Benefits of Blue

Technologies and innovations

Miller is committed to bringing forward-thinking technologies and solutions to the welding industry. We listen to your challenges and constantly seek to improve our products and services to better address them.

Ease of use

ArcConnect[™]

Next generation communication that utilizes high-speed signals to improve weld performance and allow point-of-use controls to be located at the feeder. Found on the Deltaweld® Systems (pg 12).

TO-LINE

Allows for any input voltage hookup with no manual linking. Provides convenience in any job setting and is ideal for dirty

Maxstar[®] (pg 48-49)

Dynasty® (pg 54-56)

Spectrum® (pg 90-91)

Plasma cutters

Maxstar® (pg 52/54-56)

Syncrowave® 210 (pg 53)

Stick

TIG

or unreliable power. Found on the following products:

MIG

Millermatic[®] 255 (pg 9) AlumaPower[™] 350 (pg 11) Invision[™] 352 (pg 14) Continuum[™] (pg 15) Auto-Continuum[™] (pg 16)

Multiprocess

Multimatic[®] 255 (pg 39) Maxstar® (pg 40) Dynasty® (pg 40) XMT® 350 (pg 42-45)

Auto-Set[™]

Provides speed, convenience and confidence of preset controls and eliminates guesswork when setting weld parameters. Variations of this technology include Advanced Auto-Set and Auto-Set Elite. Found on the following products:

MIG

Millermatic® 141/211/ 212 Auto-Set[™]/255 (pg 7-9)

ClearLight[™] Lens Technology

Optimizes contrast and clarity in welding and light states. 1/1/1/2 optical clarity rating allows a lighter light state while not welding, providing versatility for varied applications. Found on T94[™], Digital Infinity[™], Digital Elite[™] and Digital Performance[™] welding helmets (pg 106-107).





ClearLight lens technology



Traditional lens technology

MVP[™] plugs and adapters

Allows connection to common 120- or 240volt receptacles without the use of tools just choose the plug/adapter that fits the receptacle. Found on the following products:

MIG

Millermatic[®] 211 (pg 7) Multiprocess Multimatic® 200/215/220 AC/DC (pg 37-38) Stick

Thunderbolt® 160 (pg 48)



Provides single-phase stick weld capability with the engine shut off by plugging into 120- or 240-volt

wall power. Ideal for indoor or noise-sensitive environments. Found on the Fusion engine drive (pg 71).

Pro-Set[™]

Provides speed, convenience and confidence of preset controls and eliminates guesswork when setting TIG weld parameters. Found on the following products:

Multiprocess	TIG
Multimatic [®] 220 AC/DC (pg 38)	Syncrow
Maxstar® (pg 40)	Maxsta
Dynasty® (pg 40)	Dynast

wave® (pg 53, 57) ar® (except 161) (pg 54-56) ty[®] (pg 54–56)

QuickTech[™]

Provides easy setup and process changing on the Multimatic® 220 AC/DC multiprocess welder (pg 38).

- Automatically determines 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 trigger or foot control and the machine automatically changes, eliminating the need to manually change processes.
- Automatically recalls settings from the last process used.

X-Mode[™]

Electromagnetically senses the weld to eliminate sunlight interference and continuously detects the arc even if sensors are blocked. Found on T94[™], Digital Infinity[™], Digital Elite[™] and Classic VSi[™] welding helmets (pg 106–107).



TIG Diversion[™] (pg 52) Syncrowave® 210 (pg 53) **Engine drives**

Fusion (pg 71) **Plasma cutters** Spectrum[®] 375/625 (pg 90-91)

Productivity



ArcReach technology allows operators to adjust welding parameters right at the weld joint without a control cord, using the wire feeder

(pg 18/46) or remote (pg 46) — maximizing arc-on time and impacting the bottom line. Found on the following products:

Multiprocess

Engine drives Dimension[™] 650 ArcReach (pg 41) Trailblazer® 325 ArcReach models XMT[®] 350 FieldPro[™] models (pg 44) (pg 76) Big Blue® ArcReach models XMT[®] 450 CC/CV ArcReach (pg 45) (pg 78-81)

Auto-Speed[™]

Automatically adjusts engine speed to meet demands so the engine never works harder than necessary. Reduces fuel consumption, exhaust emissions and noise levels on the Bobcat[™] 200 Air Pak[™] (pg 73) and Trailblazer[®] 325 (pg 76) engine drives.

Excel[™] power

Provides 2,400 watts (20 A) of 120-volt power at all engine speeds, including idle. Reduces fuel consumption, exhaust emissions and noise levels on select models of the Trailblazer® 325 engine drive (pg 76).

Optimization and performance

Advanced welding processes

Versa-Pulse[™] is a fast, low-heat, low-spatter process designed for materials up to 1/4 inch and is great for gap filling. Accu-Pulse® is better for out-of-position welds, provides higher deposition rates and has the most adaptive arc on 16 gauge and thicker materials.

RMD® (Regulated Metal Deposition) is a modified-shortcircuit welding process with the lowest heat process and limited travel speed. It is designed to fill gaps in thin-material applications and provides a higher quality root pass, calm stable arc and less spatter.

Advanced welding processes are found on the following products:

MIG

Deltaweld[®] 350/500 with Intellx[™] Pro feeder (Accu-Pulse only) (pg 12) Continuum[™] Systems (pg 15) Auto-Continuum[™] Systems (pg 16)

Multiprocess (RMD only) XMT® 350 FieldPro models (pg 44)* PipeWorx 400 Welding System (pg 47)

Engine drives (RMD only) Trailblazer® 325 ArcReach models (pg 76)* Big Blue[®] ArcReach models (pg 78-81)*

*Requires an ArcReach Smart Feeder.

Augmented reality welding

Builds a larger, more skilled welding workforce and quickly helps correct errors, reinforces proper welding practices and accelerates skill advancement. This training solution is found on the AugmentedArc[™] augmented reality welding system (pg 113).



InfoTrack[™]

Data monitoring technology tracks arc time and features a clock. Version 2.0 adds arc count. Found on T94[™] and Digital Infinity[™] welding helmets (pg 106–107).

Fan-On-Demand[™]

Fan only operates when needed to reduce noise, energy use and amount of contaminants pulled through the machine. Found on various MIG, multiprocess, stick, TIG and plasma cutter products.

ZoneFlow[™] technology

Extended-capture weld fume extraction technology extends the capture zone up to five feet deep and four feet wide (versus up to 18 inches from conventional source capture extractors). The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity. Found on FILTAIR® Capture 5, and select FILTAIR® SWX and 4000-12000 models (pg 100-102).



Automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application.

material, fit-up and welder technique. Found on Trailblazer® 325 (pg 76) and Big Blue[®] (pg 78–81) engine drives.

Insight Welding Intelligence[™]

Insight Core[™] is a simplified, internet-based welding information solution that reports operator productivity and deposition, as well as weld parameter verification.

Insight Centerpoint[™] is an advanced PC-based operator feedback solution designed to detect missed welds, verify proper weld sequence and provide weld defect detection all in real time.

Insight ArcAgent[™] is a set of premium data acquisition tools that enable both Insight Core and Insight Centerpoint solutions to integrate with any brand of welding power source.

For more information on Insight Welding Intelligence, see pages 67–69. Insight Welding Intelligence is found on the following products:

MIG (Core is standard and **Centerpoint is optional)** Continuum[™] (pg 15) Auto-Continuum™ (pg 16)

Note: Insight Core is compatible with many 14-pin compliant Miller® power sources (see list at MillerWelds.com/insight) using an Insight Core 14-pin module or ALL power sources using an ArcAgent for Insight Core. Insight Centerpoint is compatible with ALL power sources using an ArcAgent Manual or ArcAgent Auto.







	Product Guide	Page	Class	MIG	Pulsed MIG	Flix-cored*		c 5 Portability	Weldable Metals	Welding Output Range	Special Features	Typical Applications	
	Millermatic [®] 141	7	•					Handles, optional running gear	Steel, stainless, aluminum	30-140 A	All-in-one, 120 V input, Auto-Set [™] Smooth-Start [™]	Up to 3/16 in. using self-shielded wire maintenance/repair, auto body, hobby	
	Millermatic [®] 211	7								30-230 A	All-in-one, 120 or 240 V input, Auto-Set, [™] Smooth-Start [™]	Up to 3/8 in. maintenance/repair, auto body, hobby	
1-Phase	Millermatic® 212 Auto-Set™	8	•					Installed running gear	Steel, stainless, aluminum	30-210 A	All-in-one, 230 V input, Fan-On-Demand [™] Gun-On-Demand [™]	Up to 3/8 in. fabrication, farm, garage/body shops	
÷	Millermatic [®] 252	8	•							30-300 A	All-in-one, standard timers menu, Fan-On-Demand, [™] connects to standard MIG gun, push-pull gun or spool gun	Up to 1/2 in. industrial production/fabrication, farm	
	Millermatic [®] 255	9	•					Handles, optional running gear	Steel, stainless, aluminum	20-350 A	All-in-one, Auto-Set, [™] stores up to 4 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	
Q	Millermatic® 350P	10	•					Installed running gear	Steel, stainless, aluminum	25-400 A	All-in-one, 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- and 3-Phase	Millermatic® 350P Aluminum	10	•						Aluminum	25-400 A	All-in-one, optimized for feeding aluminum wire only using a push-pull gun or spool gun	Up to 1/2 in. industrial aluminum production/fab, pulsed MIG ideal for thin gauge aluminum	
and 3	AlumaFeed [™] 350 Aluminum System	11	•					Handles, optional cart,	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	
÷	Invision™ 352 MPa Plus System	14	•				1/	MIGRunner™	Most metals	5-425 A 10-38 V	Push-pull gun capability, optimized with 74 MPa Plus wire feeder	Manufacturing and production	
	AlumaFeed [™] 450 Aluminum System	11	•					Handles, optional cart,	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	
	Invision™ 450 MPa Plus System	14	•				5/1	6" MIGRunner™	Most metals	15-600 A 10-38 V	Push-pull gun capability, optimized with 74 MPa Plus wire feeder	Manufacturing and production	
	Deltaweld™ 350 Systems	12	•					Lift eye, optional	Steel, stainless	20-400 A 10-38 V	Special arc control feature when paired with Intellx [™] feeders, Accu-Pulse [®] MIG welding with Intellx Pro feeders	Medium-to-large manufacturing and fabrication	
3-Phase	Deltaweld [™] 500 Systems	12	•				3/	running gear, MIGRunner™		30-650 A 10-44 V	Special arc control feature when paired with Intellx [™] feeders, Accu-Pulse [®] MIG welding with Intellx Pro feeders	Medium-to-large manufacturing and fabrication	
3-Ph	Continuum™ 350	15	•				1/	optional	Most metals	20-400 A 10-44 V	Advanced arc performance, Welding Intelligence™	Mid- to high-volume manufacturing	
	Continuum™ 500	15	•				3/	running gear, MIGRunner™		20-600 A 10-44 V	Advanced arc performance, Welding Intelligence™	Mid- to high-volume manufacturing	
	Auto-Continuum™ 350	16	•					Lift eye	Steel, stainless	20-400 A 10-44 V	Available for EtherNet/IP, [™] DeviceNet and analog protocol	Fixed and flexible automation	
	Auto-Continuum™ 500	16	•							20-600 A 10-44 V	Available for EtherNet/IP, $^{\!$	Fixed and flexible automation	
	Product Key				_	•		strial 🛑 Industrial roducts appear in blu		•	ire on a CC/CV machine, use CV weld output.	3	

6

All-In-One GMAW

• MIG (GMAW) = Flux-cored (FCAW) **Comes complete with** ■ 10 ft. (3 m) 100-amp MDX[™]-100

10 ft. (3 m) work cable with clamp 6.5 ft. (2 m) power cord with plug

(Millermatic 141) **OR** 6.5 ft. (2 m)

.024 in. (0.6 mm) or .030/.035 in.

power cord with MVP plugs for 120 V and 240 V (Millermatic 211)

(0.8/0.9 mm) solid wire, and

.030/.035 in. (0.8/0.9 mm)

Flow gauge regulator and gas hose

.030 in. solid wire. hook-and-loop

cord wraps and material thickness

■ Spoolmate[™] 100 300371 (pg 27)

■ Spoolmate[™] 150 301272 (pg 27)

Most popular accessories

(for Millermatic 211 only)

gauge (229895)

for argon or AR/CO_2 mix, two .030 in. contact tips, Hobart® spool of

■ Quick Select[™] drive roll for

flux-cored wire

Light industrial

Processes

MIG gun

Millermatic[®] 141 and 211

See literature DC/12.42 (141) and DC/12.58 (211)



Auto-Set[™] automatically provides

the right settings to weld mild steel

while infinite voltage control allows

the flexibility to manually set your

Mild Steel Welding Capability

		3/8 in. (9.5 mm)
Max.	3/16 in. (4.8 mm)	
Model	141	211
Min.	24 ga. (0.6 mm)	24 ga. (0.6 mm)

Aluminum Welding Capability

Min.	18 ga. (1.2 mm)	18 ga. (1.2 mm)
Model	14 ga. (1.9 mm) 141	211
Max.		3/8 in. (9.5 mm)

Aluminum welding with the Millermatic 141 uses optional Spoolmate 100 spool gun and 4043 series aluminum wire. Aluminum welding with the Millermatic 211 uses optional Spoolmate 100 spool gun with 4043 aluminum series wire **OR** optional Spoolmate 150 spool gun with 4000 or 5000 series aluminum wire.

Recommended

aluminum solution Spoolmate 100 (page 27) with both Millermatic models OR Spoolmate 150 (page 27) with Millermatic 211.



.024-, .030- and .035-inch wire capabilities.

portability of a 38-pound machine. The arc is extremely forgiving to variations in arc length and travel speeds.

power consumption and keeping internal components cleaner.



connection to common 120- and 240-volt power receptacles without the use of any tools - simply choose the plug that fits the receptacle and



own parameters. Millermatic 211 model provides additional capabilities. • Set the wire diameter (141: .024/.030 in.) (211: .024/.030/.035 in.),

- a blue light shows Auto-Set is activated
- Dial in the thickness of material you are welding
- Start welding with the exact parameters you need!

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.

Thermal overload protection shuts down unit and activates the over temperature light 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 and

Inverter technology combines best-in-class arc characteristics with the

Fan-On-Demand[™] cooling system only operates when needed, reducing

Running Gear/Cylinder Rack
301239 (pg 114)
Protective Cover 301262 (pg 117)
V-Knurled Drive Roll 202926

V-Knurled Drive Roll 202926 Visit MillerWelds com or your distributor for other Miller® options and accessories.

	_		1	1								
Model/Stock Number	Input Power	Amperage Range	Rated Output	Amps Inp 120 V	out at Rated 240 V	i Output, KVA	50/60 Hz KW	Wire Feed Speed	Wire Type and Diameter Cap	pacity	Power Source Dimensions	Power Source Net Weight
Millermatic 141 (907612) (951601) with running gear/cylinder rack	120 V	30-140	90 A at 18.5 VDC, 20% duty cycle	20	-	3.0	2.45	15-360 ipm (0.4-9.1 m/min.)	Solid steel .023030 in. (Stainless .023030 in. (Flux-cored .030035 in. (0.6-0.8 mm)	H: 12.5 in. (318 mm) W: 11.25 in. (286 mm)	51 lb. (23.1 kg)
Millermatic 211 (907614)	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 .023035 in. (Stainless .023035 in. (0.6-0.9 mm)	D: 20.5 in. (521 mm)	38 lb. (17.2 kg)
(951603) with running gear/cylinder rack	240 V	30-230	150 A at 21.5 VDC, 40% duty cycle	-	16.6	4.0	4.0		Flux-cored .030045 in. (0.8-1.2 mm)		

Millermatic[®] 212 Auto-Set[™] See literature DC/12.46





 Max. 3/8 in. (9.5 mm)
 Max. 3/8 in. (9.5 mm)

 Mild Steel
 Aluminum

 Min. 22 ga. (0.8 mm)
 Min. 14 ga. (1.9 mm)

Welding Capability

Aluminum welding uses optional Spoolmate 200 spool gun.

Auto-Set[™] makes setup quick and easy. On the Millermatic 212, it works with .030- and .035-inch wire (see page 7 for more information).

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

Gun-On-Demand.[™] Simply pull the trigger for either gun and you're ready to weld. No wasted time installing modules and using gas valve kits.

Heavy-duty aluminum two-drive-roll system.

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

Aluminum MIG welding with optional Spoolmate[™] 200 spool gun. Wire feed speed control on the gun saves time by reducing trips back to the machine. Also compatible with the more industrial Spoolmatic[®] spool guns.

Light industrial 🔵 CV DC 👖

Processes

MIG (GMAW) = Flux-cored (FCAW)

Comes complete with

- 15 ft. (4.5 m), 250-amp MDX[™]-250 MIG gun
- 10 ft. (3 m) work cable with clamp
- 7 ft. (2.1 m) power cord with plug
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Factory-installed lowered running gear/cylinder rack
- .030/.035 in. reversible dual-groove drive rolls
- Extra contact tips and material thickness gauge (229895)

Most popular accessories

- Spoolmate[™] 200 300497 (pg 27)
 Dual EZ-Change[™] Low Cylinder Rack 300337 (pg 114)
- Elevated Gun and Cable Rack 300335 (pg 114)
- Protective Cover 195142 (pg 117)
 Full KVA Adapter Cord 300517 (pg 118)
- 230-Volt Extension Cord 770644

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

Stock Number (907405) 200(208)/230 V (951177) 200(208)/230 V with Spoolmate 200, regulator, and dual cvlinder rack

v	Amperage Range	Rated Output	Amps Inp 200 V	ut at Rated 230 V	Output, 6 KVA	60 Hz KW	Wire Feed Speed	Wire Type a	nd Diameter Capacity	Dimensions	Net Weight
V ator,	30-210	160 A at 24.5 VDC, 60% duty cycle	31	28	6.2	5.2	50-700 ipm (1.3-17.8 m/min.)	Solid steel Stainless Flux-cored	.023035 in. (0.6-0.9 mm) .023035 in. (0.6-0.9 mm) .030045 in. (0.8-1.2 mm)	H: 30 in. (762 mm) W: 19 in. (483 mm) D: 40 in. (1,016 mm)	183 lb. (83 kg)

Millermatic[®] 252 See literature DC/12.49



Recommended aluminum solution Spoolmatic 15A OR 30A (page 28).



*With Spoolmatic 30A, regulator and dual cylinder rack.

 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)

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, push-pull and spool guns.

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

Heavy-duty aluminum two-drive-roll system.

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

Superior aluminum MIG welding with direct connection of optional Spoolmate[™] 200 and Spoolmatic[®]/Spoolmatic Pro spool guns or XR[™] push-pull guns. No extra module to buy or install.

Industrial 🔴 CV DC 1

Processes

• MIG (GMAW) = Flux-cored (FCAW)

Comes complete with

- 15 ft. (4.5 m), 250-amp MDX⁻⁻250 MIG gun
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- (and plug on 200/230 V model)
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Factory-installed lowered running gear/cylinder rack
- .030/.035 in. reversible dual-groove drive rolls
- Extra contact tips

Most popular accessories

- Spoolmate[™] 200 and Spoolmatic[®] Spool Guns (pg 27–28)
- XR[™] Air-Cooled Push-Pull Guns (pg 29)
- Dual EZ-Change[™] Low Cylinder Rack 300337 (pg 114)
- Elevated Gun and Cable Rack 300335 (pg 114)
- Protective Cover 195142 (pg 117)
- 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 Wire Feed Speed Wire Type and Diameter Capacity Dimensions Ne	et /eight
(907321) 200(208)/230 V (951066*) 200(208)/230 V	30-300	200 A at 28 VDC, 60% duty cycle	(at 60% duty cycle) (1.3-17.8 m/min.) Stainless .023045 in. (0.6-1.2 mm) W: 19 in. (483 mm) (94	05 lb. 94 kg)
(907322) 230/460/575 V (951065*) 230/460/575 V		250 A at 28 VDC, 40% duty cycle	- 46 23 18 9.5 7.5 (at 60% duty cycle) D: 40 in. (1,016 mm)	



Millermatic[®] 255 See literature DC/12.8 Welding Capability Max. 1/2 in. (13 mm) Max. 1/2 in. (13 mm) Aluminum welding uses optional XR-Aluma-Pro Mild Steel Aluminum push-pull gun. Min. 24 ga. (0.6 mm) Min. 18 ga. (1.2 mm) Recommended aluminum solution XR-Aluma-Pro™ push-pull gun (page 29). Millermatic 255 with running gear package 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

Allows for any input voltage t E C H N O L O G Y hookup (208–240 V, circle phase) with no mouse linking providing

single-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

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

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

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

Heavy-duty aluminum two-drive-roll system.

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

Industrial 🔴 CV DC 1

Processes

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

Millermatic 255 comes complete with

- 15 ft. (4.5 m) 250-amp MDX[™]-250 MIG gun with Bernard[®] 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/CO₂ mix
- Chain to secure gas cylinder
- .035/.045 in. reversible V-groove drive rolls
- Extra contact tips and material thickness gauge (229895)

Most popular accessories

- MDX[™]-250 EZ-Select[™] MIG Gun 1770047 (pg 24)
- Spoolmatic[®] Spool Gun (pg 28) (non-Pro gun only)
- XR-Aluma-Pro[™] Air-Cooled Push-Pull Guns (pg 29)
- EZ-Latch[™] Single Cylinder Running Gear 301449 (pg 114)
- EZ-Latch[™] Dual Cylinder Rack with Elevated Gun and Cable Rack 301481

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 114)
 Protective Cover 301521 (pg 117)
 Visit MillerWelds.com or your distributor for other Miller[®] options and accessories.

Stock Number (907734) 208–240 V	Amperage Range	Rated Output	Amps Inp 208 V	out at Rated 240 V	d Output, KVA	50/60 Hz KW	Wire Feed Speed	Wire Type a	nd Diameter Capacity	Power Source Dimensions	Power Source Net Weight
(951766) 208–240 V with single cylinder running gear	20-350	230 A at 25.5 V, 60% duty cycle	44.0	39.5	9.5	7.2	50-800 ipm (1.3-20 m/min.)	Solid steel Stainless Aluminum Flux-cored	.023045 in. (0.6-1.2 mm) .023045 in. (0.6-1.2 mm) .035047 in. (0.9-1.2 mm) .030045 in. (0.8-1.2 mm)	H: 19.24 in. (489 mm) W: 13.75 in. (349 mm) D: 26.25 in. (667 mm)	84 lb. (38 kg)

Millermatic[®] 350P See literature DC/12.51



Recommended aluminum solution XR-Aluma-Pro™ push-pull gun (page 29).



Welding Capability

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

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, push-pull and spool guns.

Integrated digital timers come complete with presettable preflow/ postflow and spot timers. Independent timers for MIG and push-pull guns.

Heavy-duty aluminum four-drive-roll system.

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

Industrial (CV DC 3 1
--------------	-----------

Processes

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

Comes complete with

- 15 ft. (4.5 m) Bernard[®] BTB Gun 300 A with Centerfire[™] consumables
- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- (without plug) for single- or three-phase Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Factory-installed. low-mounted running gear/cylinder rack
- .035/.045 in. reversible V-groove drive rolls (order U-groove drive rolls for aluminum welding)
- Extra contact tips

Most popular accessories

- Spoolmatic[®] Spool Gun (pg 28) (non-Pro gun only)
- XR[™] Air-Cooled Push-Pull Guns (pg 29) Dual Cylinder Rack 195299
- (pg 114)
- Protective Cover 195142 (pg 117)
- 230-Volt Extension Cord 770644 Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Stock Number (907300)	Input Power	Amperage Range	Rated Output		nput at 230 V	Rated O 460 V	• ·	60 Hz KW	Wire Feed Speed	Wire Type and Diameter	Capacity	Dimensions	Net Weight
200/230/460 V	Three-	25-400	300 A at 32 VDC.	34	30	15	11.6	11 5	MIG gun	Solid steel .023045		H: 34 in. (863 mm)	181 lb.
200/200/100 1		20-400		0% duty cycle 50-700 ipm (1.3-17.8 m/min.) Stainless .0300		(,	,						
	phase		60% duty cycle		50-700 ipm (1.3-17.8 m/min.)	Stainless .030045	in. (0.8-1.2 mm)	0.8–1.2 mm) W: 19 in. (483 mm)	(82 kg)				
									Optional spool gun/push-pull gun	Aluminum .035047	in. (0.9-1.2 mm)	D: 41 in. (1,041 mm)	
	Single-			69	61	30	13.1	11.2	50-800 ipm (1.3-20 m/min.)	Metal-cored .035052	in. (0.9-1.3 mm)		
	phase								30-800 ipin (1.3-20 in/ inin.)		in. (0.8–1.3 mm)		
										1 IUA-00100 .030032	III. (0.0 I.J IIIII)		

Millermatic® 350P Aluminum See literature DC/12.56



Millermatic 350P Aluminum with XR-Aluma-Pro™ Lite gun shown.

Welding Capability

True torque feed motor push-pull design provides continuous push force to the wire while the gun motor controls the speed at the gun. The motors work together to provide accurate and positive wire feed speed without wire shaving or deformation.

Electronic wire spool brake allows wire spool to free spool while welding, resulting in smooth wire delivery.

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

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

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

Trigger hold reduces operator fatigue on extended welds.

