 8.5 in. (216 mm) D: 21.88 in. (555 mm)	47 lb. (21.3 kg) 50 lb. (22.7 kg) with CPS
		1-phase	1–210	210 A at 18.4 V	—	28	23	14	—	12	—	5.8	5.6			
		1-phase (120 V)	1–150	125 A at 15 V	26	—	—	—	—	—	—	2.8	2.7			
	Stick	3-phase	5–210	160 A at 26.4 V	—	16	14	9	—	8	—	6.0	5.8			
		1-phase	5–210	160 A at 26.4 V	—	28	24	14	—	12	—	6.4	5.5			
		1-phase (120 V)	5–100	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 *See page 45 in the Multiprocess section for Dynasty 300 Multiprocess*	TIG	3-phase	2–300 (AC) 1–300 (DC)	250 A at 20 V	—	19	16	10	8	—	7	7.5	6.6	60 VDC (11 VDC***)	H: 13.88 in. (352 mm) W: 8.5 in. (216 mm) D: 21.88 in. (555 mm)	55 lb. (25 kg) with CPS
		1-phase	2–300 (AC) 1–300 (DC)	250 A at 20 V	—	33	29	17	15	—	11	6.7	6.7			
	Stick	3-phase	5–300	250 A at 30 V	—	**	**	14	12	—	9	9.8	9.1			
		1-phase	5–300	200 A at 27.2 V	—	35	31	**	**	—	**	9.3	9.2			

Maxstar® 400 and Dynasty® 400 and 800
DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

See literature DC/24.5 (Maxstar) and AD/5.5 (Dynasty)

NEW!
Now with intuitive LCD display.

WIRELESS REMOTE COMPATIBLE
See page 129

Dynasty 400

Dynasty 800

TIG Welding Capability

Steel	Aluminum (Dynasty only)
800 Max. 1 in. (25.4 mm)	800 Max. 1 in. (25.4 mm)
400 Max. 5/8 in. (15.9 mm)	400 Max. 5/8 in. (15.9 mm)
400 Min. 0.012 in. (0.3 mm)	400 Min. 0.015 in. (0.4 mm)
800 Min. 0.020 in. (0.5 mm)	800 Min. 0.020 in. (0.5 mm)

Heavy industrial ●

CC AC/DC 3 Phase 1 Phase *Maxstar is DC only.*

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

400 models come 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
- Two thread-lock weld cable connectors

Note: Power cord is NOT included with Dynasty 800.

TIGRunner® includes above plus
- Coolmate™ 3.5
- Runner™ cart

Complete packages include above plus
- Coolant (four 1-gallon bottles)
- Wireless remote foot control
- Weldcraft™ water-cooled torch kit
  Maxstar/Dynasty 400: W-375
  Dynasty 800: W-400

Most popular accessories
- Runner™ Cart 300244 (pg 123)
- 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.

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

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

Lift-Arc™ provides AC (Dynasty only) or DC arc initiation without the use of high frequency.

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

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

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

Maxstar 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.
**See literature DC/24.5 and AD/5.5 for TIGRunner dimensions and weight.

Dynasty welders add AC TIG capabilities and the following AC features

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

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

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

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

Dynasty 400 Complete package shown.

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	Amps Input at Rated Load Output, 50/60 Hz 208 V	230 V	400 V	460 V	600 V	KVA	KW	Max. Open-Circuit Voltage	Power Source Dimensions**	Power Source Net Weight**
DC	**Maxstar 400** 907873 Power source only 907873001 TIGRunner 951000098 Complete package	TIG/stick	3-phase	3–400	300 A at 32 V	33	30	17	15	11	12	11.6	75 VDC (10–15 VDC*)	H: 24.125 in. (613 mm) W: 13.875 in. (352 mm) D: 24.313 in. (618 mm)	126 lb. (57 kg)
			1-phase	3–400	250 A at 30 V	48	43	24	20	15	10	9.2			
AC/DC	**Dynasty 400** 907858 Power source only 907858001 TIGRunner 951000002 Complete package	TIG/stick	3-phase	3–400	300 A at 32 V	36	33	19	16	12	13.1	12.5	75 VDC (10–15 VDC*)	H: 24.125 in. (613 mm) W: 13.875 in. (352 mm) D: 24.313 in. (618 mm)	126 lb. (57 kg)
			1-phase	3–400	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	600 A at 44 V	96	86	48	42	32	35	33	75 VDC (10–15 VDC*)	H: 34.25 in. (870 mm) W: 13.875 in. (352 mm) D: 24.313 in. (618 mm)	201 lb. (91 kg)
			1-phase	5–800	500 A at 40 V	136	122	66	56	42	28	26			

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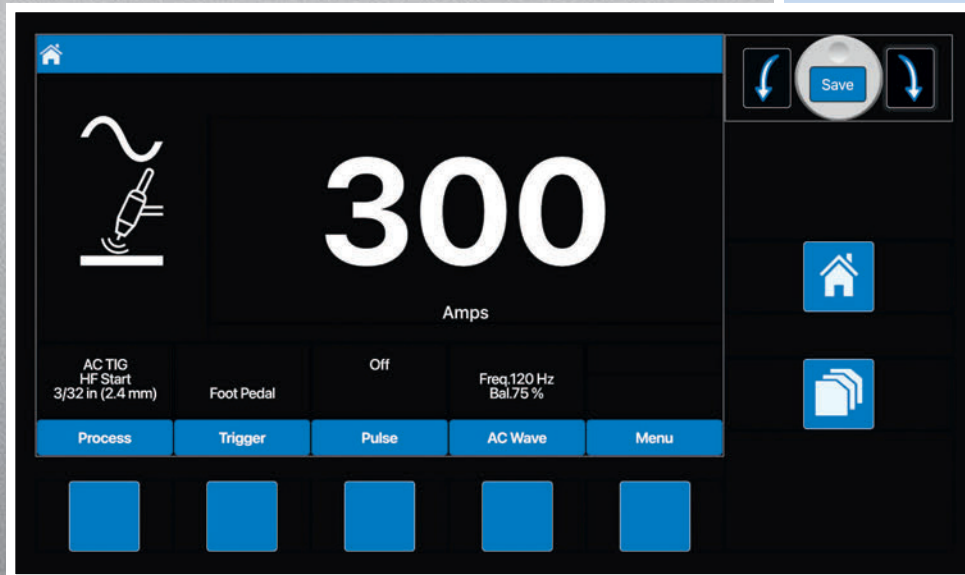
The simulator is a training tool and can be utilized for offline programming. Create a weld program on the online simulator, save it onto a USB, and plug the USB into the machine and start welding with the saved programs!

Interactive Interface Simulator | **TRY IT NOW ▶** | **TIG.MillerWelds.com/simulator**

RAISE EXPECTATIONS, NOT THE NOISE

Pulsed DC TIG welding at high pulses-per-second creates a distinctive "buzzing" sound that can be very annoying, especially in environments where there are multiple operators.

QuietPulse™ technology turns down the volume on the annoying sound that comes with pulsing so you can tune into the weld and focus on the job at hand.

Find out more at MillerWelds.com/products/quietpulse

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.

For more detailed information, visit
MillerWelds.com/tigtorches

A-150 (Air-Cooled)

W-250 (Water-Cooled)

W-125 (Specialty)

W-250 (Automation)

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.

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.

Visit now at MillerWelds.com/torchconfig

Weldcraft™ Air-Cooled Torches

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

Weldcraft™ Water-Cooled Torches

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

Weldcraft™ Specialty Torches

Specialty torches are designed to fit best in unique applications. 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 Torches

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

Process
- TIG (GTAW)

Suggested power sources
- Multimatic® 215 (pg 41) (A-150)
- Multimatic® 220 AC/DC (pg 42) (A-150)
- Multimatic® 235 (pg 43) (A-150)
- Multimatic® 255 (pg 44) (A-150)
- Maxstar® 280 Multiprocess (pg 45) (A-200, A-250, W-280)
- Dynasty® 300 Multiprocess (pg 45) (A-200, A-250, W-280)
- XMT® Series (pg 46–49) (A-200, A-250)
- CST™ 282 (pg 55) (A-250)
- Maxstar® 161 STL/STH (pg 57) (A-150)
- Syncrowave® 210 (pg 58) (A-150)
- Syncrowave® 300 (pg 59) (W-280)
- Syncrowave® 400 (pg 59) (W-375)
- Maxstar® 210 (pg 60) (A-150, W-250)
- Maxstar® 280 (pg 60) (A-200, A-250, W-280)
- Dynasty® 210 (pg 61) (A-150, W-250)
- Dynasty® 300 (pg 61) (A-200, A-250, W-280)
- Maxstar®/Dynasty® 400 (pg 62) (W-375)
- Dynasty® 800 (pg 62) (W-400)

Weldcraft™ A-80 Series See literature AY/21.0
Formerly known as WP-24 Series

A-80 Flex (WP-24F)

A-80 Flex Valve (WP-24FV)

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.

Note: Front end consumables sold separately.

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.

Model	Rubber 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Type	Rated Output	Electrode Range
A-80 Flex	WP-24F-12-R	WP-24F-25-R	Air-cooled	DC: 80 A at 60% duty cycle AC: 50 A at 60% duty cycle	.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
See literature AY/22.0

Formerly known as WP-9 Series

A-125
(WP-9)

Note: Front end consumables sold separately.

A-125
Flex Valve
(WP-9FV)

A-125
Pencil
(WP-9P)

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

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

Pencil-style model (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.

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 72)

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	Electrode Range
A-125	WP-9-12-R	WP-9-25-R	—	—	Air-cooled	DC: 125 A at 60% duty cycle AC: 100 A at 60% duty cycle	.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
See literature AY/23.0

Formerly known as WP-17 Series

A-150
(WP-17)

Note: Front end consumables sold separately.

A-150 Flex
(WP-17F)

A-150 Flex Valve
Redhead
(WP-R17FV)
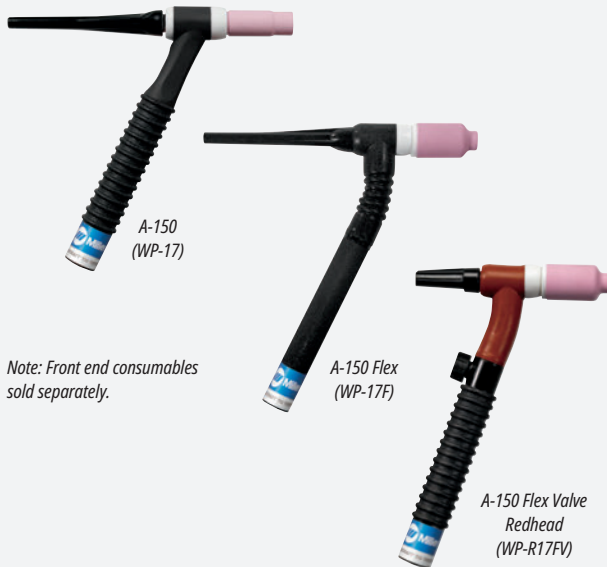
Versatile and innovative air-cooled torches designed for maximum comfort in a variety of applications.

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.

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 72)
  Converts A-150 into 28 different torch styles while using existing cable — includes collets, collet bodies, nozzles, torch heads, handle and more

Visit MillerWelds.com 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	Electrode Range
A-150	WP-17-12-R	WP-17-25-R	WP-17-12-MF	WP-17-25-MF	WP-17-12-2	WP-17-25-2	Air-cooled	DC: 150 A at 60% duty cycle AC: 115 A at 60% duty cycle	.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 See literature AY/24.0

Formerly known as WP-26 Series
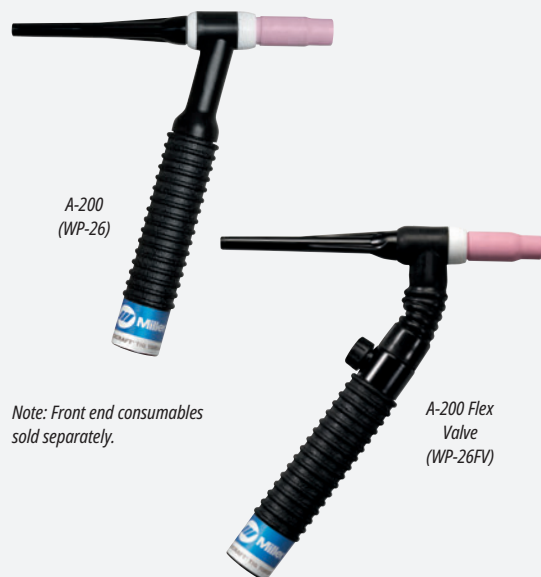
A-200 (WP-26)

Note: Front end consumables sold separately.

A-200 Flex Valve (WP-26FV)

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.

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 72)
  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 72)
  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.

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	Electrode Range
A-200	WP-26-12-R	WP-26-25-R	WP-26-12-2	WP-26-25-2	Air-cooled	DC: 200 A at 60% duty cycle AC: 150 A at 60% duty cycle	.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 See literature AY/24.5

A-250

Note: Front end consumables sold separately.

A-250 Valve

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.

Model	2-Piece Rubber, 25 ft. (7.6 m)	Type	Rated Output	Electrode Range
A-250	301525025	Air-cooled	DC: 250 A at 60% duty cycle AC: 188 A at 60% duty cycle	.020–5/32 in. (0.5–4.0 mm)
A-250 Valve	301526025			

Weldcraft™ W-180 See literature AY/26.0
Formerly known as WP-24W

Note: Front end consumables sold separately.

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

Use high amperage in confined areas for efficient welding.

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

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

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

Most popular consumables
- Collets
  - 53N16   .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	Electrode Range
W-180	WP-24W-25-R	WP-24W-25	Water-cooled	DC: 180 A at 100% duty cycle, AC: 115 A at 100% duty cycle	.020–3/32 in. (0.5–2.4 mm)

Weldcraft™ W-200 Pencil Flex See literature AY/27.0
Formerly known as WP-25

Note: Front end consumables sold separately.

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

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 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Vinyl 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-200 Pencil Flex	WP-25-12-R	WP-25-25-R	WP-25-12	WP-25-25	Water-cooled	DC: 200 A at 100% duty cycle AC: 140 A at 100% duty cycle	.020–1/8 in. (0.5–3.2 mm)

Weldcraft™ W-250 Series See literature AY/29.0
Formerly known as WP-20 Series

W-250 (WP-20)

W-250 Valve (WP-20V)

Note: Front end consumables sold separately.

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

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

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

Easy hose replacement (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 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Vinyl 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-250	WP-20-12-R	WP-20-25-R	WP-20-12	WP-20-25	Water-cooled	DC: 250 A at 100% duty cycle AC: 180 A at 100% duty cycle	.020–1/8 in. (0.5–3.2 mm)
W-250 Valve	—	—	—	WP-20V-25			

Weldcraft™ W-280 Super Cool™ See literature AY/30.0

Formerly known as WP-280

Note: Front end consumables sold separately.

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

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

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

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

Model	Braided Rubber 12.5 ft. (3.8 m)	25 ft. (7.6 m)	50 ft. (15.2 m)	Braided Rubber with 50 mm Dinse 25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-280 Super Cool	301251012	301251025	301846	301251001	Water-cooled	DC: 280 A at 100% duty cycle AC: 195 A at 100% duty cycle	.020–1/8 in. (0.5–3.2 mm)

Weldcraft™ W-375 Super Cool™ See literature AY/32.5

Note: Front end consumables sold separately.

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

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

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

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

Model	Braided Rubber 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Braided Rubber with 50 mm Dinse 25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-375 Super Cool	301253012	301253025	301253001	Water-cooled	DC: 375 A at 100% duty cycle AC: 265 A at 100% duty cycle	.020–1/8 in. (0.5–3.2 mm)

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)
- Back Caps
  - 41V33   Short
  - 41V35   Medium
  - 41V24   Long

Most popular accessories

- Cable Covers
  - WC0183 11.75 ft. (3.6 m)
  - WC0182 24.25 ft. (7.4 m)

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

Weldcraft™ W-350 Series See literature AY/32.0

Formerly known as WP-18 Series

W-350 (WP-18)

W-350 Valve (WP-18V)

Note: Front end consumables sold separately.

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

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 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Vinyl 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-350	WP-18-12-R	WP-18-25-R	WP-18-12	WP-18-25	Water-cooled	DC: 350 A at 100% duty cycle AC: 250 A at 100% duty cycle	.020–5/32 in. (0.5–4.0 mm)
W-350 Valve	—	WP-18V-25-R	—	WP-18V-25			

Weldcraft™ W-400 Super Cool™ See literature AY/33.0
Formerly known as WP-18SC

Note: Front end consumables sold separately.

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

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

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

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

Applications
- Heavy fabrication ▪ Tool and die
- Pipe and tube fabrication
- Pressure vessel fabrication

Most popular consumables
- Heavy-Duty Collets
  - 10N25HD   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

Model	Rubber, 25 ft. (7.6 m)	Vinyl, 25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-400 Super Cool	WP-18SC-25-R	WP-18SC-25	Water-cooled	DC: 400 A at 100% duty cycle, AC: 280 A at 100% duty cycle	.020–3/16 in. (0.5–4.8 mm)

Weldcraft™ Modular Series See literature AY/36.0

A-150 Modular (WP-150)

A-150 Modular Valve (WP-150V)

W-225 Modular (WP-225)

Note: Front end consumables sold separately.

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

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

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

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

Gas valve (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 72)
  - 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)	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			

Model	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)
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™ W-125 Long Micro See literature AY/25.0
Formerly known as WP-125L

Note: Front end consumables sold separately.

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

Small 5-inch torch body designed for limited-access joints.

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

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

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

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

Most popular consumables
- 90° Chucks
  - 125C40-90   .040 in. (1.0 mm)
  - 125C116-90   1/16 in. (1.6 mm)
  - 125C332-90   3/32 in. (2.4 mm)
- 90° Quartz Nozzle (all sizes) 125N90Q
  (other nozzles are available)

Model	Braided Rubber, 25 ft. (7.6 m)	Type	Rated Output	Electrode Range
W-125 Long Micro	WP-125L-25-R	Water-cooled	DC: 125 A at 100% duty cycle AC: 80 A at 100% duty cycle	.040–3/32 in. (1.0–2.4 mm)

Weldcraft™ Automation Series See literature AY/37.0

A-150 Automation (WP-23A)

W-250 Automation (WP-22A)

W-500A Automation (WP-27A)

W-500B Automation (WP-27B)

Note: Front end consumables sold separately.

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).

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

Most popular accessories
- Cable Covers
  WC-3-10 10 ft. (3 m)
  WC-3-22 22 ft. (6.7 m)
  WC-4-10 10 ft. (3 m)
  WC-4-22 22 ft. (6.7 m)

- **Air-Cooled Torch 1-Piece Power Cable Connector** (pg 129)
  195378 50 mm Dinse-style

_195377_   _225028_

- **Water-Cooled Torch 1-Piece Power Cable Connectors** (pg 129)
  195377 50 mm Dinse-style
  225028 50 mm thread-lock

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

Model	Rubber, 12.5 ft. (3.8 m)	2-Piece Rubber, 12.5 ft. (3.8 m)	Type	Rated Output	Electrode Range
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)

Model	Rubber 3 ft. (0.9 m)	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
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.