Industrial CV DC

Processes

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

Comes complete with

- 10 ft. (3 m) work cable with clamp
- 10 ft. (3 m) industrial power cord
- (without plug) for single- or three-phase
- Factory-installed gas solenoid Flow gauge regulator and gas hose
 - for argon
- Factory-installed, low-mounted running gear/cylinder rack
- .035 and .047 in. (0.9 and 1.2 mm) U-groove drive rolls for aluminum welding

Push-pull gun systems include above plus

■ XR[™] air-cooled push-pull gun (see choices far left in chart below)

Most popular accessories

- XR[™] Air-Cooled Push-Pull Guns (pg 29)
- Dual Cylinder Rack 195299 (pg 114)
- Protective Cover 195142 (pg 117)
- 230-Volt Extension Cord 770644

Visit MillerWelds.com or your distributor

										lor other willer® op		ones.
Stock Number Millermatic 350P Aluminum Push-Pull Gun System (951451) w/15 ft. XR-Aluma-Pro™ air-cooled gun (951452) w/25 ft. XR-Aluma-Pro™ air-cooled gun (951453) w/25 ft. XR [™] -Pistol Pro air-cooled gun (951454) w/25 ft. XR-Aluma-Pro™ Lite air-cooled gun Millermatic 350P Aluminum (gun NOT included) (907474) 200/230/460 V standard unit	Input Power	Amperage Range Rated Output		Amps I 200 V	nput at R 230 V	ated Out 460 V	put, 60 KVA	Hz KW	Wire Feed Speed	Wire Type and Diameter Capacity	Dimensions	Net Weight
	Three- phase	25-400	300 A at 32 VDC, 60% duty cycle	34	30	15	11.6	11.5	Optional spool gun/ push-pull gun 50-800 ipm	.035047 in. (80 (0.9-1.2 mm) W: 19 (44 D: 41	H: 34 in. (863 mm) W: 19 in.	181 lb. (82 kg)
	Single- phase			69	61	30	13.1	11.2	(1.3-20 m/min.)		(483 mm) D: 41 in. (1,041 mm)	

AlumaFeed[®] Synergic Aluminum Welding System

See literature DC/34.0

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



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

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, eliminating 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.



Processes

Aluminum GMAW

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

Most popular accessories

- XR[™] Push-Pull Guns (pg 29)
- MIGRunner[™] Cart 195445 (pg 115)
- Coolmate[™] 3 043007 (pg 115)
- Coolant 043810 (pg 115)
- Industrial MIG 4/0 Kits (pg 117) 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 122) 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		10-			6		
*Additional packages are available — visit MillerWelds.com or your distributor.				T			
Power Source Only Stock Number	Package Stock Number*	XR-AlumaFeed SuitCase Feeder	XR-Aluma-Pro™ Push-Pull MIG Gun	XR™-Pistol Grip Push-Pull MIG Gun	Industrial MIG 4/0 Kit	Coolmate™ with Coolant	Cart
AlumaPower 350 MPa	(951834) w/350 model (907420)	(301567)	25 ft. air-cooled	-	-	-	-
(907420) 208-575 V (907420001) 208-575 V	(951836) w/350 model (907420)	(301567)	-	30 ft. air-cooled	-	-	-
with auxiliary power	(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	(951840) w/450 model (907483)	(301567)	25 ft. air-cooled	-	With lug connectors	-	MIGRunner cart
(907484) 575 V w/auxiliary power	(951839) w/450 model (907483)	(301567)	25 ft. water-cooled	-	With lug connectors	Coolmate 3	MIGRunner cart
Nata: All packages listed include gun d	rive relle feeder drive relle and eeneu	mobles for 025 and	1 2/61 inch (0.0 and 1	2 mm) wire			

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 Outp	ut	•	•	Rated Lo 400 V	ad Outp 460 V	ut, 60 Hz 575 V	KVA	KW	Max. Open- Circuit Voltage	Dimensions	Net Weight
AlumaPower 350 MPa	Three-phase	5-425 A 10-38 V	350 A at 34 60% duty cy	- /	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)	80 lb. (36.3 kg)
	Single-phase	5-425 A 10-38 V	300 A at 32 60% duty cy	- /	60.8	54.6	29.7	24.5	19.9	11.7	11.2		D: 24 in. (610 mm)	
AlumaPower 450 MPa	Three-phase	15-600 A 10-38 V	450 A at 36 100% duty	,	_	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	Input Power	Input Welding Ci	rcuit Rating	Wire Feed	Speed	Wire Di	ameter	Capacity			Maxin	num Spool Size Capac	ity Dimensions	Net Weight
Feeder 14-pin compliant, but only operates synergically w/MPa power sources	5 A,	400 A at 100% of System duty cycle to gun rating		50-900 ip (1.3-23 m		Require	s wire ki		8) for gun and	d drive roll kit n. (1.6 mm) wire		(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

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



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

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

Versatile MIGRunner cart keeps you organized with its dual cylinder rack, MIG gun holders and spacious storage compartment beneath the power source, and portable with its lockable front casters and oversized rear wheels.

Miller.

Quality-engineered cable management protects your connections to keep you productive.

Old Deltaweld® System

- 3 HOURS

Time spent assembling old Deltaweld package

New Deltaweld® System



Time spent assembling new Deltaweld package



Single-wire feeder swivels for convenience and function, eliminating wear on gun and liner assembly. It moves with the MIG gun, allowing operator to see the front of the feeder and which parameters are selected.

Model Most Popular MIGRunner ◀	Single-Wire Intellx Feeder MIGRunner	Single-Wire Intellx Pro Feeder MIGRunner	Dual-Wire Intellx Feeder MIGRunner	Dual-Wire Intellx Pro Feeder MIGRunner
Deltaweld 350 208/230/460 V	(951792)	(951777) ◀	(951817)	(951818)
Deltaweld 500 208/230/460 V	(951814)	(951808) ◀	(951819)	(951820)
Deltaweld 500 575 V	-	(951824)	_	-

Deltaweld® Power Sources

Two power source choices

- Deltaweld 350 has auxiliary power standard and optional 14-pin receptacle and meters for use with legacy feeders.
- **NEW! 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.





Heavy industrial **OV** DC 3

Processes

- MIG (GMAW) = Flux-cored (FCAW)
- Accu-Pulse[®] MIG (GMAW-P) with Intellx Pro feeder
- Air carbon arc gouging (CAC-A) with Deltaweld 500

MIGRunner[™] packages include

- Deltaweld power source
 350: 907747
 500: 907785 or 907786
- Intellx OR Intellx Pro single-wire or dual-wire feeder
- Bernard[®] BTB Gun(s) (350: 300 A **OR** 500: 400 A) and .035/.045 in. V-groove drive rolls
- Factory-installed Deltaweld running gear with cable holder, 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 and video

Most popular accessories

- Bernard[®] MIG Guns (pg 25–26)
 Deltaweld 350/500 Running Gear
- 301523 (pg 115) Industrial MIG 4/0 Kits with lugs (stationary packages only) (pg 117)
- ArcConnect Control/Motor Cables
- 280471009 9 ft. (2.7 m) 280471015 15 ft. (4.6 m) 280471025 25 ft. (7.6 m) 280471050 50 ft. (15.2 m) 280471075 75 ft. (22.9 m)
- 280471100 100 ft. (30.5 m) Cart Accessory Kit 301528 (see above for contents) Note: For dual-wire feeder kit both 301528 and 301579 are required.
- Feeder Swivel Kit 301533 Mounts single- or dual-wire feeder to Deltaweld – only single feeder swivels
- Stationary Handle Kit 301529
- Hanging Bail 058435
 Dipo Doct with 18 in Bao
- Pipe Post with 18 in. Base
- 149838 4 ft.
- 149839 6 ft.
- Swingpak[™] Base 183997
 Single/Dual Spool Carrier 300353 For 4 ft. post 300352 For 6 ft. post

See page 22 for more information Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Intellx[™] Wire Feeders



Intellx and Intellx Pro dual-wire feeders

Bernard® BTB Gun 300 A (two with dual-wire models) with .035/.045 in. drive rolls and Centerfire™ contact tips.



Feeders include a

Intellx single-wire feeder Intel Dedicated wire feeder options

■ Intellx[™] feeders with new arc control feature means welders can produce better welds with minimal parameter adjustments.

Intellx Pro single-wire feeder

 Intellx[™] Pro feeders add Accu-Pulse[®], EZ-Set, steel weld programs, and memory buttons. Accu-Pulse[®] provides a 28 percent wider operating window and a more forgiving arc, while EZ-Set simplifies parameter setup based on material thickness, removing complexity.

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

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

Rotatable drive assembly allows operator to rotate the drive, eliminating 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.

NEW! Intellx[™] Pro Swingarc[™]



Single- and dual-wire models with 12- or 16-foot booms are sized to accommodate a variety of weld cell layouts (24- or 32-foot diameter work area).

Counterbalance design makes it easy to position boom and **360-degree rotation and 60-degree lift angle** maximize work area.

In-boom cable routing organizes hoses and cables for a cleaner work environment.

Model	Single-Wire Intellx Pro Swingarc	Dual-Wire Intellx Pro Swingarc
12 ft. (3.7 m) Boom	(951804)	(951805)
16 ft. (4.9 m) Boom	(951806)	-

*Refer to Deltaweld 500 owner's manual for gouge mode ratings and KVA/KW for 575 V models

Nere	i lo Dellawelu 500 ownel s ma	anuai ioi gouge	inoue raung	ss anu KVA/ KW I	or 575 v mouers.									
A	Power Source Only/Stock Nur Most Popular Models	nber		Amp/Volt Ranges F	Rated Output*		Amps I 208 V	nput at l 230 V	Rated Lo 460 V	ad Outp 575 V	'	z* KW	Power Source Dimensions (Includes lift eye)	Power Source Net Weight
20	Deltaweld 350			20-400 A 3	300 A at 29 VDC, 100%	duty cycle	29.3	26.5	14.6	-	11.6	10.0	H: 22.36 in. (568 mm)	115 lb.
š	(907747) < 208/230/460 V		d	10-38 V 3	350 A at 31.5 VDC, 60%	duty cycle	36.7	33.4	18.1	-	14.5	12.5	W: 15.35 in. (390 mm)	(52.2 kg)
	(907747001) 208/230/460	v with 14-pin an	a meters	4	125 A at 35.25 VDC, 30	% duty cycle	50.0	45.1	23.1	-	18.5	16.9	D: 29.15 in. (740 mm)	
4	Deltaweld 500 (907785) < 208/230/460 V	with motors		30-650 A 5	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)	145 lb. (65.8 kg)
500 /	(907785001) 208/230/460 V		d meters	10-44 V 5	575 A at 42.75 VDC, 60	% duty cycle	80.2	73.5	38.0	30.4	30.3	27.2	D: 31.65 in. (804 mm)	(05.8 kg)
20	(907786) 575 V with meters (907786001) 575 V with 14-p	oin and meters		6	650 A at 44 VDC, 25% d	luty cycle	94.2	84.9	43.9	34.9	35.0	31.6	-	
Feede	r Only/Stock Number	Input Power	Input Weld	ing Circuit Rating	Wire Feed Speed	Wire Diameter	Capacit	y Max	imum Sp	oool Size	Capaci	y Dim	nensions (H x W x D)	Net Weight
	(951783) Single-wire	50 VDC	600 A at 1	13 VDC,	50-780 ipm	.023-5/64 in.		18 i	n. (457 r	mm),		Sin	gle: 16.25 x 12.38 x 27.88 in.	Single: 44.8 lb.
	Pro (951784) < Single-wire		60% duty c	ycle	(1.3-19.8 m/min.)	(0.6-2.0 mm)		60	b. (27 kg	g)			(413 x 314 x 708 mm)	(20.3 kg)
	: (951815) Dual-wire : Pro (951816) Dual-wire											Dua	al: 14 x 18 x 34.5 in. (356 x 457 x 876 mm)	Dual: 77 lb. (34.9 kg)
	,												(000 x +01 x 010 mm)	(34.3 kg)

Intellx Feeder Features

Feature	Intellx	Intellx Pro
Digital meters		
Remote voltage	•	
Wire feed speed	•	
Arc control	•	
Trigger hold	•	
Wire jog and purge	•	
Wire feed speed feedback	•	
Four drive rolls	•	
Rotatable drive	ě	
Up to 60 lb. spool		
MIG process	•	
Dual-wire models		
EZ-Set MIG		
EZ-Set Accu-Pulse®		
Trigger select		
Preflow		
Postflow		
Memory slots (2)		
Out-of-box programs		
(steel only)		

Invision[™] MPa Plus Systems See literature DC/23.6

MIG and synergic pulsed MIG system with optimized weld programs for both steel and aluminum.





Dedicated XR Plus guns work with MPa Plus feeders. See page 21 for information and stock numbers. **Auto-Line**." Invision 352 allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking. 450 model is 230/460 V manual link or 575 V, three-phase only.

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 spacing between the ripple pattern.

Synergic pulsed MIG when using a 70 Series MPa Plus feeder. As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed, eliminating 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.

Heavy industrial	
	Invision 450
Dhase Dhase	is 2-nhase only

Processes

- MIG (GMAW) Flux-cored (FCAW)
- Pulsed MIG (GMAW-P)
- Air carbon arc gouging (CAC-A)

Most popular accessories

- 70 Series MPa Plus feeders (pg 20)
 XR-Aluma-Pro[™] Plus and XR[™] Pistol Plus push-pull guns (pg 21)
- 70 Series Swingarc™ with MPa Plus control box (pg 22)
- Bernard[®] MIG Guns (pg 25–26)
- MIGRunner[™] Cart (pg 115)
- Running Gear Cylinder Rack (pg 115)
- Industrial MIG 4/0 Kits (pg 117)
- Extension Cables (pg 122)

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

Model	Power Source Only Stock Number		Package Stock Number*	70 Series MPa Plus Feeder with .035/.045 in. Drive Rolls and Bernard BTB 400 A Gun	XR-Aluma-Pro™ Plus Push-Pull MIG Gun	Industrial MIG 4/0 Kit	Cart
Invision	(907431) 208-575 V	Alum	(951844) w/model 907431	D-74 dual-wire feeder with two push-only MIG guns	25 ft. air-cooled	Dinse connectors	Running gear cylinder rack
352 MPa	(907431001) 208-575 V w/aux power		(951411) w/model 907431	S-74 single-wire feeder with one push-only MIG gun	-	Dinse connectors	MIGRunner cart
Invision	(907485) 230/460 V w/aux power	Steel	(951499) w/model 907485	S-74 single-wire feeder with one push-only MIG gun	-	Lug connectors	MIGRunner cart
450 MPa	(907486) 575 V w/aux power		(951457) w/model 907485	D-74 dual-wire feeder with two push-only MIG guns	-	Lug connectors	Running gear cylinder rack
*Additional	packages are available – visit MillerWeld	ds.com or	your distributor.				

Model	Input Power	Amp/Volt Ranges	Rated Output	Amps I 208 V	nput at l 230 V	Rated Lo 400 V	ad Outp 460 V	ut, 60 Hz 575 V	KVA	ĸw	Max. Open- Circuit Voltage	Dimensions	Net Weight
Invision 352 MPa	Three-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)	80 lb. (36.3 kg)
002 111 4	Single-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		D: 24 in. (610 mm)	(00.0 1.6)
Invision 450 MPa	Three-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)

Miller recommends





Hobart[®] aluminum filler metals — wire and cut lengths — have been designed to provide the best performance for the best welds.
These products are backed by the deep industry knowledge of Hobart welding specialists who can help customers find the right aluminum filler metal solution. Every time. No matter how challenging the application.

Visit **HobartBrothers.com** or your local distributor to learn more.

Questions? Hobart is here to help.

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.



More power - better reliability

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

-AUTO-LINE 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.

Continuum Processes Standard **High-Deposition** Best For MIG Accu-Pulse Versa-Pulse Short Circuit RMD Spray Deposition В D D A A Α Gap Filling D D R В Δ Δ D С Low Heat Input В A Α Α Out-of-Position Welds В В В A Low Spatter A A В С В Thick Metals A A С D D Thin Metals В Α Increased Travel Speed Δ Δ Δ ٨ В С нот COLD

*While idling

Amp/Volt Amps Input at Rated Output, 50/60 Hz, 3-Phase Max. Open-**Power Source Dimensions** Power Source Model Rated Output 230 V 380 V 400 V 460 V 575 V KVA KW **Circuit Voltage** Net Weight Stock Number (Includes lift eve) Ranges Continuum (951671) 230-575 V push-only MIGRunner package 20-400 A 350 A at 36.7 21.8 20.8 18.8 14.6 14.4 13.8 72 VDC H: 27.187 in. (691 mm) 127 lb. (951781) 230-575 V push-pull MIGRunner package 31.5 VDC, 0.8* 0.17 (57.6 kg) 350 10-44 V 0-1* 0-1* 0-1* 0-1* W: 17.5 in. (444 mm) 0-1* (907636) 230-575 V power source only 100% duty cycle D: 28.125 in. (714 mm) (907636001) 230-575 V with running gear/cylinder rack Continuum (951672) 230-575 V push-only MIGRunner package 20-600 A 500 A at 72 VDC 148 lh 576 34.7 33.2 28.9 233 23.1 21.9 0-1* 0-1* 0-1* 0.8* 0.17* 0-1* 500 (951782) 230-575 V push-pull MIGRunner package 10-44 V 39 VDC. 0-1* (67.1 kg) (907640) 230-575 V power source only 100% duty cycle (907640001) 230-575 V with running gear/cylinder rack Input Welding Input Maximum Spool Model/Stock Number **Circuit Rating** Wire Feed Speed Wire Diameter Capacity Size Capacity Dimensions Net Weight Power 50 VDC 035-5/64 in Single: 43 lb. (19.5 kg) Continuum Feeder 500 A at Standard: 18 in (457 mm) H: 13 812 in (351 mm) (951631) Single-wire model 100% duty cycle 50-1,000 ipm (0.9-2.0 mm) 60 lb. (27 kg) Single W: 16.312 in. (414 mm) Dual: 61.5 lb. (27.9 kg) (951673) Dual-wire model (1.3-25.4 m/min.) Dual W: 17 in. (432 mm) D: 29.687 in. (754 mm)

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." Increase productivity, improve quality and manage costs with Insight Core[™] (standard) and Insight Centerpoint[™] (optional) welding information management systems (see pages 68 and 69).

Feeder design

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.

> 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.

Heavy industrial

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 Bernard® BTB Gun 400 A and .035/.045 in. V-groove drive rolls Push-pull pkg: Continuum dual-wire feeder with XR-Aluma-Pro Plus gun and .035/.047 in. U-groove drive rolls, and Bernard® BTB Gun 400 A and .035/.045 in. V-groove drive rolls 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[™] Boom-Mounted Feeders* 951635 12 ft. (3.7 m) single-wire 951636 16 ft. (4.9 m) single-wire 951725 12 ft. (3.7 m) dual-wire
- *Feeders include a Bernard BTB Gun 400 A (two with dual-wire models) and .035/.045 in. V-groove drive rolls.
- See literature DC/36.0 for additional booms and options

Most popular accessories

- Bernard[®] MIG Guns (pg 25–26)
- Insight Centerpoint[™] Software (pg 69) - Continuum Running Gear/Cylinder
- Rack 301264 (pg 115) Industrial MIG 4/0 Kits (with lug)
- connectors) (pg 117)
- Continuum Integrated Cooler 301214 Mounts to bottom of power source does not require external power
- Continuum Control/Motor 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.

Auto-Continuum[™] Systems See literature AU/10.0

Next generation automation welding solution delivers advanced arc performance to improve throughput and weld quality.



with robot arm (not included) and Auto-Continuum wire drive motor



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

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

-AUTO-LINE Allows for any input voltage hookup OLOGY (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.™ Increase productivity, improve quality and manage costs.

- Insight Core[™] (standard) is a simplified, internetbased welding information solution that reports cell productivity and weld parameter verification (see page 68).
- Insight Centerpoint[™] (optional) is an advanced, real-time feedback solution to ensure consistent weld quality and actively detects a bad weld when it happens, reducing rework costs and improving quality (see page 69).

Heavy industrial CV DC

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 69) 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, 16.4 ft. (5 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 301276 ABB® 1600 301277 ABB® 2600 300483 FANUC® 100 and 120 IC 300013 FANUC®/KUKA®/Motoman® 300375 Motoman® EA1400 300376 Motoman® EA1900
- 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) Visit MillerWelds.com or your distributor for other Miller® options and accessories.

*While idling.											
Model/Stock Number	Amp/Volt Ranges	Rated Output	Amps Input at 230 V 380 V	•	ut, 50/60 60 V 575	'		Max. Open- Circuit Voltage	Dimensions (Includes lift eye)	N	let Weight
Auto-Continuum 350 (907656) 230-575 V (907658) 230-575 V with auxiliary power		350 A at 31.5 VDC, 100% duty cycle	36.7 21.8 0-1* 0-1*	20.8 18 0-1* 0-	3.8 14.0 -1* 0-1			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) 230-575 V (907659) 230-575 V with auxiliary power		500 A at 39 VDC, 100% duty cycle	57.6 34.7 0-1* 0-1*	33.2 28 0-1* 0-	3.9 23.3 -1* 0-1			72 VDC			150 lb. 69 kg)
Model/Stock Number	Input Power	Input Welding Circui	t Rating	Wire Feed	Speed		Wire Diameter	Capacity	Dimensions	Net We	eight
Auto-Continuum Wire Drive Motor Assembly (301207) Left-hand drive (301208) Right-hand drive	50 VDC	500 A at 100% duty	cycle	Standard: 50-1,000 (1.3-25.4	r		.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	o. (7.5 kg)



Wire Feeders 00



Product				MIG ¹		red ²	Source		Wire	Types					
Guide	Page	Class	MIG	Pulsed	RMD®¹	Flux-cored ²	Power Sourc Required	Hard		cored Self-shld	Alum.	Wire Diameter Capacity	Special Features	Typical Applications	
ArcReach® SuitCase® (8 and 12)	18	•					CC/CV		•	• CV ²		.023-5/64 in. (0.6-2.0 mm)	8 in. (SuitCase 8) or 12 in. (SuitCase 12) diameter spool capacity, remote voltage control without a control cord, powered by arc voltage	Construction, site fabrication, field maintenance	
ArcReach [®] Smart Feeder	18	•					ArcReach equipped	•	•			.035045 in. (0.9-1.1 mm)	12 in. diameter spool capacity, remote voltage control without a control cord, requires an XMT 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive	Process piping, refinery, petrochemical, power plants, HVAC, water pipe	Portable
SuitCase® 12RC	18	•	•	0		•	CV	•	•	•	0	.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	
20 Series (Basic and Digital)	20	•				•	CV	•	•	•		.023-5/64 in. (0.6-2.0 mm)	Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on basic model)	Manufacturing, fabrication	
70 Series (74S and 74D) Singles and Duals	20	•	•			•	CV	•	•	•	0	.023-5/64 in. (0.6-2.0 mm)	Four quick-change drive rolls, remote voltage control (field kit option on 74S models), digital meters (74D only)	Heavy and light manufacturing, fabrication	
70 Series (74 MPa Plus) Singles and Duals	20	•	•	•		•	CV		•	•		.023-5/64 in. (0.6-2.0 mm)	XR-Aluma-Pro [™] Plus or XR [™] -Pistol Plus guns for feeding soft wires	Manufacturing requiring multiple wire types	Bench
70 Series Swingarc™ Singles and Duals	22	•					CV		•	•	•3	.023-5/64 in. (0.6-2.0 mm)	12 and 16 ft. booms, four drive rolls, adjustable weld control	Heavy and light manufacturing, fabrication	
70 Series Remote Configurations Singles and Duals	22	•				•	CV		•	•	•3	.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	
1	Smai	rt Fee	eder r	equir	es an I wire	XMT® s requ	® 350 FieldPı uire CV outpu	ro™ co ıt. Mill	er recommer	nree-phase p	ower o er sou	r an ArcReach-equipped engine driv rce whenever possible.	Capable of this process e. All other feeders require an MPa inverter power source.		

³ 74S and 74D models are capable of aluminum welding. 74 MPa Plus models are designed for aluminum welding.

O Wire Feeders | Portable

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	8	12	Smart	12RC
Available with Bernard gun:				
BTB Gun 300 A				
S-Gun				
Dura-Flux gun				
PipeWorx gun				
Remote voltage control				
(control cord required)				
Remote voltage control (without a cord)				
Digital meters				
Impact-resistant case				
Gas purge				
Wire jog				

<complex-block>

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.



Bernard BTB Gun 300 A shown.

Feeders **include** a male Tweco[®] connector installed on weld cable and are **available** with a Bernard[®] gun and drive rolls (see chart on page 19). BTB Gun 300 A and S-Gun[™] come with reversible dual size (.045 and 1/16 in. V-knurled) drive rolls. Dura-Flux[™] flux-cored gun comes with reversible dual size (.068/.072 and 5/64 in. V-knurled) drive rolls. PipeWorx 300-15 gun comes with reversible dual size (.035 V-grooved and .045 in. V-knurled) drive rolls.

Setting the standard for performance

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 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 allow you to drag the feeder into position for welding.

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 for the harshest environments adds exceptional reliability. 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.

Portable | Wire Feeders O

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

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 41, 44–45 and 76–81 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 off of 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[™] (page 44) connected to three-phase power or an ArcReach-equipped engine drive (pages 76–81).

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.



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.

			-						
	Model	Stock Number*	Input Power	Input Welding Circuit Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
	ArcReach SuitCase 8	(951726) w/Bemard BTB Gun 300 A (951727) w/Bemard S-Gun (951728) w/Bemard Dura-Flux gun (301457) Feeder only	Operates on open-circuit voltage and arc voltage: 14-48 VDC/	330 A at 60% duty cycle	50-780 ipm (1.3-19.8 m/min.) dependent on arc voltage	Solid wire .023052 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	ArcReach SuitCase 12	(951729) w/Bemard BTB Gun 300 A (951730) w/Bemard S-Gun (951731) w/Bemard Dura-Flux gun (951732) w/Bemard PipeWorx gun (301456) Feeder only	110 max. OCV	425 A at 60% duty cycle		Solid wire .023052 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 Smart Feeder	(951733) w/Bemard PipeWorx gun (300935) Feeder only	XMT 350 FieldPro connected to three- phase power or an ArcReach-equipped engine drive	275 A at 60% duty cycle	50-780 ipm (1.3-19.8 m/min.) dependent on arc voltage	.035045 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	(951580) 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 .023052 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)

Heavy industrial 🛑 🕰 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 40)
 Dynasty[®] 280 DX Multiprocess
- (pg 40) ■ Dimension[™] 650/650 ArcReach[®] (pg 41)
- XMT[®] Series (pg 42-45)
- Bobcat[™] 200 Air Pak[™] (pg 73)
- Bobcat[™] Series (pg 74)
- Trailblazer[®] Series (pg 76–78)
- Big Blue[®] Series (pg 78-81)

For ArcReach Smart Feeder

- XMT[®] 350 FieldPro (pg 44) (requires three-phase power)
- Trailblazer® Series
 (AreBoach models only) (nd
- (ArcReach models only) (pg 76) • Big Blue® Series

(ArcReach models only) (pg 78–81) For SuitCase 12RC (requires power

- source with 14-pin connector)
- Dimension[™] 650 (pg 41)
- XMT[®] Series (pg 42)
- Trailblazer[®] Series (pg 76–78)
- Big Blue® Series (pg 78-81)

Suggested guns

Bernard[®] Guns (pg 25-26) Most popular accessories

- Extension Cables (pg 122) (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.

20 Series Industrial Bench Feeders

70 Series Heavy-Industrial Bench Feeders

Designed for manufacturing, our popular bench feeders are available in two series with multiple models to fit your needs.

20 and 70 Series Features

20 Series

Basic Digital

70 Series

74S

74D 74MPa

20 Series Digital



Feeders **include** a 10 ft. interconnecting cord and are **available** with a Bernard[®] gun and drive rolls (see chart on page 21). Feeders with BTB Gun 300 A (20 Series) or BTB Gun 400 A (70 Series, two with dual-wire models) come with Centerfire™ contact tips and .035/.045 in. drive rolls.

S-74 MPa Plus

D-74 MPa Plus

Bernard BTB Gun 300 A shown.

S-74D

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.

Feeders include a 10-foot 14-pin interconnecting cord and are available with a 15-foot Bernard BTB Gun 300 A (20 Series) or BTB Gun 400 A (70 Series, two with dual-wire models).

Additional features for 70 Series feeders

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.

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

20 Series (Basic and Digital) See literature M/11.0

Simple and cost-effective feeders for industrial manufacturing and fabricating.

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.

BTB Gun 300 A BTB Gun 400 A Irigger hold

Available w/Bernard gun:

Feature

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			
Trigger program select			
Trigger dual schedule			
Sequence control			
Locks and limits			
Weld programs			4
Trigger schedule select			
Push-pull capability			
Synergic pulsed MIG			
Profile Pulse™			
Standard Standard Standard	ion		

Bench | Wire Feeders O

70 Series (74S and 74D) See literature M/3.0

Standard, simple feeders for most heavy-industrial applications, with the 74D providing increased accuracy and control of the most common weld parameters.

Digital meters (74D models only) ensure accuracy when presetting and reading actual voltage, amperage and wire feed speed. **Remote voltage control (standard on 74D, field option on 74S)** allows you to set both voltage and wire feed speed at the feeder, saving time and increasing weld quality because optimal weld parameters are easy to set.

70 Series (74 MPa Plus) See literature M/3.0

Adds features for weld control and programs, plus push-pull aluminum capabilities. Optimized with Invision[™] MPa or XMT[®] MPa power sources.

Adjustable run-in control for improved arc starts.

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

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

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

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

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

Four weld program memories allow operators to recall up to four previously used processes and their weld settings.

Push-pull capability provides consistent, versatile and dependable aluminum wire feeding over greater distances.

Recommended aluminum solution.

Dedicated XR Plus guns (gooseneck and pistol grip) 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 chart below for gun models and stock numbers.

Additional features when used with Invision 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, eliminating 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.

Industrial 🛑 20 Series

Heavy industrial 🛑 70 Series

CV DC Use with CV, DC power sources.

Processes

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

Suggested power sources

- Invision[™] MPa Series (pg 14)
 Dimension[™] 650/650 ArcReach[®] (pg 41)
- XMT[®] Series (pg 42–45)

Suggested guns

 Bernard[®] Guns (pg 25–26)
 XR-Aluma-Pro[™] Plus and XR[™]-Pistol Plus (see chart below)

Most popular accessories

- Feeder Cart 142382 (pg 114)
- Extension Cables (pg 122)
- Spool Adapter 047141 (pg 122)
- Turntable Assembly 146236 (pg 122)
- Wire Straightener (pg 122)
- Field Kits for 20 Series Basic
 301513 Digital meter and remote voltage control
- 301515 Run-in control
- Field Kits for 70 Series (74S) 194988 Remote voltage control for
- single-wire models 194991 Remote voltage control for
- dual-wire models ■ Hanging Bail 058435
- Spool Covers
 - 057607 For 20 and 70 Series single-wire models and left side of dual-wire models 090389 For right side of
- dual-wire models • Wire Reel Assembly 108008
- Remote configurations are available see page 22 and literature M/3.0 Visit MillerWelds.com or your distributor for other Miller® options and accessories.

*Additional packages are available – visit MillerWelds.com or your distributor. **Requires wire kit (230708) to run 1/16 in. (1.6 mm) wire.

Model 20 Series	Stock Number* Basic (301499) Feeder only Basic (951779) w/Bernard BTB Gun 300 A			Input Power 24 VAC, 3.5 A,	Wire Feed Speed 75-750 ipm (1.9-19 m/min.)		ype and Diameter Capac 5/64 in. (0.6–2.0 mm)	ity	Maximum Spool Size Capacity 60 lb. (27 kg) coil with optional	Dimensions H: 16 in. (406 mm) W: 12.375 in. (314 mm)	Net Weight 46 lb. (21 kg)
	Digital (301499001) Fe Digital (951780) w/Ber	,		50/60 Hz					wire reel assembly (108008)	D: 27.875 in. (708 mm)	
70 Series (Single-wire models)	S-74S (951196) w/Bernard BTB Gun 400 A S-74D (951198) w/Bernard BTB Gun 400 A S-74 MPa Plus (951291) w/Bernard BTB Gun 400 A			24 VAC, 10 A, 50/60 Hz	A, (1.3-19.8 m/min.) MPa /60 Hz Hard		5/64 in. (0.6-2.0 mm) 'lus model vire .023-5/64 in. (0.	6-2.0 mm)	60 lb. (27 kg) coil with optional wire reel assembly	H: 14 in. (356 mm) W: 12.5 in. (318 mm) D: 28 in. (711 mm)	48 lb. (21.2 kg)
70 Series (Dual-wire models)	D-74D (951204) w/Ber	1203) w/Bernard BTB Gun 400 A 1204) w/Bernard BTB Gun 400 A Plus (951292) w/Bernard BTB Gun 400 A					Numinum** .035-1/16 in. (0.9-1.6 mm)		(108008)	H: 14 in. (356 mm) W: 21 in. (533 mm) D: 35 in. (889 mm)	87 lb. (39.5 kg)
Optional Push (For MPa Plus		Cable Le 15 ft. (4.6 m)	ngth 25 ft. (7	′.6 m)	Welding Current Rating	ğ	Wire Feed Speed	Wire Type ar Diameter Ca		Dimensions	Gun Only Net Weight
XR-Aluma-Pro	Plus (Air-cooled)	(301575)	(301574)		300 A at 100% duty cyc	le	70–780 ipm (1.8–19.8 m/min.)	Aluminum**	n. (0.8–1.6 mm)	H: 5 in. (127 mm) W: 2.5 in. (64 mm)	2.5 lb. (1.1 kg)
XR-Aluma-Pro	XR-Aluma-Pro Plus (Water-cooled)		(301577)		400 A at 100% duty cyc	le	(1.0-13.0 11/11111.)	.030-1/101	i. (0.0-1.0 IIIII)	L: 17 in. (432 mm)	2.9 lb. (1.3 kg)
XR-Pistol Plus	XR-Pistol Plus (Air-cooled)		(300753) (300754)		200 A at 100% duty cyc	200 A at 100% duty cycle		Aluminum**		H: 7.375 in. (187 mm) W: 1.875 in. (48 mm) L: 10.625 in. (270 mm)	2.2 lb. (1 kg)
XR-Pistol Plus	XR-Pistol Plus (Water-cooled)		(30075)	7)	400 A at 100% duty cycle		(1.8-19.8 m/min.)	.030-1/16 in. (0.8-1.6 mm)			2.4 lb. (1.1 kg)



70 Series Swingarc[™] See literature M/13.11

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



Single- and dual-wire models with 12- or 16-foot booms are sized to accommodate a variety of weld cell layouts (24- or 32-foot diameter

work area). Counterbalance design makes it easy to position boom and 360-degree rotation and 60-degree lift angle maximize work area.

In-boom cable routing organizes hoses and cables for a cleaner work environment.

MPa Plus Swingarc. Optimized for the Invision[™] MPa and XMT[®] MPa power sources and available in single- or dual-wire models in two boom lengths.

Heavy industrial

Use with CV, DC power sources

Processes

- MIG (GMAW) = Flux-cored (FCAW) Pulsed MIG (GMAW-P) with MPa Plus
- control and optional MPa power source

Suggested power sources/guns

Same as 70 Series

Most popular accessories

- Swingpak[™] Base 183997 Pipe Post with 18 in. Base 149838 4 ft.
- 149839 6 ft. Single/Dual Spool Carrier 300353 For 4 ft. post 300352 For 6 ft. post Pipe post not included carrier is designed to

put spool hub assembly at 36 inches from base for easier wire spool installation

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

Model	Single-Wire Model Stock Numbers	Dual-Wire Model Stock Numbers	Input Power	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Net Weight with Feeder
12 ft. (3.7 m) Boom	SS-74D12 (951526) w/S-74D SS-74 MPa Plus-12 (951438) w/S-74 MPa Plus	DS-74D12 (951535) w/D-74D DS-74 MPa Plus-12 (951441) w/D-74 MPa Plus	24 VAC, 10 A, 50/60 Hz	50-780 ipm (1.3-19.8 m/min.)	.023-5/64 in. (0.6-2.0 mm)	60 lb. (27 kg) coil with optional wire reel assembly	Single-wire model: 160 lb. (73 kg) Dual-wire model: 207 lb. (94 kg)
16 ft. (4.9 m) Boom	\$\$-74D16 (951527) w/S-74D \$\$-74 MPa Plus-16 (951439) w/S-74 MPa Plus	DS-74D16 (951536) w/D-74D DS-74 MPa Plus-16 (951442) w/D-74 MPa Plus				(108008)	Single-wire model: 210 lb. (95 kg) Dual-wire model: 280 lb. (127 kg)

70 Series 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

300881 S-74S

300882 S-74D

Note: MPa Plus wire drive motor assemblies and control cables are only for use with MPa Plus control boxes.





Push-only wire drive motor assembly 300741001 Standard right-hand drive 300741 MPa Plus right-hand drive

Dual-wire control box 300886 D-74S 300887 D-74D 300739 D-74 MPa Plus



Wire drive motor assembly 300904 Standard left-hand drive 300740 MPa Plus left-hand drive MPa Plus drive can be used with push-only guns, OR XR-Aluma-Pro[™] Plus and XR[™]-Pistol Plus push-pull guns.

<u>CV DC</u> Heavy industrial 🔴

Use with CV, DC power sources.

Processes

- MIG (GMAW) = Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MPa Plus control and optional MPa power source

Suggested power sources/guns Same as 70 Series

Most popular accessories

- Motor Control Cable (11 conductor) 254935010 10 ft. (3 m) 254935025 25 ft. (7.6 m) For push-only gun configurations MPa Plus Motor Control Cable
- (14 conductor) 254864010 10 ft. (3 m) 254864025 25 ft. (7.6 m) 254864050 50 ft. (15.2 m) For MPa Plus configurations only single-wire or left side of dual-wire



- Feeder Base 195369 For use with spooled wire Visit MillerWelds.com or your distributor for other Miller® options and accessories.



MIG Guns

Product				MIG	red*		Wire	Types				
Guide	Page	Class	MIG	Pulsed	Flux-col	Hard	Flux- Dual-shid		Alum.	Wire Diameter Capacity	Available Cable Lengths	Typical Applications
MIGmatic [™] M-100 MIG Gun	23							O CV**		.023045 in. (0.6-1.2 mm)	10 ft.	Light industrial steel fabrication
MIGmatic [™] M-150 MIG Guns	23				\bigcirc		\bigcirc	●CV**		.023045 in. (0.6-1.2 mm)	10, 12 or 15 ft.	Light industrial steel fabrication
MDX [™] -100 MIG Gun	24				$oldsymbol{O}$		\bigcirc	CV **		.023045 in. (0.6-1.2 mm)	10 ft.	Light industrial steel fabrication
MDX [™] -250 MIG Guns	24			\bigcirc	$oldsymbol{O}$			●CV**		.023045 in. (0.6-1.2 mm)	10, 12 or 15 ft.	Industrial steel fabrication
MDX [™] -250 EZ-Select [™] MIG Guns	24			\bigcirc	\bigcirc			CV **		.023045 in. (0.6-1.2 mm)	15 ft.	Industrial steel fabrication
Bernard [®] BTB MIG Guns	25			$oldsymbol{O}$	$oldsymbol{O}$			●CV**		.023-1/8 in. (0.6-3.2 mm)	10, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Bernard [®] Clean Air [™] Fume Extraction Guns with Straight Handle	26	•	•	0	0	•	٢	O CV**		.023-1/8 in. (0.6-3.2 mm)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Bernard® Clean Air [™] Fume Extraction Guns with Curved Handle	26	•	•	0	0	•	۲	○CV**		.023-5/64 in. (0.6-2.0 mm)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Bernard® Dura-Flux™ Guns with Replaceable Liner	26	•			•			CV **		.045-5/64 in. (1.2-2.0 mm)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Bernard® Dura-Flux™ Guns with Fixed Liner	26	•			•			C V**		1/16-3/32 in. (1.6-2.4 mm)	8, 10, 12, 15, 20, or 25 ft.	Heavy industrial steel fabrication
Spoolmate [™] Spool Guns	27	•	•			•			•	100/200/3035 models: .023035 in. (0.6-0.9 mm) 150 model: .030035 in. (0.8-0.9 mm)	100 model: 12 ft. 150/200/3035 models: 20 ft.	Light industrial aluminum fabrication
Spoolmatic [®] Spool Guns	28			\bigcirc	$oldsymbol{O}$			CV **		.030-1/16 in. (0.8-1.6 mm)	15 or 30 ft.	Industrial aluminum fabrication
XR-Aluma-Pro™ Lite Push-Pull Gun	29					\bigcirc				.030047 in. (0.8-1.2 mm)	25 ft.	Industrial aluminum fabrication
XR-Aluma-Pro™ Push-Pull Guns	29					\bigcirc				.030-1/16 in. (0.8-1.6 mm)	15, 25 or 35 ft.	Heavy industrial aluminum fabrication
XR [™] -Pistol Push-Pull Guns	29	•	•	•						.030-1/16 in. (0.8-1.6 mm)	Pistol: 15 or 30 ft. Pistol-Pro: 15, 25 or 35 ft.	Heavy industrial aluminum fabrication

Product Key

Class:
Light industrial
Heavy industrial

Capability: O Designed for this process O Capable of this process *Requires MPa inverter power source. **Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.

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

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



Three-piece nozzle construction extends nozzle life by reducing wear and helps prevent rocking of nozzle on contact tip adapter.

Interchangeable contact tips and monocoil liners help reduce parts inventory.

Brass contact tip adapter helps prevent galling, sticking and stripping of threads.

Steel spring strain relief protects power cable from wear and helps prevent liner from kinking, allowing better wire feedability.

Light industrial 🔵

Processes

MIG (GMAW) = Flux-cored (FCAW)

Steel

Aluminum

Suggested power sources

- Millermatic[®] 141/211 (M-100/M-150) (pg 7)
- Multimatic 200 (M-150) (pg 37)
- Multimatic 215 (M-100/M-150) (pg 37)

Most popular accessories

- MIGmatic M-Series Consumable Kits (pg 117)
- 234607 .023 in. (0.6 mm)
- 234608 .030 in. (0.8 mm)
- 234609 .035 in. (0.9 mm)
- MIGmatic M-Series Guns AccuLock[™] Conversion Kit 1880269 Allows M-100 and M-150 MIG guns to upgrade to AccuLock[™] MDX[™] nozzles and tips (see pg 24) 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 \mbox{CO}_2 gas, 60% with mixed gas	.023045 in. (0.6-1.2 mm)	3.2 lb. (1.5 kg)
M-150	(249039)	10 ft. (3 m)	150 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.023045 in. (0.6-1.2 mm)	4.4 lb. (2.0 kg)
	(249040)	12 ft. (3.7 m)				4.7 lb. (2.1 kg)
	(249041)	15 ft. (4.6 m)				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.



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

EZ-Select[™] **function** allows you to conveniently select from up to four weld programs by tapping the MIG gun trigger rather than walking back to the machine. Lights on handle indicate weld program selected (MDX-250 EZ-Select only).



Flawless wire feeding path. Front-loading liner is locked (without set screws) and concentrically aligned

gas diffuser locks tips in place for optimal performance.

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

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 \mbox{CO}_2 gas, 60% with mixed gas	.030035 in. (0.8-0.9 mm)	AccuLock MDX Series
MDX-250	(1770035)	10 ft. (3 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.030035 in. (0.8-0.9 mm)	AccuLock MDX Series
	(1770036)	12 ft. (3.7 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.030035 in. (0.8-0.9 mm)	AccuLock MDX Series
	(1770037)	15 ft. (4.6 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.030035 in. (0.8-0.9 mm)	AccuLock MDX Series
	(1770038)	15 ft. (4.6 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.035045 in. (0.9-1.2 mm)	AccuLock MDX Series
	(1770041)	10 ft. (3 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.035045 in. (0.9-1.2 mm)	AccuLock S Series
	(1770042)	12 ft. (3.7 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.035045 in. (0.9-1.2 mm)	AccuLock S Series
	(1770043)	15 ft. (4.6 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.035045 in. (0.9-1.2 mm)	AccuLock S Series
MDX-250	(1770046)	15 ft. (4.6 m)	250 A	100% with \mbox{CO}_2 gas, 60% with mixed gas	.035045 in. (0.9-1.2 mm)	AccuLock S Series
EZ-Select	(1770047)	15 ft. (4.6 m)	250 A	100% with CO_2 gas, 60% with mixed gas	.030035 in. (0.8-0.9 mm)	AccuLock MDX Series

AccuLock[™] MDX[™] Consumables See literature AY/15.5

is tightened



Contact tip tail is cooled by shielding gas

Coarse thread speeds

tip replacement

AccuLock MDX cutawavs shown Liner lock self-aligns to back of contact tip when gas diffuser

> Tapers lock consumables for excellent electrical conductivity

Threaded nozzle stays tight during use/cleaning due to the steel retaining ring on the diffuser

AccuLock MDX AccuLock S Upgrade to Bernard® AccuLock S consumables for increased durability and longer life when guns are used in pulsed welding or more industrial applications. See page 25 for more information.

Light industrial MDX-100 Industrial – MDX-250/250 EZ-Select

Processes

- MIG (GMAW) = Flux-cored (FCAW)
- Pulsed MIG (GMAW-P) with MDX-250/250 EZ-Select

Suggested power sources

For MDX-100

- Millermatic[®] 141/211 (pg 7)
- Multimatic[®] 215 (pg 37) Multimatic[®] 220 AC/DC (pg 38)

For MDX-250

- Millermatic[®] 212 Auto-Set[™] (pg 8)
- Millermatic[®] 252 (pg 8)
- Millermatic[®] 255 (pg 9)
- Multimatic[®] 200 (pg 37)
- Multimatic[®] 255 (pg 39)

For MDX-250 EZ-Select

- Millermatic[®] 255 (pg 9)
- Multimatic[®] 255 (pg 39)

Most popular consumables

AccuLock Co	onsumables
Liners (inche	s)
LM1A-10 .0	23–.025, 10 ft. length
LM2A-10 .0	30035, 10 ft. length
LM3A-10 .0	35045, 10 ft. length
LM1A-12 .0	23025, 12 ft. length
	30035, 12 ft. length
LM3A-12 .0	35045, 12 ft. length
LM1A-15 .0	23–.025, 15 ft. length
LM2A-15 .0	30035, 15 ft. length
LM3A-15 .0	35–.045, 15 ft. length
Diffusers	
D-M100	MDX-100
D-M250	MDX-250
D-MA250M	MDX-250 AccuLock S
	conversion
MDX-100 No	zzles (inches)
NS-M1200B	1/2 ID, flush, brass
NS-M1200C	1/2 ID, flush, copper
NS-MFLX	Gasless nozzle
MDX-250 No	zzles (inches)
AccuLock MI	X
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	
N-A5814CM	5/8 ID, 1/4 rec., copper
Contact Tips	(inches)
AccuLock MI	DX
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.

24

Steel | MIG Guns

Bernard[®] Semi-Automatic Guns

Miller offers rugged and reliable Bernard welding guns that have been customized to match the performance of many of its industrial wire feeders and power sources.

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

Our rugged Bernard BTB MIG guns bring together all the best features and options from our former Q-Gun, S-Gun and T-Gun MIG guns into a single, flexible gun series.



Fully configurable BTB MIG guns help keep your skilled welders comfortable while also increasing their productivity. Choose from a variety of necks, handles and trigger styles to optimize welder ergonomics and weld access, then standardize with a single line of consumables to simplify maintenance and contain costs. See chart below for a pre-configured BTB MIG gun or visit MillerWelds.com to view a complete list. Configure your BTB MIG gun by visiting BernardWelds.com/ConfigureMyGun

All guns in chart come with a Miller® power pin and a Universal Conventional liner except: *Comes with a Miller power pin and a QUICK LOAD® liner AutoLength™ system.

Stock Number	Amperage	Cable Length	Handle	Trigger	Neck	Consumables	Wire Size
Q3015AE8XMC	300	15 ft. (4.6 m) Hytrel® polymer	B Series small curved	Standard	Rotatable med. 45°	Centerfire [™] (flush)	.045 in. (1.2 mm)
Q3015AE8EMC	300	15 ft. (4.6 m) Hytrel® polymer	B Series small curved	Standard	Rotatable med. 45°	Centerfire™	.045 in. (1.2 mm)
Q3015TE5EMC	300	15 ft. (4.6 m) Hytrel® polymer	O Series small curved	Standard	Rotatable med. 45°	Quik Tip™	.045 in. (1.2 mm)
Q3015AE8HMC	300	15 ft. (4.6 m) Hytrel® polymer	B Series small curved	Standard	Rotatable med. 45°	Centerfire™	.052 in. (1.3 mm)
Q4015AE8EMC	400	15 ft. (4.6 m) Hytrel® polymer	B Series curved	Standard	Rotatable med. 45°	Centerfire™	.045 in. (1.2 mm)
Q4015TE5EMC	400	15 ft. (4.6 m) Hytrel® polymer	O Series small curved	Standard	Rotatable med. 45°	Quik Tip™	.045 in. (1.2 mm)
Q4015VS3EML*	400	15 ft. (4.6 m) Hytrel® polymer	C Series straight	Standard	Fixed med. 60°	TOUGH LOCK®	.045 in. (1.2 mm)
Q4015MS3EMC	400	15 ft. (4.6 m) Hytrel® polymer	T Series straight	Standard	Fixed med. 60°	TOUGH LOCK®	.045 in. (1.2 mm)
Q4015AE8HMC	400	15 ft. (4.6 m) Hytrel® polymer	B Series curved	Standard	Rotatable med. 45°	Centerfire™	.052 in. (1.3 mm)
Q4020MF8HMC	400	20 ft. (6.1 m) Hytrel® polymer	T Series straight	Standard	Rotatable med. 60°	Centerfire™	.052 in. (1.3 mm)
Q4015AE8IMC	400	15 ft. (4.6 m) Hytrel® polymer	B Series curved	Standard	Rotatable med. 45°	Centerfire™	1/16 in. (1.6 mm)
Q4025MF8IMC	400	25 ft. (7.6 m) Hytrel® polymer	T Series straight	Standard	Rotatable med. 60°	Centerfire™	1/16 in. (1.6 mm)
S4025MF8IMC	400	25 ft. (7.6 m) steel monocoil	T Series straight	Standard	Rotatable med. 60°	Centerfire™	1/16 in. (1.6 mm)
Q4015MS3IMC	400	15 ft. (4.6 m) Hytrel® polymer	T Series straight	Standard	Fixed med. 60°	TOUGH LOCK®	1/16 in. (1.6 mm)
Q4015NS3IMC	400	15 ft. (4.6 m) Hytrel® polymer	T Series straight	Locking	Fixed med. 60°	TOUGH LOCK®	1/16 in. (1.6 mm)

Bernard[®] AccuLock[™] S Consumables See Bernard literature SP-ALS



Load and lock for flawless wire feeding

- Shorten your troubleshooting list by reducing liner misalignment and gaps
- Error-proof your liner installation no measuring required!