Type	Stock Number	Diameter in. (mm)	Type	Stock Number	Diameter in. (mm)
2% Ceriated (EWCe-2)			**Pure (EWP)**		
Performs well in DC welding and arc starting at low-current settings. Offers excellent performance in AC processes.	WC040X7	0.040 (1.0)	Forms a clean, balled end when heated. Provides good arc stability for AC welding with a balanced or unbalanced squarewave or sine wave.	—	0.040 (1.0)
	WC116X7	1/16 (1.6)		WP116X7	1/16 (1.6)
	WC332X7	3/32 (2.4)		WP332X7	3/32 (2.4)
	WC018X7	1/8 (3.2)		WP018X7	1/8 (3.2)
	WC532X7	5/32 (4.0)		—	5/32 (4.0)
2% Lanthanated (EWLa-2)			**Rare Earth (EWG)**		
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)	Combines the best of all alloying elements, and provides excellent arc stability in AC or DC welding.	—	0.040 (1.0)
	WL2116X7	1/16 (1.6)		WG116X7	1/16 (1.6)
	WL2332X7	3/32 (2.4)		WG332X7	3/32 (2.4)
	WL2018X7	1/8 (3.2)		WG018X7	1/8 (3.2)
	WL2532X7	5/32 (4.0)		—	5/32 (4.0)

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

Weldcraft™ TIG Torch Accessories

GL Kits (Gas Lens Kits)

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

AK3GL
For A-150 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 Long Micro. Includes one of each size (180°, 45°, 90°, 90° short) glass nozzle, and one of each size (.040, 1/16 inch) of the following: 180-degree chuck, 45-degree chuck, 90-degree chuck, and 7-inch 2% ceriated tungsten electrode.

AK-150MFC
For A-125 Series, A-150 Series and A-150 Modular Series. Allows welding operators to customize their standard A-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.

Change the welding game with the OptX handheld laser welder. Unleash the workforce's welding potential and significantly reduce the learning curve so any welder can drive output and be productive.

OptX™ 2kW Laser Welder System
See literature LS/1.0

The OptX handheld laser welder and OptX wire feeder provide consistent welding results and are ideal for precision welding applications with tight fit-up and minimal gaps where high productivity is needed.

NEW!

Highly productive

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.

OptX 2kW wire feeder is designed and manufactured specifically for the handheld laser application, providing consistent results in an industrial setting.

Easy to use

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

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.

Light industrial ● 1 Phase

Process ▪ Laser welding

Package includes
- OptX 2kW hand-held laser welder
- OptX wire feeder
- OptX laser torch
- 11-foot (3.4 m) conduit wire, steel
- 11-foot (3.4 m) conduit wire, aluminum
- 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), cleaning nozzles (set of 3), 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, .047 U-groove 4-roll drive roll kit, and trigger cable

Most popular accessories

- **OptX Cart** 301792
  Provides a sturdy foundation for your OptX handheld laser welder, OptX wire feeder and two gas bottles — plenty of storage for accessories, consumables and PPE, and rugged wheels allow for the ability to move the system around
- **Door Interlock Switch** 301804
  Includes 32 ft. (9.8 m) cable — two switches required for laser operation
- **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.

Model/Stock Number	Input Power	Output	Rated Output at 100% Duty Cycle	Amps Input at Rated Output, 50/60 Hz 240 V	KVA	KW	Material Thickness Range (Wire Autogenous)	Spot Welding Penetration Depth	Laser Welding Travel Speed	Dimensions	Net Weight
OptX 2kW Hand-Held Laser Welder Package 951000109	1-phase	2 kW	2 KW at 30°C	32	6	5.85	**Aluminum** 20 gauge–1/4 in. **Steel** 20 gauge–1/4 in. **Stainless** 20 gauge–1/4 in. **Copper** 18 gauge–1/8 in.	**Aluminum** 20 gauge–1/4 in. **Steel** 20 gauge–1/4 in. **Stainless** 20 gauge–1/4 in. **Copper** 18 gauge–1/8 in.	15–20 ipm (0.3–0.5 mpm)	H: 21 in. (533 mm) W: 12.4 in. (315 mm) D: 25.2 in. (640 mm)	140 lb. (64 kg)

OptX Wire Feeder	Input Power		Wire Feed Speed	Wire Diameter Capacity		Spool Size Capacity	Dimensions	Net Weight
	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 in. (406 mm) W: 12.375 in. (314 mm) D: 27.875 in. (708 mm)	46 lb. (21 kg)

NEWSLETTERS DELIVERED RIGHT TO YOUR INBOX

DIY – Project ideas, how-to videos, tips and more for welding do-it-yourselfers.

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.

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

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

WORK TRUCK TODAY – Resources, best practices and industry trends for work truck fleet operators and managers.

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Find videos to help you improve your skills and inspire your next project.

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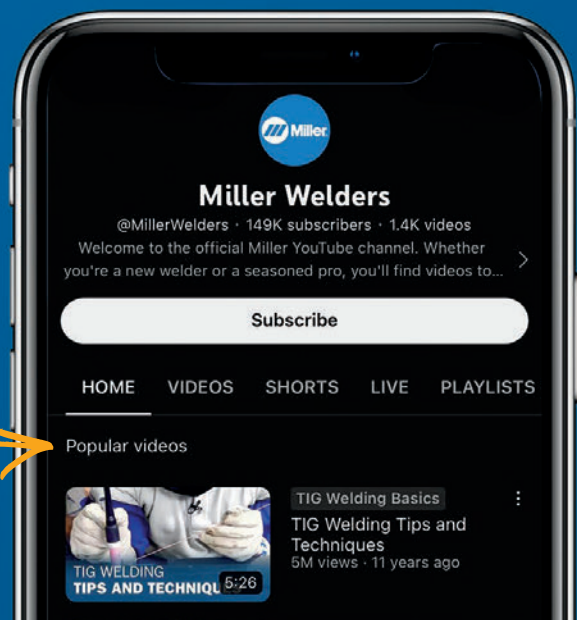
Insight Welding Intelligence™: The Total Welding Data Solution
With an Insight weld monitoring system you can get more done, produce higher-quality welds and control costs.

Insight
WELDING INTELLIGENCE™
Core | Centerpoint

Complete coverage for any application.

Manufacturing

Automation (Auto-Continuum)

14-pin products

Choose the Right Welding Intelligence System

		Insight Core™	**Insight** Centerpoint™	**Insight** ArcAgent™
For Use With	**Factory-Installed**	▪ Continuum™/Auto-Continuum™ (standard) ▪ Deltaweld® (optional)	▪ Continuum™/Auto-Continuum™ (optional) ▪ Deltaweld® (optional)	▪ ANY welding power source (old or new) ▪ ANY brand ▪ ANY welding process
	Field-Installed/Activated	▪ 14-pin compliant power source (see MillerWelds.com/insight)	▪ Deltaweld® (optional)	
Requirements		▪ Internet connection (wired/wireless)	▪ PC and Ethernet connection	▪ See Insight ArcAgent literature WI/1.0
What Capability Do You Need?		▪ Productivity monitoring ▪ Weld parameter verification ▪ Goal setting ▪ Analytic tools	▪ Ensure quality welds ▪ Reduce missed welds ▪ Minimize overwelding/underwelding ▪ Electronic work instructions	▪ Universal solution for use with Insight Centerpoint
Data Storage		▪ Cloud based	▪ Local server or PC	▪ See Insight ArcAgent literature WI/1.0

Insight Core™

Reports welding productivity from a web-based application to measure and improve your operation.

Helps you answer
- Who is your most productive operator?
- What is your most productive welder, station, cell?
- Are your quality risks increasing or decreasing?
- What are your true welding costs?

Software features

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

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

Easily install and use.
Just connect it to the internet. View secure data on any web-connected device anywhere.

Analytics tools. Business analytic tools allowing for weld data analysis based on individual/cell performance as well as overall financial terms.

Notifications. Email/text notifications based on your desired frequency and subject.

Multiple languages available.
English, German, Spanish, French, Italian, Dutch, Portuguese and Chinese.

How it works
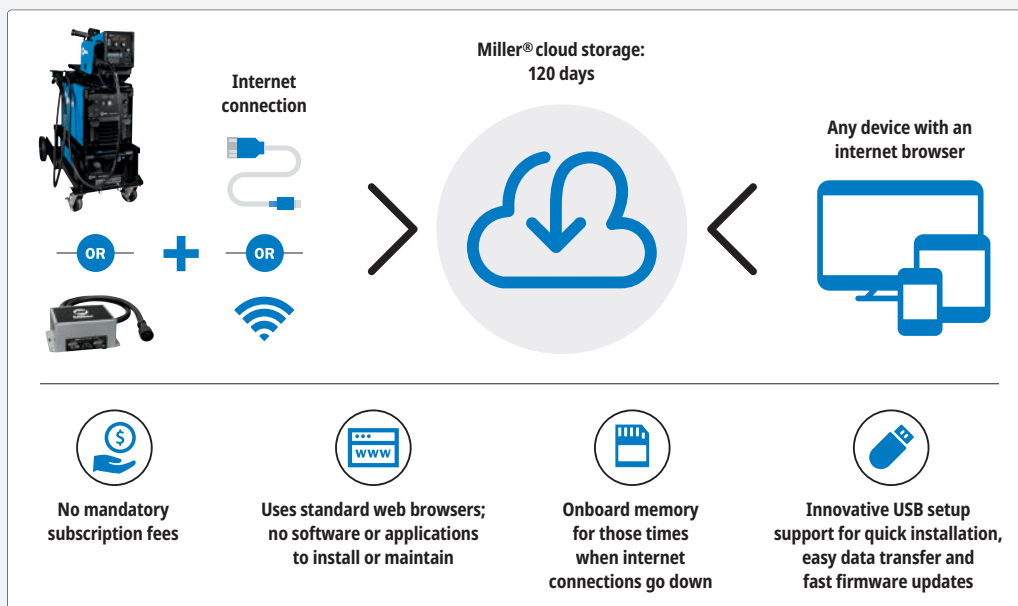
Internet connection

Miller® cloud storage: 120 days

Any device with an internet browser

OR

OR

| No mandatory subscription fees | Uses standard web browsers; no software or applications to install or maintain | Onboard memory for those times when internet connections go down | Innovative USB setup support for quick installation, easy data transfer and fast firmware updates |

For more information: *Email* **insight@MillerWelds.com**

[1] *Additional stock numbers are available — visit MillerWelds.com/insight.*
[2] *SubArc Digital Series also requires Insight Core to SubArc Digital Series Adapter Kit (301295).*

Type	Power Sources[1]			Miller 14-Pin Compliant Power Sources
Factory-Installed Insight Core	**Deltaweld® 350** **907747002** 208/230/460 V **Deltaweld® 500** **907785002** 208/230/460 V **907786002** 575 V	**Continuum™ 350** **907636** 230–575 V **Continuum™ 500** **907640** 230–575 V	**Auto-Continuum™ 350** **907656** 230–575 V **Auto-Continuum™ 500** **907657** 230–575 V	—
Field-Installed Insight Core	**Insight Module Field-Install Kit for Deltaweld** **289303**			**Requires Insight Core 14-Pin Module** **301072**[2] See MillerWelds.com/insight for a list of 14-pin compatible power sources

Insight Centerpoint™

Real-time welder feedback that provides guidance and control within the weld cell, ensuring consistent quality.

Helps you
- With productivity/utilization of welding operations
- Share weld data with IIoT solutions
- Present welders with step-by-step work instructions
- Identify the impact of non-welding activities
- Eliminate missing or poor welds

Version 10
- Designed for ease of use
- Faster start up time
- Drastically shortened learning curve

Basic mode

Premium mode

Software features

Reduce training time.
Part Tracking™ guides welders 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 your weld operation by monitoring primary parameters of every weld.

Reduce costs. Alert welders if a weld is missed or is outside of acceptable parameters, allowing it to be corrected cost-effectively.

WorkFlow™. Gain additional control with documentation through embedded videos, images, audio and other file types.

How it works

Centerpoint Local Stations

Centerpoint Configuration Stations

Centerpoint Local Station

Centerpoint Central Station

SQL Server (Optional)

MQTT

Consumer Stations
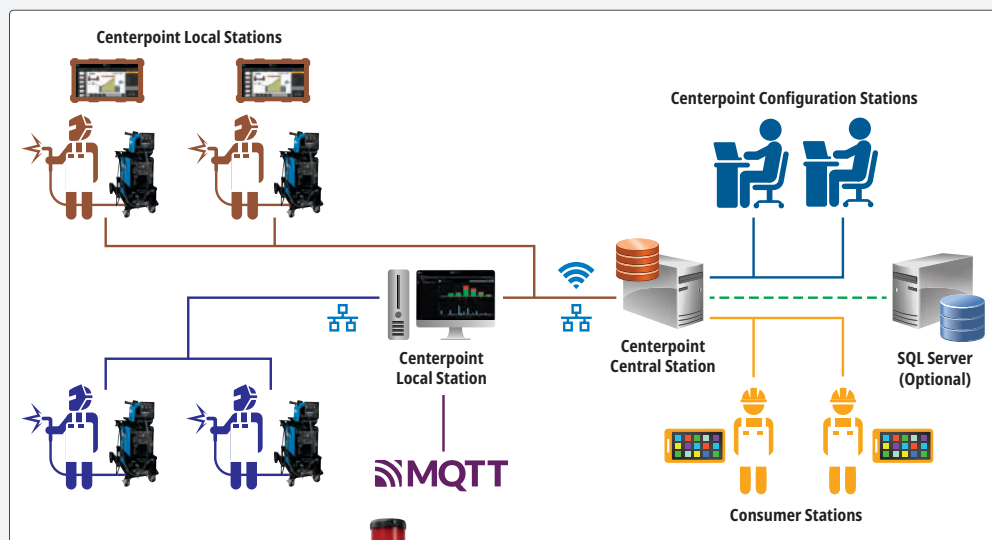
Universal brand capability

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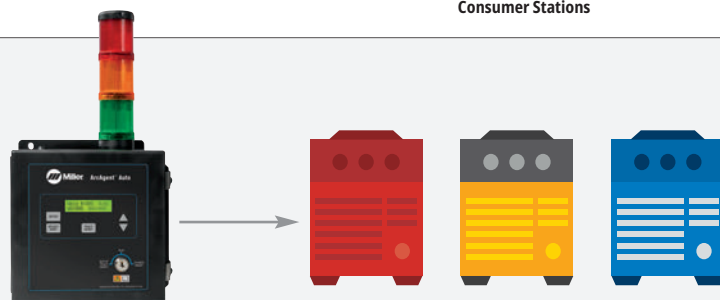
[1] *Additional stock numbers are available — visit MillerWelds.com/insight.*

Type	Power Sources[1]			Universal Adaptability (works with ALL brands/models of power sources)	Insight Centerpoint Software	Accessories	
Optional Factory-Installed Insight Centerpoint	**Deltaweld® 350** **907747002** 208/230/460 V **Deltaweld® 500** **907785002** 208/230/460 V **907786002** 575 V	**Continuum™ 350** **907636** 230–575 V **Continuum™ 500** **907640** 230–575 V	**Auto-Continuum™ 350** **907656** 230–575 V **Auto-Continuum™ 500** **907657** 230–575 V	—	**301485** Basic device mode **951809** Premium device mode	**Insight LTD Gun Q4015JS3EML** For Deltaweld and Continuum **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			

For more detailed information, visit
MillerWelds.com/enginedriven

Product Guide	Page	Class	Stick	MIG	Flux-cored*	DC TIG	PAC**	CAC-A	Portability	Weldable Metals	Continuous Auxiliary Pwr. (watts)	Welding Amperage Range	Engine Brand	Special Features	Typical Applications
Gasoline															
Fusion 185	79	● (green)	●					◎	Optional lift eye or running gear	Steel	6,200	30–185 DC	Kohler	Portable, PowerShift technology, inverter stick	Maintenance, construction, repair, service trucks
Blue Star® 185	79	● (green)	●			◎		◎				60–195 DC	Kohler	Compact	
Bobcat™ 200 Air Pak™	86	● (orange)	●	●	●	●	●		Lift eye, optional running gear or trailer	Steel, stainless, aluminum	6,500	30–210 DC	Kohler	Air compressor, battery charge/crank assist, Auto-Speed™, inverter CC/CV	Service trucks, repair, maintenance, farm/ranch
Bobcat™ 230	82	● (orange)	●	◎	◎		●			Steel, stainless, aluminum with adapters	9,500	20–230 DC	Kohler, Vanguard	Cost-effective DC stick	Maintenance, farm/ranch, construction
Bobcat™ 230 3 Phase	82	● (orange)	●	◎	◎		●				8,500	20–230 DC	Kohler	3-phase power for pivot irrigation	Farm/ranch
Bobcat™ 265 Air Pak™	87	● (orange)	●	●	●	●	●	3/16"		Steel, stainless, aluminum	9,500	20–265 DC	Kohler	Air compressor, Auto-Set™, EFI, battery charge/crank assist	Service/maintenance, construction
Trailblazer® 330	84	● (red)	●	●	●	●	●	3/16"	Lift eye, optional running gear or trailer	Steel, stainless, aluminum	10,500	20–330 DC	Kohler	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™	87	● (red)	●	●	●	●	●	3/16"			10,500	20–330 DC	Kohler	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	82	● (orange)	●	●	●	●	●	3/16"	Lift eye, optional running gear or trailer	Steel, stainless, aluminum	9,500	20–265 DC	Kohler (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	86	● (orange)	●	●	●	●	●		Lift eye, optional running gear or trailer	Steel, stainless, aluminum	6,500	30–210 DC	Kubota	Air compressor, battery charge/crank assist, Auto-Speed™, inverter CC/CV	Service trucks, repair, maintenance, farm/ranch
Trailblazer® 330 Diesel	84	● (red)	●	●	●	●	●	3/16"		Steel, stainless, aluminum	10,500	20–330 DC	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	88	● (red)	●	●	●	●	●	3/16"	Lift eye, optional trailer	Steel, stainless, aluminum with adapters	10,000	20–400 DC	CAT, Kubota, Mitsubishi	Quiet, compact, fuel efficient; optional wireless interface control, ArcReach®	Construction, repair
Big Blue® 400 PipePro®	89	● (red)	●	●	●	●	●	1/4"				20–400 DC	CAT, Mitsubishi	Wireless interface control, ArcReach®, Line-X® top cover, lift-off service door; optional stainless steel	Cross country pipeline
Big Blue® 450 Duo CST™	89	● (red)	●			●	●	3/16"			8,900	5–450 DC	Mitsubishi	Dual operator in a compact package	Construction, fabrication, pipe
Big Blue® 500 Pro	90	● (red)	●	●	●	●	●	5/16"	Lift eye, generally mounted on optional trailer	Steel, stainless, aluminum with adapters	3-ph: 20,000 1-ph: 12,000	20–500 DC	Kubota	Quiet, fuel efficient; optional ArcReach®, wireless interface control	Construction, repair
Big Blue® 600 Series	90	● (red)	●	●	●	●	●	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	91	● (red)	●	●	●	●	●	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: ● Designed for this process ◎ Capable of this process
NEW! or IMPROVED! products appear in blue type.   *If using self-shielded wire, use CV weld output.   **With appropriate Spectrum® plasma cutter.

Fusion 185 See literature ED/2.9

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.

POWER SHIFT

Work anywhere convenience. PowerShift technology provides weld capabilities using either the Fusion 185 gasoline engine or 120/240-volt utility power. You'll have the confidence of knowing that you can weld virtually anywhere with just one machine — outdoors with engine or utility power and indoors with utility power. The multi-voltage plug (MVP™) makes it easy to connect the welder to either 120- or 240-volt power.

Easier to transport. At only 242 pounds, the Fusion 185 is up to 50 pounds lighter than similar machines, so moving it is easier and faster. Less time is spent waiting, and more work can get done.

Less rework. Inverter technology delivers a smooth, stable stick arc that's forgiving of variations in arc length and travel speed, so it's easier to produce clean welds that meet specifications — and avoid the time and expense of rework.

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 ● CC DC 1 Phase

Process
- Stick (SMAW)

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

Note: Engine is warrantied 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.

Gasoline	Stock Number **907781** Kohler	Input Power	Welding Mode	Welding Process	Amperage Range	Rated Output at 104°F (40°C)	Amps Input at Rated Output, 50/60 Hz, 1-Phase	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
		Engine power	CC/DC	DC stick	30–185	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 in. (629 mm) W: 20.125 in. (511 mm) D: 31.25 in. (794 mm)	242 lb. (110 kg)
		PowerShift 120 V			30–100	90 A at 23.6 V, 40% duty cycle	22.7	—		
		PowerShift 240 V			30–185	185 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	25.0	—		

Blue Star® 185 See literature ED/2.5

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

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 ● CC DC

Processes
- Stick (SMAW) ▪ DC TIG (GTAW)

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

Note: Engine is warrantied 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.

Gasoline	Stock Number **907664** Kohler	Welding Mode	Welding Process	Amperage Range	Rated Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
		CC/DC	DC stick/TIG	60–195	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 in. (629 mm) W: 20.625 in. (524 mm) D: 31.25 in. (794 mm)	296 lb. (134 kg)

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

Bobcat: The most popular engine-driven welder
- Cost-effective multiprocess engine-driven welder
- Dependable power and weld output
- Independent welder and auxiliary power system
- Easy to maintain
- Quietest in its class

Trailblazer: The best performer in the industry
- Unbeatable arc performance
- Independent welder and auxiliary power system
- Exclusive technologies — advanced Auto-Speed™, Dynamic DIG™ and optional Excel™ power
- Most fuel efficient and quietest in its class

Fuel System	Bobcat 230 (page 82)	Bobcat 265 (page 82)	Trailblazer 330 (page 84)
Fuel Type	Gasoline	Gasoline or LP	Gasoline
Delivery	Carburetor (manual choke)	Carburetor (gas Kohler: eChoke™ / gas Vanguard and LP: 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 / TIG / MIG / FCAW / Gouge	Stick / TIG / 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 (Kohler gas models only)	Wireless interface control (option) and 14-pin

Bobcat™/Trailblazer®/Big Blue® Air Pak™ Comparison — Which is Right for You?

	Bobcat 200 Air Pak (page 86)	Bobcat 265 Air Pak (page 87)	Trailblazer 330 Air Pak (page 87)	Big Blue 600 Air Pak (page 90)	Big Blue 800 Duo Air Pak (page 91)
	Cost-effective engine-driven welder with air compressor and battery charger	Multiprocess engine-driven welder with air compressor and battery charger	Advanced multiprocess engine-driven welder with air compressor and battery charger	Quiet and powerful multiprocess engine-driven welder with air compressor	Heavy-duty, dual-operator multiprocess engine-driven welder with air compressor
Compressed Air	30 cfm, 175 psi	30 cfm, 160 psi	30 cfm, 160 psi	60 cfm, 100 psi	60 cfm, 100 psi
Battery Charge/ Crank Assist	12 and 24 volt	12 and 24 volt	12 and 24 volt	—	—
Auxiliary Power — Single-phase	Peak: 8,000 watts Continuous: 6,500 watts	Peak: 11,000 watts Continuous: 9,500 watts	Peak: 12,000 watts Continuous: 10,500 watts	Peak: 15,000 watts Continuous: 12,000 watts	Peak: 15,000 watts Continuous: 12,000 watts
Auxiliary Power — Three-phase	—	—	—	Peak: 27,000 watts Continuous: 20,000 watts	Peak: 27,000 watts Continuous: 20,000 watts
Weld Output Range	30–210 amps CC/CV, DC only	20–265 amps CC/CV, DC only	20–330 amps CC/CV, DC only	20–600 amps CC/CV, DC only	Single weld mode: 40–800 amps Dual weld mode: 20–400 amps CC/CV, DC only
Fuel Type	Gas / Diesel	Gas	Gas	Diesel	Diesel
Size	29.78 x 20 x 44.61 in. (gas) 29.75 x 20 x 47.25 in. (diesel)	27.02 x 20 x 51.88	27.02 x 20 x 51.88	46 x 28.5 x 69.5 in.	46 x 28.5 x 69.5 in.
Weight	514 lb. (gas), 618 lb. (diesel)	570 lb.	587 lb.	2,040 lb.	2,095 lb.
ArcReach®	—	—	Yes	Yes	Yes
Remote Capabilities	—	—	Wireless interface control (option)	Wireless interface control (option)	Wireless interface control (option)

LEGENDS REDEFINED

NEXT-GENERATION BOBCAT™ AND TRAILBLAZER® ENGINE-DRIVEN WELDERS

UP TO 100 LB. LIGHTER

UP TO 13% SMALLER

POWERS THRU ARCTIC BLIZZARDS AND DESERT HEAT
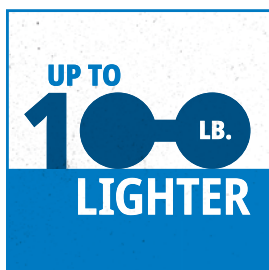
SAVE TIME WITH SIMPLE DESIGN

Bobcat™ Series Gas or LP

Bobcat 230

Bobcat 265

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

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 Kohler or Vanguard engine.

Bobcat 265 model additional features
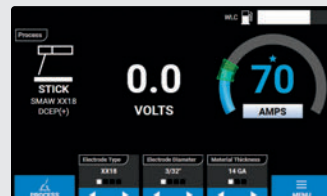
Auto-Set™ makes weld parameter setup fast, easy and accurate for operators of all skill levels.

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.
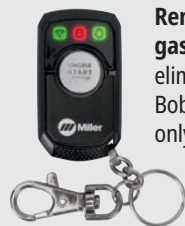
Remote start/stop (Bobcat 265 Kohler gas models only). Take control and eliminate engine noise. Easily turn your Bobcat machine on and off remotely so it only runs when you need it. Get more out of each tank, extend time between maintenance and work without the hassle of walking back to your machine.

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.

Bobcat™ 230 (Gas) See literature ED/4.45

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) See literature ED/4.47

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) See literature ED/4.46

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.

Industrial ● CC/CV DC

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)

[1] With voltage-sensing feeder.
[2] Bobcat 265 models only. Two-piece TIG torch recommended.
[3] Bobcat 265 models only.

Engines
Gas: Kohler 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: Kohler CH730
Liquid withdrawal LP system
21 hp at 3,600 rpm
Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial

Note: Engines are warrantied separately by engine manufacturer.

Most popular accessories
- ArcReach® SuitCase® Feeders (pg 14)
- Spoolmate™ 200 300497 (pg 26) (Bobcat 265 only)
- Spoolmatic® 130831 (pg 27) (Bobcat 265 only)
- ArcReach® Stick/TIG Remote (pg 51) (Bobcat 265 ArcReach model only)
- Spectrum® 625 X-TREME™ (pg 100)
- Running Gear (pg 124)
- Protective Cage with Cable Holders (pg 124)
- Hose and LP Tank Mounting Assembly (pg 124)
- Full KVA Adapter Cord 300517 (pg 124)
- Protective Cover (pg 124)
- Remote Output Panel Kit 951850 (pg 124)
- HWY-Mid Frame Trailer (pg 125)
- Remote Start/Stop Fob Replacement 286385
- Electric Fuel Pump Kit 301741 (gas models only, recommended for operation at altitudes above 5,000 ft.)
- 25 ft. Battery Charge/Jump Cables with Plug 300422 (for use with Bobcat 265 model with battery charge/crank assist)
- Spark Arrestor Kit 300924
- Screen Protector Kit 301742
- Sun Shade 301714

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

Electric fuel pump recommended for operation at altitudes above 5,000 feet. This feature is on Bobcat 265 model 907826002 and sold as a kit for other Bobcat gas models (see accessories at right).
**For LP model order Hose and LP Tank Mounting Assembly (301710) separately.

	Model	Stock Number*	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
Gasoline	**Bobcat 230**	**Non-remote start/stop model** **907824** Kohler with GFCI **907847** Vanguard with GFCI	CC/DC	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 in. (673 mm) H: 31.2 in. (792 mm) to top of exhaust W: 20.13 in. (511 mm) D: 37.06 in. (941 mm)	376 lb. (171 kg)
			CV/DC	MIG/FCAW	14–25 V	230 A at 25.5 V, 100% duty cycle			
	Bobcat 230 3 Phase	**Non-remote start/stop model** **907842** Kohler with GFCI	CC/DC	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		385 lb. (175 kg)
			CV/DC	MIG/FCAW	14–25 V	230 A at 25.5 V, 100% duty cycle			
Gas or LP	**Bobcat 265**	**907826** Kohler with GFCI **907826001** Kohler with GFCI and ArcReach® **907826002** Kohler with GFCI and battery charge/crank assist **907826003** Kohler with GFCI and electric fuel pump **Non-remote start/stop model** **907848** Vanguard with GFCI **907827**** LP Kohler with GFCI	CC/DC	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 in. (673 mm) H: 31.2 in. (792 mm) to top of exhaust W: 20.13 in. (511 mm) D: 37.06 in. (941 mm)	Gas: 382 lb. (173 kg) LP: 366 lb. (166 kg)
			CV/DC	MIG/FCAW	14–30 V	265 A at 27 V, 100% duty cycle			

Trailblazer® 330 Series Gas or Diesel

See lit. ED/4.76 (Gas) and ED/4.86 (Diesel)

Trailblazer 330

Trailblazer 330 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.

Easier mobility and uses less truck space and payload

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

No control cord needed

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

Unbeatable arc performance

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

Direct spool gun connection

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

More productive jobsites

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

Auto-Set™

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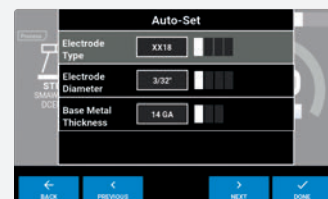
Data visibility

Productivity screens make it easier for you to monitor machine use.
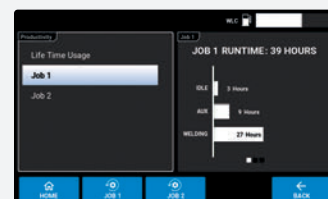
Advanced Auto-Speed™

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

Easy maintenance

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

Increased performance at high altitude

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

Options to Maximize Your Trailblazer® 330 Performance

Electronic fuel injection (EFI) (gas models)

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

Wireless interface control (WIC)

Work hassle-free with full engine-driven welder control in the palm of your hand. With wireless interface control, you can change welding processes, adjust parameters, select and save preset programs, turn the machine on/off, get service reminders and more from wherever you are on the jobsite. Extend time between fill ups and maintenance intervals while eliminating the need to go back to your machine to make adjustments.

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

≡WIRELESS
INTERFACE CONTROL

Excel™ power

Excel power delivers a full 2,400 watts (20 A) of 120-volt inverter-based, sine wave power at all speeds, including idle. Unlike competitive machines that provide auxiliary power only at 3,600 rpm (max), with Excel power you can operate jobsite tools like grinders at quiet, fuel-saving speeds.

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

UP TO **52%**
MORE FUEL EFFICIENT
WITH EXCEL POWER
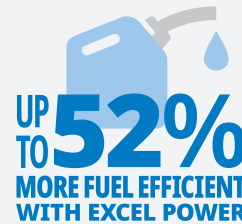
Based on only auxiliary-power-only use for total runtime.

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.

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)

[1] With wire feeder.
[2] Two-piece TIG torch recommended.

Engines
Gas: Kohler CH730
23.5 hp at 3,600 rpm
EFI gas: Kohler 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 warrantied separately by engine manufacturer.

Most popular accessories
- SuitCase® Feeders (pg 14/51)
- Spoolmate™ 200 300497 (pg 26)
- Spoolmatic® 130831 (pg 27)
- ArcReach® Stick/TIG Remote (pg 51)
- ArcReach® Heater (pg 51/98)
- Spectrum® 625 X-TREME™ (pg 100)
- Running Gear (pg 124)
- Protective Cage with Cable Holders (pg 124)
- Full KVA Adapter Cord (pg 124)
- Protective Cover (pg 124)
- Remote Output Panel Kit 951850 (pg 124)
- HWY-Mid Frame Trailer (pg 125)
- Electric Fuel Pump Kit 301741 (gas models only, recommended for operation at altitudes above 5,000 ft.)
- 25 ft. Battery Charge/Jump Cables with Plug 300422 (for use with Trailblazer models with battery charge/crank assist)
- Spark Arrestor Kit
  300924 Gas
  043579 Diesel
- Wireless Interface Control Screen Protectors 287594 (5 pack)
- Screen Protector Kit 301742
- Sun Shade 301714

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

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

	Model	Stock Number*		Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
Gas	Trailblazer 330	907831	Kohler with GFCI	CC/DC	Stick/TIG	20–330 A	330 A at 30 V, 100% duty cycle	Peak: 12,000 watts Continuous: 10,500 watts **Excel power (optional) 2,400 watts** 20 A at 120 V, 60 Hz auxiliary power at idle speed and while welding	H: 26.5 in. (673 mm) H: 31.2 in. (792 mm) to top of exhaust W: 20.13 in. (511 mm) D: 37.06 in. (941 mm)	400 lb. (181 kg)
		907831001	Kohler with Excel power							
		907832	**EFI** Kohler with GFCI							
		907832001	**EFI** Kohler with Excel power							
		907832002	**EFI** Kohler with Excel power and WIC							
		907832003	**EFI** Kohler with Excel power and battery charge/crank assist	CV/DC	MIG/FCAW	15–40 V	325 A at 30.25 V, 100% duty cycle			
		907832004	**EFI** Kohler w/Excel power, battery charge/crank assist and WIC							
		907832005	**EFI** Kohler with Excel power and polarity reversing							
		907832006	**EFI** Kohler with Excel power, polarity reversing and WIC							
Diesel	Trailblazer 330 Diesel	907849	Kubota with GFCI	CC/DC	Stick/TIG	20–330 A	330 A at 31 V, 100% duty cycle		H: 27.02 in. (686 mm) H: 32.41 in. (823 mm) to top of exhaust W: 20.6 in. (523 mm) D: 45.72 in. (1,161 mm)	611 lb. (277 kg)
		907849001	Kubota with Excel power							
		907849002	Kubota with Excel power and WIC							
		907849003	Kubota with Excel power and battery charge/crank assist	CV/DC	MIG/FCAW	15–40 V	330 A at 30.5 V, 100% duty cycle			
		907849004	Kubota with Excel power, polarity reversing and WIC							

Bobcat™ 200 Air Pak™ Gas or Diesel See literature ED/4.36

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

Bobcat 200 Air Pak (gas)

Bobcat 200 Air Pak Diesel

Industrial ● CC/CV DC

Process
- 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: Kohler 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 warrantied separately by engine manufacturer.

Most popular accessories
- ArcReach® SuitCase® Feeders (pg 14)
- Spoolmate™ 200 300497 (pg 26)
- Spoolmatic® 130831 (pg 27)
- Spectrum® 375 X-TREME™ (pg 100)
- Full KVA Adapter Cord 300517 (pg 124)
- Protective Cover (pg 124)
  301475 Gas without running gear
  301531 Diesel without running gear
- Remote Output Panel Kit 951850 (pg 124)
- HWY-Mid Frame Trailer 301438 (pg 125)
- 25 ft. Battery Charge/Jump Cables with Plug 300422
- 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.

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 by the compressor 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.

	Model/Stock Number	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
Gasoline	Bobcat 200 Air Pak 907771 Kohler	CC/DC	DC stick/TIG	30–210 A	120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle	Peak: 8,000 watts Continuous: 6,500 watts	H: 24.25 in. (616 mm) H: 29.78 in. (756 mm) to top of exhaust W: 20 in. (508 mm) D: 44.61 in. (1,133 mm)	514 lb. (233 kg)
		CV/DC	MIG/FCAW	15–25 V	120 A at 20 V, 100% duty cycle 140 A at 21 V, 60% duty cycle 210 A at 25 V, 20% duty cycle			
Diesel	Bobcat 200 Air Pak Diesel 907760 Kubota	CC/DC	DC stick/TIG	30–210 A	120 A at 25 V, 100% duty cycle 140 A at 26 V, 60% duty cycle 210 A at 28 V, 20% duty cycle	Peak: 8,000 watts Continuous: 6,500 watts	H: 28.875 in. (734 mm) H: 29.75 in. (756 mm) to top of exhaust W: 20 in. (508 mm) D: 47.25 in. (1,200 mm)	618 lb. (280 kg)
		CV/DC	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 m³/min.) at 3,600 rpm	80–175 psig	100%	2 qt. (1.89 L)

Bobcat™ 265 Air Pak™ See literature ED/4.48

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

NEW!

Bobcat 265 benefits and technology. Equipped with all the standard technology of the Bobcat 265 (gas) models with the addition of an air compressor.

Strongest combined auxiliary/compressor power. Delivers an industry-leading 11,000 watts of peak auxiliary power independent of weld settings.

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

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

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

Heavy industrial ● CC CV DC

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)

[1] With wire feeder.
[2] Two-piece TIG torch recommended.

Gasoline engine
Kohler ECH749: 27 hp at 3,600 rpm
Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial

Note: Engine is warrantied separately by engine manufacturer.

Most popular accessories
- ArcReach® SuitCase® Feeders (pg 14)
- Spoolmate™ 200 300497 (pg 26)
- Spoolmatic® 130831 (pg 27)
- Spectrum® 625 X-TREME™ (pg 100)
- Protective Cover 301730 (pg 124)
- 25 ft. Battery Charge/Jump Cables with Plug 300422

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

Gasoline	Stock Number 907876 Kohler with GFCI	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
		CC/DC	Stick/TIG	20–265 A	244 A at 29.8 V, 100% duty cycle	Peak: 11,000 watts Continuous: 9,500 watts	H: 27.02 in. (686 mm) H: 31 in. (787 mm) to top of exhaust W: 20.46 in. (520 mm) D: 51.88 in. (1,318 mm)	570 lb. (259 kg)
		CV/DC	MIG/FCAW	14–30 V	260 A at 27 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 m³/min.) at 3,600 rpm	80–160 psig	100%	1.75 qt. (1.7 L)

Trailblazer® 330 Air Pak™ See literature ED/4.79

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

Trailblazer 330 benefits and technology. Equipped with all the standard technology of the Trailblazer 330 (gas) models with the addition of an air compressor.

Strongest combined auxiliary/compressor power. Delivers an industry-leading 12,000 watts of peak auxiliary power independent of weld settings.

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

Battery charge/crank assist. Provides up to 150 amps of DC current to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 300 amps of crank assist.
Note: Battery charge/jump cables (300422) must be ordered separately.

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

Heavy industrial ● CC CV DC

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, capable 1/4 in. carbons)

[1] With wire feeder.
[2] Two-piece TIG torch recommended.

Gasoline engine
Kohler CH749: 27 hp at 3,600 rpm
Twin-cylinder, four-cycle, overhead valve, air-cooled, industrial

Note: Engine is warrantied separately by engine manufacturer.

Most popular accessories
- SuitCase® Feeders (pg 14/51)
- Spoolmate™ 200 300497 (pg 26)
- Spoolmatic® 130831 (pg 27)
- ArcReach® Stick/TIG Remote (pg 51)
- ArcReach® Heater (pg 51/98)
- Spectrum® 625 X-TREME™ (pg 100)
- Protective Cover 301730 (pg 124)
- 25 ft. Battery Charge/Jump Cables with Plug 300422

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

Gasoline	Stock Number 907836 Kohler with GFCI 907836001 Kohler with GFCI and WIC 907836002 Kohler with GFCI and cooler/separator 907836003 Kohler with GFCI, cooler/separator and WIC	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
		CC/DC	Stick/TIG	20–330 A	314 A at 32.5 V, 100% duty cycle	Peak: 12,000 watts Continuous: 10,500 watts	H: 27.02 in. (686 mm) H: 31 in. (787 mm) to top of exhaust W: 20.46 in. (520 mm) D: 51.88 in. (1,318 mm)	587 lb. (266 kg)
		CV/DC	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 m³/min.) at 3,600 rpm	80–160 psig	100%	1.75 qt. (1.7 L)

Big Blue® 400 Pro See literature ED/5.7

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.