Reduce parts, increase accuracy

 Use AccuLock S consumables on both your Bernard BTB and Miller[®] MDX-250 MIG guns (see page 24) to simplify inventory and reduce replacement errors

Heavy industrial

Processes

MIG (GMAW) = Flux-cored (FCAW)

Pulsed MIG (GMAW-P)

- **Duty cycle ratings** • 100% with CO₂
- = 100% WILLI CU₂
- 60% with mixed gases

Suggested feeders

- Intellx[™] Feeders (pg 13)
- Continuum[™] Feeder (pg 15)
- SuitCase[®] Series (pg 18)
- 20 and 70 Series Feeders (pg 20–22)

Suggested power source

Millermatic[®] 350P (pg 10)

Most popular consumables

Centerfire Consumables

Diffusers (amps) DS-1 200, 300, small

D-1 400, 500, 600, large

Brass Nozzles (inches) NS-1218B 1/2 ID, 1/8 rec., small

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

1-052	.052
T-062	1/16

Quik Tip Consumables

Diffusers (amps) **D1180** 200, 300, 400

D114Q 500, 600

Plated Copper Nozzles (inches) N1C58Q 5/8 ID

N1C34HQ 3/4 ID, HD Contact Tips (inches)

T1035 .035 **T1045** .045

TOUGH LOCK Consumables

Diffusers (amps) 404-18-25 200, 300, 400 SD 404-26-25 300, 400, 500, 600 HD

Copper Nozzles (inches)						
401-4-62	5/8 ID, 1/8 rec., SD					
401-6-62	5/8 ID, 1/8 rec., HD					
401-5-62	5/8 ID, 1/4 rec., HD					
401-5-75	3/4 ID, 1/4 rec., HD					

Contact Tips (ind	ches)
403-14-35-25	.035 SD
403-20-35-25	.035 HD
403-14-45-25	.045 SD
403-20-45-25	.045 HD
403-20-52-25	.052 HD
400 00 440 05	4 /4 0 110

403-20-116-25 1/16 HD

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



For more detailed information, visit **BernardWelds.com**



Bernard[®] Semi-Automatic Guns

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







Clean Air[®] Fume Extraction MIG Guns See Bernard literature SP-CLA

Maintaining a clean working environment is important and Bernard understands the need for a reliable fume extraction solution. Extract fumes at the weld bead using either of our two models and a FILTAIR° fume extractor.

Clean Air straight handle gun

- Available in 300-, 400-, 500- and 600-amp models
- Compatible with Centerfire, Quik Tip and TOUGH LOCK consumables
- · Ergonomic, lightweight handle with rear swivel improves operator comfort

Clean Air curved handle gun

- Available in 300- and 400-amp models
- Compatible with Centerfire, Quik Tip and TOUGH LOCK consumables
- Small lightweight handle maximizes maneuverability and comfort

Dura-Flux[®] Self-Shielded Flux-Cored Guns

See Bernard literature SP-DF

For structural steel applications, bridge construction and heavy equipment repair, Bernard offers two types of 350-amp self-shielded flux-cored guns.

Dura-Flux gun with replaceable power cable liner

- Replaceable power cable liner allows quick and easy power cable maintenance
- Quik Tip consumables provide excellent heat transfer and electrical conductivity

Dura-Flux gun with fixed power cable liner

- Ultra-heavy-duty steel monocoil power cable is highly resistant to kinking
- · Centerfire consumables are easy to use and high performing, providing better arc starts, less spatter and more consistent welds

Bernard[®] Welding Consumables (cutaways shown)



Centerfire[™] consumables See Bernard literature SP-CFC

- Drop-in contact tip (no tools required to replace tip or nozzle) means quick changeover and reduced downtime
- Spatter shield within nozzle holds tip in place, protects diffuser and directs gas evenly with reduced turbulence
- Diffuser mates securely with contact tip for better conductivity



Quik Tip[™] consumables See Bernard literature SP-OTC

- A quick twist is all it takes to install contact tips
- Threaded taper lock increases tip life and allows excellent heat transfer and electrical conductivity
- Fixed contact tip position for repeatability and consistent quality welds



TOUGH LOCK® consumables See Bernard literature SP-TLC

- Dual taper technology keeps consumables locked from tip to neck for improved weld consistency, positive electrical conductivity and maximized heat dissipation
- Consumables run cooler, improving performance and extending life



Heavy industrial

Processes

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

Duty cycle ratings

- 100% with CO₂
- 60% with mixed gases

Suggested feeders

- Intellx[™] Feeders (pg 13)
- Continuum[™] Feeder (pg 15)
- SuitCase[®] Series (pg 18)
- 20 and 70 Series Feeders (pg 20–22)

Suggested power source

- Millermatic[®] 350P (pg 10)
- Suggested fume extractor
- FILTAIR[®] 130 (pg 99)

Most popular consumables

Centerfire Consumables 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							

Contact Tip Insulator (Dura-Flux only) 7010024 Fixed power cable liner

Contact Tip Holder (Dura-Flux only) 7010026 Fixed power cable liner

Quik Tip Consumables

Diffusers (amps) D118Q 300, 400 **D114Q** 500, 600

Plated Copper Nozzles (inches) N1C580 -5/8 ID

MTC20K	5/ 6 ID
N1C34Q	3/4 ID

Contact Tips (inches)

T1035 .035

T1045 045

T1116 1/16

Contact Tip Insulator (Dura-Flux only) **7010062** Replaceable power cable liner

TOUGH LOCK Consumables

Diffusers (amps) 404-44-25 300, 400, 500, 600 HD

Copper Nozzles (inches) 401-6-62 5/8 ID, 1/8 rec., HD 401-5-75 3/4 ID, 1/4 rec., HD Contact Tips (inches) 403-20-35-25 .035 HD

403-20-45-25	.045 HD
403-20-52-25	.052 HD
403-20-116-25	1/16 HD

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

For more detailed information, visit BernardWelds.com



Aluminum | MIG Guns

Spoolmate[®] **Spool Guns**

Reliable and economical spool guns designed for home hobbyists and light fabricators.



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









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-knurled 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-knurled 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 hard wires

Suggested power sources

For Spoolmate 100

- Millermatic[®] 141/211 (pg 7)
- Multimatic[™] 200/215 (pg 37)
- Multimatic[™] 220 AC/DC (pg 38)
- Syncrowave® 210 (pg 53)
- (requires MIG accessory kit 301254) For Spoolmate 150

Millermatic[®] 211 (pg 7)

- Multimatic[™] 200 (pg 37) effective with serial number MF364047N
- Multimatic[™] 215 (pg 37)
- Multimatic[™] 220 AC/DC (pg 38)
- Syncrowave[®] 210 (pg 53) (requires MIG accessory kit 301254)

For Spoolmate 200

- or Spoolmate 200
- Millermatic[®] 212 Auto-Set[™] (pg 8)
- Millermatic[®] 252 (pg 8)
- Millermatic[®] 255 (pg 9)
 Multimatic[®] 255 (pg 20)
- Multimatic[®] 255 (pg 39)
 Bobcat[™] 200 Air Pak[™] (pg 73)

For Spoolmate 3035

- Direct connect to vintage Millermatic 210/212 tapped-voltage models
- Millermatic[®] 141/211 (pg 7) (requires SGA 100 control 043856)
- Bobcat[™] 225 (pg 74) (requires SGA 100C control 043857)

Most popular accessories

For Spoolmate 200

- 45-Degree Head Tube 3005919-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

- SGA 100 043856 (pg 122)
- SGA 100C 043857 (pg 122)
- Heavy-Duty Head Tube 195375

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

	All starting of the second sec					
Model/ Stock Number	Welding Current Rating	Wire Feed Speed	Wire Type and Diameter Capacity	Maximum Spool Size Capacity	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 .030035 in. (0.8-0.9 mm) Solid steel .023035 in. (0.6-0.9 mm) Stainless .023035 in. (0.6-0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 3 in. (76 mm) L: 13 in. (330 mm)	6 lb. (2.7 kg) 9 lb. (4.1 kg) with case
Spoolmate 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 .030035 in. (0.8-0.9 mm) Solid steel .030035 in. (0.8-0.9 mm) Stainless .030035 in. (0.8-0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 3 in. (76 mm) L: 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 .030035 in. (0.8-0.9 mm) Solid steel .023035 in. (0.6-0.9 mm) Stainless .023035 in. (0.6-0.9 mm)	4 in. (102 mm)	H: 9 in. (229 mm) W: 2.5 in. (64 mm) L: 14.5 in. (368 mm)	11 lb. (5 kg)
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 .030035 in. (0.8-0.9 mm) Solid steel .023035 in. (0.6-0.9 mm) Stainless .023035 in. (0.6-0.9 mm)	4 in. (102 mm)	H: 11.5 in. (291 mm) W: 2.25 in. (57 mm) L: 8 in. (203 mm)	9.1 lb. (4.1 kg)

Spoolmatic[®] Spool Guns

Portable, aluminum wire feeder for industrial applications.



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 (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 • Free DC Use with CC/<u>CV, DC power sources</u>

Processes

- MIG (GMAW) with aluminum and other soft alloy wires
- MIG (GMAW) with hard wires
- Pulsed MIG (GMAW-P) with

optional pulsing power source

Suggested power sources

- Millermatic[®] 212 Auto-Set[™] (pg 8)
- Millermatic[®] 252 (pg 8)
- Millermatic[®] 255 (pg 9)
- (non-Pro gun only) Millermatic[®] 350P/350P Aluminum (pg 10) (non-Pro gun only)
- Multimatic[®] 255 (pg 39) (non-Pro gun only)
- Bobcat[™] 200 Air Pak[™] (pg 73)
- Bobcat[™] Series (pg 74) (requires WC-115A with contactor 137546011)

These power sources require

- WC-24 control (137549) ■ AlumaPower[™] MPa (pg 11)
- Invision[™] MPa (pg 14)
- Dimension[™] 650/650 ArcReach[®] (pg 41)
- XMT[®] Series (pg 42–45)
- Trailblazer[®] Series (pg 76–78)

Most popular accessories

- WC-115A 137546 (pg 122)
 WC-115A with contactor
- 137546011 (pg 122)
- WC-24 137549 (pg 122)

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

*Spoolmatic Pro requires 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	Dimensions	Gun Only Net Weight	
Spoolmatic (195156) 15 ft. (4.5 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 or Millermatic used	Aluminum* .030-1/16 in. (0.8-1.6 mm) Hard wire	4 in. (102 mm)	H: 10.25 in. (260 mm) W: 2.5 in. (64 mm) L: 15.125 in. (384 mm)	2.9 lb. (1.3 kg)	
Spoolmatic Pro (301147) 15 ft. (4.5 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 or Millermatic used	.030045 in. (0.8-1.1 mm)		H: 10.75 in. (273 mm) W: 2.5 in. (64 mm) L: 15.375 in. (390 mm)	3.0 lb. (1.4 kg)	

Miller recommends



Filler metals are a critical component in any weld project. They become part of your end product and choosing the right filler metal can affect the look and quality of your weld. To make your filler metal choice easier, **Hobart offers a FREE app for download** on both Android[™] and Apple[®] devices. Features of the app include:

- · Recommendations for aluminum, carbon steel and stainless steel welding
- Calculates the amount of filler metal needed for your job
- Heat input calculator
- Hardfacing cross-reference function

Download the Filler Metal Selector and Calculator app today.

Aluminum | MIG Guns

XR[®] Push-Pull Guns

XR-Aluma-Pro and XR-Pistol guns work in conjunction with an XR-AlumaFeed or select Millermatic machines to provide the best solution for push-pull applications.







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 5000specific 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[™] See literature M/1.71

Robust professional-grade gun has the highest duty cycle rating in its class.

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.

XR[™]-Pistol See literature M/1.73

Reliable, cost-effective gun for light- to mediumindustrial applications.

XR[™]-Pistol-Pro See literature M/1.74

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 a means of changing drive rolls and head tube, or performing routine maintenance, without disassembly of gun.

Industrial XR-Aluma-Pro Lite Heavy industrial XR-Aluma-F

XR-Aluma-Pro and all Pistol models

Use with CC/CV, DC power sources.

Processes

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

Suggested feeders/controls

XR-AlumaFeed[®] SuitCase[®] (pg 11)

- Suggested power sources
- Millermatic[®] 252 (pg 8)
- Millermatic[®] 255 (pg 9) (XR-Aluma-Pro guns only)
- Millermatic[®] 350P/ 350P Aluminum (pg 10)
- Multimatic[®] 255 (pg 39) (XR-Aluma-Pro guns only)

These power sources require an XR-AlumaFeed SuitCase

- AlumaPower[™] MPa (pg 11)
- Deltaweld[®] 350/500 (pg 12) (14-pin receptacle models only)
- Invision[™] MPa (pg 14)
- XMT[®] Series (pg 42-45)
- Trailblazer[®] Series (pg 76–78)

Most popular accessories

 Hardwire Liner Kit 198377
 Visit MillerWelds.com or your distributor for other Miller® options and accessories.

*Dependent on control box or Millermatic used. **Requires wire kit (230708) to run 1/16 in. (1.6 mm) wire.

	Cable Length				Wire Type and		Gun Only		
Model	15 ft. (4.6 m)	25 ft. (7.6 m)	30 ft. (9 m)	35 ft. (10.6 m)	Welding Current Rating	Wire Feed Speed*	Diameter Capacity	Dimensions	Net Weight
XR-Aluma-Pro Lite (Air-cooled)	-	(300948)	-	-	175 A at 60% duty cycle	70-900 ipm (1.8-23 m/min.)	Aluminum .030047 in. (0.8-1.2 mm)	H: 4 in. (102 mm) W: 1.9 in. (48 mm) L: 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	Aluminum** .030-1/16 in. (0.8-1.6 mm)	H: 5 in. (127 mm)	2.5 lb. (1.1 kg)
XR-Aluma-Pro (Water-cooled)	(301571)	(301572)	-	(301573)	400 A at 100% duty cycle	(1.8-23 m/min.)	.030-1/10 III. (0.0-1.0 IIIIII)	W: 2.5 in. (64 mm) L: 17 in. (432 mm)	2.9 lb. (1.3 kg)
XR-Pistol (Air-cooled)	(198127)	-	(198128)	-	200 A at 100% duty cycle	70-875 ipm	Aluminum	H: 7.375 in. (187 mm)	2.2 lb. (1 kg)
XR-Pistol (Water-cooled)	(198129)	-	(198130)	-	400 A at 100% duty cycle	(1.8-22.2 m/min.)	.030-1/16 in. (0.8-1.6 mm)	W: 1.875 in. (48 mm) L: 10.625 in. (270 mm)	2.4 lb. (1.1 kg)
XR-Pistol-Pro (Air-cooled)	(300782)	(300783)	-	(300784)	200 A at 100% duty cycle	70-900 ipm	Aluminum**	_ L. 10.023 III. (270 IIIIII)	2.2 lb. (1 kg)
XR-Pistol-Pro (Water-cooled)	(300786)	(300787)	-	(300788)	400 A at 100% duty cycle	(1.8-23 m/min.)	.030-1/16 in. (0.8-1.6 mm)		2.4 lb. (1.1 kg)





To order automation solutions: Contact local Miller district manager or email MWASales@MillerWelds.com For automation service/parts: Call **1-630-653-6819** or email **MWAService@MillerWelds.com**



A/B 180° Indexing Table Single-station load/unload system



PA250M250 lb./side, 60 in. manually indexed tablePA350S350 lb./side, 66 in. servo indexing tablePA750S/PA750SW750 lb./side, 92 or 108 in. servo indexing table

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



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

Laser Welding/Cladding System



PL1100HW 1,100 lb./side, 60 in. long x 34 in. turning diameter on 108 in. servo indexer

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 and mounting 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.

Side-by-Side Two-station load/unload system



Robot between dual head and tailstock/ single- or dual-robot configuration.

PA1100SS1,100 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 Ferris Wheel Single-station load/unload system



Dual head and tailstock/ single-, dual- or triplerobot configuration.

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

Integrated laser solution with fiber cable management.

- Autogenous, hotwire, coldwire or hybrid processes
- Class 1 laser-safe enclosure
- Available with fiber or diode laser configurations

Automation

For automation service/parts: Call 1-630-653-6819

or email MWAService@MillerWelds.com

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

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 CO₂ 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 guickly 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.





Auto-Continuum

power sources

(pg 16)

11111 11

Insight Core™, Centerpoint[™] and ArcAgent[™] Welding Intelligence (pg 67-69)



Tregaskiss® robotic MIG guns and reamers (pg 34-35)



FILTAIR® weld fume extraction system

with low profile hood

(pg 102-103)





YT 0 rie 7.









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

Jetline[®] **Fixed Automation**

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/jetline

Longitudinal Seam Welding Systems



Circumferential 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
- Bolt-on control modules provide adaptability
- Aluminum hold-down fingers with copper tips absorb and dissipate heat
- Toe-touch tapeswitch control activates finger clamping
- Range includes:
- External: flat sheets, cylinders and more
- Internal: flat sheets and internal welds on cylinders
- Combination: internal and external welds
- Elevating: seam welder raises and lowers to accommodate diameters up to 96-inch OD
- Bench: small seam welder for welding shorter, smaller parts

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
- Range includes:
- 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 GTAW, GMAW and PAW needs.

- Jetline manipulators 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
- Range includes:
- 6 x 6 foot
- 9 x 9 foot
- 12 x 12 foot



For Jetline service: Call 1-630-653-6819

or email JetlineService@MillerWelds.com

Automation

To order Jetline automation solutions: Contact local Miller district manager or email JetlineSales@MillerWelds.com For Jetline service: Call 1-630-653-6819 or email JetlineService@MillerWelds.com

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

Arc Length Control

9700 Controller



The 9700 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



Cold Wire Feed



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
- Touch retract allows starting gap to be automatically preset in TIG (GTAW) applications
- Simplified setup and operation requires minimal operator intervention
- Standard package includes 9790 arc length control and 6-inch arc length control actuator

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



TOUGH GUN

TA3 MIG gun

TOUGH GUN

CA3 MIG gun

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 maximizes production uptime and throughput. Parts can be replaced with minimal downtime and little to no impact on Tool Center Point (TCP).

Air-Cooled MIG Guns See Tregaskiss literature SP-TA3 and SP-CA3

TA3 robotic MIG gun

- Runs internal to the robot arm
- Available in 350-amp models at 100 percent duty cycle with 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

CA3 robotic MIG gun

- Runs external to the robot arm
- Available in 385-amp models at 100 percent duty cycle with mixed gases
- Replaceable unicable reduces downtime through faster repair and extended service life
- Cable guide minimizes stress on cable connection as the robot articulates
- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy

Tregaskiss[®] Fixed Automatic Guns

Tregaskiss fixed automatic MIG guns are engineered for hard tooling automation applications requiring a simple, durable and repeatable MIG gun. These automatic torches can be configured with the same consumables as your Bernard[®] semi-automatic or Tregaskiss robotic MIG guns to simplify your inventory.



MW1 MIG gun

TOUGH GUN MA1 MIG gun

TOUGH GUN AW2 MIG gun

Air-Cooled MIG Guns

See Tregaskiss literature M033

MA1 automatic MIG gun

- Available in 500- and 600-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 M033 and SP-WCA

MW1 automatic MIG gun

- Available in 450- and 600-amp models
- Spring-guard strain relief prevents kinking and abrasion
- Water-cooled neck is made from stainless steel and is silver brazed and leak tested
- 600-amp water-cooled model has a thread-on heavy-duty nozzle

AW2 automatic MIG gun

- Available in both cable and cableless 600-amp models
- Power cable equipped guns are available in lengths of 3–25 feet in 1/2-foot increments
- Internal threaded connections stay tight inside the anti-vibration compression fit body for good electrical connectivity and longer life

Industrial 🔴

Process - MIG (GMAW)

Compatible robots for

- robotic air-cooled guns
 Panasonic[®]
- Pana:
 ABB[®]
- COMAU[®]
- FANUC[®]
- Kawasaki[®]
- KUKA[®]
- Motoman[®]
- OTC Daihen[®]
- Reis[®] (CA3 only)

Packages

 PerformArc Robotic Welding Systems (pg 30)

Most popular accessories

- TOUGH GUN I.C.E.[™] (Integrated Cooling Enhancer) Technology – adds water-cooling to air-cooled guns for a boost in duty cycle
- Neck Checking Fixture
- TOUGH GUN TT3E Ethemet Reamer Robotic Nozzle Cleaning Station (pg 35)
- TOUGH GUN TT3A Reamer Robotic Nozzle Cleaning Station (pg 35)

Most popular consumables

- AccuLock[™] Consumables (pg 35)
- TOUGH LOCK[®] Consumables (pg 35)
- QUICK LOAD[®] Liners (pg 35)
 QUICK LOAD Liner AutoLength[™] System

(see Tregaskiss literature SP-QLL) Visit Tregaskiss.com or your distributor for other Tregaskiss options and accessories.



For more information or to configure your Tregaskiss robotic gun online, visit Tregaskiss.com/ConfigureMyGun



Automation

Tregaskiss[®] TOUGH GUN[®] TT3 Reamers

See Tregaskiss literature SP-TT3

TOUGH GUN TT3 reamers provide automated spatter removal to help extend the life of your robotic MIG guns and consumables, increasing both production uptime and throughput while benefiting your bottom line.



Tough on spatter and designed to operate reliably in even the harshest welding environments.

Two models available. TT3A and TT3E (Ethernet model) enhanced with digital Ethernet communication for better integration.

TT3E Ethernet model is designed for durability, serviceability and repeatability. Provides greater control optimization, remote monitoring capability and faster troubleshooting to facilitate increased productivity.

One-year warranty on both TOUGH GUN TT3 reamer models. Extend your warranty from one year to two years with the addition of a factoryinstalled Lubricator, **OR** from one year to three years with the addition of a factory-installed Lubricator, plus exclusive use of Tregaskiss TOUGH GARD anti-spatter liquid.

Industrial 🔴

Most popular accessories

- Reamer Lubricator
- Nozzle Detect
- TOUGH GUN Reamer Stand custom height, quick installation, easy on the budget



TOUGH GARD[™] Anti-Spatter Liquid
 TOUGH GARD Multi-Feed System
Visit Tregaskiss.com or your distributor for
other Tregaskiss options and accessories.



For more information or to configure your TOUGH GUN reamer online, visit Tregaskiss.com/ConfigureMyGun



Tregaskiss Welding Consumables (cutaways shown)



AccuLock[™] R consumables See Tregaskiss literature SP-ALR

AccuLock contact tips deliver longer life and quick, accurate replacement. Maintaining the proven electrical conductivity and locking benefits of tapered connections, AccuLock consumables are a simple and beneficial upgrade in robotic welding applications.

- The contact tip's long tail centers it in the diffuser prior to engagement of the coarse thread, making it virtually impossible to cross-thread
- A quick 360-degree twist is all it takes to replace the contact tip
- Upgrade from TOUGH LOCK consumables to the new contact tip and AccuLock R diffuser with no effect on Tool Center Point (TCP) in robotic applications
- Compatible with Tregaskiss nozzles and QUICK LOAD[®] liners



QUICK LOAD[®] liners See Tregaskiss literature SP-QLL

- Requires less than half the time and effort to replace compared to conventional 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

Most popular consumables

AccuLock Consumables

AcculockR DiffusersD-ATSHHD for slip-on nozzlesD-ATTHHD for thread-on nozzles

 Tregaskiss Nozzles (inches)

 Slip-on

 401-6-62
 5/8 ID, 1/8 recessed

 401-87-62
 5/8 ID, 1/8 stickout

 Thread-on
 5/8 ID, 1/8 stickout

401-14-62 5/8 ID, 1/8 recessed **401-20-62** 5/8 ID, 1/8 stickout

AccuLock Contact Tips (inches)

- T-A039CH .039 copper
- T-A045CH .045 copper
- T-A039WH .039 HDP T-A045WH .045 HDP
- QUICK LOAD Liners

6 ft. Liners (inches) **415-35-6Q** .035-.045 **415-35-062Q** .035-.045, galvanized **415-116-6Q** .045-1/16 **415-116-062Q** .045-1/16, galvanized See literature SP-QLL for complete offering. Visit Tregaskiss.com or your distributor for additional Tregaskiss consumable options.







Power Source Welding Performance			Light Industria	ıl		Industrial		Heavy Industrial			
		Multimatic [®] 200 (page 37)	Multimatic [®] 215 (page 37)	Multimatic [®] 220 AC/DC (page 38)	Multimatic [®] 255 (page 39)	Maxstar [®] 280 Multiprocess (page 40)	Dynasty [®] 280 DX Multiprocess (page 40)	XMT [®] 350 Models (pages 42-45)	XMT [®] 450 Models (pages 42-45)	Dimension [™] 650 (page 41)	
	Mild Steel	•	•				•		•		
Material	Stainless Steel	•	•				•	•			
	Aluminum	٢	۲			۲	•	1	1	۲	
	Gauge (.020–.125 in.)	•	•	•	•	•	•	•	•	•	
Material	Sheet (.125375 in.)	•	•	•	•	•	•	•	•	•	
Thickness	Plate (.375-1 in.)								•	•	
	Plate (1+ in.)								۲	•	
	.023 in.	•		•		۲				۲	
	.030 in.	•	•					•		•	
	.035 in.							•			
Wire Size	.045 in.		۲	\bigcirc				•			
	.052 in.					\bigcirc	۲	•	•		
	1/16 in.							•	•		
	5/64 in.							•	•		
	3/32 in.								۲		
	Short Circuit	****	****	****	****	****	****	****	****	****	
	Pulsed Spray				****			★★★ ★ ²	*** * ²		
Process	Stick	**	**	**	***	****	****	****	****	****	
	AC TIG			****			****				
	DC TIG	***	***	****	***	****	****	***	***	***	
	CAC-A					3/16 in.	3/16 in.	1/4 in.	5/16 in.	3/8 in.	
	Icon Key	Canability D	esigned for 🔵 Ca	able of Dro	aaaa Qualiku 🔺 Ca		*** Best				

Icon Key Capability:

Capability: \bigcirc Designed for \bigcirc Capable of Process Quality: \bigstar Good $\bigstar \bigstar$ Better $\bigstar \bigstar \bigstar$ Best $\bigstar \bigstar \bigstar \bigstar$ Optimized

New! products appear in blue type.