Wireless interface control (WIC) optional on select models.

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. Factory-installed option on select models.

WIRELESS INTERFACE CONTROL
Work hassle-free with full engine-driven welder control in the palm of your hand. Factory-installed option on select models.

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.

Industrial USB port. Upload the latest software and download machine 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 ● CC/CV DC

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

[1] With wire feeder.
[2] ArcReach models only with ArcReach Smart Feeder.

Diesel engines
EPA Tier 4 Final choices
Caterpillar C1.5T: 24.7 hp at 1,800 rpm Turbo-charged, three-cylinder, liquid-cooled, industrial
Kubota V1505: 20.2 hp at 1,800 rpm Four-cylinder, liquid-cooled, industrial
Mitsubishi S4L2: 24.7 hp at 1,800 rpm Four-cylinder, liquid-cooled, industrial
Note: Engines are warrantied separately by engine manufacturer.

Most popular accessories
- SuitCase® Feeders (pg 14/51)
- ArcReach® Smart Feeder (pg 14/51)[3]
- Protective Cover 195301 (pg 124)

[3] For ArcReach models only.
Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Diesel

Stock Number	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
907774 CAT **907774001** CAT with ArcReach **907732** Kubota **907732001** Kubota with ArcReach **907732013** Kubota with ArcReach and WIC **907733** Mitsubishi **907733001** Mitsubishi with ArcReach	CC/DC	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	Peak: 12,000 watts Continuous: 10,000 watts	H: 32 in. (813 mm) H: 37 in. (876 mm) to top of exhaust W: 26.25 in. (667 mm) D: 56 in. (1,422 mm)	CAT: 1,010 lb. (458 kg) Kubota: 950 lb. (431 kg) Mitsubishi: 993 lb. (450 kg)
	CV/DC	MIG/FCAW	14–40 V				

LEAVE A REVIEW

Help Your Fellow Welders Select The Right Welding Equipment

Reviews are written and submitted by people who have purchased and used Miller® equipment. If you'd like to share your experience, consider writing a review. Simply visit the product page and click on **"Write a Review"**.

Visit now at MillerWelds.com

Big Blue® 400 PipePro® See literature ED/5.8

Designed for the transmission pipeline welder — the Big Blue 400 PipePro, with wireless interface control standard, offers superior downhill stick arc characteristics, as well as MIG/flux-cored capabilities, to meet high-strength steel requirements for the most demanding pipeline jobs.

Wireless interface control (WIC) standard on all models.

WIRELESS INTERFACE CONTROL

Elevate your performance. Now get full control of your machine in the palm of your hand. Change welding processes, adjust parameters, select and save preset programs, turn the machine on/off, and more. Standard on all models.

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. Standard on all models.

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.

Industrial USB port. Upload the latest software and download machine 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. Also available with optional stainless steel enclosure.

Heavy industrial ● CC/CV DC

Processes
- Stick (SMAW) ■ MIG (GMAW)[1]
- Flux-cored (FCAW)[1] ■ DC TIG (GTAW)
- RMD®[2] ■ Pulsed MIG (GMAW-P)[2]
- Air carbon arc cutting and gouging (CAC-A) (rated 1/4 in. carbons)

[1] With wire feeder.
[2] With ArcReach Smart Feeder.

Diesel engines
EPA Tier 4 Final choices
Caterpillar C1.5T: 24.7 hp at 1,800 rpm Turbo-charged, three-cylinder, liquid-cooled, industrial
Mitsubishi S4L2: 24.7 hp at 1,800 rpm Four-cylinder, liquid-cooled, industrial

Note: Engines are warrantied separately by engine manufacturer.

Most popular accessories
- SuitCase® Feeders (pg 14/51)
- ArcReach® Smart Feeder (pg 14/51)
- ArcReach® Stick/TIG Remote (pg 51)
- ArcReach® Heater (pg 51/98)
- Dynasty® 210 Series (pg 61)
- Full KVA Adapter Cord 300517 (pg 124)
- Single-Phase Full KVA Plug Kit 119172 (pg 124)
- Protective Cover 195301 (pg 124)
- Remote Output Panel Kit 951850 (pg 124)
- HWY-Mid Frame Trailer (pg 125)
- Wireless Interface Control Screen Protectors 287594 (5 pack)

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

Diesel	Stock Number	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
	907806001 CAT **907806** CAT w/stainless steel **907805001** Mitsubishi **907805** Mitsubishi w/stainless steel	CC/DC	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	Peak: 12,000 watts Continuous: 10,000 watts	H: 32 in. (813 mm) H: 37 in. (876 mm) to top of exhaust W: 26.25 in. (667 mm) D: 56 in. (1,422 mm)	CAT: 1,038 lb. (471 kg) Mitsubishi: 993 lb. (450 kg)
		CV/DC	MIG/FCAW	14–40 V				

Big Blue® 450 Duo CST™ See literature ED/5.5

Durable 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.

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. Improves jobsite communication and safety.

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.

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

Remote amperage control permits the use of standard and wireless amperage control devices.

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

Heavy industrial ● CC DC

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

Diesel engine
EPA Tier 4 Final
Mitsubishi S4L2: 24.7 hp at 1,800 rpm Four-cylinder, liquid-cooled, industrial

Note: Engine is warrantied separately by engine manufacturer.

Most popular accessories
- Full KVA Adapter Cord 300517 (pg 124)
- Single-Phase Full KVA Plug Kit 119172 (pg 124)
- Protective Cover 195301 (pg 124)
- HWY-Mid Frame Trailer 301438 (pg 125)
- Wireless Remote Hand Control 301582 (pg 129)

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

Diesel	Stock Number	Process	Output Mode	Amperage Range	Rated Output at 122°F (50°C)	Single-Phase Auxiliary Power at 122°F (50°C)	Dimensions	Net Weight
	907866 Mitsubishi	DC stick/TIG	Separate (dual outputs)	5–225 (each side) 5–280 (one side only)	175 A at 27 V, 100% duty cycle	Peak: 10,500 watts Continuous: 8,900 watts	H: 32 in. (813 mm) H: 37 in. (876 mm) to top of exhaust W: 26.25 in. (667 mm) D: 56 in. (1,422 mm)	1,064 lb. (483 kg)
			Paralleled (combined)	10–450	350 A at 27 V, 100% duty cycle			

Big Blue® 500 Pro and 600 Series

See literature ED/11.0 (500) and ED/11.5 (600)

Clean, quiet, multiprocess machines designed to give welders the output they need for heavy-duty applications in fabrication and on construction sites.

Big Blue 500 and 600 Pro

Big Blue 600 Air Pak

Wireless interface control (WIC) optional on select models.

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. Standard on all Deluxe and Air Pak™ models.

WIRELESS INTERFACE CONTROL

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

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.

Diesel engines
EPA Tier 4 Final choices
500 and 600 Pro: Kubota V2403
48.9 hp at 1,800 rpm
Turbo-charged, four-cylinder, liquid-cooled, industrial
600 Air Pak: Deutz TD2.9 L4
65.7 hp at 1,800 rpm
Turbo-charged, four-cylinder, liquid-cooled, industrial

Note: Engines are warrantied separately by engine manufacturer.

Most popular accessories
- SuitCase® Feeders (pg 14/51)
- ArcReach® Smart Feeder (pg 14/51)[3]
- ArcReach® Stick/TIG Remote (pg 51)[3]
- ArcReach® Heater (pg 51/98)[3]
- Dynasty 210® Series (pg 61)
- Full KVA Adapter Cord (pg 124)
- Full KVA Plug Kit (pg 124)
- Protective Cover (pg 124)
  301495 Kubota
  301113 Deutz
- Remote Output Panel Kit 951850 (pg 124)
- HWY-225 Trailer 301338 (pg 125)
- Desiccant Air Dry System (for 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
- Cold Weather Kit 301482
- Spark Arrestor Kit 195012
- Wireless Interface Control Screen Protectors 287594 (5 pack)

[3] For ArcReach models only.

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

Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts, and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing.

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.

Industrial USB port. Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

20,000 watts of auxiliary power. Plug in Miller® inverter-based power sources for additional welding arcs.

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

Deluxe and Air Pak™ models add ArcReach technology, polarity reversing switch and vandalism lockout kit (protects control panel and receptacles).

Ingersoll Rand ultra-reliable industrial rotary screw compressor (Air Pak™ model only). 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air —allows greater fuel savings and longer compressor service intervals.

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

	Model/Stock Number	Welding Mode/Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Auxiliary Power at 104°F (40°C)	Dimensions	Net Weight
Diesel	**Big Blue 500 Pro** 907736 Kubota 907736001 Kubota Deluxe model 907736008 Kubota Deluxe model with WIC	CC/DC (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 in. (1,168 mm) H: 53.5 in. (1,359 mm) to top of exhaust W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)	1,750 lb. (794 kg)
		CV/DC (MIG/FCAW)	15–50 V				
	Big Blue 600 Pro* 907737 Kubota 907737001 Kubota Deluxe model **Big Blue 600 Air Pak*** 907750 Deutz	CC/DC (Stick/TIG)	20–600 A	600 Pro: 500 A at 40 V, 100% duty cycle 550 A at 42 V, 60% duty cycle 600 A at 42 V, 40% duty cycle 600 Air Pak: 500 A at 40 V, 100% duty cycle 575 A at 43 V, 100% duty cycle 600 A at 44 V, 60% duty cycle	Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts	H: 46 in. (1,168 mm) H: 53.5 in. (1,359 mm) to top of exhaust W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)	600 Pro: 1,750 lb. (794 kg) 600 Air Pak: 2,040 lb. (925 kg)
		CV/DC (MIG/FCAW)	15–50 V				

Air Compressor (Air Pak model only)	Features	Free Air Delivery	Working Pressure Constant	Duty Cycle	Oil Capacity
Ingersoll Rand CE55 G1	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 m³/min.) Weld: 60 cfm (1.70 m³/min.)	100 psig (7 bar)	100%	4 qt. (3.79 L)

Big Blue® 800 Series
See literature ED/14.0

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

Wireless interface control (WIC) optional on select models.

Big Blue 800 Duo Air Pak

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. Standard on all models.

WIRELESS INTERFACE CONTROL

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

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 additional inverters for a true multioperator work platform! Example: Two additional XMT® machines equals four operators, up to 200 amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multioperator welding has never been easier or more versatile.

Increased efficiency. More arcs and better fuel economy equal increased profits for your business. Estimated savings are 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 simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing. Air Pak model adds air pressure and compressor hours displays.

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.

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

20,000 watts of auxiliary power. Plug in Miller® inverter-based power sources for additional welding arcs.

Other features include digital meters with SunVision™, automatic idle, 120-volt block heater and vandalism lockout kit (protects control panel and receptacles).

Ingersoll Rand ultra-reliable industrial rotary screw compressor (Air Pak™ model only). 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air — allows greater fuel savings and longer compressor service intervals.

Heavy industrial

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

[1] With wire feeder.
[2] With ArcReach Smart Feeder.

Diesel engine
EPA Tier 4 Final
Deutz TD2.9 L4: 65.7 hp at 1,800 rpm
Turbo-charged, four-cylinder, liquid-cooled, industrial

Note: Engines are warrantied separately by engine manufacturer.

Most popular accessories
- SuitCase® Feeders (pg 14/51)
- ArcReach® Smart Feeder (pg 14/51)
- ArcReach® Stick/TIG Remote (pg 51)
- ArcReach® Heater (pg 51/98)
- Dynasty 210® Series (pg 61)
- Full KVA Adapter Cord 300517 (pg 124)
- Full KVA Plug Kit (pg 124)
   119172 Single-phase
   254140 Three-phase
- Protective Cover 301113 (pg 124)
- Remote Output Panel Kit 951850 (pg 124)
- HWY-225 Trailer 301338 (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
- Cold Weather Kit 301482
- Spark Arrestor Kit 195012
- Wireless Interface Control Screen Protectors 287594 (5 pack)

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

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

Model/Stock Number* Big Blue 800 Duo Pro 907751 Deutz Big Blue 800 Duo Air Pak 907752 Deutz 907752003 Deutz with WIC	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	Net Weight
	CC/DC (Stick/TIG)	Separate (dual outputs)	20–400 A	400 A at 36 V (each side)	Three-phase Peak: 27,000 watts Continuous: 20,000 watts Single-phase Peak: 15,000 watts Continuous: 12,000 watts	H: 46 in. (1,168 mm) H: 53.5 in. (1,359 mm) to top of exhaust W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)	Duo Pro: 1,869 lb. (848 kg) Duo Air Pak: 2,095 lb. (968 kg)
		Paralleled (combined)	40–800 A	700 A at 44 V, 800 A at 38 V			
	CV/DC (MIG/FCAW)	Separate (dual outputs)	15–50 V	400 A at 34 V (each side)			
		Paralleled (combined)	15–50 V	750 A at 40 V, 800 A at 38 V			

Air Compressor (Air Pak model only)	Features	Free Air Delivery	Working Pressure Constant	Duty Cycle	Oil Capacity
Ingersoll Rand CE55 G1	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 m³/min.) Weld: 60 cfm (1.70 m³/min.)	100 psig (7 bar)	100%	4 qt. (3.79 L)

Diesel

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

SubArc Digital Series *See literature AD/7.3*

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

Heavy industrial ●

CC/CV AC/DC DC 3 Phase *SubArc DC Series is DC only.*

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

Most popular accessories
- 14-pin Insight Core™ Module 301072 (pg 76)
  Requires Insight Core to SubArc Digital Series Adapter Kit (301295)
- Insight ArcAgent™ Auto 301346 (pg 77)
- 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.

SubArc AC/DC Digital

SubArc DC 1000 Digital

SubArc DC 650 Digital

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™.

*While idling.

Model/Stock Number	Amperage Range (CC Mode)	Voltage Range (Sub Arc Mode)	Rated Output	Amps Input at Rated Output, 60 Hz					Max Open-Circuit Voltage	Dimensions *(Includes lift eye, but not strain relief)*	Net Weight
				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, 100% duty cycle	126 3.8*	63 1.9*	50.4 1.4*	50 1.52*	34.8 0.76*	75 Vpk	H: 30 in. (762 mm) W: 23 in. (584 mm) D: 38 in. (965 mm)	593 lb. (269 kg)
SubArc DC 1000 Digital 907624 230/460/575 V	100–1,250 A	20–44 V	1,000 A at 44 V, 100% duty cycle	180 5.8*	90 2.9*	72 2.4*	73 3.2*	53 0.5*	68 Vpk		682 lb. (309 kg)
SubArc AC/DC Digital 907620 460 V	300–1,250 A	20–44 V	1,000 A at 44 V, 100% duty cycle	— —	122 3.0*	— —	98 2.37*	53 0.95*	93 Vpk	H: 43 in. (1,092 mm) W: 28 in. (711 mm) D: 48 in. (1,219 mm)	1,187 lb. (538 kg)

SubArc Interface Digital Control
See literature no. AD/7.3

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 Number	Input Power from Welding Power Source	Welding Power Source Type	Weld Voltage and Amperage Capacity	Dimensions	Net Weight
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	H: 11.5 in. (292 mm) W: 12 in. (305 mm) D: 7 in. (178 mm)	15.8 lb. (7.2 kg)

SubArc Remote Operator Interface
See literature AD/7.3

Motor Control Digital

Remote Pendant Digital

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

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

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

Most popular accessories

- 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.

Model/Stock Number	Input Power from Welding Power Source	Welding Power Source Type	Weld Voltage and Amperage Capacity	Dimensions	Net Weight
SubArc Motor Control Digital **301425** Requires SubArc Remote Pendant Digital below and Continuum control/motor cable	24 VAC, 1-phase, 25 A, 50/60 Hz	Constant voltage (CV), AC or DC, with remote contactor and output control capabilities	0–100 V 0–1,500 A	H: 11.5 in. (292 mm) W: 12 in. (305 mm) D: 7 in. (178 mm)	15.8 lb. (7.2 kg)
SubArc Remote Pendant Digital **301424** Requires SubArc Motor Control Digital above and Continuum control/motor cable	42 VDC, 1 A			H: 11 in. (279 mm) W: 10.63 in. (270 mm) D: 3.125 in. (80 mm)	3 lb. (1.4 kg)

TO THE CORE
Strip everything away and you'll see just how much the filler metal matters.

HOBART FILLER METALS
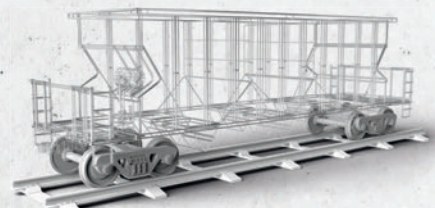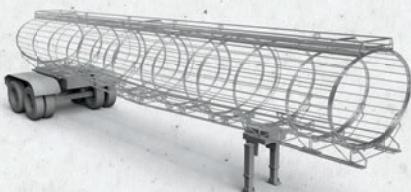
SubArc Wire Drives Digital Low Voltage *See literature AD/7.3*
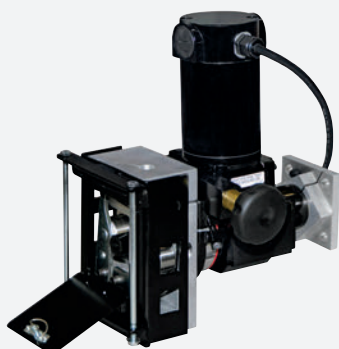
SubArc Wire Drive 400 Digital Low Voltage is a standard-speed, right-angle wire drive assembly.

SubArc Wire Drive 200 Digital Low Voltage is a low-speed, right-angle wire drive assembly.

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 Number	Input Power	Input Power Cord	Rating	Wire Feed Speed	Wire Diameter Capacity	Net Weight
SubArc Wire Drive 400 Digital Low Voltage	300938	38 VDC	4 ft. (1.2 m)	1/5 hp, 85 rpm	30–400 ipm (0.8–10.2 m/min.)	3/32–3/16 in. (2.4–4.8 mm)	26 lb. (11.8 kg)
SubArc Wire Drive 200 Digital Low Voltage	301596			1/5 hp, 42 rpm	20–200 ipm (0.5–5.1 m/min.)	1/16–3/16 in. (1.6–4.8 mm)	

SubArc Torches *See literature AD/7.3*

OBT 600 torch has concentric flux flow nozzle. 600 amps at 100 percent duty cycle. For use with 1/16–5/32 inch (1.6–4.0 mm) wire.

OBT 1200 torch has concentric flux flow nozzle. 1,200 amps at 100 percent duty cycle. For use with 1/16–5/32 inch (1.6–4.0 mm) wire. OBT 1200 features a replaceable breakaway adapter end to prevent costly damage should torch run into an obstruction.

1200-Amp Twin-Wire Torch (long). 1,200 amps at 100 percent duty cycle. For use with 3/64–3/32 inch (1.2–2.4 mm) wire.