¹ CC/CV and FieldPro[™] models are *capable of* aluminum welding. MPa models are *designed for* aluminum welding, XR[™]AlumaFeed SuitCase system is recommended for best results. ² MPa models only.



Multimatic[®] 200 and 215 See literature DC/12.57 (200) and DC/12.59 (215)

and DC/12.59 (215)



connection to common 120- and 240-volt power receptacles without the use of any tools - simply choose the plug that fits the receptacle and



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	initu 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 (effective with Multimatic 200 serial number MF364047N) and either 4000 or 5000 series aluminum wire. TIG welding uses optional TIG contractor kit.

Weighing only 29 pounds (200) or 38 pounds (215), these lightweight MIG, stick and TIG welders provide portability on the job.

Impact-resistant, flame-retardant case (200 only) provides strength and durability, while protecting components and welding wire from moisture, dust and other contaminants.

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!

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

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

Multimatic 215 model additional features

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

Angled cast-aluminum drive system provides smooth feeding and the ability to use 10-, 12- or 15-foot guns.





Processes

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

Comes complete with

- 10 ft. (3 m) 250-amp MDX[™]-250 MIG gun (Multimatic 200) OR 10 ft. (3 m) 100-amp MDX[™]-100 MIG gun (Multimatic 215)
- 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
- Power cord with MVP plugs for 120 V and 240 V
- Quick Select[™] drive roll for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire



Flow gauge regulator and gas hose for argon or AR/CO2 mix, extra MDX contact tips, information/settings chart and material thickness gauge (229895) - Hobart[®] spool of .030 in. solid wire and hook-and-loop cord wraps as seen in photo above are included with Multimatic 215 model only

Most popular accessories

- Spoolmate[™] Spool Guns (pg 27) 300371 Spoolmate 100 301272 Spoolmate 150
- Running Gear/Cylinder Rack 301239 (pg 114)
- Protective Cover 301262 (pg 117) (for Multimatic 215 only)
- TIG Contractor Kits (pg 120) 301287 For Multimatic 200 301337 For Multimatic 215

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

Model/Stock Number	Welding Mode/Process	Input Power	Amperage Range	Rated Output	Amps Inj 120 V	out at Rated Outpu 230 V/240 V	ıt, 50/6 KVA	0 Hz KW	Wire Feed Speed	Max. Open- Circuit Voltage	Dimensions	Net Weight
Multimatic 200	CV: MIG/	120 V	30-140	90 A at 18.5 V, 60% duty cycle	18.0	-	2.2	2.0	70-425 ipm	90 VDC	H: 14.5 in.	29 lb.
(907518) (951649) with TIG	flux-cored			110 A at 19.5 V, 20% duty cycle	22.4	-	2.7	2.6	(1.8-10.8 m/min.)		(368 mm) W: 9.75 in.	(13.2 kg)
contractor kit (see page		230 V	30-200	150 A at 21.5 V, 20% duty cycle	-	17.5	4.0	3.8			(248 mm)	
120 for kit contents)	CC: TIG	120 V	5-150	150 A at 16 V, 30% duty cycle	27.0	-	3.3	3.2	-	90 VDC (22-25 VDC, sense voltage for stick and Lift-Arc™ TIG)	D: 17 in. (432 mm)	
		230 V	5-150	150 A at 16 V, 30% duty cycle	-	13.8	3.2	3.0				
	CC: Stick	120 V	20-100	100 A at 24 V, 35% duty cycle	24.0	-	2.9	2.8				
		230 V	20-150	150 A at 26 V, 30% duty cycle	-	20.8	4.8	4.5				
Multimatic 215	CV: MIG/	120 V	30-125	110 A at 19.5 V, 60% duty cycle	23.0	_	2.8	2.8	60-600 ipm	58 VDC	H: 12.5 in.	38 lb. (17.2 kg)
(907693) (951674) with TIG	flux-cored	240 V	30-230	200 A at 24 V, 20% duty cycle	-	25.8	6.2	6.2	(1.5-15.2 m/min.)		(318 mm) W: 11.25 in. (286 mm)	
contractor kit (see page				150 A at 21.5 V, 40% duty cycle	-	16.7	4.0	4.0				
120 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	D: 20.5 in.	
		240 V	20-210	190 A at 17.6 V, 20% duty cycle	-	18.0	6.7	6.7			(521 mm)	
	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 DC/12.65





Multi-voltage plug (MVP^m) 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. 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 i	Max. 3/8 in. (9.5 mm)							
Stick Mild Steel								
Min 16 ga (15 mm)								

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.

Innovative QuickTech™ technology makes setup and changing processes even easier.

- 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.

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.



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.

Light Industrial 🔵 📴 🗛

Processes

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

Comes complete with

- 10 ft. (3 m) 100-amp MDX[™]-100 MIG gun
- 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 Direct style connector
- 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
- Quick Select[™] drive roll for .024 in. (0.6 mm) or .030/.035 in.
 (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire
- Two flow gauge regulators and gas hoses for argon or AR/CO₂ mix, extra contact tips, Hobart[®] spool of .030 in. solid wire, AK2C TIG torch accessory kit, hook-and-loop cord wraps and material thickness gauge (229895)

Most popular accessories

 Spoolmate[™] Spool Guns (pg 27) 300371 Spoolmate 100 301272 Spoolmate 150



- Dual Cylinder Rack Cart 951770 (pg 114)
- Protective Cover 301524 (pg 117)
 Wireless Remote Foot Control 300429 (pg 121)

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

Stock Number (907757)	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 Voltag	ge Dimensions	Net Weight
	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.)	H: 17.5 in. (445 mm)	56 lb.	
		240 V 30-230	30-230	200 A at 24 V, 20% duty cycle	-	27.2	4.8	4.8			W: 11.25 in. (286 mm) D: 21.5 in. (546 mm)	(25.3 kg)
				170 A at 21.5 V, 40% duty cycle	-	21.5	3.8	3.8			D. 21.5 III. (546 IIIII)	
	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				



Industrial 🔴 🕫 DC _1

Processes

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

Multimatic 255 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
- Factory-installed gas solenoid
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- Chain to secure gas cylinder .035/.045 in. reversible V-groove
 - drive rolls Extra contact tips and material
 - thickness gauge (229895)

Most popular accessories

- MDX[™]-250 EZ-Select[™] MIG Gun 1770047 (pg 24) Spoolmatic[®] Spool Gun (pg 28)
- (non-Pro gun only)
- XR-Aluma-Pro[™] Air-Cooled Push-Pull Guns (pg 29)
- EZ-Latch[™] Single Cylinder Running Gear 301449 (pg 114)
- EZ-Latch[™] Dual Cylinder Rack with Elevated Gun and Cable Rack 301481

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 114)
- Protective Cover 301521 (pg 117)
- Multimatic 255 TIG Kit 301518
- (pg 120) 10-Pin to 14-Pin Adapter Cord
- 301545 (pg 120) Wireless Remote Foot Control 300429 (pg 121)

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

n setup images g descriptions versus help errors	quality while r		
Allows for any input voltage hookup (208–575 V,	EXCLUSIVE! An voltage, wire sp between MIG, J		
o manual linking, providing job setting. Ideal solution for dirty	Heavy-duty al Fan-On-Dema		
	needed, reduci internal compo		

Stock Number (907728) 208-(951767) 208 with single cylir running gear (951768) 208 with dual cylind running gear ar

er 18-575 V	Welding Mode/Process	Amperage Range	Rated Output	Amps I 208 V	nput at 1 240 V	Rated O 460 V	utput, 50 575 V)/60 H Kva		Wire Feed Speed	Max. Open- Circuit Voltage	Power Source Dimensions	Power Source Net Weight
linder 18-575 V	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: 19.24 in. (489 mm) W: 13.75 in. (349 mm) D: 26.25 in. (667 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				

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

Welding Capability

Max. 1/2 in. (13 mm)

Aluminum

Min. 18 ga. (1.2 mm)

Max. 5/16 in. (7.9 mm)

Stick Mild Steel

Min. 16 ga. (1.5 mm)

Aluminum welding uses

optional XR-Aluma-Pro

welding uses optional

Multimatic 255 TIG kit.

push-pull gun. TIG

Max. 1/2 in. (13 mm)

Mild Steel

Min. 22 ga. (0.8 mm)

Max. 3/8 in. (9.5 mm)

TIG Mild Steel

Min. 24 ga. (0.6 mm)

See literature DC/12.9

WIRELESS

REMOTE Compatible

See page 121

Stick - selecting electrode type, electrode diameter and material thickness

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

uto-Gun Detect[™] automatically adjusts speed and timers for faster switching push-pull and spool guns.

uminum two-drive-roll system.

nd[™] cooling system only operates when cing power consumption and keeping onents cleaner.

39

-AUTO-LIN

single-phase) with no convenience in any j or unreliable power.

Multimatic 255 with running gear package shown.



Multimatic[®] 255

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
- Full troubleshooting and look up codes



Set weld parameters by: MIG - selecting wire and gas type, wire diameter and

material thickness

DC Lift-Arc[™] TIG – selecting remote on/off, tungsten diameter and material thickness

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

NEW! Maxstar 280 Multiprocess Dynasty[®] 280 DX Multiprocess

See literature DC/35.5 (Maxstar) and AD/4.95 (Dynasty)

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

COMPATIBLE See page 121

WIRELESS

Maxstar 280 Multiprocess (far left) and Dynasty 280 DX Multiprocess shown with ArcReach SuitCase 8 (**packages now available** for Dynasty with ArcReach SuitCase, see below).

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

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.

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.



- AC¹/DC TIG (GTAW) = Pulsed TIG (GTAW-P)
- MIG (GMAW)² = Flux-cored (FCAW)²
- Stick (SMAW) = Air carbon arc (CAC-A)
- ¹Dynasty model only. ²With ArcReach SuitCase wire feeder.

Comes with

Industrial

- 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
- Quick reference guide

Contractor packages include above, plus

- Contractor kit with A-200 TIG torch and RCCS-14 fingertip control (301550) OR RFCS-14 HD foot control (301549)
- ArcReach® SuitCase® 8 OR ArcReach® SuitCase® 12 with two .035/.045 in. "V" groove drive rolls
- Bernard[®] BTB Gun 300 A with three .035 in. and two .045 in. Centerfire[™] contact tips

Complete package includes ArcReach SuitCase 12 and Bernard BTB gun from package above, plus

- Coolmate[™] 1.3
- Coolant (4 one-gallon bottles)
- Small Runner[™] cart
- · Wireless foot control
- Weldcraft[™] W-280 water-cooled torch kit

Most popular accessories

- ArcReach[®] SuitCase[®] Feeders (pg 18)
- Small Runner[™] Cart 301318 (pg 115)
- Coolmate[™] 1.3 300972 (pg 115)
 Contractor Kits (pg 120)
- 301311 w/RCCS-14 finger control 301309 w/RFCS-14 HD foot control ■ Weldcraft[™] Water-Cooled Torch Kits
- (pg 120) 300185 W-250 (WP-20) 300990 W-280 (WP-280) 301268 W-375
- Remote Controls (pg 120–121)
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.

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

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle		•			utput, 5 575 V			Max. Open- Circuit Voltage	Power Source Dimensions	Power Source Net Weight
	Maxstar 280 Multiprocess	TIG	3-phase	1-280	250 A at 20 V	21	19	11	9	7	7.6	7.3	60 VDC	H: 13.6 in.	47 lb.
ta	(907552001) Power source only		1-phase	1-280	250 A at 20 V	35	32	18	16	13	7.3	7.1	(11 VDC**)	(346 mm) W: 8.6 in.	(21.3 kg)
Maxstar		Stick	3-phase	5-280	250 A at 30 V	*	*	14	13	10	9.9	9.6		(219 mm)	
			1-phase	5-280	180 A at 27.2 V	32	29	*	*	*	6.7	6.5		D: 22.5 in.	
8		MIG/	3-phase	5-280	250 A at 26.5 V	*	*	13	11	9	9.2	8.9		(569 mm)	
		flux-cored	1-phase	5-280	200 A at 24 V	31	29	*	*	*	6.5	6.3			
ĸ	Dynasty 280 DX Multiprocess (907514007) Power source only	TIG	3-phase	2-280 (AC) 1-280 (DC)	250 A at 20 V	21	19	11	9	7	7.6	7.3	60 VDC (11 VDC**)	H: 13.6 in. (346 mm)	55 lb. (25 kg)
Dynasty	(951796) Contractor w/fingertip and SuitCase 8 (951798) Contractor w/fingertip and SuitCase 12 (951797) Contractor w/foot and SuitCase 8		1-phase	2-280 (AC) 1-280 (DC)	250 A at 20 V	35	32	18	16	13	7.3	7.1		W: 8.6 in. (219 mm) D: 22.5 in.	
0	(951799) Contractor w/ foot and SuitCase 3	Stick	3-phase	5-280	250 A at 30 V	*	*	14	13	10	9.9	9.6		(569 mm)	
AC/D	(951757) Complete w/wireless foot and SuitCase 12		1-phase	5-280	180 A at 27.2 V	32	29	*	*	*	6.7	6.5			
AC		MIG/	3-phase	5-280	250 A at 26.5 V	*	*	13	11	9	9.2	8.9			
		flux-cored	1-phase	5-280	200 A at 24 V	31	29	*	*	*	6.5	6.3			

Dynasty 280 DX Multiprocess Complete package shown

Dimension[®] 650 and 650 ArcReach[®]

See literature DC/19.3

Developed for harsh environmental conditions and output requirements that range from power-intensive to precise.



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 18/46 for ArcReach SuitCase feeders and page 46 for the Stick/TIG Remote. **Don't walk. Weld!** Learn more at **MillerWelds.com/arcreach**

Note: Dimension 650 ArcReach does not support the new Cable Length Compensation (CLCTM) and Adjust While Welding (AWWTM) features or the ArcReach Smart Feeder.



Dimension 650 ArcReach power source shown with ArcReach SuitCase 12 feeder and ArcReach Stick/TIG Remote (all sold separately). Feeder **includes** Bernard BTB Gun 300 A **OR** S-Gun™ with reversible dual size (.045 and 1/16 in.) VK drive rolls.

All aluminum construction helps the machine resist corrosion for long life.

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

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.

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

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

Reduced size and weight results in an easier-to-handle package that exceeds the welding performance of larger, heavier machines. Dimension 650 is 3.5 times lighter than the Dimension 652 and also uses 40 percent less floor space.

High electrical efficiency and excellent power factor mean that you can get more welding done using less power. Dimension 650 uses up to 32 percent less amperage than the Dimension 652.

Heavy industrial 🛑 📴 🗸

Processes

Multiprocess

- MIG (GMAW) Flux-cored (FCAW)
- Stick (SMAW) TIG (GTAW)
- Submerged arc (SAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 3/8 in. carbons)

Dimension 650 Stationary package includes

- Power source
- S-74 MPa Plus feeder with Bernard[®] BTB Gun 400 A and .035/.045 in. drive rolls
- 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

Dimension 650 MIGRunner[™] package includes above plus ■ Running gear cylinder rack

Most popular accessories



 Dimension 650 ArcReach[®] Rack 907701

- Comes assembled with four Dimension 650 ArcReach power sources fused for 460 volts
- ArcReach[®] SuitCase[®] Feeders (pg 18/46)
- 70 Series Feeders (pg 20)
- Bernard[®] MIG Guns (pg 25–26)
- ArcReach[®] Stick/TIG Remote 301325 (pg 46) (for ArcReach model only)
- Running Gear Cylinder Rack 300408 (pg 115)
- Industrial MIG 4/0 Kit (with lug connectors) 300390 (pg 117)
- Extension Cables (pg 122) 242208025 25 ft. (7.6 m) 242208050 50 ft. (15 m) 242208080 80 ft. (24.4 m)

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

Model/Stock Number	Amperage/ Voltage Ranges	Rated Output	Amps Inp 380 V	ut at Rated 460 V	l Output, 5 KVA	50/60 Hz KW	Max. Open- Circuit Voltage	Power Source Dimensions (Includes lift eye)	Power Source Net Weight
Dimension 650 (907617) 380/460 V power source only (951638) 380/460 V stationary package (951637) 380/460 V MIGRunner package Dimension 650 ArcReach (907617001) 380/460 V power source only	CC mode: 10-815 A CV mode: 10-44 V SAW mode: 10-65 V	650 A at 44 VDC, 100% duty cycle	53.2	42.8	34	30.7	87 VDC	H: 28.187 in. (716 mm) W: 16.687 in. (424 mm) D: 31.625 in. (803 mm)	158 lb. (71.7 kg)

Multiprocess

XMT[®] Series

Portability and excellent multiprocess arc performance make the XMT family the most popular in the industry. With many models to choose from the XMT family has the right solution for your business.



Input power choices

AUTO-LINE 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 models. 230/460 V manual link or 575 V, 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.

Insight Core^{••} Welding Intelligence^{••} system. XMT 14-pin models are Insight Core capable to monitor weld voltage, amperage, and arc-time and percentage.

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.

Welder-friendly control panel

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

Ultra-tough, polycarbonate-blended cover 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 disconnects (350 models) provide high-quality weld cable connections.

Note: Two Dinse connectors are supplied with Dinse machines. Tweco connectors must be ordered separately. Weld studs (450 models).

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

Choose the Right XMT

	350.	Атр		450	Amp						
	XMT 350 CC/CV	XMT 350 MPa		XMT 450 CC/CV	XMT 450 MPa						
Input Power	3- or 1-ph	ase power		3-р	hase						
Primary Operating Range	Auto-Line (2	208–575 V)		Manual link (230	/460 V) or 575 V						
Weld Output	350 A at (3-phase input powe		UPGR	AD1=>	t 38 VDC r at 100% duty cycle)						
Carbon Arc Gouging	Rated: 1/4 in	n. (6.4 mm)	UPGR	DE Rated: 5/16 in. (7.9 mm)							
Net Weight	80 lb. (3	36.3 kg)		122 lb. (55.3 kg)							
Output Connector	Dinse-style	Dinse- or Tweco-style		1/2 ii	n. stud						
Pulsed MIG	– UPGR	ADE Yes		– UPGI	RADE Yes						
14-pin Compliant	Ye	25		Y	es						
Insight Core Capable (requires Insight Core 14-pin module)	Yes Yes (page 68) (page 68)										
ArcReach	Factory option (page 44)	-		Factory option – (page 45)							



XMT° 350 CC/CV and 450 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.



See literature DC/18.93 (350) and DC/18.94 (450)

XMT[®] 350 MPa and 450 MPa See literature DC/18.93 (350) and DC/18.94 (450)

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 70 Series MPa Plus feeder or XR-AlumaFeed[®] feeder.

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

Heavy industrial XMT 450 1 is 3-phase only

Processes

- MIG (GMAW) = Pulsed MIG (GMAW-P)*
- Stick (SMAW) = TIG (GTAW)
- Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A) (carbons - 350: 1/4 in., 450: 5/16 in.)

*XMT MPa models only.

Most popular accessories

- XR-AlumaFeed[®] SuitCase[®] 301567 (pg 11)
- SuitCase[®] Feeders (pg 18)
- 20 and 70 Series Feeders (pg 20)
- Spoolmatic[®]/ WC-24 (pg 28/122)
- MIGRunner[™] Cart 195445 (pg 115) Running Gear Cylinder Rack 300408 (pg 115)
- Coolmate[™] Coolant System (pg 115)
- Industrial MIG 4/0 Kits (pg 117) 300405 For XMT 350 300390 For XMT 450
- Gas Valve Kit See literature DC/18.93 (350) and DC/18.94 (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 Feeders include gun and drive rolls. MIGRunner adds 2/0 weld cable and 2/0 work cable with clamp, flowmeter regulator with gas hose and MIGRunner cart. ³ Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

	Model/Stock Number Most Popular Models <	Input Power	Amperage/ Voltage Ranges	Rated Output			it Rated 400 V				KW	Max. Open- Circuit Voltage	Power Source Dimensions	Power Source Net Weight
A	 XMT 350 CC/CV (Dinse) (907161) < 208-575 V power source only (907161011) 208-575 V w/auxiliary power¹ (951786) 208-575 V MIGRunner w/20 Series Basic² 	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)
350	(951314) 208-575 V MIGRunner w/S-74D ² 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 w/Tweco [®]	1-phase	5-425 A 10-38 V	300 A at 32 VDC, 60% duty cycle ³	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
A	XMT 450 CC/CV (1/2 in. stud) (907481) ◀ 230/460 V power source only (907482) 575 V w/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)
450	 XMT 450 MPa (1/2 in. stud) (907479) < 230/460 V power source only (907479001) 230/460 V w/auxiliary power¹ (907480) 575 V power source only 				-	51	_ (KVA is 2		23.6 575 V)		18.3			

[•] Multiprocess

XMT[®] 350 FieldPro[™] Systems See literature DC/18.96



XMT 350 FieldPro with Polarity Reversing power source, and ArcReach Smart Feeder. Bottom row left to right: ArcReach Stick/TIG Remote and ArcReach Stick/TIG Remote with Polarity Reversing. Feeders include gun and drive rolls (see page 18 for details).

More jobsite productivity and efficiency

Cable Length Compensation (CLC[™]) 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.

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

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

Exceptional arc performance

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 are fully supported, enabling operators to use these advanced processes in the field for faster, more-efficient welds.

Increased uptime

Delivers the performance you need. XMT 350 FieldPro welders and ArcReach feeders and remotes have been extensively proven in the field.

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

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

Decrease the chances of slip, trip or fall injuries because ArcReach technology allows 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.

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 page 18/46 for ArcReach feeders and page 46 for the Stick/TIG Remotes. Don't walk. Weld! Learn more at MillerWelds.com/arcreach

Maximum fleet compatibility

Maximize fleet compatibility and get the benefits of ArcReach when you pair XMT 350 FieldPro welders and ArcReach feeders with other ArcReach compatible products.

More operator control

Weld operators can Adjust While Welding (AWW") to change weld parameters while the arc is on.

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.

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





XMT[®] 450 CC/CV ArcReach[®] See literature DC/18.94



Note: XMT 450 CC/CV ArcReach does not support the Cable Length Compensation (CLC[™]) and Adjust While Welding (AWW[™]) features or the ArcReach Smart Feeder.

Auto-Process Select.[™] System automatically changes to MIG/FCAW (with gas) if electrode positive polarity is detected or FCAW (no gas) if electrode negative polarity is detected, when ArcReach communication is established between the feeder and the XMT - reducing the need to access the power supply.

Automatic return to panel settings. System automatically returns to XMT setting when ArcReach communication is terminated. For example, if the XMT is set to gouging at 550 amps and an ArcReach feeder is connected, the XMT will go to a MIG/FCAW process. If the feeder is disconnected, the XMT will go back to its previous setting (gouging at 550 amps).

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

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.

Remote override of XMT. When an ArcReach feeder is connected to an XMT 450 ArcReach the feeder has full control and the XMT controls are disabled, preventing accidental changes by personnel other than the welding operator.

XMT Racks

All the benefits of an individual XMT in an easy-to-transport package for multiple arcs in the field.



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.

Flexible solution. The flexibility of the XMT makes it ideal for multiple system

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.

Model	Stock Number	Input Power to Rack
XMT 350 FieldPro	4-Pack Rack (907739) 6-Pack Rack (907740)	230-575 V, three-phase (fused for 460/575 V)
XMT 350 FieldPro with Polarity Reversing	4-Pack Rack (907742) 6-Pack Rack (907741)	230–575 V, three-phase (fused for 460/575 V)
XMT 450 CC/CV ArcReach	4-Pack Rack (907700)	230/460 V, three-phase (fused for 460 V)

XMT 350 FieldPro Rack shown.

*Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc. **Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

Du														
	Model/Stock Number Most Popular Models ┥	Input Power	Amperage/ Voltage Ranges	Rated Output		Input at 230 V				60 Hz KVA I	ĸw	Max. Open- Circuit Voltage	Dimensions	Net Weight
	XMT 350 FieldPro System (Tweco®) (951736) Stick/TIG (951734) ◀ MIG/flux-cored	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.	93 lb. (42.2 kg)
A C	(951738) RMD/pulse XMT 350 FieldPro Power Source only (907730) < 208-575 V with Tweco [®] (907730002) 208-575 V with Dinse	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 1	11.2		(318 mm) D: 24 in. (610 mm)	
0	XMT 350 FieldPro with Polarity Reversing System (Tweco®) (951737) Stick/TIG (951735) MIC/flux-cored (951739) DND (wideo	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 1	13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm)	93 lb. (42.2 kg)
	(951739) < RMD/ pulse XMT 350 FieldPro with Polarity Reversing Power Source only (907731) < 208-575 V with Tweco [®] (907731001) 208-575 V with Dinse	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 1	11.2		(318 mm) D: 24 in. (610 mm)	
450 A	XMT 450 CC/CV ArcReach (1/2 in. stud) (907481003) < 230/460 V (907481004) 230/460 V w/auxiliary power* (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 1	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)

Heavy industrial XMT 450 Cv DC 3 1 is 3-phase only

Processes

- MIG (GMAW) = Stick (SMAW)
- TIG (GTAW) = Flux-cored (FCAW)
- RMD* Pulsed MIG (GMAW-P)*
- Air carbon arc cutting and gouging (CAC-A) (carbons - 304: 1/4 in., 350: 1/4 in., 450: 5/16 in.) *XMT 350 FieldPro only with ArcReach

Smart Feeder.