OBT 600   *OBT 1200*   *1200-Amp Twin-Wire*

Most popular accessories

- OBT 600 Torch Body Extensions (pg 127)
  043967 1 inch (25.4 mm)
  043969 2 inch (50.8 mm)
  043973 4 inch (101.6 mm)
  043975 6 inch (152.4 mm)
- OBT 1200 Torch Body Extension 043981
  (pg 127)
- Contact Tips (pg 127)

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

Model	Stock Number	Rated Output	Wire Diameter Capacity	Single/Twin	Torch Body Length
OBT 600	043923	600 A at 100% duty cycle	1/16–5/32 in. (1.6–4.0 mm)	Single	10.25 in. (260.4 mm)
OBT 1200	043900	1,200 A at 100% duty cycle	1/16–5/32 in. (1.6–4.0 mm)	Single	17.25 in. (438.2 mm)
1200-Amp Twin-Wire Torch (long)	301144	1,200 A at 100% duty cycle	3/64–3/32 in. (1.2–2.4 mm)	Twin	16.97 in. (431 mm)

SubArc Flux Hopper Digital Low Voltage *See literature AD/7.3*

Improved flux delivery system. Our SubArc Flux Hopper Digital Low Voltage utilizes a flux valve mechanism that ensures continuous delivery of flux to the arc.

Sight glass allows the weld operator to visually monitor the remaining flux in the hopper.

Versatile opening is sized to allow hookup of any flux-hopper-mounted recovery system.

Includes slag screen to capture fused slag particles from entering the flux hopper.

Most popular accessories

- Flux Hopper Extension Cables (pg 127)
  260623010 10 ft. (3 m)
  260623025 25 ft. (7.6 m)
  260623065 65 ft. (19.8 m)

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

Stock Number	Input Power	Input Power Cord	Flux Capacity	Net Weight
300942	12 VDC (PWM signal from SubArc Interface)	11 ft. (3.3 m)	25 lb. (11 kg)	11 lb. (5 kg)

SubArc 3-Wheel Tractor See literature AD/7.7

Easy-to-use foot- or hand-operated clutch allows for easy engagement of tractor drive and disengagement to move tractor into position.

Flexible mast configuration allows torch to be positioned in multiple weld zones and adapts to your weld application.

SubArc Tractor Interface Digital provides easy-to-operate single control for power source and tractor operation.

Regulated travel speed ensures your actual and set travel speeds are consistent, improving weld quality.

Locking front wheel can be set in place to desired travel path.

Easily accommodates a 60-pound (27 kg) wire reel for fewer time-consuming 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 92)

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 Number 951755	Input Power from Welding Power Source	Wire Feed Speed	Wire Diameter Capacity	Gun Positioning Slides	Drive Motor	Travel Speed	Dimensions	Net Weight
	24 VAC, 1-phase, 50/60 Hz, 25 A	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.)	H: 36 in. (914 mm) W: 43.25 in. (1,149 mm) D: 31.63 in. (803 mm)	120 lb. (54.4 kg) without flux or wire

SubArc Portable Welding Systems See literature AD/7.6
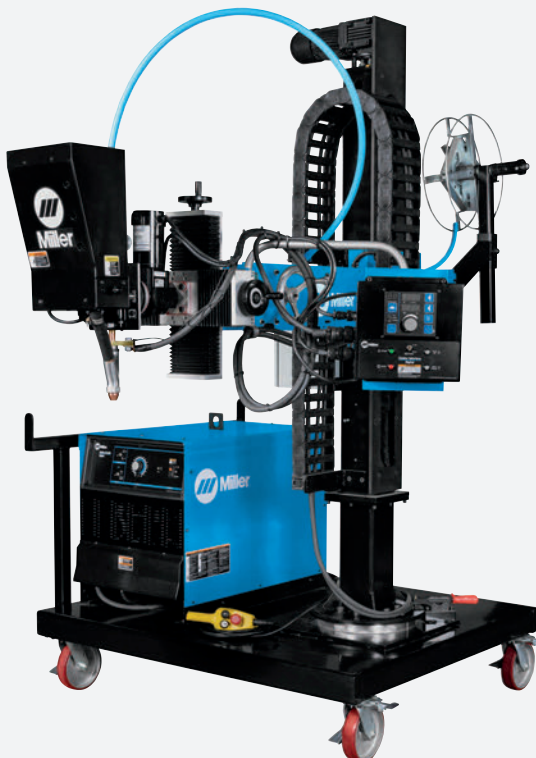
Self-contained system for pressure vessel, pipe and general welding applications. Houses a power source, column and boom on a mobile platform.

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
- 14-pin Insight Core™ Module 301072 (pg 76)
  Requires Insight Core to SubArc Digital Series Adapter Kit (301295)
- Insight ArcAgent™ Auto 301346 (pg 77)
- Contact Tips (pg 127)
- Drive Rolls (pg 127)

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

Stock Number 951675 w/SubArc DC 650 Digital 951676 w/SubArc DC 1000 Digital See page 92 for power source specs	Supply Voltage	Column Stroke	Column Travel	Boom Stroke	Boom Travel	Base Rotation	Minimum Working Height	Maximum Working Height	Overall Height
	120 V, 1-phase, 60 Hz *See page 92 for power source requirement*	44 in. (1,117 mm)	Constant speed	31 in. (787 mm)	Manual	360°	DC 650: 33.5 in. (851 mm) DC 1000: 26.25 in. (667 mm)	DC 650: 77.5 in. (1,969 mm) DC 1000: 70.25 in. (1,784 mm)	102 in. (2,590 mm)

ProHeat™ Induction Heating

With an induction heating system, the metal part you're heating becomes its own heating element. Easy to set up, induction delivers exceptional accuracy and efficiency, fast time-to-temperature with true temperature uniformity across the workpiece.
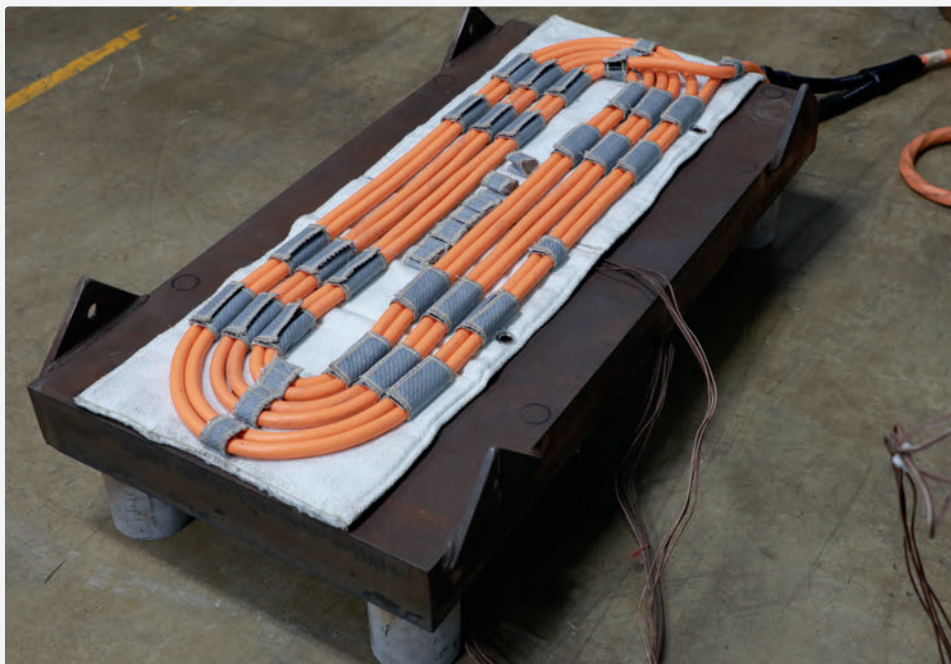
Reduce injury
Removing open flames from the jobsite increases safety.

Reduce labor
Perform other tasks while heating is happening.

Reduce inefficiencies
Customer's weld team can be their heating team.

Reduce time to heat
In many cases, your overall cycle can be up to four times faster than flame or resistence heating.

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
- Power plants
- Mining
- Shipyards
- Structural
- Petrochemicals/refineries
- Pressure vessels
- Process/power piping

For more information:
Call **1-844-IND-HEAT (1-844-463-4328)** *or email* **InductionSales@MillerWelds.com**

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.

ProHeat 35 power source shown with optional heavy-duty induction cooler, running gear and digital recorder.

Note: Primary input cable is not included with power source.

One ProHeat™ System — Four Basic Induction Heating Configurations

ProHeat 35 induction heating systems solve preheating, post weld heat treatment (PWHT) and stress relieving problems.

Liquid-Cooled Cables See literature IN/15.0

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 See literature IN/13.0

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 See literature IN/14.0

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 to withstand the tough conditions in both industrial and construction applications
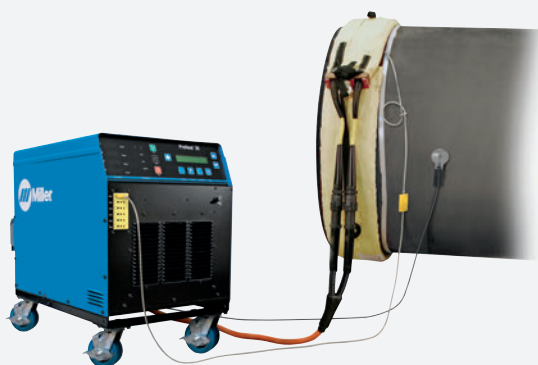
Air-Cooled Cables See literature IN/14.0

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

See literature IN/16.0

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

ArcReach Heater

Air-cooled cable

Air-cooled quick wrap

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® 350 FieldPro™ (pg 48)
- XMT® 400 ArcReach (pg 48–50)
- XMT® 650 ArcReach (pg 48–50)
- Trailblazer® 330 Series (pg 84)
- Trailblazer® 330 Air Pak™ (pg 87)
- Big Blue® Series (ArcReach models only) (pg 88–91)

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 for more information selecting Miller® induction heating options and accessories.

Stock Number	Input Power	Output Current	Output Voltage	Source Current	Output Frequency	Rated Output	Heater Dimensions	Heater Net Weight
301390 Heater only — requires ArcReach Heater extension cable to operate **951848** Heater w/extension cable **951849** Heater w/extension cable and two air-cooled quick wraps	Operates on open-circuit voltage: 50–70 V provided by an XMT 350 FieldPro, 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 in (472 mm) W: 11.2 in (285 mm) D: 26.7 in (678 mm)	43 lb. (20 kg)

PLASMA CUTTERS

Product Guide	Page	Class	Gouging	Piercing	Rated Output/ Duty Cycle	Rated Cutting Thickness*			Max. Sever Thickness Mild Steel	Special Features	Typical Applications	
						Mild Steel	Stainless Steel	Aluminum				
Spectrum® 375 X-TREME™	100	🟢		🔵	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, only 19 lb., XT30 torch	HVAC, maintenance, light construction, auto restoration, fabrication	1-Phase
Spectrum® 625 X-TREME™	100	🟢	🔵	🔵	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, only 21 lb., XT40 torch	Maintenance, light construction, body shops, prototyping	
Spectrum® 875	100	🟠	🔵	🔵	60 A at 50%	7/8 in.	7/8 in.	5/8 in.	1-1/4 in.	Auto-Refire™, automatic air regulation, only 49 lb., XT60 or XT60M torch	Construction, maintenance/repair, fabrication	
Spectrum® 875 Auto-Line™	100	🟠	🔵	🔵	208: 60 A at 40% 230–380 V: 60 A at 50% 380–575 V: 60 A at 60%	7/8 in.	7/8 in.	5/8 in.	1-1/4 in.	Auto-Line™ (208–575 V), Auto-Refire™, automatic air regulation, only 54 lb., XT60 or XT60M torch	Construction, maintenance/repair, fabrication	1&3-Ph

Engine-Driven Welder/Generator	Continuous Auxiliary Power	Spectrum 375 X-TREME Steel Cut / Output Amp Setting**	Spectrum 625 X-TREME Steel Cut / Output Amp Setting**	Spectrum 875 / 875 Auto-Line Steel Cut / Output Amp Setting**	
Fusion 185 and Blue Star® 185	6,200 watts	3/8 in. / 30 A	Not recommended	Not recommended	Cutting w/Engine Drives
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	

*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.

Product Key Class: 🔵 Light industrial 🟠 Industrial 🔴 Heavy industrial Capability: 🔵 Designed for this process ◉ Capable of this process
*See note on cut capacity ratings above. **240 V, full KVA plug. Derate cut capacity with less generator power.
For more detailed information, see individual literature sheets.

Spectrum® Series
Plasma Cutters

Our Spectrum line of plasma cutters provides big cutting power in portable packages and with features like flexible cables and Auto-Refire technology they are better than ever. Step up to Spectrum 625 X-TREME™ or 875/875 Auto-Line™ models to add Ultra-Quick Connect hand-held torches. Machine torch capabilities are available with Spectrum 875/875 Auto-Line™ models only.

Spectrum 375 X-TREME   _Spectrum 625 X-TREME_   _Spectrum 875_   _Spectrum 875 Auto-Line_

Spectrum Features

Feature	375 X-TREME	625 X-TREME	875	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™	●			
Machine torch capable			●	●

Steel/Stainless/Aluminum Rated Cutting Capacity

	Spectrum 375 X-TREME	Spectrum 625 X-TREME	Spectrum 875/875 Auto-Line
Steel/Stainless	3/8 in. (9.5 mm)	5/8 in. (15.9 mm)*	7/8 in. (22.2 mm)
Aluminum	1/4 in. (6.4 mm)	3/8 in. (9.5 mm)	5/8 in. (15.9 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.

Power factor correction (PFC). Uses less energy by utilizing input power more efficiently.

LED indicators for easy troubleshooting.

Non-high-frequency arc starting does not interfere with or damage controls or computers.

Postflow cooling circuitry extends life of the consumable and torch by cooling them with postflow air after trigger is released.

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

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.

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 Spectrum 625 X-TREME and XT60 hand-held torch for both Spectrum 875 models feature quick torch connection, ergonomic handles to help prevent operator fatigue and flexible cables that make maneuvering easier.

Spectrum 875/875 Auto-Line machine torches
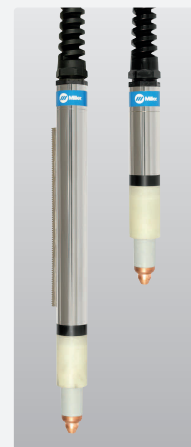
Long and short body machine torches. XT60M machine torches for both Spectrum 875 models come in long or short body configurations in either 25- or 50-foot cable lengths. Only long body torches are available in packages, but both bodies can be ordered separately (see page 126).

Models/packages

Spectrum 375 X-TREME hand-held torch package shown.

Spectrum 875 Auto-Line long body machine torch package shown.

Model	Hand-Held Torch Packages			Long Body Machine Torch Packages	
	12 ft. (3.7 m)	20 ft. (6.1 m)	50 ft. (15.2 m)	25 ft. (7.6 m)	50 ft. (15.2 m)
Spectrum 375 X-TREME	907529	—	—	—	—
Spectrum 625 X-TREME	907579	907579001	—	—	—
Spectrum 875	—	907583	907583001	907583002	—
Spectrum 875 Auto-Line	—	907584	907584001	907584002	907584004

Spectrum® 375 X-TREME™/625 X-TREME™
See literature PC/9.2 (375 X-TREME) and PC/9.6 (625 X-TREME)

AUTO-LINE TECHNOLOGY — Allows for any input voltage hookup (120–240 V, single-phase, 50/60 Hz for 375 X-TREME and 120–240 V, single-phase, 60 Hz for 625 X-TREME) with no manual linking, providing convenience in any job setting.

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

Multi-voltage plug (MVP™) (Spectrum 375 X-TREME) and **MVP™ adapter (Spectrum 625 X-TREME)** allow connection to 120- or 240-volt receptacles without tools.

XT30 hand-held torch (Spectrum 375 X-TREME) and **Ultra-Quick Connect™ XT40 hand-held torch (Spectrum 625 X-TREME)** feature ergonomic design and flexible cables.

Spectrum 625 X-TREME shown

Automatic gouging consumable detection (Spectrum 625 X-TREME). Detects gouging consumable and adjusts gas pressure to optimize performance, eliminating the need for a manual regulator.

Spectrum® 875/875 Auto-Line™
See literature PC/9.8

AUTO-LINE TECHNOLOGY — **Spectrum 875 Auto-Line model** allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. *Standard Spectrum 875 model operates on 208/230 V, single-phase input voltage only.*

Consumables storage compartment provides convenient access to consumables and parts.

Machine torch capable. Both Spectrum 875 models can be ordered with a long body machine torch or can be converted to use a machine torch with optional automation kits. Machine torches are NOT included in automation kits and must be ordered separately (see page 126).

Spectrum 875 shown

Ultra-Quick Connect™ XT60 hand-held torch with ergonomic design and flexible cable or **XT60M long body machine torch** included.

Light industrial ● *375/625 models*
Industrial ● *875 models*

DC ⚡ 3 Phase 1 Phase — *Only 875 Auto-Line has 3-phase capabilities.*

Processes
- Air plasma cutting
- Air plasma gouging (625/875 models)

375 X-TREME package comes complete with
- XT30 hand-held torch with 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 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A) plugs
- X-CASE for protection and storage
- Shoulder strap
- Consumables box with two electrodes, two tips, deflector and air fitting

625 X-TREME packages come complete with
- XT40 hand-held torch with 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 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A) plugs
- X-CASE for protection and storage
- Shoulder strap
- Consumables box with two electrodes, two 40 A tips, one 30 A tip, one 30 A drag shield, deflector and air fitting

875 and 875 Auto-Line packages come complete with
- XT60 hand-held torch with 20 ft. (6 m) or 50 ft. (15.2 m) cable **OR** XT60M long body machine torch with 25 ft. (7.6 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
- Machine torch packages include corresponding automation kit

Most popular accessories
- Automation Kits for Spectrum 875 models (pg 126)
- Cables and Cable Covers (pg 126)
- Cutting Guides (pg 126)
- Filters (pg 126)
- Plugs and Cords (pg 126)
- X-CASE (pg 126)
- Torches (pg 126)
- Torch Consumables (pg 126)

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

Model	Input Power	Rated Output at 104°F (40°C)	Amps Input at Rated Output	KVA	KW	Compressor Requirement	Dimensions	Net Weight with Torch
Spectrum 375 X-TREME 120–240 V, 50/60 Hz	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 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	12 ft. torch: 19 lb. (8.6 kg)
		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 120–240 V, 60 Hz	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 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in.(337 mm)	12 ft. torch: 21 lb. (9.5 kg) 20 ft. torch: 23 lb. (10.5 kg)
		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 875 208/230 V, 50/60 Hz	1-phase	208 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 50% duty cycle	208 V: 47 230 V: 42	9.9	9.8	6.75 cfm (191 L/min.) at 90 psi (621 kPa)	H: 13.5 in. (343 mm) W: 8.75 in. (222 mm) D: 18.5 in. (470 mm)	20 ft. torch: 49 lb. (22.2 kg) 25 ft. torch: 51 lb. (23.1 kg) 50 ft. torch: 58 lb. (26.3 kg)
Spectrum 875 Auto-Line 208–575 V, 50/60 Hz	3-phase	208 V: 60 A at 140 VDC, 40% duty cycle 230–380 V: 60 A at 140 VDC, 50% duty cycle 380–575 V: 60 A at 140 VDC, 60% duty cycle 380–575 V: 50 A at 140 VDC, 100% duty cycle	208 V: 27.5 230 V: 25 380 V: 15 460 V: 12.4 575 V: 9.8	9.9	9.4	6.75 cfm (191 L/min.) at 90 psi (621 kPa)	H: 13.5 in. (343 mm) W: 8.75 in. (222 mm) D: 18.5 in. (470 mm)	20 ft. torch: 54 lb. (24.5 kg) 25 ft. torch: 56 lb. (25.4 kg) 50 ft. torch: 63 lb. (28.6 kg)
	1-phase	208 V: 60 A at 140 VDC, 40% duty cycle 230 V: 60 A at 140 VDC, 40% duty cycle 230 V: 50 A at 140 VDC, 100% duty cycle	208 V: 47.4 230 V: 42.2	9.9	9.7			

Designed for safety and built for reliability, Smith offers a comprehensive range of gas equipment and gas control products. We understand the diverse needs of oxy-fuel applications, providing solutions that empower professionals to achieve superior results with equipment they can rely on.

Smith™ Pressure Regulators / Station Regulator

Series 40™ heavy-duty single-stage pressure regulator

Series 46™ heavy-duty single-stage station regulator
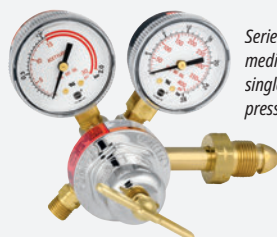
Series 30™ medium-duty single-stage pressure regulator

Series 35™ medium-duty two-stage pressure regulator

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

Smith self-centering ball guide

Others' conventional flow tube

Medium-duty flowmeter regulator

Medium-duty flowmeter

Heavy-duty model

Exclusive self-centering ball guide provides accurate readings even if tipped.

Rugged aluminum housing protects flow tube from damage while offering unobstructed view of flow reading.

Extra long flow tube with high-visibility background eases readings from a distance and in low-light conditions.

Dual filters including Sure Seat™ (flowmeter regulator) protect the high-pressure seat from debris for reliable operation and long service life.

External pressure relief valve (flowmeter regulator) protects regulator from damage due to inadvertent high-pressure surge.

Medium-duty model

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 for easy reading. Scaled for CO_2, argon and argon/CO_2 mix, and helium.

Precision flow adjustment valve allows easy adjustment to desired setting.

SMITH™
Miller

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
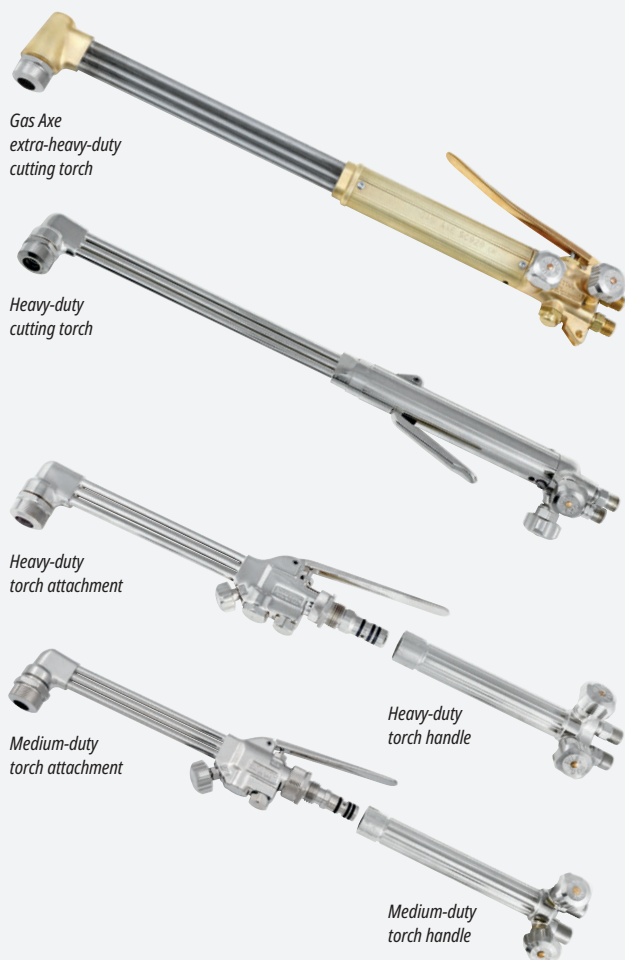
Cutting Torches

Gas Axe™ extra-heavy-duty torches

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 for ease of use.

Thick-wall forged brass head available in three different angles reduces heat warping and damage.

Heavy-duty torches

Ideal for construction, fabrication and shipyards.

Cuts up to 12 inches (305 mm).

Reversible top- or bottom-mount cutting lever for ease of use.

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.
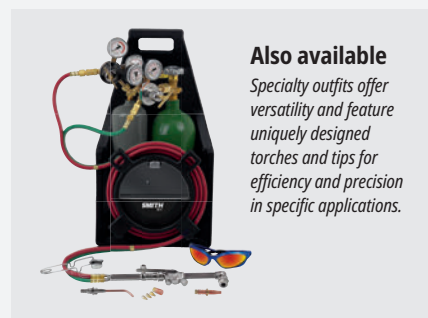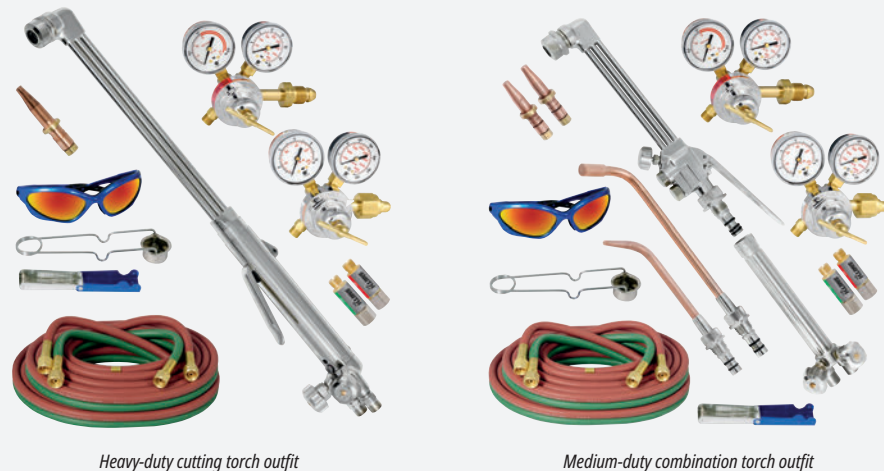
Also available
Specialty outfits offer versatility and feature uniquely designed torches and tips for efficiency and precision in specific applications.

Heavy-duty cutting torch outfit

Medium-duty combination torch outfit

SMITH™

Miller.

Safety products designed to protect welders and enhance their long-term performance

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.

Increasing Effectiveness

Level 1
Process Modification/Substitution

Level 2
Engineering Controls

Level 3
Work Practice Controls

Level 4
Personal Protective Equipment

OSHA 29 CFR 1910.134

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 your facility clean. We offer many types of fume extraction equipment to best fit your environment. Visit MillerWelds.com/filtair for more information.

	High-Vacuum		Low-Vacuum				Purifier
Model	FILTAIR 130 (page 104)	FILTAIR 215 (page 105)	FILTAIR MWX (page 106)	FILTAIR Capture 5 (page 106)	FILTAIR SWX (page 107)	FILTAIR 4000–12000 (page 108)	FILTAIR Purifier (page 110)
Type	Portable	Mobile	Mobile	Mobile — up to 5-foot capture zone	Stationary — suited for wall or column mounting	Centralized, customizable systems	Stationary/stationary — can be relocated
Ideal For	Light fabrication and manufacturing, contractors, MRO	Heavy industrial fabrication and fume guns/long distance extraction	Fabrication shops, manufacturing and training centers	Fabrication shops and manufacturing — the best solution for large weldments	Fabrication shops, manufacturing and training centers with dedicated weld areas	Fabrication shops, manufacturing (hand-held and automation) and training centers	Fabrication shops, manufacturing, large industrial, schools and training centers
ZoneFlow™ Technology	—	—	—	Standard (see page 109)	Option (see page 109)	Option (see page 109)	—
Welding Arcs	1	Up to 4 per unit	1	1	Up to 2 per unit	Up to 18 per unit	—
Filter Type	Manual cleaning	Self-cleaning	MWX-D: Disposable MWX-S: Self-cleaning	Self-cleaning (automatic)	SWX-D: Disposable SWX-S: Self-cleaning	Self-cleaning (auto/programmable)	Self-cleaning (auto/programmable)

FILTAIR® 130 See literature AY/3.1

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

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
- FilTek XL Filter 301267

Most popular accessories
- Bernard® Clean Air E™ Fume Extraction MIG Gun (pg 25)
- Collection Hose
  300896 17 ft. (5.2 m)
  300897 34 ft. (10.4 m)
- **Slotted Magnetic Nozzle** 300895
- **Flexible Funnel Magnetic Nozzle** 300668

Stock Number	Filter Media	Nominal Airflow	Sound Level	Motor	Input Power	Dimensions	Net Weight
300595 **951860** With flexible funnel magnetic nozzle	31 sq. ft. (2.88 sq. m)	132 cfm (62 L/sec.)	68.5 dBA at 5 ft. (1.5 m)	1.27 kW	115 V, 1-phase, 60 Hz at 11.25 A	H: 23 in. (584 mm) W: 12 in. (305 mm) D: 12 in. (305 mm)	46 lb. (21 kg)

FILTAIR® 215 See literature AY/3.15

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.

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

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.

Excellent filtering performance. Weld fume particulate is captured with a self-cleaning filter and deposited in the particulate disposal drawer.

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

- **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

Most popular accessories
- Bernard® Clean Air E™ Fume Extraction MIG Gun (pg 25)
- Collection Hose
  300896 17 ft. (5.2 m)
  300897 34 ft. (10.4 m)

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

- **Flexible Funnel Magnetic Nozzle**
  300668

- **Y-Adapter** 301743
- Machine-To-Y-Adapter 295743
- Hose-To-Hose-Connector 295907

- **Auto Start-Stop** 292774

Model/Stock Number	Filter Media	Nominal Airflow (variable)	Sound Level	Motor	Input Power	Dimensions	Net Weight
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	230 V, 1-phase, 60 Hz at 26 A	H: 30 in. (762 mm) W: 22 in. (559 mm) D: 46 in. (1,168 mm)	390 lb. (177 kg)
301674 460 V					460 V, 3-phase, 60 Hz at 9.2 A		

FILTAIR® MWX Series and Capture 5

See literature AY/3.0 (MWX) and AY/3.5 (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 filter) model shown with 10 ft. extraction arm.
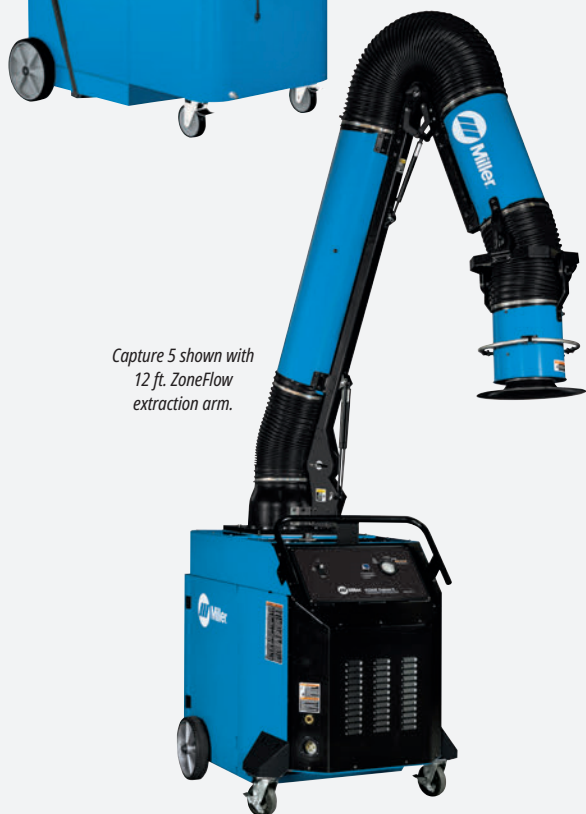
Capture 5 shown with 12 ft. ZoneFlow extraction arm.

Features common to all models

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.

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

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 109 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

- **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

Most popular accessories

- **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 Number		Filter Media	Nominal Airflow	Extraction Arm Diameter	Sound Level	Motor	Input Power	Dimensions	Net Weight
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	490 sq. ft. (45.52 sq. m)	1,200 cfm (566 L/sec.)	8 in. (203 mm)	Approximately 70 dBA at 5 ft. (1.5 m)	1 hp, 3,450 rpm	115 V, 1-phase, 60 Hz at approximately 11.9 A	H: 34.75 in. (883 mm) W: 31.75 in. (806 mm) D: 48 in. (1,219 mm)	MWX-D: 238 lb. (108 kg) MWX-S: 300 lb. (136 kg)
Capture 5 (Self-Cleaning) **951639** 208/230 V, 10 ft. ZoneFlow arm **951640** 208/230 V, 12 ft. ZoneFlow arm **951574** 460 V, 10 ft. ZoneFlow arm **951575** 460 V, 12 ft. ZoneFlow arm		452 sq. ft. (42 sq. m)	1,200 cfm (566 L/sec.)	10 in. (254 mm)	Approximately 77 dBA at 5 ft. (1.5 m)	3 hp, 3,450 rpm	208/230 V, 1-phase, 60 Hz at 14.6/13.5 A 460 V, 3-phase, 60 Hz at 3.7 A	H: 43 in. (1,092 mm) W: 36 in. (915 mm) D: 48 in. (1,219 mm)	660 lb. (300 kg) with 12 ft. arm

FILTAIR® SWX Series See literature AY/3.2

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 filter) model shown with 12 ft. ZoneFlow extraction arm.

Features common to both models

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

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

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 109 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

- **FilTek XL Filters**
  300539 For disposable filter models
  300540 For self-cleaning models
  Filters efficiently capture weld fume particulate and offer superior filter life

Most popular accessories

- **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

Model/Stock Number		Filter Media	Nominal Airflow	Extraction Arm Diameter	Sound Level	Motor	Input Power	Dimensions	Net Weight without Arm
SWX-D (Disposable Filter) **951619** Telescoping arm **951513** 7 ft. standard arm **951514** 10 ft. standard arm **951515** 12 ft. standard arm	**SWX-S (Self-Cleaning)** **951620** Telescoping arm **951516** 7 ft. standard arm **951517** 10 ft. standard arm **951518** 12 ft. standard arm **951760** 10 ft. ZoneFlow arm **951761** 12 ft. ZoneFlow arm	490 sq. ft. (45.52 sq. m)	1,200 cfm (566 L/sec.)	8 in. (203 mm)	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	Blower motor: 115 V, 1-phase, 60 Hz at approximately 11.9 A ZoneFlow: 115 V, 1-phase, 60 Hz at approximately 12 A	SWX-D H: 29 in. (737 mm) SWX-S H: 33 in. (838 mm) W: 27.25 in. (692 mm) D: 33 in. (838 mm)	Cabinet: SWX-D: 130 lb. (59 kg) SWX-S: 195 lb. (88 kg) Blower/bracket: 95 lb. (43 kg)

FILTAIR® 4000–12000 See literature AY/3.4

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).

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 consumable
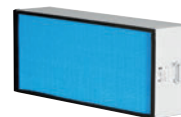
- **FilTek XL Filter** 300927

Most popular accessories
- Extraction Arms (pg 109)
- Arm Mounting Bracket Kit (pg 109)
- Low Profile Hoods (pg 109)
- Call us toll-free at 866-931-9730 for information on factory options such as HEPA filter kit, weather hood, Spark Cooler® and integration services

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.

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.

1 FilTek XL Filter Pack — **Replaces Up To** → **3 Traditional 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.

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 109 for more information.

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

Call us toll-free at 866-931-9730 or email us at FILTAIRquotes@millerwelds.com for information and requests for quotes on custom-engineered solutions to fit your needs.

*Based on clean filters.   **Dimensions for base models without factory options.

Model	Nominal Airflow Range*	Number of Filter Packs	Sound Level	Input Power	Dimensions** (H x W x D)	Ship Weight
FILTAIR 4000	2,000–4,800 cfm (944–2,265 L/sec.)	4	72–75 dBA at 5 ft. (1.5 m) Peak pulse cleaning is 92.7 dBA at 5 ft. (1.5 m)	230, 460 or 575 V, 3-phase, 60 Hz	86.1 x 31.2 x 83.2 in. (2,187 x 792 x 2,113 mm)	1,600 lb. (726 kg)
FILTAIR 6000	2,300–6,600 cfm (1,085–3,115 L/sec.)	6			117.2 x 31.2 x 83.2 in. (2,977 x 792 x 2,113 mm)	2,250 lb. (1,021 kg)
FILTAIR 8000	2,500–7,000 cfm (1,180–3,304 L/sec.)	8			135 x 37.2 x 83.2 in. (3,429 x 945 x 2,113 mm)	2,900 lb. (1,315 kg)
FILTAIR 12000	4,000–10,500 cfm (1,888–4,955 L/sec.)	12			120.3 x 59.7 x 83.2 in. (3,056 x 1,516 x 2,113 mm)	3,900 lb. (1,769 kg)

FILTAIR® 4000–12000 Accessories
See literature AY/3.7 (Extraction Arms) and AY/3.6 (Low Profile Hoods)

Miller offers a full line of accessories for complete system solutions and turnkey installation.

Telescoping arm · Standard arm · ZoneFlow arm · Arm mounting bracket and ducting kit

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 **300954** 10 ft. arm **300955** 12 ft. arm	**300980** 7 ft. arm **300981** 10 ft. arm **300982** 12 ft. arm
ZoneFlow Arm with Motor Control Box	**951810** 10 ft. arm **951811** 12 ft. arm	**951758** 10 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

Call us toll-free at 866-931-9730 or email us at FILTAIRquotes@millerwelds.com for information and requests for quotes on custom-engineered solutions to fit your needs.

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 where the air on the inside of the zone has lower pressure than the 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.

Traditional technology capture zone is a maximum of 18 inches

Zoneflow technology increases the capture zone up to 5 feet
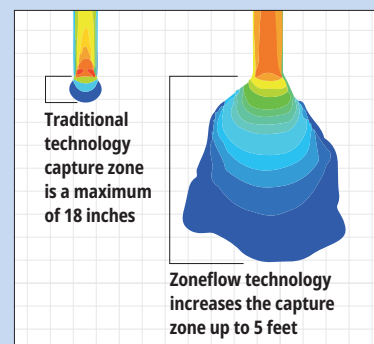
ZoneFlow is standard on the FILTAIR Capture 5, and optional on the FILTAIR SWX Series and FILTAIR 4000–12000 models (see pages 106, 107 and 108).

FILTAIR® Purifier
See literature AY/3.25

Stand-alone system that efficiently captures lingering weld fumes as they ascend, while circulating filtered air near floor level to improve overall air quality.

NEW!

Air inlet

Natural circulation pattern efficiently captures rising weld fumes.

Easy to service. Convenient access to FilTek XL filters for tool-free removal and installation.

Hassle-free dust removal. Convenient, easy-to-handle dust bin.

Clean air outlet

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 consumable

- **FilTek XL Filter** 296823
  Filters efficiently capture weld fume particulate and offer superior filter life

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 Number	Filter Media	Number of Filters	Nominal Airflow Range	Sound Level	Dimensions	Net Weight
301745 230 V, 3-phase, 60 Hz **301746** 460 V, 3-phase, 60 Hz **301769** 575 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 in. (4,318 mm) W: 48 in. (1,220 mm) D: 62 (1,575 mm)	3,272 lb. (1,484 kg)

Cleaner Air with FilTek® XL Filters

The FilTek XL filter's higher MERV rating means unrivaled filtering performance.

MERV Comparison

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%	90%
16		≥95%	≥95%	≥95%
HEPA[3]		≥99.97%	≥99.97%	≥99.97%
Weld Fume Composition[4]		75–95%	≤15%	≤10%

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.

[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 See literature AY/49.0

Configurable weld booths with single-panel design for maximum modularity and customizability.