Stick/TIG system includes

- XMT 350 FieldPro power source
- ArcReach Stick/TIG Remote
- MIG/flux-cored system includes
- XMT 350 FieldPro power source ArcReach SuitCase 12 feeder with drive rolls and Bernard® BTB Gun 300 A

RMD/pulse system includes

XMT 350 FieldPro power source ArcReach Smart Feeder with drive rolls and Bernard® PipeWorx 300-15 MIG gun

Most popular accessories

- XR-AlumaFeed® SuitCase® 301567 (pg 11)
- ArcReach[®] SuitCase[®] Feeders (pg 18/46)
- ArcReach® Smart Feeder (pg 18/46) (for XMT 350 FieldPro power sources only)
- 20 and 70 Series Feeders (pg 20)
- Spoolmatic[®]/WC-24 (pg 28/122)
- ArcReach[®] Stick/TIG Remote 301325 (pg 46)
- ArcReach[®] Stick/TIG Remote with Polarity Reversing 300934 (pg 46) (for XMT 350 FieldPro with Polarity Reversing power source only)

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

ArcReach WELDING SYSTEMS

DONTEWALKSWE

The more they walk the more it costs.

"Business as usual" could cost you thousands of dollars a year and waste hundreds of hours of productive time. Welders can get more done — and your business can make more money — when you use **Miller**° **products with ArcReach**° **technology.**

> Investing in ArcReach technology today can add up to big savings over time.



WHAT IT DOES:

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

HOW IT HELPS:

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

ArcReach power sources and accessories



ARCREACH PLUG-IN POWER SOURCES

XMT° 350 FieldPro[™] system pg 44
Exceptional arc performance maximizes weld quality, minimizes defects.
XMT° 350 FieldPro[™] system with Polarity Reversing pg 44
Automatically selects polarity, lead outputs and weld parameters.
XMT° 450 CC/CV ArcReach^{**} pg 45

Portability and excellent arc performance with flexibility and simplicity. **Dimension**[™] **650 ArcReach**^{**} pg **41** For harsh environments and a wide range of output requirements.

ARCREACH ENGINE-DRIVEN POWER SOURCES

Trailblazer® 325 ArcReach® models**pg 76Smaller and lighter than competition with unbeatable arc performance.Big Blue® ArcReach® models**pg 78–81Tackle tough jobs that require high output for welding, gouging and aux power.

ARCREACH WIRE FEEDERS

ArcReach® SuitCase® Feeders pg 18

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

ArcReach[®] Smart Feeder pg 18

For both XMT 350 FieldPro models and all ArcReach engine drives. For RMD[®] and pulsed MIG welding up to 200 feet from the power source. Helps reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

ARCREACH STICK/TIG REMOTES

ArcReach® Stick/TIG Remote 301325

For all ArcReach power sources except XMT 350 FieldPro with Polarity Reversing. Features remote amperage control, arc control for stick and Auto-Process Select.

ArcReach® Stick/TIG Remote with Polarity Reversing 300934 *For XMT 350 FieldPro with Polarity Reversing power source only.* Provides all the same functionality of the XMT 350 FieldPro with Polarity Reversing hundreds of feet from the power source, including process changeover and amperage adjustment — with no special cables.

*Does not support the new Cable Length Compensation (CLC) and Adjust While Welding (AWW) features or the ArcReach Smart Feeder. **Does not support the new Cable Length Compensation (CLC) and Adjust While Welding (AWW) features. MillerWelds.com/arcreach

Pipe Welding | Multiprocess

Heavy industrial Processes

(CAC-A)

(300366)

guns (195400)

sense lead (300367)

Bernard[®] PipeWorx Guns

PipeWorx Accessories Kit for

Dual-wire Feeder 300568

300454 25 ft. (7.6 m)

300456 50 ft. (15.2 m)

PipeWorx Cooler 300370

Foot Control Bracket 300676 RFCS-14 HD 194744 (pg 120)

RPBS-14 300666 (pg 120) Visit MillerWelds.com or your distributor for other Miller[®] options and accessories.

gas hoses Composite Cable Kit

Stick (SMAW) = DC TIG (GTAW)

PipeWorx welding system

PipeWorx 400 power source with

cable hangers (907382 **OR** 907384) Dual-wire feeder with drive rolls

Two Bernard[®] PipeWorx 300-15 MIG

Running gear with gas cylinder rack and handles (300368)

Cable kit with 25 ft. (7.6 m) work

195399 15 ft. (4.6 m), 250-15 195400 15 ft. (4.6 m). 300-15

Includes 25 ft. (7.6 m) work cable

with EG500 clamp, two flowmeter

regulators and two 5 ft. (1.5 m)

Most popular accessories

comes complete with

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

Air carbon arc cutting and gouging

PipeWorx 400 Welding System See literature PWS/2.0

Optimized for pipe fabrication shops.



Simple process setup

- The front panel was designed by welders for welders
- Requires just a few basic steps to set up a new weld process, resulting in less training time and minimizing errors from incorrect setups
- Memory feature stores four programs for each selection: stick, DC TIG, and MIG (left and right side of feeder) eliminates the need to remember parameters

True multiprocess machine

- Weld processes are optimized to deliver superior arc performance and stability, specifically for root, fill, and cap passes on pipe
- RMD[®] and pulsed MIG increase guality and productivity

Quick process changeover

- Simply push a process selection button to choose a welding process
- Eliminates setup time and reduces the risk of weld reworks due to incorrect cable connections
- PipeWorx "Quick Select" technology automatically selects the welding process, the correct polarity, cable outputs, gas solenoid, and user-programmed welding parameters

Single-system design

- One machine designed to perform all of your pipe welding needs
- Simplified and optimized specifically for pipe welding

Advanced Technologies of PipeWorx System

RMD carbon steel

Regulated Metal Deposition (RMD®)

- Higher quality root pass
- Calm stable arc
- Less spatter
- More tolerant of hi-lo conditions
- Reduced training requirements
- Less chance of cold lap or lack of fusion; reduces rework
- Can eliminate the need for a hot pass

*Dimensions and weight are for power source only.

- Can eliminate backing/purge gas in some stainless applications

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



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



	Product Guide	Page	Class	Stick	DC TIG	CAC-A	Portability	Weldable Metals	Welding Amperage Range	Special Features	Typical Applications	
se	Thunderbolt® 160	48					Handle, shoulder strap	Steel,	20-160 DC	Infinite amperage control, dual-voltage MVP [™] plugs	Garage/job shops, maintenance/repair, farm	
Pha	Thunderbolt® 210	48						stainless	25-210 DC	Infinite amperage control	Garage/job shops, maintenance/repair, farm	
Ę.	Maxstar® 161 S	48					Handle/shoulder strap, optional case		20-160 DC	Auto-Line [™] (120–240 V), digital meter	MRO, ship installation/repair, farm/ranch	
3-Ph	Maxstar® 210 STR	49	•	•			Handles, shoulder strap, optional carts	Steel, stainless	5-210 DC	Auto-Line™ (120–480 V), digital meters	Construction, fabrication, pipe, steel erection, shipbuilding	
1- & :	CST™ 280	50	•	•			Handle, optional cart		5-280 DC	Portable at 41 lb., optional meter, also available in multioperator rack	Construction, fabrication, pipe, steel erection, shipbuilding	
3-Ph	CST [™] 280 Rack	50	•	•		^{5⁄} 16"'	Lift eye, optional running gear	Steel, stainless	5-280 DC	Up to 4 or 8 operators, lightweight	Construction, maintenance/repair, shipbuilding	
	Product Kev		Class	s: 🔵	Ligh	nt ind	ıstrial 🛛 😑 Industrial 🛛 🛑 Heavy industri	al Capabil	ity: 🔵 Designed	for this process 💿 Capable of this process		

Product Kev

*Two machines paralleled.

Thunderbolt[®] 160 and 210

Dependable, portable, powerful stick welder.



Thunderbolt 160 shown.

Nearly 100 pounds lighter so you can work smarter not harder by bringing the welder to the work.

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.



See literature DC/37.0

which 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.

Light industrial CC DC 1

Process - Stick (SMAW)

- **Comes complete with**
- 10 ft. (3 m) No. 4 electrode cable with heavy-duty electrode holder
- 10 ft. (3 m) work cable with clamp 6.5 ft. (2 m) power cord with MVP[™] plugs for 120 V and 240 V (160 model) OR standard 240 V plug (210 model)
- Cable pouch

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

Model/Stock Number	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output	Max. Open-Circuit Voltage	Dimensions	Net Weight
Thunderbolt 160 (907721)	120 V	20-80	65 A at 20% duty cycle	20.7	91 VDC	H: 10.5 in. (267 mm)	15 lb. (6.8 kg)
	240 V	20-160	160 A at 30% duty cycle	27.8	91 VDC	W: 7.125 in. (181 mm) D: 13.375 in. (340 mm)	
Thunderbolt 210 (907722)	240 V	25-210	210 A at 20% duty cycle	43.4	85 VDC	D. 13.375 III. (340 IIIIII)	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.



Maxstar 161 S with X-CASE shown.

Note: See page 52 in the TIG section for Maxstar 161 STL and STH. *Sense voltage for stick.

-∕\UTO-LINE₩ ECHNOLOG

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 contaminates 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.

CCDC_1 Industrial

Process - Stick (SMAW)

Comes complete with

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

907709001 includes above plus ■ Protective X-CASE[™]

Most popular accessories

■ Protective X-CASE[™] 301429 Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Stock Number (907709)	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	ĸw	Max. Open- Circuit Voltage	Dimensions	Net Weight
(907709001) with X-CASE	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)	13 lb. (5.9 kg)
	240 V	20-160	160 A at 26.4 V, 20% duty cycle	22.6	5.4	5.3	(12-10 VDC*)	D: 13.5 in. (343 mm)	(0.9 kg)



Industrial - CC DC 3

Stick (SMAW) = TIG (GTAW)

Comes complete with

Processes

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.



Allows for any input voltage hookup $T \in C H N O L O G Y$ (120–480 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Lift-Arc[™] provides 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.

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

Remote amperage control.

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

Portable with adjustable shoulder strap.

Note: See page 54 in the TIG section for Maxstar 210 Series. *Sense voltage for stick and Lift-Arc TIG.

Stock Number	Welding Process	Input Power	Welding Amperage Range	Rated Output	Phase	•	nput at 208 V			tput, 50, 480 V			Max. Open- Circuit Voltage	Dimensions	Net Weight
(907682)	Stick	208-480 V	5-210	160 A at 26.4 V, 60% duty cycle	Three-phase	-	15	13	8	6	5.5	5.2	80 VDC	H: 13.6 in.	36 lb.
					Single-phase	-	26	22	13	11	5.3	5.3	(11 VDC*)	(346 mm) W: 8.6 in.	(16.3 kg)
		120 V	5-100	90 A at 23.6 V, 60% duty cycle	Single-phase	23	-	-	-	-	2.8	2.8		(219 mm)	
	TIG	208-480 V	1-210	210 A at 18.4 V, 60% duty cycle	Three-phase	-	14	12	7	6	5.2	4.9		D: 19.5 in.	
					Single-phase	-	24	20	12	10	4.9	4.9		(495 mm)	
		120 V	1-210	125 A at 15 V, 60% duty cycle	Single-phase	22	-	-	-	-	2.6	2.6			

Get the Latest News from Miller®

Are you a professional fabricator, or do you like to repair everyday items in your home garage? Perhaps you're a welding educator looking for class resources or to share what your school has been working on?

Sign up for the Miller eNewsletters — **PRO, DIY, Instructor** and **The Bevel** — to receive new product updates, success stories, how-to and technical articles and videos, special offers, project ideas and other information tailored to your interests.

If you're an occupational health and safety professional, sign up for the **Welding Safety** eNewsletter to receive information on regulatory updates, industry news and solutions that can elevate productivity and compliance within the workplace.



• Two 50 mm Dinse-style connectors Most popular accessories

8 ft. (2.4 m) power cord (no plug)

- 12.5 ft. (3.8 m) Weldcraft[™] A-150 Valve TIG torch WP-17V-25-2 (pg 60)
- Remote Controls (pg 120)
 Air-Cooled TIG Torch Connector (pg 121)

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

Stick | smaw

CST[®] 280 See literature DC/29.55

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



See page 121

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

Simple voltage-changeover switch saves time when changing primary voltage. Input voltage can be changed without removal from inverter rack or removal of machine case.

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

Portable in the shop or at the iobsite – at 41 pounds (18.6 kg) the CST 280 is easily moved from location to location.

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

Rack mountable for protection, storage and transportation of multiple power sources while using a single primary power cable.

*Output on single-phase reduced to comply with current limitation on input cable.

CST 280

Welding Input Welding Amps Input at Rated Load Output, 50/60 Hz Max. Open-Net Stock Number Process **Amperage Range** Rated Output 208 V 220 V 230 V 400 V 440 V 460 V 575 V KVA KW **Circuit Voltage** Dimensions Weight Power (907244) Dinse 17.8 14.7 14.6 10.2 77 VDC H: 13.5 in. 41 lb. Stick/TIG Three 5-280 280 A at 31.2 V. 35% duty cycle 35.0 34.2 _ (907244011) Tweco® phase (343 mm) (18.6 kg) 200 A at 28 V, 100% duty cycle 23.3 22.5 11.7 9.7 9.6 6.4 (907696) Tweco® with meter W: 7.5 in. 5-200 Single 200 A at 28 V, 50% duty cycle* 43.0 10166 43.9 (191 mm) 220-230/460-575 V phase D: 18 in. 7.3 4.6 150 A at 26 V, 100% duty cycle* 32.7 32.0 (457 mm) (907251) Dinse Stick/TIG Three-5-280 280 A at 31.2 V, 35% duty cycle 36.0 34.0 19.8 18.0 17.5 14.0 10.2 67 VDC _ (907251011) Tweco® phase 200 A at 28 V, 100% duty cycle 23.5 22.8 13.5 12.0 12.7 10.2 6.9 (907563) Dinse with meter 5-200 200 A at 28 V, 50% duty cycle* 43.9 43.0 99 65 Single 208-230/400-460 V phase 150 A at 26 V, 100% duty cycle* 35.0 7.6 4.8 32.9 _ _ _

CST[™] 280 Racks See literature DC/18.82

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



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

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

Top cover protects machines from falling debris.

Lift eyes simplify crane or overhead lifting device transport.

Lift truck fork pockets.

One main disconnect box with branched fusing for each machine.

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

Optional rack running gear available for moving the rack.

WIRELESS COMPATIBLE

See page 121

CST 280 8-pack rack shown

Note: For additional rack systems see Dimension 650 ArcReach Rack on page 41 and XMT[®] Racks on page 45.

Model	Stock Number	Rack Capacity	Input Power to Rack	Amps 220 V	•			· ·		KVA	ĸw	Dimensions	Net Weight
4-Pack Rack	(907247) Tweco®	4 units	220–230/460–575 V, three-phase, 50/60 Hz. Note: CST 280 machines are factory-linked for 460–575 V.	137	134	79	72	70	57	58.4	40.8	H: 50.75 in. (1,289 mm) 4-pack W: 25.5 in. (648 mm)	355 lb. (161 kg)
8-Pack Rack	(907365) Tweco®	8 units	See above for information on CST 280.	274	268	158	145	140	114	116.8	81.6	8-pack W: 46 in. (1,168 mm) D: 26.5 in. (673 mm)	640 lb. (290 kg)
Empty Rack	(195051)	4 units	-	-						-	-	Same as 4-pack rack	166 lb. (75 kg)
	(300580)	8 units										Same as 8-pack rack	280 lb. (127 kg)

Industrial CC DC 3

Processes

 Stick (SMAW) TIG (GTAW)

Comes with

- 6 ft. (1.8 m) power cord
- One set of male connectors
- (Dinse-style model only)

Most popular accessories

- CST 280 Rack (see below)
- Remote Controls (pg 120–121) For TIG torches see literature
- DC/29.55 Visit MillerWelds.com or your distributor
- for other Miller® options and accessories.

DC **Heavy industrial**

Processes

- Stick (SMAW)
- TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (5/16 in. carbons with paralleled CST 280 units)

Most popular accessories



4-Pack Rack Running Gear 195114 8-Pack Rack Running Gear 195436 Visit MillerWelds.com or your distributor for other Miller® options and accessories.







Product Guide	ge	Class	45	Pulsed TIG	Stick	CAC-A	MIG/Flux-co			ctrode Di			Material Thickness	Welding Amperage		Net	Generator Power	
Guiue	Pa	ü	Ξ	ΡU	Sti	8	Μ	E6010/11	E6013	E7018	E7024	CAC-A	Range (TIG)	Range	Pulse Capability	Weight	Requirement	
Maxstar® 161	52	•	•					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	54	•	•	0				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	DC
Maxstar® 280	54	•	•	•		•		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)	11 kW	C (Steel)
Maxstar® 400	56	•	•	•		•		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	134 lb. (61 kg)	20 kW	el)
Maxstar [®] 800	56	•				•		5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	.020-1 in.	5-800 A	0.1-5,000 pps	198 lb. (90 kg)	45 kW	
Diversion [™] 180	52	•	•					-	-	-	-	-	.030-3/16 in. (alum.) .025-3/16 in. (steel)	10-180 A	-	50 lb. (23 kg)	5.5 kW	
Syncrowave® 210	53	•	•	•				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	AC/
Dynasty® 210	54	•	•					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)	0.1-250 pps (base, DC only) 0.1-500 pps (DX model)	47 lb. (21.3 kg)	9 kW	DC (A
Dynasty® 280	54	•	•			•		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)	2-280 A (AC) 1-280 A (DC)	0.1-250 pps (base, DC only) 0.1-500 pps (DX model)	52 lb. (23.6 kg)	12.5 kW	(Aluminum/
Dynasty® 400	56	•	•			•		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)	134 lb. (61 kg)	20 kW	um/S
Dynasty® 800	56	•				•		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)	198 lb. (90 kg)	50 kW	/Steel)
Syncrowave [®] 300	57	•	•					5/32 in.	5/32 in.	5/32 in.	5/32 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	

Product Key

Class: • Light industrial • Industrial • Heavy industrial New! products appear in blue type. Capability: • All models • Some models



Diversion[™] **180** AC/DC TIG See literature AD/1.5

Professional-grade arc in a package designed specifically for personal users. 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.

TIG Welding Capability





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 contaminates 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 CC CC CC CC Light industrial

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 66)
 Running Gear/Cylinder Rack 301239 (pg 114)
- 301239 (pg 114)
- Protective Cover 300579 (pg 120)
 RCCS-RJ45 Remote Fingertip Control 301146 (pg 120)
- 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.

ల	Stock Number	Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open- Circuit Voltage	Dimensions	Net Weight
2	(907627)	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)	50 lb.
AC,		230 V 10	10-180	150 A at 16 V, 20% duty cycle	16 (.44*)	3.7 (.1*)	3.6 (.03*)		W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	(23 kg)
				180 A at 17.2 V, 10% duty cycle	20.5 (.44*)	4.7 (.1*)	4.6 (.03*)		D. 23.675 III. (006 IIIIII)	

Maxstar[®] 161 STL and STH DC TIG and Stick

See literature DC/27.5

*While idling.

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.

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

Two models available. See page 48 in the Stick section for Maxstar 161 S. STL: DC TIG/stick with Lift-Arc[™] starting without high frequency. STH: DC TIG/stick with high frequency and Lift-Arc[™] starting, plus built-in pulsing from 0–150 pulses per second.

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

- Processes • TIG (GTAW) • Stick (SMAW)
- Pulsed TIG (GTAW-P) with STH model

CC DC

Comes with

Industrial

- 6.5 ft. (2 m) power cords for
- 120 V and 240 V 13 ft (4 m) electrode cable with ho
- 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	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	Maxstar 161 STH (907711) Power source only (907711001) TIG/stick package with remote fingertip control	TIG	120 V	5-130	130 A at 15.2 V, 30% duty cycle	22.6	2.73	2.70	48 VDC	H: 10.3 in.	13 lb.			
	(907710) Power source only (907710001) TIG/stick package					240 V	240 V	240 V 5-160	160 A at 16.4 V, 20% duty cycle	15.05 3.62	3.62	3.62 3.49	(12-16 VDC*)	(262 mm) W: 5.6 in.	(5.9 kg)
	(907710002) TIG/stick package		Stick	120 V	20-90	90 A at 23.6 V, 30% duty cycle	23.16	2.78	2.76		(142 mm)				
	with remote fingertip control			240 V	20-160	160 A at 26.4 V, 20% duty cycle	22.55	5.41	5.25		D: 13.5 in. (343 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.

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^w **(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^w spool gun.

Light industrial

GTAW | TIG

Processes

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

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 heavy-duty remote 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 60)



- TIG Torch Accessory Kit AK2C (pg 66) 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 66)
- Allows A-150 torch customization. Converts into 28 different torch styles while using existing cable. Includes collets, collet bodies, nozzles, torch heads, handle and more
- Protective Cover 195142 (pg 120)
- RCC-14 Remote Control 151086 (pg 120)
- Wireless Remote Foot Control 300429 (pg 121)

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

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



Maxstar[®] and Dynasty[®] 210/280 Series DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

See literature DC/32.1 (Maxstar 210), DC/35.0 (Maxstar 280), AD/4.81 (Dynasty 210) and AD/4.9 (Dynasty 280)



Maxstar and Dynasty 210 Series (Maxstar 210 shown).

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

Note: See page 40 in the Multiprocess section for the Maxstar 280 Multiprocess and Dynasty 280 DX Multiprocess, and see page 49 in the Stick section for the Maxstar 210 STR.

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 AC 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.

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) is an integrated 120-volt dedicateduse receptacle for the Coolmate^w 1.3. Not available on Maxstar 210 Series.

Cooler-On-Demand[™] feature operates the auxiliary cooling system only when needed. Reduces noise, energy use, and airborne contaminants pulled through the cooler. *Only available on CPS models.*

*Refer to owner's manual for 208-volt output ratings and duty cycle.
**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	•	•			• '	50/60 H 460 V		575 V	KVA	ĸw	Max. Open- Circuit Voltage	Dimensions	Net Weight
	Maxstar 210	TIG	3-phase	1-210	210 A at 18.4 V	-	14	-	12	7	-	6	-	5.2	4.9	80 VDC	H: 13.6 in.	38 lb. (17.2 kg)
	(907683) Maxstar 210 DX		1-phase	1-210	210 A at 18.4 V	-	24	-	20	12	-	10	-	4.9	4.9	(11 VDC**)	(346 mm) W: 8.6 in.	
F	(907684)		1-phase (120 V)	1-150	125 A at 15 V	22	-	-	-	-	-	-	-	2.6	2.6		(219 mm)	
	Sti	Stick	3-phase	5-210	160 A at 26.4 V	-	15	-	13	8	-	6	-	5.5	5.2		D: 19.5 in. (495 mm)	
			1-phase	5-210	160 A at 26.4 V	-	26	-	22	13	-	11	-	5.3	5.3			
		1-p	1-phase (120 V)	5-100	90 A at 23.6 V	23	-	-	-	-	-	-	-	2.8	2.8			
	Maxstar 280	TIG	3-phase	1-280	250 A at 20 V	-	21	19	-	11	9	-	7	7.6	7.3	60 VDC	H: 13.6 in.	47 lb.
	(907552) (907538) with CPS		1-phase	1-280	250 A at 20 V	-	35	32	-	18	16	-	13	7.3	7.1	(11 VDC**)	(346 mm) W: 8.6 in.	(21.3 kg) 50 lb.
	Maxstar 280 DX (907553)	Stick	3-phase	5-280	250 A at 30 V	-	*	*	-	14	13	-	10	9.9	9.6		(219 mm) D: 22.5 in.	(22.7 kg)
	(907539) with CPS	PS	1-phase	5-280	180 A at 27.2 V	-	32	29	-	*	*	-	*	6.7	6.5		(569 mm)	with CPS





Dynasty welders add AC TIG capabilities and the following AC features (limited on base model) 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. DX models provide extended ranges.

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



Dynasty Water-Cooled Complete Packages

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

Model	Packages with Foot Control and CPS	Packages with Wireless Foot Control and CPS
Dynasty 210	(951666)	(951667)
Dynasty 210 DX	(951668)	(951669)
Dynasty 280	(951466)	-
Dynasty 280 DX	(951468)	(951469)

Dynasty 280 DX Complete package with wireless foot control and CPS shown.

*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	•	Input at 208 V			• •	'		575 V	KVA	кw	Max. Open- Circuit Voltage	Dimensions	Net Weight
	Dynasty 210 (907685)	TIG	3-phase 1-phase	1-210 1-210	210 A at 18.4 V 210 A at 18.4 V	-	14 24	-	12 20	7 12	-	6 10	-	5.2 4.9	4.9 4 9	80 VDC (11 VDC**)	H: 13.6 in. (346 mm)	47 lb. (21.3 kg)
sty	(907685002) with CPS Dynasty 210 DX		1-phase (120 V)	1-150	125 A at 15 V	22	-	-	-	-	-	-	-	-	2.6		W: 8.6 in. (219 mm) D: 22.5 in.	50 lb. (22.7 kg) with CPS
AC/DC Dyna	(907686) (907686002) with CPS	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		(569 mm)	
			1-phase (120 V)	5-100	90 A at 23.6 V	23	-	-	-	-	-	-	-	2.8	2.8			
	Dynasty 280 (907550)	TIG	3-phase	2-280 (AC) 1-280 (DC)	250 A at 20 V	-	21	19	-	11	9	-	7	7.6	7.3	60 VDC (11 VDC**)	H: 13.6 in. (346 mm)	52 lb. (23.6 kg)
	(907537) with CPS Dynasty 280 DX (907551)		1-phase	2-280 (AC) 1-280 (DC)	250 A at 20 V	-	35	32	-	18	16	-	13	7.3	7.1		(010 mm)	55 lb. (25 kg)
	(907514) with CPS	Stick	3-phase	5-280	250 A at 30 V	-	*	*	-	14	13	-	10	9.9	9.6		(569 mm)	with CPS
		514) with CPS	1-phase	5-280	180 A at 27.2 V	-	32	29	-	*	*	-	*	6.7	6.5			

Industrial CC ^{AC} 3 1 Maxstar is DC only

Processes

- = TIG (GTAW) = Stick (SMAW)
 - Pulsed TIG (GTAW-P)
 - Air carbon arc (CAC-A) w/280 models

Comes with

- 8 ft. (2.4 m) power cord (no plug)
- Two 50 mm Dinse-style connectors
- Quick-reference guide (Dynasty only)

Complete packages come with

- 8 ft. (2.4 m) power cord (no plug)
- Quick-reference guide
- Small Runner[™] cart
- Coolmate[™] 1.3
- Coolant (four 1-gallon bottles)
- Remote control (foot or wireless foot)
- Weldcraft[™] water-cooled torch kit Dynasty 210: W-250 (WP-20) Dynasty 280: W-280 (WP-280)

Most popular accessories

- 2-Wheel Trolley Cart 300971 (pg 115)
- Small Runner[™] Cart 301318 (pg 115)
- Coolmate[™] 1.3 300972 (pg 115)





Contractor Kits (pg 120)
 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 120) 300185 W-250 (WP-20) 300990 W-280 (WP-280) 301268 W-375
- Remote Controls (pg 120–121) 043688 RCCS-14 fingertip control 194744 RFCS-14 HD foot control 300429 Wireless foot control
 Visit MillerWelds.com or your distributor for other Miller® options and accessories.