NEW!
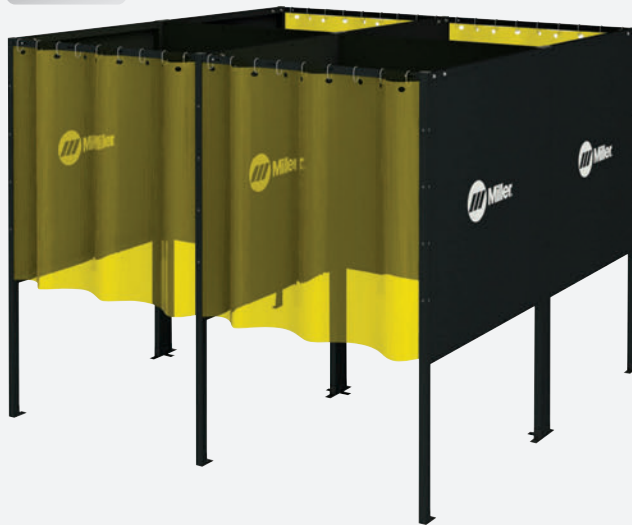
Engineered to seamlessly integrate into a variety of training and other welding environments. Weld booth panels are available in 4-, 5- and 6-foot widths to be used as back or side walls.

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).

Call us toll-free at 866-931-9730 or email us at FILTAIRquotes@millerwelds.com for more information.

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 109)

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.

Model/Stock Number*	Material	Panel Dimensions	Panel Weight
295140 4 ft. single panel **295126** 5 ft. single panel **296015** 6 ft. single panel	16-gauge steel with 1.5 in. square tube structure with black textured powder coat	H: 78 in. (1,981 mm) W/D: 48 or 60 or 72 in. (1,219 or 1,525 or 1,828 mm)	4 ft: 63 lb. (29 kg) 5 ft: 75 lb. (34 kg) 6 ft: 88 lb. (40 kg)

Respiratory

T94i-R XL has larger 13-square-inch viewing area.

T94-R

T94i-R

NEW! **PAPR II with Helmet**

With T94-R™ helmet (external grind control)
292753 With *ClearLight™* **2.0** auto-darkening lens assembly

With T94i-R™ helmet (integrated clear grind shield)
292754 With *ClearLight™* **2.0** auto-darkening lens assembly

With T94i-R™ XL helmet (integrated clear grind shield)
292755 With *ClearLight™* **2.0** auto-darkening lens assembly

Visit MillerWelds.com/products/respiratory for PAPR I availability.

PAPR II with Hard Hat

With T94iH-R™ helmet (integrated clear grind shield)
287510 With *ClearLight™* **2.0** 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 operator access to face without removal of the head assembly.
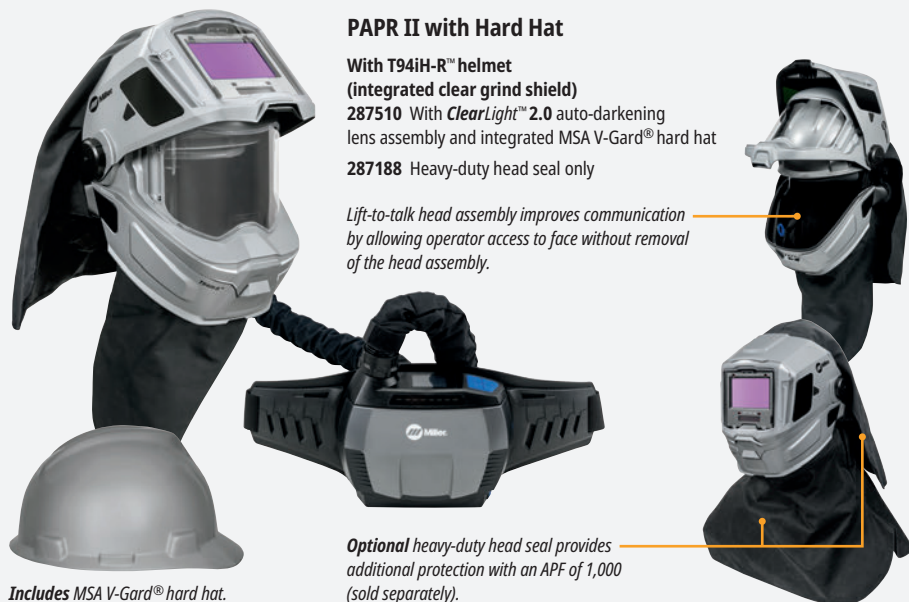
Includes MSA V-Gard® hard hat.

Optional heavy-duty head seal provides additional protection with an APF of 1,000 (sold separately).

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).

PAPR Systems See literature AY/4.25

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)

Designed for comfort

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

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

Ergonomic headgear (T94-R, T94i-R, T94i-R XL and Face Shield) provides secure fit without the need for over-tightening.

MSA Fas-Trac® III ratchet-suspension headgear (Hard Hat) provides exceptional comfort, reducing pressure points while increasing stability.

Lightweight low-profile blower assembly with integrated backpack-style shoulder straps reduces lower back strain and fatigue.

Superior visibility

ClearLight™ **2.0 Lens Technology** provides high-definition optics for precision arc recognition, allowing more natural and accurate color tones to come through the lens for a crisp view of the workpiece.

Shade 5.0 side windows and oversized clear grind shield maximize downward and peripheral visibility, improving sense of surroundings.

Half-shade lens adjustability provides fine shade adjustment for optimized comfort and vision.

Large integrated grind shield (T94i-R, T94i-R XL and Hard Hat) provides 44 sq. in. of clear viewing area for grinding and other tasks.

| With HDV Technology | Without HDV Technology |

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

Improved productivity

Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.

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

Two lightweight lithium-ion batteries included with each package eliminate downtime.

Respiratory

SAR Systems

Coiled air hose

Straight air hose

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

- 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

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

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

Ergonomic headgear provides secure fit without the need for over-tightening.

Lightweight versatile C50 air regulator can be positioned horizontally or vertically to naturally align with body movements.

ClearLight™ **Lens Technology** provides high-definition optics for precision arc recognition.

Shade 5.0 side windows and oversized clear grind shield maximize downward and peripheral visibility, improving sense of surroundings.

Half-shade lens adjustability provides fine shade adjustment for optimized comfort and vision.

Large integrated grind shield provides 44 sq. in. of clear viewing area for grinding and other tasks.

Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.

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

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. 360-degree swivel air hose connection alleviates hose coiling, reducing potential trip hazards.

T94i-R™ SAR See literature AY/4.3

With T94i-R™ helmet (integrated clear grind shield)
951800 With auto-darkening lens assembly and 25 ft. straight air hose
951801 With auto-darkening lens assembly and 100 ft. straight air hose
951802 With auto-darkening lens assembly and 25 ft. coiled air hose
951803 With auto-darkening lens assembly and 100 ft. coiled air hose
264871 With auto-darkening lens assembly (air hose not included)

T94i-R™ helmet upgrade kit (for use with existing SAR system)
279871 Includes T94i-R helmet assembly, breathing tube, breathing tube cover and flowmeter

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™ OV Half Mask Respirator
See literature AY/4.5

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

NEW!

LPR-100™ Gen. II Series Half Mask Respirator
See literature AY/4.6

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

Welding Helmets
See page 116 for welding helmet accessories.

Helmets with *ClearLight* 4x and 2.0 have a four-year warranty.
Classic Series helmets have a three-year warranty.

	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.
Auto-Darkening	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ClearLight™ Lens Technology	*ClearLight* 2.0	*ClearLight* 4x	*ClearLight* 4x	*ClearLight* 4x	*ClearLight* 4x	*ClearLight* 4x	*ClearLight*	*ClearLight*	*ClearLight*
AutoSense™	—	—	—	Yes	Yes	Yes	—	—	—
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: 8–14 Cut: 5–8 Grind: 2.5	Weld: 8–14 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
Integrated Grind Shield	Yes	Yes	—	—	—	—	Yes	—	Yes
Auto-on	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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 second	1/25,000 second	1/25,000 second	1/25,000 second	1/25,000 second	1/25,000 second	1/20,000 second	1/23,000 second	1/3,600 second
Digital Controls	Yes	Yes	Yes	Yes	Yes	Yes	—	Yes	—
Premium Headgear	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
HDV Technology	Yes	Yes	Yes	Yes	—	—	—	—	—
InfoTrack™ 2.0	Yes	Yes	Yes	Yes	Yes	—	—	—	—
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

See chart above for feature availability.

ClearLight™ **Lens Technology** provides high-definition optics for precision arc recognition.

ClearLight™ **2.0 Lens Technology** provides high-definition optics for precision arc recognition, allowing more natural and accurate color tones to come through the lens for a crisp view of the workpiece.

ClearLight™ **4x Lens Technology** provides advanced high-definition optics for the most realistic view that's clearer, brighter, and offers up to four times the clarity compared to welding helmets with 1/1/1/1 as per official USA ANSI certification of lens visibility.

AutoSense™ reduces issues related to setting helmet sensitivity by allowing the welder to push and hold the AutoSense button to automatically set the helmet sensitivity for their environment.

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

High-Definition View (HDV) technology. The curve of traditional lens designs can often times distort or blur your view. HDV technology provides a sharp detailed view at any angle with minimal distortion.

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

T94™ Series Maximized comfort, visibility and productivity for the professional welder. See literature AY/41.1

Larger 13-sq. in. viewing area

Industry's largest integrated grind shield (44 sq. in.)

External grind control

T94i™ XL 287768

T94i™ 296792

T94™ 296791

Best-in-class comfort for all-day wearability
Lightweight, well-balanced design reduces neck torque, minimizing operator fatigue and strain, leading to an increase in comfort.

4% LIGHTER for reduced fatigue

14% BETTER BALANCE for elevated comfort

17% LESS TORQUE for reduced neck strain

Statistics above compare T94i to previous model.

Matte silver finish reflects ambient heat, keeping the user cooler.

Four operating modes for ultimate versatility: weld, cut, X-Mode™ and grind.

Half-shade settings for precise lens adjustment.

Simple digital lens interface allows for easy adjustment with or without gloves.

Shade 5.0 side windows enhance peripheral vision, amplifying sense of surroundings.

Chiseled shell design provides optimal skin coverage while easily accommodating a Miller® Half Mask Respirator.

Gen IV premium headgear with four-point flexible design provides a secure fit, while avoiding major pressure points within the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.

HDV technology provides a sharp detailed view at any angle with minimal distortion on integrated grind shield (T94i XL/T94i) and quick-release one-piece cover lens (all models).

Helmet Lighting Accessory 281361
- Provides additional lighting in low-light environments for T94 welding helmets
- Includes two lights (one for each side) and all required mounting hardware

Digital Infinity™ Series
Largest viewing area maximizes visibility. See literature AY/42.5

Black 296786	**Black Ops™** 296779	**Stars and Stripes™** 296780	**Relic™** 296782	**Imperial™** 296784	**Honor™** 296785	**Outdoorsman™** 296783 NEW!

Digital Elite™ Series
Industry-leading helmet provides high-performance versatility. See literature AY/43.0

Black 296765	**Lucky's Speed Shop™** 296766	**Stars and Stripes™ III** 296770	**Inferno™** 296772	**Vintage Roadster™** 296768	**Raptor™** 296773	**Gear Box™** 296771	**Blue Rage™ II** 296774

Digital Performance™ Series
Lightweight helmet with superior headgear for ultimate comfort. See literature AY/44.0

Black 296757	**Blue Rage™** 296753	**'64 Custom™** 296751	**Unity™** 296755	**Burn & Blossom™** 296756 NEW!

Helmet Lighting Accessory 282013
- Provides additional lighting in low-light environments for most Miller® welding helmets including Infinity, Elite, Performance, Classic and MP-10
- Includes two lights (one for each side) and all required mounting hardware

Classic Series
Helmets for the value-minded welder. See literature AY/45.5

MP-10™

VSi™ 287794	**Black (VS)** 287803	**Metalworks™ (VS)** 287810	**Rise™ (VS)** 287815	**Liberty™ (VS)** 287820	**Metal Matrix™ (VS)** 288519	**Hex™ (VS)** 291189	**FS#10 Flip-Up** 287798

Black 238497

Best-in-class traditional passive shade 10 lens helmet.

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™ welding helmets
222003 For Infinity™, Elite™, Performance™, Classic and MP-10™ welding helmets
- Compatible with most Fibre Metal and MSA hats. Other brands may fit depending on size and shape. Helmet and hat not included

Headgear
290460 Legacy (shown)
260486 Gen. IV
770246 Classic

2 x 4 Auto-Darkening Lens with *ClearLight*™ Lens Technology
287828 Shade 9
287830 Shade 10
287833 Shade 11
- Fits all 2 x 4-inch windows
- Solar powered
- Two arc sensors
- Two-year warranty

Magnifying Lens
212235 0.75 magnification
212236 1.00 magnification
212237 1.25 magnification
212238 1.50 magnification
212239 1.75 magnification
212240 2.00 magnification
212241 2.25 magnification
212242 2.50 magnification
- 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 welding helmets

Helmet Bib 279078
- Flame-resistant material provides additional neck coverage for the T94 welding helmets

Helmet Cape 279080
- Flame-resistant material provides additional head and back-of-the-neck coverage for the T94 welding 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)

CoolBelt™ Belt-Mounted Cooling System 245230
- Up to **17 degrees Fahrenheit cooler** under the hood
- Provides all-day comfort through maximized airflow power
- Multiple airflow speeds eliminate stagnant air and reduce fogging
- Lightweight design extends wearability
- Compatible with Infinity, Elite, Performance, Classic and MP-10 welding helmets

Weld-Mask™ with *ClearLight*™

See literature AY/40.0

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.

NEW!

Weld-Mask with *ClearLight*™ 295917
- Shades 3, 9–13 for use with MIG, TIG, stick, and grinding
- Extremely lightweight (8 oz.), virtually eliminates neck strain
- ***ClearLight*™** Lens Technology provides advanced high-definition optics for precise arc recognition
- Ideal for use with hard hats and industrial or construction environments
- Soft, close-fitting eye covering provides total darkness for precision welding

Safety Glasses
See literature AY/46.0

Classic

Spark

Slag

Spatter

Gen I

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

Safety and Cutting Glasses Chart

Frame Style (Color)	Clear Lenses	I/O Lenses	Shade 3 Lenses	Shade 5 Lenses
Classic (Black)	272187	—	—	—
Spatter™ (Black)	272191	—	—	—
Spark™ (Black/Blue)	272190	—	—	—
Slag™ (Black)	272201	272202	—	272205
Gen I (Black)	—	—	235662	235658

Face Shield Series See literature AY/46.5

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

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

Clear
Clear + Anti-Fog
Shade 3
Shade 5

Halo Hard Hat Adapter   222003

**Slotted Hard Hat Adapter Clips
(not shown) 259637**

Welding Gloves See literature AY/47.0

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 (Pigskin)
- Pig split leather palm, back and 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

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

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 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 — unprecedented comfort, performance and protection.

MIG
TIG

- 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
- Drag patch for enhanced durability (TIG)

Welding Glove Size Chart *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
HD MIG/Stick	—	—	263339	263340	269615*
MIG (Lined)	—	263332	263333	263334	269618*
TIG	263346	263347	263348	263349	—
TIG/Multitask	263352	263353	263354	263355	—
Metalworker	—	251066	251067	251068	—

Classic	Medium	Large	X-Large
HD MIG/Stick	—	271877*	271887*
MIG (Pigskin)	—	279875*	279876*
MIG (Cowhide)	—	271890*	271891*
TIG	279897*	279898*	279899*
Work	266041*	266042*	266043*

Cut-Resistant	Small	Medium	Large	X-Large	2X-Large
MIG	290412*	290413*	290414*	290415*	290416*
TIG	290401*	290402*	290403*	290404*	290411*

Welding Apparel See literature AY/47.5

Leather Bib/Apron 231125
- Attaches to combo jacket with snaps across the chest as a bib or along the bottom as an apron

Combo Sleeves 231096
- Indura® flame-resistant cotton/ top-grain leather
- 21-inch length

Classic Cloth Sleeves 247148
- 18-inch length
- Fold-in sleeve snaps
- Upper arm elastic band

Grain Leather Jacket (see size chart)
- Top-grain pigskin leather
- Expandable leather strategically placed for optimal mobility
- Flame-resistant inside cuff
- 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 flame-resistant navy cotton back
- Lightweight exclusive material with extreme flame-resistant properties
- Vented back/extended rear tail
- Zipper closure with hook-and-loop fastened flap
- Chromium free for easy disposal

Combo Jacket (see size chart)
- 9-ounce Indura® flame-resistant 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® flame-resistant cotton (flame resistance guaranteed for life of jacket)
- Pre-shrunk fabric

Classic Cloth Jacket (see size chart)
- 9-ounce flame-resistant navy cotton
- Pre-shrunk fabric
- Fold-in sleeve snaps
- Finished hems and reinforced stitching

Classic Cloth Apron 247149
- 35-inch length with accessible front pocket
- Adjustable drawstring ensures a good fit

Note: Indura® is a registered trademark of Westex® by Milliken™ used under license by IFR Workwear Inc.

Welding Apparel Size Chart

Apparel	Small	Medium	Large	X-Large	2X-Large	3X-Large	4X-Large	5X-Large
Grain Leather Jacket	—	—	231090	231091	231092	—	—	—
Split Leather Jacket	273212	273213	273214	273215	273216	273217	273218	273219
WeldX Jacket	247114	247115	247116	247117	247118	247119	247120	247121
Combo Jacket	—	231081	231082	231083	231084	—	—	—
Indura Cloth Jacket	—	258097	258098	258099	258100	—	—	—
Classic Cloth Jacket	244749	244750	244751	244752	244754	244755	244756	244758

Count on Miller to design the perfect workbench to make welding projects faster and easier. The ArcStation is the first-ever, all-in-one workstation designed for welding and metalworking. It's versatile and just the right height to work comfortably. You can organize equipment, tools, and raw materials into one convenient workspace.

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

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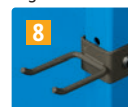
Visit MillerWelds.com or your distributor for other Miller® options and accessories.

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).

Wheels, handle, and fold-up design make unit easy to take to the jobsite or move around the shop.

Compact size makes storing unit a breeze. Unit folds down to 6 x 29 x 48 inches (152 x 737 x 1219 mm).

30 x 30 inch size tabletop provides plenty of work surface.

3/16-inch X-pattern steel tabletop allows trouble-free clamping.

1.5-inch diameter steel tube frame provides strength and durability.

Includes removable gun holder.

Add optional 6-inch X-clamp (300613) to make this the *ultimate* portable workbench.

Model	Stock Number	Steel Top	Load Capacity	Workbench Dimensions (H x W x D)	Workbench Net Weight
ArcStation 60SX Fully Loaded	**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 in. (889 x 1,473 x 737 mm)	318 lb. (144 kg)
ArcStation 30FX	**300837**	(1) 29 x 29 x 3/16 in. X-pattern	500 lb. (227 kg)	35 x 29 x 29 in. (889 x 737 x 737 mm)	74 lb. (34 kg)

From our MobileArc™ and AugmentedArc® augmented reality welding systems and LiveArc™ welding performance management system, to our student safety packs and FREE OpenBook™ training software, we provide solutions to meet all of your welding training needs.

MobileArc™ Augmented Reality Welding System

See literature TS/3.0

An affordable, easy-to-use welding tool designed to attract, engage and introduce students to welding through a hands-on augmented reality experience.

Highly portable, lightweight design allows for easy transport for remote learning and recruiting events.

Easy setup and simple user interface allows for students to work independently, helping to increase instructor efficiency.

Real-time feedback is provided on users' technique to help correct errors, reinforce proper welding practices and accelerate skill advancement prior to actual live arc welding in a lab.

Minimize material cost by saving wire, gas and workpieces in this simulation environment.

Output can be streamed to an external display for a more collaborative learning environment.

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
- Travel bag

Two interactive viewing options: helmet mount (above) or gun mount (below).

Stock Number 907817	Battery Life		Process	Welding Positions	Multi-Pass	Net Weight
	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

See literature TS/2.0

A multiprocess welding simulator designed to train and transform welding techniques.

Optimize instructor efficiency by using the **Teacher software** to create a virtual classroom with customized curriculum, quizzes and weld exercises.

Real-time feedback is provided on users' technique to help correct errors, reinforce proper welding practices and accelerate skill advancement prior to actual live arc welding in a lab.

Reduce overall training time compared to traditional methods with the realistic welding simulation of the AugmentedArc.

Minimize material cost by saving wire, gas and workpieces in this simulation environment, while allowing students to refine their welding skills before live arc welding.

Build a larger, more-skilled welding workforce when computer-savvy individuals are drawn to welding education programs that increase their success.

Lightweight and balanced AR welding helmet with large viewing area provides a realistic augmented reality environment.

CTWD
Work angle
Aim Travel speed Travel angle

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

Optional components
- **TIG Foot Pedal Kit** 286033 Includes TIG foot pedal, connection cable and adapter cable
- AugmentedArc Controller 301395 For multiple system connectivity
- Heavy-duty Transportation Cases 951775 Protects complete system during transportation or storage

Stock Number 951823	Input Power	Voltage/Amperage Selection	Welding Positions	Polarity Selection	Shielding Gas Selection	Wire Speed Selection	Base Material Selection	Workpiece Selection	Stick Electrode Selection	Diameter Selection	Simulator Dimensions	Net Weight
	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 in. (3.2, 6.4, 9.5 mm)	E7018 E6010 E6013	Solid wire: .030, .035, .045 in. (0.8, 1.0, 1.2 mm) Stick electrode: 1/8, 3/32, 5/32 in. (2.5, 3.25, 4.0 mm) Filler rod: 3/32 in. (2.4 mm)	H: 21 in. (533 mm) W: 9.38 in. (238 mm) D: 17.25 in. (438 mm)	Simulator: 20.7 lb. (9.4 kg) Helmet: 1.97 lb. (0.9 kg)

LiveArc™ Welding Performance Management System

See literature TS/1.0

A live welding training system designed to refine and enhance welding techniques.

Better and more 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.

SmartGun (left) and SmartStinger (right) shown.

Comes complete with

- Computer with Intel core i7, 128 GB SSD, fanless cooling, and HDMI port for connection to most secondary monitors (not included)
- 21.5 HD LCD touch screen monitor
- 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
- Software update for SMAW applications

Stock Number 907714001	Input Power	Processes	Positions	Multi-Pass	Rated Output	Electrode Diameter	Dimensions	Net Weight
	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 in. (2.0 mm)	H: 77.5 in. (1,969 mm) W: 46 in. (1,168 mm) D: 31 in. (787 mm)	527 lb. (239 kg)
		SMAW	2F–4F, 1G–4G	Limited groove applications	SmartStinger: 250 A at 60% duty cycle	SmartStinger: Up to 1/8 in. (3.2 mm)		

Educational Resources

Visit MillerWelds.com/education for more information on educational resources.
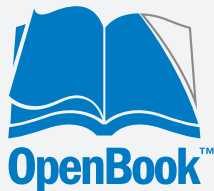
OpenBook provides FREE interactive online training resources, educational materials and tracking tools. Visit OpenBook.MillerWelds.com for details.

OpenBook™

Customize your classroom

- Implement materials that fit your curriculum and learning objectives, including:
  - e-Learning modules
  - Weld lab activities
  - Course builder
  - Quiz builder
  - Lab builder
  - Customizable certificates of completion
- 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

Student Safety Packs

All-in-one safety pack ensures students are prepared and outfitted with comfortable and fitted personal protection equipment (PPE).

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: Orders must be drop shipped to the school. This offer cannot be combined with any other offer.

295385	Small
291661	Medium
291662	Large
291663	X-Large
295386	2X-Large

Automated MIG 122

Cable Connectors and Adapters 122/129

Carts, Cylinder Racks and Running Gear 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
▪ Automation Kits ▪ Cables and Cable Covers ▪ Cutting Guides
▪ Filters ▪ Plugs and Cords ▪ Protective Case ▪ Torches

Process Selector Control/Polarity Switch 127

Remote Controls and Wireless Remote Controls 127–129

Stick Accessory Kits 127

Submerged Arc Accessories 127
▪ Cables ▪ Torch Accessories
▪ Wire Drive Assembly Accessories

TIG Accessories 128–129
▪ Expansion Memory Card ▪ Kits ▪ Protective Case/Covers
▪ Remote Controls ▪ Torch and Weld Cable Connectors

Wire Feeder Accessories 130
▪ Extension Cables (14-pin) ▪ Power Supply Adapter
▪ Spool Adapter ▪ 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 129.

For AlumaPower 350 MPa, XMT 350, 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 #1/0 to #2/0 AWG cable
Kits include one male Dinse-style plug which attaches to the work and/or weld cables and plugs into the 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
136600 Female Dinse-style receptacle
Used to adapt or extend weld and/or work cables. Accepts #1/0 to #2/0 AWG cable.

Tweco®-Style Connector   191981
Accepts #1/0 to #2/0 AWG cable. Kit includes one 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 350, CST, Diversion, 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, Multimatic 215 and Diversion. Heavy-duty construction with 8-inch rubber rear wheels, convenient front handles, cable holders and plastic consumable box. For gas cylinders no greater than 7 inches (178 mm) in diameter or 65 pounds (29.5 kg) in weight.

Dual Cylinder Rack Cart 951770
For Millermatic 142/211, Multimatic 215/220 AC/DC and Diversion. 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 and Syncrowave 210. 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.

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.

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 350/400 models 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 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.

Continuum Running Gear/Cylinder Rack 301264
For Continuum. Small footprint and easily maneuverable, with cylinder rack low enough that you do not have to lift bottles.

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.

Coolmate™ Coolant Systems
See literature AY/7.2

Coolmate 1.3

Coolmate 3

NEW! *Coolmate 3.5*

Coolmate 4

*May vary with torch design and cable length. Miller® coolant systems are backed by the best warranty in the industry — one full year.

Coolmate 1.3   301616 120 V
For Maxstar 210/280 and Dynasty 210/300. Light industrial, 1.3-gallon cooler designed for water-cooled torches on power sources rated up to 300 amps.*

Coolmate 3   043007 120 V   **043008** 240 V
Economical, 3-gallon cooler designed for water-cooled torches rated up to 500 amps.*

Coolmate 3.5   301788 120 V
For Maxstar 400 and Dynasty 400/800. Industrial, 3.5-gallon cooler designed for water-cooled torches rated up to 600 amps.*

Coolmate 4   042288 120 V
Best performer in its class — industrial, 4-gallon cooler designed for water-cooled torches rated up to 600 amps.*

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.

Model	Motor Input Voltage	Maximum Current Draw	Maximum Cooling Capacity	IEC Cooling Capacity	Tank Capacity	Dimensions	Net Weight
Coolmate 1.3	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	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 gal. (4.9 L)	H: 11.38 in. (289 mm) W: 10.38 in. (264 mm) D: 24.25 in. (616 mm)	46 lb. (21 kg)
Coolmate 3	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	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 gal. (11.4 L)	H: 13.25 in. (337 mm) W: 12.25 in. (311 mm) D: 23.25 in. (584 mm)	40 lb. (18 kg)
	230 V, 50/60 Hz	2.5 A (50 Hz), 3.0 A (60 Hz)					
Coolmate 3.5	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	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 gal. (13.2 L)	H: 11.63 in. (295 mm) W: 15.63 in. (397 mm) D: 27 in. (686 mm)	64 lb. (29 kg)
Coolmate 4	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	5,500 W (18,000 Btu/hr.) 5.9 qt./min. (5.6 L/min.)	1,780 W (6,070 Btu/hr.) 1.1 qt./min. (1 L/min.)	4 gal. (15 L)	H: 16.25 in. (413 mm) W: 15.25 in. (387 mm) D: 18.75 in. (476 mm)	38 lb. (17 kg)

Engine Drive Accessories
Also see Trailers on page 125.

Big Blue Accessories

Cable Holder   043946
*For Big Blue 500 Pro/600 Series/
800 Series.*

**Vandalism Lockout Kit
399802 Field**
For Big Blue 500 Pro/600 Series.
Lockable hinged steel panels cover
and protect name plate gauges
and ignition switch (padlock
included). Also includes engine
compartment door lock and key.

Blue Star 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

Protective covers (301712) and (195301) shown.

Protective Covers
Heavy-duty, water- and mildew-resistant covers protect
and maintain the finish of the welder.

301245 *For Fusion and Blue Star.*
301475 *For gas Bobcat 200 Air Pak **without** Running Gear.*
301531 *For diesel Bobcat 200 Air Pak **without** Running Gear.*
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.*
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 Bobcat, Trailblazer and Big Blue (except 450 Duo CST) models.
Kit allows you to locate your engine-driven welder's output
panels at the point of use, so you don't need to climb onto the
truck as often to make connections.

Welder/Generator Accessories

**Twist Lock Adapter Cord
301489**
For Fusion. L14-30R to NEMA
6-50R. Adapts engine drive
120/240-volt twist lock plug
to common Millermatic and
Spectrum 240-volt plug.

*Female
Receptacle*

*Female
Receptacle*

Full KVA Adapter Cord   300517
For Bobcat, Trailblazer and Big Blue models. NEMA 14-50P to
NEMA 6-50R. Adapts engine drive 120/240-volt plug to common
Millermatic and Spectrum 240-volt plug.

Full KVA Plug Kit
119172 1-phase, 120/240 V,
50 A plug (NEMA 14-50P).
For Bobcat, Trailblazer and Big Blue models.
165963 3-phase, 480 V, 30 A plug
(NEMA L16-30P).
For Bobcat 230 3 Phase.
254140 3-phase, 240 V, 50 A plug
(NEMA 15-50P).
For Big Blue 500 Pro/600 Series/800 Series.

Trailers See literature AY/20.0

HWY-Mid Frame Trailer   301438
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   301338
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.

Trailer accessories

Fender Kit   301439
For HWY-Mid Frame and HWY-225. Replacement fenders.

Dual Hitch   301441
For HWY-Mid Frame and HWY-225. Combination 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye in one reversible assembly.

Cable Tree   043826
For HWY-Mid Frame and HWY-225. Provides an area to conveniently wrap weld cables and extension cords.

2-In-1 Document/Fire Extinguisher Holder   301236
For HWY-Mid Frame and HWY-225. Stores documents and holds a 5-pound fire extinguisher.

Note: Holder shown mounted on trailer. Fire extinguisher not included.

*Note: Trailers are shipped unassembled.   *Width at outside of fenders.*

Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to Center of tires)	Standard Tires (Standard Rating or P-size Rating)	Dimensions	Net Weight
HWY-Mid Frame	1,605 lb. (728 kg)	1,424 lb. (646 kg)	1,424 lb. (646 kg)	19.5 in. (495 mm)	8 in. (203 mm)	46 in. (1,168 mm)	ST175/80D-13 Load Range C	L: 101 in. (2,565 mm) W: 55 in. (1,397 mm)*	181 lb. (82 kg)
HWY-225	3,500 lb. (1,588 kg)	2,999 lb. (1,360 kg)	2,700 lb. (1,225 kg)	19 in. (483 mm)	7.5 in. (191 mm)	50 in. (1,270 mm)	ST175/80R-13 Load Range D	L: 105.5 in. (2,680 mm) W: 56.5 in. (1,435 mm)*	280 lb. (127 kg)

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.
Features side pocket.

301262
For Millermatic 211 and Multimatic 215.
Features side pocket.

301524
For Multimatic 220 AC/DC.

301521
For Millermatic 255 and Multimatic 235/255.
Features side pocket.

195142
For Millermatic 252 and Syncrowave 210.
Features side pocket.

Plasma Cutter Accessories

Automation Kits

Spectrum 875 Auto-Line automation kit shown.

Automation Kits for Spectrum 875 and 875 Auto-Line
301156 *For Spectrum 875.*
301157 *For Spectrum 875 Auto-Line.*
Upgrades hand-held torch packages to add machine torch capabilities. Automation kit for Spectrum 875 Auto-Line **(301157)** includes a remote pendant control for manual on/off. Machine torches are NOT included in kits and must be ordered separately.

Cables and Cable Covers

Flexible Work Cable
234838 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
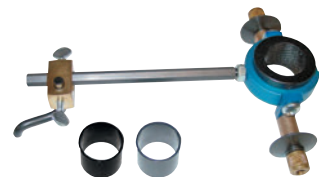
Plasma Circle-Cutting Guides **253055**
For XT30/XT40/XT60 torches. Cut straight lines or circles up to 12 inches in diameter.

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**
For Spectrum 375 X-TREME/625 X-TREME/875/ 875 Auto-Line. Mounts to back of the plasma cutter. Includes male and female 1/4-inch NPT quick-disconnect fittings and hose for easy on/off connection. The replaceable filter element **(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, Multimatic 215/220 AC/DC, Diversion, Syncrowave 210 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

Spectrum 875 and 875 Auto-Line Plasma Cutter Machine Torches
249955 25 ft. (7.6 m) long body XT60M
249956 50 ft. (15.2 m) long body XT60M
257464 25 ft. (7.6 m) short body XT60M
263952 50 ft. (15.2 m) short body XT60M

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)

Torch Accessories

OBT 600 Torch Body Extensions
043967 1 inch (25.4 mm)
043969 2 inch (50.8 mm)
043973 4 inch (101.6 mm)
043975 6 inch (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

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 when DC pulsed TIG welding. QuietPulse is activated by changing the waveshape for DC pulse welding 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 with RFCS-14 HD foot pedal
301311 A-150 torch with RCCS-14 fingertip
301549 A-200 torch with RFCS-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 comes with either a Weldcraft™ A-150 **OR** A-200 TIG torch, RFCS-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.

TIG Contractor Kit 301337
For Multimatic 215. Kit comes with Weldcraft™ A-150 TIG torch with Dinse-style connector, RFCS-RJ45 foot control, flow gauge regulator with 12-foot (3.7 m) gas hose, and AK2C torch accessory kit.

Multimatic 235/255 TIG Kit   301518
Kit comes with 25-foot (7.6 m) Weldcraft™ A-150 TIG torch with Dinse-style connector, RFCS-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.

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)

W-280 torch kit shown.

For Syncrowave 300/400, Maxstar (except 161 models) and Dynasty. Kit comes with 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).

Protective Case/Covers

X-CASE   301429
For Maxstar 161 models.

Protective covers (300579) and (301382) shown.
300579 *For Diversion.*
195142 *For Syncrowave 210.*
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
For Multimatic 215 and Diversion.
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.

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
For Multimatic 215 and Diversion. 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-6M (6-pin plug)   **195269**
For Maxstar 161 STL/STH.
RMS-14 (14-pin plug)   **187208**
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.

Wireless Remote Foot and Hand Controls

See literature AY/6.5 (Foot) and AY/6.6 (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

Bluetooth® communication technology provides consistent and reliable connection, allowing precise control of the amperage.

Improves productivity and maneuverability by eliminating cord tangles. Reduces clean up time and work area cord clutter.

Improves reliability and safety by eliminating control cord failures and reducing potential trip hazards.

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

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

Easily programmable. Control can be quickly and easily paired with any other Miller® 14-pin wireless receiver. Control is preprogrammed when purchased with the receiver.

Foot Control

Foot control is designed specifically for TIG welding in manufacturing, fabrication and plant applications, allowing operator to adjust amperage at point of use without the limitations of a remote cord.

Auto on/off feature extends the battery life up to 1,500 hours of welding without turning the pedal on and off.

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

Hand Control

Hand control is designed for stick, TIG, MIG and flux-cored welding, allowing operator to adjust parameters for different joint configurations, electrodes and wire types/sizes at the point of use instead of walking back to the machine.

Allows parameter adjustments up to 300 feet away from welder without returning to machine.

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

Smart Touch™ buttons allow quick and accurate machine parameter adjustments.

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

Removable impact-resistant rubber cover for transmitter provides protection and durability.

Industrial ●

Processes
- TIG (GTAW) ▪ Pulsed TIG (GTAW-P)
- Stick (SMAW)[1] ▪ MIG (GMAW)[1,2]
- Flux-cored (FCAW)[1,2]

[1] With wireless hand control only.
[2] Only with voltage-sensing feeder.

Comes complete with
- Wireless foot control (301581) **OR** hand control (301583) transmitter
- Wireless 14-pin receiver (301584)
- Four AA batteries
- Four Easy-Glide Wear Pads™ (foot control only — sold individually, 248274)
- Carabiner clip (hand control only, 285341)
- Impact-resistant rubber cover (hand control only)

Suggested power sources

WIRELESS REMOTE COMPATIBLE

Look throughout this catalog for the icon above signifying compatibility with a wireless remote.

Some applications are not suitable for wireless communication. Keep in mind that the rated range is subjective, and depends on factors such as obstructions, frequency interference, transmission technology, and weather. The figures listed assume ideal conditions are present.

Model/Stock Number	Component	Power Supply	Battery Life	Rated Range*	Temperature	Radio Frequency	RF Power	Antenna	Dimensions	Weight
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 in. (152 mm) W: 5.75 in. (146 mm) D: 11.5 in. (292 mm)	3 lb. (1.4 kg) with batteries
Wireless Hand Control System 301582	Hand control (transmitter)	Four AA batteries	1,500 hours	300 ft. (91 m)					H: 4.9 in. (125 mm) W: 3 in. (76 mm) D: 1.7 in. (44 mm)	0.8 lb. (0.39 kg) with batteries

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TIG Accessories (continued)

Torch and Weld Cable Connectors

Air-Cooled TIG (GTAW) Torch Connectors

273483[1,2]
For Multimatic 215/220 AC/DC and Maxstar 161. 25 mm (small) Dinse-style gas thru for one-piece air-cooled torches.

194723 A-200 (WP26)
194722[2] All others
For Syncrowave 210.
50 mm Dinse-style gas thru for one-piece air-cooled torches.

195379 A-200 (WP26)
195378[2] All others
For Multimatic 235/255, CST, Syncrowave 300/400, Maxstar 210/280/400 and Dynasty 210/300/400. 50 mm Dinse-style for one-piece air-cooled torches.

Water-Cooled TIG (GTAW) Torch Connectors

50 mm Dinse-Style Flow Thru 195380
For Syncrowave 210. Used with all Weldcraft™ water-cooled torches.

50 mm Dinse-Style with Water Return Line 195377
For 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.

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[1] Except A-200 (WP26) torches.   [2] A-80 (WP24) torches require **24-5** adapter.

Wire Feeder Accessories

Extension Cables (14-Pin)

8-Conductor Cables
242208025 25 ft. (7.6 m)
242208050 50 ft. (15 m)
242208080 80 ft. (24.4 m)
For SuitCase 12RC and 20 Series feeders. For 14-pin remote controls and 24 VAC wire feeders. 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.

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.

PSA-2 Extension Cord **047813**
25-foot (7.6 m) cord extends 10-foot (3 m) cord supplied with PSA-2 control (4-pin to 4-pin connection).

Spool Adapter

047141
For use with 14-pound (6.4 kg) spool of Hobart or Lincoln self-shielding wire.

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 DC power sources. Can also be used with constant-voltage (CV) power sources or DC engine drives supplying 115 volts. Used with a constant-current (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.

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- Simplified Maintenance and Minimized Downtime

- Improved OEE (Overall Equipment Efficiency)

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