Maxstar® 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)



(208-575 V) with no manual

-AUTO-LINE Allows for any input voltage hookup

linking, providing convenience in any job setting. Ideal solution

Blue Lightning[™] high-frequency (HF) arc starter for non-contact

arc initiation. Provides more consistent arc starts and greater

Lift-Arc[™] provides AC or DC arc initiation without the use of

Auto-postflow adjusts the length of postflow time based on

the amperage setting, shielding your tungsten and eliminating

Hot Start[™] adaptive control provides positive arc starts

Cooler power supply (CPS) is an integrated 120-volt

dedicated-use receptacle for the Coolmate[™] 3.5.

reliability compared to traditional HF arc starters.

ЕСН Л О L О G Y

for dirty or unreliable power.



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.



Heavy industrial **CC**

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
- Quick-reference guide (Dynasty only)

800 models come with

- Thread-lock torch connector
- Two thread-lock weld cable connectors
- Quick-reference guide (Dynasty only)
 Note: Power cord is NOT included with
 800 models

Complete packages include above plus

- Runner[™] cart
- Coolmate[™] 3.5
- Coolant (four 1-gallon bottles)
- Remote control (foot or wireless foot)
- Weldcraft[™] water-cooled torch kit (400: W-375, 800: W-400)

Most popular accessories

- Runner[™] Cart 300244 (pg 115)
- Coolmate[™] 3.5 300245 (pg 115)
- Coolant 043810 (pg 115)



■ Weldcraft" Water-Cooled Torch Kits (pg 120) 300185 W-250 (WP-20)

300990 W-280 (WP-280) 301268 W-375

- 300186 W-400 (WP-18SC)
- Remote Controls (pg 120–121) 043688 RCCS-14 fingertip control 194744 RFCS-14 HD foot control 300429 Wireless foot control
- Visit MillerWelds.com or your distributor for other Miller® options and accessories.

that maintain/save your parameters. High-speed DC TIG pulse controls capable of 5,000 pulses

Program memory features nine independent program memories

per second.

high frequency.

without sticking.

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

the need to set the postflow time.

**See literature DC/24.5 and AD/5.5 for Complete package dimensions and weight.

Welding Welding Amps Input at Rated Load Output, 50/60 Hz Max. Open-**Power Source Power Source** Input Model/Stock Number Process Amp Range **Rated Output** 208 V 230 V 400 V 460 V 575 V KVA KW **Circuit Voltage** Dimensions** Net Weight** Power Maxstar 400 300 A at 32 V, 12.0 11.6 75 VDC H: 24.75 in. (629 mm) 134 lb. TIG/stick 3-phase 3-400 33 30 17 15 12 W: 13.75 in. (349 mm) (907716) Power source only 60% duty cycle (10-15 VDC* (61 kg) (951692) Complete w/foot D: 22 in. (559 mm) Maxstar 1-phase 3-400 250 A at 30 V, 48 43 24 20 16 10 9.2 (951693) Complete w/wireless foot 60% duty cycle Maxstar 800 H: 34.5 in. (876 mm) TIG/stick 3-phase 5-800 600 A at 44 V, 90 80 45 39 31 32 31 75 VDC 198 lb. ဗ္ဂ (10-15 VDC*) (907718) Power source only 60% duty cycle W: 13.75 in. (349 mm) (90 kg) D: 22 in. (559 mm) 1-phase 5-800 500 A at 40 V 126 112 61 53 41 24 26 60% duty cycle TIG/stick 3-400 75 VDC H: 24.75 in. (629 mm) 134 lb. **Dynasty 400** 3-phase 300 A at 32 V. 33 19 16 13 13.1 12.5 36 (10-15 VDC*) W: 13.75 in. (349 mm) (907717) Power source only (61 kg) 60% duty cycle (951694) Complete w/foot D: 22 in. (559 mm) 3 - 400250 A at 29 V 109 99 1-phase 52 47 26 22 17 (951695) Complete w/wireless foot 60% duty cycle 20 600 A at 44 V Dynasty 800 TIG/stick 3-phase 5 - 80096 86 48 42 33 35 33 75 VDC H: 34.5 in. (876 mm) 198 lb (907719) Power source only 60% duty cycle (10-15 VDC*) W: 13.75 in. (349 mm) (90 kg) (951696) Complete w/foot D: 22 in. (559 mm) 1-phase 5-800 500 A at 40 V, 136 122 66 56 44 28 26 (951697) Complete w/wireless foot 60% duty cycle

Syncrowave® 300 AC/DC TIG and Stick See literature AD/4.25



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

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.

 $\mbox{Lift-Arc}^{\rm w}$ 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[™] 3 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.



Industrial 🔴 CC

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

Complete packages include above plus

- Running gear
- Coolmate[™] 3 cooler
- Coolant (four 1-gallon bottles)
 - Remote control (foot or wireless foot)
 - Weldcraft[™] W-280 water-cooled torch kit

Most popular accessories

Coolant 043810 (pg 115)



- Weldcraft[™] W-280 Water-Cooled Torch Kit 300990 (pg 120)
- Remote Controls (pg 120–121) 043688 RCCS-14 fingertip control 194744 RFCS-14 HD foot control 300429 Wireless foot control
 Visit MillerWelds.com or your distributor for other Miller® options and accessories.

*Sense voltage for low OCV stick and Lift-Arc[®] TIG. **See literature AD/4.25 for Complete package dimensions and weight.

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output	Amps Ir 208 V	nput at Ra 240 V	ited Outp 480 V	ut, 50/6 KVA	60 Hz KW	Max. Open- Circuit Voltage	Power Source Dimensions**	Power Source Net Weight**
AC/DC	Syncrowave 300 (907782) Power source only (951829) Complete w/foot (951830) Complete w/wireless foot	TIG (includes cooler	3-phase	5-300	210 A at 18.4 V,		14	7	5.9	5.5	60 VDC	H: 29.4 in. (746 mm)	101 lb.
		power draw)	1-phase		60% duty cycle	27	24	12	5.7	5.5	(13 VDC*)	W: 15 in. (381 mm)	(45.8 kg)
		Stick	Stick 3-phase		160 A at 26.4 V,	16	11	5	5.7	5.5		D: 24.6 in. (625 mm)	
	. , , ,		1-phase		60% duty cycle	27	23	11	5.7	5.5			



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.



Setting the standard for performance

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

A-150

(Air-Cooled)

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

Our TIG Torch Configurator is a simple way to 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

TIG Torches 🙈

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 high- and low-amperage mechanized applications.

Process

TIG (GTAW)

Suggested power sources

- Multimatic[™] 200/215 (pg 37) (A-150)
- Multimatic[™] 220 AC/DC (pg 38) (A-150)
- Multimatic[™] 255 (pg 39) (A-150)
- Maxstar[®] 280 Multiprocess (pg 40) (A-200, A-250, W-280)
- Dynasty[®] 280 DX Multiprocess (pg 40) (A-200, A-250, W-280)
- XMT Series (pg 42–45) (A-200, A-250)
- CST[™] 280 (pg 50) (A-250)
- Maxstar[®] 161 STL/STH (pg 52) (A-150)
- Syncrowave® 210 (pg 53) (A-150)
- Maxstar[®]/ Dynasty[®] 210 (pg 54) (A-150, W-250)
- Maxstar[®]/ Dynasty[®] 280 (pg 54) (A-200, A-250, W-280)
- Maxstar[®]/ Dynasty[®] 400 (pg 56) (W-375)
- Maxstar[®]/ Dynasty[®] 800 (pg 56) (W-400)
- Syncrowave® 300 (pg 57) (W-280)

Weldcraft A-80 Series See literature AY/21.0

Formerly known as WP-24 Series



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

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

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

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

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 Bod	ies
53N18	.040 in. (1.0 mm)
53N19	1/16 in. (1.6 mm)
24CB332	3/32 in. (2.4 mm)
Alumina N	ozzles
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)	Туре	Rated Output	Electrode Range
A-80 Flex	WP-24F-12-R	WP-24F-25-R	Air-cooled	DC: 80 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		AC: 50 A at 60% duty cycle	

Weldcraft A-125 Series See literature AY/22.0

Formerly known as WP-9 Series



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

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

- Maintenance and repair
- Home/hobby 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 66) 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)	Туре	Rated Output	Electrode Range		
A-125	WP-9-12-R	WP-9-25-R	-	-	Air-cooled	DC: 125 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		AC: 100 A at 60% duty cycle			
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



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

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

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

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 66) 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.

Rubber Mono-Flex[™] 2-Piece Rubber Model 12.5 ft. (3.8 m) 25 ft. (7.6 m) 12.5 ft. (3.8 m) 25 ft. (7.6 m) 12.5 ft. (3.8 m) 25 ft. (7.6 m) Туре **Rated Output Electrode Range** DC: 150 A at 60% duty cycle 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 .020-1/8 in. AC: 115 A at 60% duty cycle (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 WP-17FV-12-R WP-17FV-25-2 A-150 Flex Valve WP-17FV-25-R WP-17FV-12-2 A-150 Flex Valve Redhead WP-R17FV-12-R WP-R17FV-25-R _ _ _ _

Air-Cooled | TIG Torches

Weldcraft A-200 Series See literature AY/24.0 Formerly known as WP-26 Series



12.5 ft. (3.8 m)

WP-26-12-R

WP-26V-12-R

WP-26F-12-R

WP-26FV-12-R

WP-R26F-12-R

Model

A-200

A-200 Valve

A-200 Flex

A-200 Flex Valve

A-200 Flex Redhead

A-200 Flex Valve Redhead

A-250

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 advances capabilities with greater comfort and control (A-200 Flex Valve).

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

Type

Air-cooled

Rated Output

DC: 200 A at

AC: 150 A at

60% duty cycle

60% duty cycle

Electrode Range

.020-5/32 in.

(0.5-4.0 mm)

Ap	plications	
	phoaeono	

- 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 66) 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 66) 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.

	Dependa	ble, ton-performing
Weldcraft A-250	Series	See literature AY/24.5

25 ft. (7.6 m)

WP-26-25-R

WP-26V-25-R

WP-26F-25-R

WP-26FV-25-R

WP-R26FV-25-R

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

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

12.5 ft. (3.8 m)

WP-26-12-2

WP-26V-12-2

WP-26FV-12-2

_

A-250

Valve

25 ft. (7.6 m)

WP-26-25-2

WP-26V-25-2

WP-26F-25-2

WP-26FV-25-2

_

Share Your Passion

Reviews & Ratings offer valuable insights to help guide your next purchase.

They're written and submitted by people who have purchased and used Miller equipment. If you'd like to share your experience and help your fellow welders select the right welding equipment consider writing a review. Simply visit the product page on the website for the product you want to write about and click on "Write a Review".

	Miller	
4	Reviews & Ratings 🗸	
	WRITE A REVIEW	
	Rating Snapshot	Average Customer Ratings
	Select a row below to Titler reviews.	Ownel ***** **
	5* 28	Quality 43
	4*	Value and an All
	3* 1	
	2*	
	1.4	
		Most Helpful Critical Review
	Most Helpful Favorable Review	

1 m a	***** BuckarooT2 - a year soo	will not feed .023 wire
15.21	and the second	
	Excellent	is the former tableation trainer

	TIG Tor	ches	S Water	-Cooled				4.11		
	Idcraft Hy known as W		One of th market a require hi Use high a Superior m compact to Excellent w	nd designe igh ampera mperage in o aneuverabili rch body.	water-coo d for weld gge. confined are ty in limited-	led TIG torche ing in confine eas for efficient w access locations reasing torch size	d area velding.	e	 Food/bev Maintenai Petro/che Most pop Collets 53N16 53N16 53N14 24C332 Collet Boo 53N18 53N19 	ee = Manufacturing werage industry = Shipbuilding ance and repair emical = Precision fabrication pular consumables .040 in. (1.0 mm) 1/16 in. (1.6 mm) 3/32 in. (2.4 mm) dies .040 in. (1.0 mm) 1/16 in. (1.6 mm) 2 3/32 in. (2.4 mm) Nozzles #4, 1/4 in. #5, 5/16 in.
Model W-180	Braided Rubber, 25 ft. (7.6 WP-24W-25-R		/l, 25 ft. (7.6 m) •24W-25		pe ater-cooled	Rated Output DC: 180 A at 100% d				Electrode Range .020-3/32 in. (0.5-2.4 mm)
	Idcraft		Versatile limited-ad Pencil-style application Decreased overheating Comfort ar	water-cool ccess weld e, flexible ne s and confine downtime an g with the inne	ed torch o ing situation ck designed ed-area acce nd longer transvative cooli e increased v	ptimized for u ons. for both high-an ss. ouble-free servic	se in nperage ce due t		 Exotic ma Precision Pressure v Shipbuild Tube and Most pop Insulator (required) Collets (n 13N21 13N22 13N23 13N24 Collet Boo 13N26 13N27 	1/8 in. (3.2 mm) dies .040 in. (1.0 mm) 1/16 in. (1.6 mm)
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)	Туре	Rated Output		Electrode Range	13N28 13N29 Gas Lens	3/32 in. (2.4 mm) 1/8 in. (3.2 mm)
W-200 Pencil	Flex WP-25-12-R V	WP-25-25-R	WP-25-12	WP-25-25	Water-cooled	DC: 200 A at 100% d AC: 140 A at 100% d		.020-1/8 in. (0.5-3.2 mm)	45V42	.040 in. (1.0 mm)
Forme	rly known as V W-250 WP-20)	NP-20 S		AC: 140 A at 100% duty cycle (0.5-3.2 mm) 50 Series 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 were due to overheating with the efficient					Gas Lens	
	Braided Rubber	Vinyl								10 ft. (3 m) 22 ft. (6.7 m)

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)	Туре	Rated Output	Electrode Range	WC-3-22 22 ft. (6.7 m) Visit MillerWelds.com or vour distributor
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	.020-1/8 in. (0.5-3.2 mm)	for other Miller® options and accessories.
W-250 Valve	-	-	-	WP-20V-25		AC: 180 A at 100% duty cycle		

Water-Cooled | TIG Torches

Weldcraft W-280 Super Cool See literature AY/30.0 Formerly known as WP-280



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

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

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

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

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)	Туре	Rated Output	Electrode Range	
W-280 Super Cool	301251012	301251025	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



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.

								0000
		Braided Rubber		Braided Rubber with 50 mm Dinse				WCC
Model		12.5 ft. (3.8 m)	25 ft. (7.6 m)	25 ft. (7.6 m)	Туре	Rated Output	Electrode Range	WC
W-375 S	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)	Visit M for oth
							. ,	

Weldcraft W-350 Series See literature AY/32.0

Formerly known as WP-18 Series



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

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

App	lications
-----	-----------

- 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) (r

(required)	598882
- Collets (ne	on-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 Boo 	lies
13N26	.040 in. (1.0 mm)
13N27	
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 N	lozzles
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)

53N60 #6, 3/8 in. (gas lens) 53N61 #7, 7/16 in. (gas lens) 53N61S #8, 1/2 in. (gas lens)

#5, 5/16 in. (gas lens)

Back Caps

53N59

- 41V33 Short
- 41V35 Medium
- 41V24 Long

Most popular accessories

Cable Covers C0183 11.75 ft. (3.6 m)

C0182 24.25 ft. (7.4 m) MillerWelds.com or your distributor ther Miller[®] options and accessories.

Applications

- Fabrication Manufacturing
- Maintenance and repair

Shipbuilding Tube and pipe

Most popular consumables

most bol	
Collets	
10N24	3/32 in. (2.4 mm)
10N25	1/8 in. (3.2 mm)
54N20	5/32 in. (4.0 mm)
 Collet Bo 	dies
10N32	3/32 in. (2.4 mm)
10N28	1/8 in. (3.2 mm)
406488	5/32 in. (4.0 mm)
 Alumina I 	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)	Туре	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	.020-5/32 in. (0.5-4.0 mm)
W-350 Valve	-	WP-18V-25-R	-	WP-18V-25		AC: 250 A at 100% duty cycle	

Weldcraft W-400 Super Cool See literature AY/33.0

Formerly known as WP-18SC



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) 18036 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)	Туре	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



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

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 66) 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)		Туре	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	.020-1/8 in. (0.5-3.2 mm)
A-150 Modular Valve	WP-150V-12-R	WP-150V-25-R			AC: 105 A at 60% duty cycle	
M. J.I	Braided Rubber	Vinyl 25 ft. (7.6 m) 25 ft. (7.6 m)			Rated Output	Electrode Range
Model	12.5 ft. (3.8 m)	25 ft. (7.6 m)	25 ft. (7.6 m)	Туре	(Torch head dependent)	(Torch head dependent)

Water-cooled MicroTig[®] torch designed for limited-access joints.

45-degree, 90-degree, and 180-degree options improve access in tight areas. Lower maintenance costs incurred with the replaceable silicone rubber insulator

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

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

Weldcraft W-125 Long Micro See literature AY/25.0 Formerly known as WP-125L

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° Glass Nozzle (all sizes) 125N90 (other nozzles are available)



Model	Braided Rubber 12.5 ft. (3.8 m)	25 ft. (7.6 m)	Vinyl 25 ft. (7.6 m)	Туре	Rated Output	Electrode Range
W-125 Long Micro	WP-125L-12-R	WP-125L-25-R	WP-125L-25	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)

Automation and Tungsten | TIG Torches 📣

Weldcraft[™] Automation Series See literature AY/37.0



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

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

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

Handle the most demanding high-amperage applications (W-500 Automation). 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 121) 195378 50 mm Dinse-style 195377 225028 Water-Cooled Torch 1-Piece Power Cable Connectors (pg 121) 195377 50 mm Dinse-style 225028 50 mm thread-lock

Aerospace - Food/beverage industry
Pressure vessel fabrication

Applications

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

Model A-150 Automation	Rubber, 12.5 ft. (3 WP-23A-12-R	3.8 m)	2-Piece Rubber, 12 WP-23A-12-2	2.5 ft. (3.8 m)		Type Air-cooled	Rated Output DC: 150 A at 60% duty cycle AC: 120 A at 60% duty cycle	Electrode Range .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)			Туре	Rated Output	Electrode Range
W-250 Automation	-	-	WP-22A-3 WP-22A-12 WP-22A-2		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.

Туре	Stock Number	Diameter in. (mm)	Туре	Stock Number	Diameter in. (mm)
2% Ceriated (EWCe-2)			Pure (EWP)		
Performs well in DC welding	WC040X7	0.040 (1.0)	Forms a clean, balled end	-	0.040 (1.0)
and arc starting at low-current	WC116X7	1/16 (1.6)	when heated. Provides	WP116X7	1/16 (1.6)
settings. Offers excellent performance in AC processes.	WC332X7	3/32 (2.4)	good arc stability for AC welding with a balanced	WP332X7	3/32 (2.4)
· · · · · · · · · · · · · · · · · · ·	WC018X7 1/8 (3.2)		or unbalanced squarewave	WP018X7	1/8 (3.2)
	WC532X7	5/32 (4.0)	or sine wave.	-	5/32 (4.0)
2% Lanthanated (EWLa-2)			Rare Earth (EWG)		
Provides excellent arc starting,	WL2040X7	0.040 (1.0)	Combines the best of all	-	0.040 (1.0)
arc stability and re-ignition, and less tip erosion in AC or	WL2116X7	1/16 (1.6)	alloying elements, and provides excellent arc stability	WG116X7	1/16 (1.6)
DC welding. Can substitute	WL2332X7	3/32 (2.4)	in AC or DC welding.	WG332X7	3/32 (2.4)
for 2% Thoriated.	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, A-200

and A-250. 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, W-225, W-250, 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.



66

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.



For W-250 Series, W-280 Super Cool and W-375 Super Cool. Includes one long back cap.

AK4C

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)

AK125C

AK-150MFC

For A-125 Series,

A-150 Series and

operators to customize

their standard A-125

(WP-9) or A-150

(WP-17) TIG torch

AK-225MFC

Includes five

additional torch

bodies, nozzles,

For W-225 Modular.

heads, collets, collet

Allows welding

For W-125 Long

Micro. Includes

one of each size

(180°, 45°, 90°,

90° short) glass

collet body, and one of each size (3/32, 1/8, 5/32 inch) 7-inch 2% ceriated tungsten electrode.

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.



for their specific application. Kit converts into 28 different torch styles while using the A-125 and A-150 existing cable. Features collets, collet bodies, nozzles, torch heads, 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





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

Allows for quick connection

Allows for quick connection

and removal of torch

shielding gas hoses.

and removal of torch

coolant hoses.

environments. Available in 10-foot, 22-foot, and 48-foot lengths, these covers can help prevent the frequent replacement of expensive welding cables.

ORG

ORW

Remote Controls

See pages 120-121 in Accessories section for stock numbers and more information.



East/west rotary-motion fingertip current/contactor controls





Foot pedal current/ contactor controls.



contactor controls.

Miniature hand current/

Momentary- and maintainedcontact rocker switch for contactor control.

Momentary-contact switch for contactor controls.

Remote on/off control.









Welding Intelligence



Transform data into actionable information that drives continuous improvement.

Insight Centerpoint version 10 available. See page 69 for more information.



Improve weld quality



Increase productivity



Complete coverage for any application.





Automation

Submerged arc

Choose the Right Welding Intelligence System

		Insight Core	Insight Centerpoint [®]	Insight ArcAgent
For	Factory-Installed	 Continuum[™]/Auto-Continuum[™] (standard) 	 Continuum[™]/Auto-Continuum[™] (optional) 	ANY welding power source (old or new)
Use With	Field-Installed/Activated	 14-pin compliant power source (see MillerWelds.com/insight) 	■ Continuum [™] /Auto-Continuum [™]	ANY brandANY welding process
Requirer	ments	 Internet connection (wired/wireless) 	PC and Ethernet connection	See Insight Core/Centerpoint requirements
What Ca	apability Do You Need?	 Productivity monitoring Weld parameter verification Simplicity/basic monitoring Goal setting Analytic tools 	 Prevent/detect missed welds Minimize overwelding/underwelding Electronic work instructions Measure overall equipment effectiveness (OEE) 	 Universal solution for use with Insight Core or Insight Centerpoint
Data Sto	orage	Cloud based	Local server or PC	See Insight Core/Centerpoint requirements

Insight Core

Simple, cloud-based welding information management solution that reports operator productivity and deposition, as well as weld parameter verification.

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

Productivity dashboard. Instant visibility of arc-on time and wire deposition — by location, work cell, power source or operator.

Quality dashboard. Real-time analysis and reporting of all welds, revealing when quality fails to meet established thresholds for amps, volts and WFS. Includes weld trace.

Reports. In-depth information is available in reports that can be easily modified and displayed in a wide variety of customizable formats.

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.



Universal brand capability

With an ArcAgent[™] module, you can have the power of Insight Core on any machine from any manufacturer, giving you complete coverage of your facility.

No mandatory

subscription fees



Onboard memory for

those times when internet

connections go down

Innovative USB setup

support for quick installation,

easy data transfer and

fast firmware updates

¹Additional stock numbers are available – visit MillerWelds.com/insight.
 ²SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit (301295).

³ TIG applications require TIG Filter (301359) to monitor voltage.

Туре	Continuum Power Sources ¹	Miller 14-Pin Compliant Power Sources	Universal Adaptability (works with ALL brands/models of power sources)
Factory-Installed Insight Core	Continuum 350 (907636) Continuum 500 (907640) Auto-Continuum 350 (907656) Auto-Continuum 500 (907657)	-	-
Field-Installed Insight Core	-	Requires Insight Core 14-pin module (301072) ² See MillerWelds.com/insight for a list of 14-pin compatible power sources	Requires ArcAgent for Insight Core (951773) with Stud output (951772) with Dinse output ³

Uses standard web browsers;

no software or applications

to install or maintain

Welding Intelligence

Insight Centerpoint

Advanced, real-time operator feedback solution to prevent missed welds, enforce proper weld sequences and ensure consistent weld quality.

Version 10

- Designed for ease of use
- Faster start up time
- Drastically shortened learning curve

Software features

Part Tracking[™] provides real time operator feedback to ensure accurate weld sequence, prevent missed welds and ensure proper weld parameters.

WorkFlow[™] enables you to present electronic work instructions for pre-weld, intra-weld, and post-weld activities (using video, pdf, and more) to ensure consistent standardized production for every operator.

Job tracking. A browser-based user interface eliminates the need for a PC in the workstation, allowing an operator to easily record everything that goes into creating a part.



For more information:

Call 1-844-463-4328 or email insight@MillerWelds.com

Universal brand capability

With an ArcAgent^w module, you can have the power of Insight Centerpoint on any machine from any manufacturer, giving you a complete picture of your facility.

¹ Additional stock numbers are available – visit MillerWelds.com/insight.

Туре	Continuum Power Sources ¹	Universal Adaptability (works with ALL brands/models of power sources)	Insight Centerpoint Software	Accessories
Optional Factory-Installed Insight Centerpoint	Continuum 350 (907636) Continuum 500 (907640) Auto-Continuum 350 (907656) Auto-Continuum 500 (907657)	-	(951809)	Insight LTD Gun (Q4015JS3EML) For Continuum Insight LTD Remote (301383) M12/RJ45 Ethernet Cables (300734) 9.8 ft. (3 m)
Field-Installed Insight Centerpoint	-	Requires ArcAgent Manual or Auto (301343) Manual with front panel Part Tracking controls (301345) Manual with Insight torch capability (301346) Auto	(301485)	(300736) 32.8 ft. (10 m) Field Application Support (195480) Miller field support (contact distributor for details)





HTH Engine-Driven





	Product Guide		Class	Stick	UIC.	Flux-cored*	AC TIG	DC TIG	PAC**	CAC-A	Portability	Weldable Metals	Continuous Generator Pwr. (watts)	Welding Amperage Range	Engine Brand	Special Features	Typical Applications
	Fusion 160	71)	Optional	Steel	6,200	30-160 DC	Kohler	Portable, PowerShift technology, inverter stick	Maintenance, construction,
	Blue Star® 185	71						\bigcirc)	lift eye or running gear		6,200	60-195 DC	Kohler	Compact	 repair, service trucks
ne	Bobcat [™] 200 Air Pak [™]	73	•					•	•		Lift eye, optional	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
Gasoline	Bobcat™ 225	74						•	•		running gear or trailer	Steel, stainless, aluminum	9,500	60-160 AC 40-225 DC	Kohler	Cost-effective AC/DC stick	Maintenance, farm/ranch, construction
	Bobcat™ 3 Phase	74						•	•				10,000	40-225 AC 40-210 DC	Kohler	Backup power for pivot irrigation	Farm/ranch
	Trailblazer® 302 Air Pak™	78	•				•	•	•	3⁄16"			11,000	10-225 AC 10-350 DC	Kohler	AC/DC, CC/CV, air compressor, battery charge/crank assist	Service/maintenance, construction
e.	Bobcat™ 250	74	•					•	•	3⁄16"	Lift eye, optional	Steel, stainless, aluminum	9,500	40-250 DC	Kohler	Most popular engine drive, AC/DC; optional EFI	Fab, maintenance, farm/ranch, construction
Gas or LP	Trailblazer® 325	76	•					•		3⁄16"	running gear or trailer	Steel, stainless	10,500 (Gas) 10,000 (LP)	10-325 DC (Gas) 10-305 DC (LP)	Kohler	ArcReach [®] (most models), Auto-Speed [™] ; optional EFI, Excel [™] power, battery charge/ crank assist	Fab, maintenance, structural, repair, pipe
	Bobcat [™] 200 Air Pak [™] Diesel	73	•					•	•		Lift eye, optional	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
	Bobcat [™] 250 Diesel	74	•					•	•	3⁄16"	running gear or trailer	Steel, stainless, aluminum	9,500	40-250 DC	Kubota	Contractor's choice, AC/DC stick, strong FCAW	Fab, maintenance, farm/ranch, construction
	Trailblazer [®] 325 Diesel	76	•					•	•	3⁄16"		Steel, stainless	10,500	10-325 DC	Kubota	ArcReach [®] , Auto-Speed [™] ; optional Excel [™] power	Fab, maintenance, structural, repair, pipe
-	Big Blue® 400 Pro	78	•					•	•	3⁄16"	Lift eye, optional trailer	Steel, stainless	10,000	20-400 DC	CAT, Kubota, Mitsubishi	Quiet, compact, fuel efficient; optional ArcReach®	Construction, repair
Diesel	Big Blue® 400 PipePro®	79								1/4"			10,000	20-400 DC	CAT, Mitsubishi	ArcReach®, Line-X® top cover, lift-off service door; optional stainless steel	Cross country pipeline
	Big Blue® 450 Duo CST™	79	•	•				•	•	3⁄16"			10,000	5-450 DC	Mitsubishi	Dual operator in a compact package	Construction, fabrication, pipe
	Big Blue® 500 Pro	80								5⁄16"	Lift eye, generally	Steel, stainless	20,000	20-500 DC	Kubota	Quiet, fuel efficient; optional ArcReach®	Construction, repair
	Big Blue [®] 600 Series	80	•					•	•	3⁄8"	mounted on optional trailer		20,000	20-600 DC	Kubota (Pro), Deutz (Air Pak)	Quiet, powerful, fuel efficient; optional ArcReach® – Air Pak™ model has ArcReach® standard and adds air compressor	Construction, repair, maintenance, mining, rail
	Big Blue® 800 Series	81	•					•	•	1⁄2"			20,000	20-800 DC	Deutz	ArcReach [®] , heavy duty, dual operator – Air Pak [™] model adds air compressor	Construction, repair, maintenance, mining, rail

Product Key

Class:
Class:

New! or Improved! products appear in blue type. *If using self-shielded wire, use CV weld output. **With appropriate Spectrum plasma cutter.

Engine-Driven H

Fusion 160 See literature ED/2.8

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.





POWERSHIFT

Work anywhere convenience. PowerShift technology provides weld capabilities using either the Fusion 160 gasoline engine or 120/240-volt utility power. You'll have the confidence of knowing

that you can weld virtually anywhere - outdoors and indoors with just one machine. 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 160 is up to 45 pounds less 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.

Light industrial CC DC 1

Process

Stick (SMAW)

Gasoline engine

Kohler CH440: 13.4 hp at 3,600 rpm One-cylinder, four-cycle, OHV, air-cooled Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Lifting Eye 195353 (pg 116)
- Running Gear 301246 (pg 116)
- Twist Lock Adapter Cord 301489

(pg 116) Protective Cover 301245 (pg 116) Visit MillerWelds.com or your distributor for other Miller® options and accessories

	Stock Number	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 Generator Power at 104°F (40°C)	Dimensions	Net Weight
oline	(907773) Kohler with	Engine power	CC/DC	DC stick	30-160	160 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)	242 lb. (110 kg)
Gası	electric start	PowerShift 120 V			30-100	90 A at 23.6 V, 40% duty cycle	22.7	-	W: 20.125 in. (510 mm) D: 31.25 in.	
		PowerShift 240 V			30-160	160 A at 26.4 V, 20% duty cycle 110 A at 24.4 V, 100% duty cycle	25.0	_	(794 mm)	

Blue Star® 185 See literature ED/2.5

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



Compact and portable, its small footprint uses little truck space. Optional running gear also makes the Blue Star one-man portable.

All engine controls are on front panel.

Stick and TIG capable.

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

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

CC DC Light industrial

Processes

Stick (SMAW) = TIG (GTAW)

Gasoline engine

Kohler CH440: 13.4 hp at 3,600 rpm One-cylinder, four-cycle, OHV, air-cooled Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Lifting Eye 195353 (pg 116)
- Running Gear 301246 (pg 116)
- Protective Cover 301245 (pg 116) Visit MillerWelds.com or your distributor for other Miller® options and accessories.

e	Stock Number	Welding Mode	Welding Process	Amperage Range	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
Gasolii	(907664) Kohler	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?

*Based on typical usage —	Bobcat: The most popular weld	er/generator	Trailblazer: The best performer in the industry
150 amps welding 40% of the time; 20 amps generator power 30% of the time; and idling without load 30% of the time.	 Dependable power and weld output Cost-effective multiprocess welder/ge Easy to maintain Quietest in its class 		 Unbeatable arc performance Independent welder and generator power system Exclusive technologies – Auto-Speed[™] and Excel[™] power Most fuel efficient and quietest in its class
Sound Levels (at 23 feet)	Bobcat 225 (page 74)	Bobcat 250 (page 74)	Trailblazer 325 (page 76)
At Maximum Load/At 150 Amps	73.5 dB/ 72 dB	72.5 dB/72 dB	74 dB/65 dB
Sound Quality	Good	Very good	Excellent
Fuel System			
Typical Runtime per 12-Gallon Tank*	13 hours	13/ 15.5 hours with EFI	Up to 21 hours with options
Efficiency	Good	Good/Very good with EFI	Excellent
Туре	Gasoline	Gasoline or LP	Gasoline or LP
Delivery	Carburetor	Carburetor or EFI available	Carburetor or EFI available
Generator			
Peak Watts	11,000 watts	11,000 / 12,000 watts with EFI	12,000 watts
Clean Power Quality	Very good / Excellent	Very good / Excellent	Excellent
Power While Welding	Fair/Good — With voltage control set near maximum	Good — Easier to fine-tune with arc voltage control near maximum	Independent weld and generator power with no interaction between tools and welding arc
Excel [™] Power Generator (120 V, 60 Hz at all engine speeds)	-	-	Excel power available
Weld Performance			
Stick	Good/Very good	Very good	Excellent
MIG – Wire (solid / FCAW), Steel	Fair (.035 in.)	Good (.035-1/16 in.)	Excellent (.023-1/16 in.)
MIG — Wire, Aluminum w/Spool Gun	Fair/Good (add WC-115A with contactor)	Very good (add WC-115A with contactor)	Excellent (add WC-24)
DC TIG (steel)	Good	Very good	Excellent
AC Weld	60-160 amps	40-250 amps	Add Dynasty® (page 54)
Carbon Arc Gouging	-	Good Carbons: Rated 3/16 in.	Very good Carbons: Rated 3/16 in., Capable 1/4 in.
Key Features			
Digital Meters	-	-	With Sunvision™
Maintenance Displays	Hours/Oil change	Hours/Oil change/Fuel	Hours/Oil change/Fuel/rpm
Battery Charge / Crank Assist	_	_	12 and 24 volt available
14-pin Receptacle	-	_	With Auto Remote Sense™
ArcReach	-	_	ArcReach technology standard (on most models)

Bobcat[™]/Trailblazer[®]/Big Blue[®] Air Pak[™]Comparison – Which is Right for You?

Cost-effective AC/DC Quiet and powerful Heavy-duty, welder/generator/ multiprocess multiprocess dual-operator air compressor/ welder/generator/ welder/generator/ welder/generator/ battery charger air compressor/ air compressor air compressor battery charger Bobcat 200 Air Pak (page 73) Trailblazer 302 Air Pak (page 78) Big Blue 600 Air Pak (pa Big Blue 800 Duo Air Pak (page 81) 30 cfm, 175 psi 31 cfm, 160 psi 60 cfm, 100 psi 60 cfm, 100 psi Compressed Air **Battery Charge/Crank Assist** 12 and 24 volt 12 and 24 volt **Generator Power** Peak: 8,000 watts Peak: 13,000 watts Peak: 15,000 watts Peak: 15,000 watts Single-phase Continuous: 6,500 watts Continuous: 11,000 watts Continuous: 12,000 watts Continuous: 12,000 watts Peak: 27,000 watts Peak: 27,000 watts Three-phase Continuous: 20,000 watts Continuous: 20,000 watts 30-210 amps Single weld mode: 40-800 amps Weld Output Range 10-300 amps 20-600 amps (CV/DC, CC/DC) (CV/DC, CC/DC, CC/AC) (CV/DC, CC/DC) Dual weld mode: 20-400 amps (CV/DC, CC/DC) Fuel Type Gas/Diesel Gas Diesel Diesel 46 x 28.5 x 69.5 in. Size 29.78 x 20 x 44.61 in. (gas) 28 x 20 x 59.625 in. 46 x 28.5 x 69.5 in. 29.75 x 20 x 47.25 in. (diesel) Weight 514 lb. (gas), 618 lb. (diesel) 771 lb 2 040 lb 2 095 lb ArcReach _ _ ArcReach technology standard ArcReach technology standard

Bobcat[™] 200 Air Pak[™] 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) now with Auto-Speed technology and multiprocess weld capabilities.



Bobcat 200 Air Pak Diesel

Maximize available payload. Reduce weight by up to 600 pounds and increase available payload by up to 24 cubic feet by reducing the equipment on the truck.

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 generator 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.

Cv DC Light industrial 🔵

Process

Engine-Driven H

Stick (SMAW) = MIG (GMAW)¹

Flux-cored (FCAW)¹ = DC TIG (GTAW)²

¹With voltage-sensing feeder.

²Two-piece TIG torch recommended.

Engines EFI gas: Kohler ECH730

23.5 hp at 3,600 rpm

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

EPA Tier 4 Final Diesel: Kubota D722 19 hp at 3,600 rpm

Three-cylinder, industrial, liquid-cooled Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- ArcReach® SuitCase® Feeders (pg 18)
- Spoolmate[™] 200 300497 (pg 27)
- Spoolmatic[®] 30A 130831 (pg 28)
- Spectrum[®] 375 X-TREME[™] (pg 90)
- Multi-Terrain Running Gear 301460 (pg 116)
- Full KVA Adapter Cord 300517 (pg 116)
- Protective Cover (pg 116) 301475 Gas without running gear
- 301476 Gas with running gear
- 301531 Diesel without running gear
- 301532 Diesel with running gear
- HWY-Mid Frame Trailer 301438 (pg 117)
- 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.

	Model/Stock Number		Welding Mode	Welding Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)		Single-Phase Generator Powe at 104°F (40°C)		Dimensions			Net Weight		
oline	Bobcat 200 Air Pak (907771) Kohler Bobcat 200 Air Pak Diesel (907760) Kubota				30-210 A	120 A at 25 V, 100% 140 A at 26 V, 60% o 210 A at 28 V, 20% o	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)			514 lb. (233 kg)			
Gasc			CV/DC	MIG/FCAW	15-26 V	120 A at 20 V, 100% 140 A at 21 V, 60% 210 A at 25 V, 20%	duty cycle		D: 44.6	31 in. (1,13	3 mm)				
sel					sel CC/DC DC stick/TIG 3		30-210 A	120 A at 25 V, 100% 140 A at 26 V, 60% o 210 A at 28 V, 20% o	duty cycle	Peak: 8,000 watts Continuous: 6,500 watts	H: 29.7	75 in. (734 5 in. (756 n. (508 mm	mm) to top of exhaus		618 lb. (280 kg)
Die			140 A at 21 V,		120 A at 20 V, 100% 140 A at 21 V, 60% 210 A at 25 V, 20% o	duty cycle		D: 47.2	!5 in. (1,20	in. (1,200 mm)					
	Rotocomp Feature						Free Air Delivery		Working Pressure		Duty Cycle	Oil C	apacity		
	Air Compressor	Rotary so	rew with electr	ic clutch for on/of	f, oil change inte	rvals 500 hours	30 cfm (0.85	m ³ /min.) at 3,600 rpm	80-175 psig		100%	2 qt.	(1.89 L)		

Hengine-Driven

Bobcat[™] Series Gas, LP and Diesel



The legendary Bobcat welder/generator is reliable, powerful and durable. One of the smallest and lightest in its class.

Versatile AC and DC welding

Provides AC and DC welding output for greater versatility and quality welds on all types of metals. DC is smooth and easy to run while AC stick is used when arc blow occurs.

Stronger generator power

11,000 watts (12,000 on Bobcat 250 with EFI) of truly usable generator power that is Accu-Rated[™], not inflated – tested to deliver uninterrupted peak output for a minimum of 30 seconds for big loads, so you can get more jobs done.

Advanced generator technology virtually eliminates power spikes and other electrical imperfections so welds are cleaner and jobsite tools can run without interruption, maximizing quality, productivity and profit.

Easier maintenance

Easy-to-read front panel maintenance displays show engine hours and hours left before an oil change is due. This intuitive design makes maintenance fast and easy.

- Oil checks from the top by the front panel
- Toolless panels that allow for quick access
- Single-side fuel fill and oil drain/filter



Waveform Comparison

Quieter and better sound

Up to 33 percent sound reduction.

Significant improvements in sound level and quality offer better jobsite communication, which provides a more efficient working environment for you and your crew. Bobcat welder/generators have rotated the engine toward the front to create more efficient airflow, resulting in significantly quieter operation. Now you can start your job earlier in the day and end it later, as well as work around hospitals, businesses, and residential areas.

More portable, uses less truck space

Smaller and lighter. Up to 17 percent less cubic space and weighing up to 100 pounds less than other welder/ generators in their class – means moving Bobcat welder/generators is faster and easier, for maximum productivity. Bobcat welder/generators take up less space on trucks and trailers – leaving more room on your truck for other equipment and tools. Plus, they're easier to move safely around jobsites – even with weld cables and running gear attached.





Bobcat[™] 225 (Gas) See literature ED/4.4

Cost-effective, multiprocess welder/generator primarily used for stick welding. Great for farm, ranch, maintenance/repair and as a stand-alone generator.





Features three DC stick/TIG controls, one AC stick/TIG control and one wire range for output control. Stick ranges designed for 3/32, 1/8 and 5/32 inch. Very easy to set.



Bobcat[™] 3 Phase (Gas) See literature ED/4.33

Designed for farm and ranch owners in need of single- and three-phase power to run 480-volt three-phase pivot irrigation systems or to provide backup power for home, farm and/or ranch.

Bobcat[™] 250 (Gas, LP or Diesel) See literature ED/4.4 (Gas/LP) and ED/4.34 (Diesel)



Multiprocess engine-driven welder/generator capable of carbon arc gouging features a larger stabilizer for less spatter and smoother arc. Ideal welder/ generator for maintenance/repair, construction, farm/ranch or as a stand-alone generator.

Convenient front panel fuel gauge.

More precise amperage settings with wider range for optimal stick/flux-cored welding.

Features four AC/DC stick/TIG controls and two wire ranges for output control. Stick ranges designed for 3/32, 1/8, 5/32 and 3/16 inch. Very easy to set.



Add optional electronic fuel injection (EFI) improved fuel efficiency for maximum productivity and profitability

Adding EFI to your Bobcat 250 welder/generator provides multiple benefits. With EFI you'll get faster, more reliable starts in any weather - no choke adjustments needed. EFI-equipped Bobcat 250 machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you'll spend more of your time welding, improving productivity.

*Electric fuel pump recommended for operation at altitudes above 5,000 feet.



Industrial 🔴 CV AC

Engine-Driven

Processes

- AC/DC stick (SMAW)
- MIG (GMAW)¹ = Flux-cored (FCAW)¹
- AC²/DC TIG (GTAW)
- ¹With voltage-sensing feeder. ²With Dynasty[®] 210 Series.

³Bobcat 250 models only.

Engines

Gas: Kohler CH730 23.5 hp at 3.600 rpm

EFI gas: Kohler ECH730

23 hp at 3,600 rpm

LP: Kohler CH730

Liquid withdrawal LP system

21.5 hp at 3,600 rpm V-twin-cylinder, four-cycle, overhead

valve, industrial, air-cooled

EPA Tier 4 Final Diesel: Kubota D722

19 hp at 3.600 rpm

Three-cylinder, industrial, liquid-cooled Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- ArcReach® SuitCase® Feeders (pg 18)
- Dynasty[®] 210 Series (pg 54)
- Spectrum[®] 625 X-TREME[™] (pg 90)
- Multi-Terrain Running Gear (pg 116)
- Off-Road Running Gear (pg 116)
- Protective Cage with Cable Holders (pg 116)
- Hose and LP Tank Mounting Assembly (pg 116)
- Remote Oil Drain/Filter Kit (pg 116)
- All-Purpose Running Gear (pg 116)
- Full KVA Adapter Cord 300517 (pg 116) Protective Cover (pg 116)
- HWY-Mid Frame Trailer 301438
- (pg 117)
- GFCI Panel Mount 120 VAC Duplex Kit 300975
- Electric Fuel Pump Kit 300976 (for gas models only) Recommended for operation at altitudes above 5,000 feet
- Spark Arrestor Kit 300924

(for gas models only) Visit MillerWelds.com or your distributor

for other Miller® options and accessories.
Trailblazer® Series Gas, LP and Diesel

See lit. ED/4.75 (Gas/LP) and ED/4.8 (Diesel)





Now with ArcReach technology standard on most models (see page 77 chart).

Trailblazer welder/generators deliver unbeatable arc performance providing the smoothest, most stable arc in the industry. Miller-exclusive Auto-Speed[™] technology (now with 1,800 rpm level on diesel model) delivers superior runtimes, increased fuel efficiency, and improved welder/generator performance.

ArcReach® remote control technology

Standard on most models (see page 77 chart) – remote control of the power source without a control cord.



DYNAMIC

An ArcReach system allows you to change weld settings from your ArcReach feeder or remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs. Learn more at **MillerWelds.com/arcreach**

Unbeatable arc performance

Dynamic DIG[™] **technology** automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.



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

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.





Get the welding power you need – plus reduced fuel consumption and lower noise levels for a more profitable jobsite. Trailblazer-exclusive Auto-Speed technology 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.

Options to Maximize Your Trailblazer 325 Performance

Electronic fuel injection EFI (gas models)

Adding EFI to your Trailblazer welder/generator adds multiple benefits. With EFI, you'll get faster, more-reliable starts in any weather no choke adjustments needed. EFI-equipped Trailblazer machines are also up to 42 percent more fuel efficient than standard carbureted models, improving profitability. Plus, refueling less frequently means you'll spend more of your time welding, improving productivity.

Add Excel power to your Trailblazer with EFI for maximum fuel-efficiency.



Based on typical usage - 150 amps welding 40% of the time; 20 amps generator power 30% of the time; and idling without load 30% of the time.

Excel[™] power

Excel power delivers a full 2,400 watts (20 A) of 120-volt inverter-based, pure 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 and exhaust emissions are lowered. Excel power — available only from Miller.



Based on generator-only use for total runtime.

Battery charge/crank assist (option on gas models)

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 75 amps of DC current to quickly charge 12- and 24-volt batteries. Jobsite equipment with weak batteries can get up to 350 amps of crank assist.

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

Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons)

Engine-Driven H

Processes

Heavy industrial

¹With wire feeder.

²Two-piece TIG torch recommended. ³ArcReach models only with ArcReach Smart Feeder.

Stick (SMAW) = MIG (GMAW)¹

Flux-cored (FCAW)¹ = DC TIG (GTAW)²
 RMD^{®3} = Pulsed MIG (GMAW-P)³

cc DC

Engines

Gas: Kohler CH730 23.5 hp at 3.600 rpm

EFI gas: Kohler ECH730

23 hp at 3,600 rpm

LP: Kohler CH730LP

23.5 hp at 3,600 rpm Twin-cylinder, four-cycle, overhead

valve, industrial, air-cooled

EPA Tier 4 Final Diesel: Kubota D902

24.8 hp at 3,600 rpm Three-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase[®] Feeders (pg 18/46)
- ArcReach[®] Smart Feeder 951733 (pg 18/46) (for ArcReach models only)
- ArcReach[®] Stick/TIG Remote 301325 (pg 46) (for ArcReach models only)
- Spoolmatic[®] 30A/WC-24 Control 130831/137549 (pg 28/122)
- Multi-Terrain Running Gear (pg 116)
- Off-Road Running Gear (pg 116)
- Protective Cage with Cable Holders
- (pg 116) Hose and LP Tank Mounting
- Assembly (pg 116)
- All-Purpose Running Gear (pg 116)
- Full KVA Adapter Cord (pg 116)
- Protective Cover (pg 116)
- HWY-Mid Frame Trailer (pg 117)
 Electric Fuel Pump Kit 300976 (for gas models only)
 Recommended for operation at altitudes above 5,000 feet
- 25 ft. Battery Charge/Jump Cables with Plug 300422 (for Trailblazer 325 EFI 907798004 only)

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

*Electric fuel pump recommended for operation at altitudes above 5,000 feet. **For LP models order Hose and LP Tank Mounting Assembly (300917) separately.

	Model	Stock Number	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
or LP	Trailblazer 325	ArcReach-equipped models (907797) Kohler (907797001) Kohler with GFCI (907797002) Kohler with GFCI and electric fuel pump* (907798) EFI Kohler (907798002) EFI Kohler with Excel power	CC/DC CV/DC	Stick/TIG	10-325 A (Gas) 10-305 A (LP)	325 A at 28 V, 100% duty cycle (Gas) 305 A at 28 V, 100% duty cycle (LP)	Peak: 12,000 watts 10,500 watts (LP) Continuous: 10,500 watts 10,000 watts (LP)	H: 28 in. (711 mm) H: 32.75 in. (832 mm) to top of exhaust W: 20 in. (508 mm) D: 40.5 in. (1,029 mm)	Gas: 460 lb. (209 kg) LP: 475 lb. (215 kg)
Gas		(90775002) Eri Kollier with Excel power (907775001**) Liquid LP Kohler with GFCl and Excel power Non-ArcReach models (907798004) EFI Kohler w/Excel power and battery charge/crank assist (907775**) Liquid LP Kohler with GFCl		MIG/FCAW	10-35 V		Excel power (optional) 2,400 watts 20 A at 120 V, 60 Hz pure generator power		(213 kg)
Diesel	Trailblazer 325 Diesel	ArcReach-equipped models (907799) Kubota (907799001) Kubota with GFCI (907799002) Kubota with GFCI and Excel power	CC/DC CV/DC	Stick/TIG MIG/FCAW	10-325 A 10-35 V	325 A at 33 V, 100% duty cycle 325 A at 33 V,	at idle speed and while welding.	H: 28 in. (711 mm) H: 34.5 in. (876 mm) to top of exhaust W: 20 in. (508 mm)	620 lb. (281 kg)
						100% duty cycle		D: 45.5 in. (1,156 mm)	

Trailblazer[®] 302 Air Pak[™] See literature ED/4.78

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



See page 121

*Electric fuel pump recommended for operation at altitudes above 5,000 feet. Superior arc performance. Preset DIG settings optimized for the majority of stick welding applications, best-in-class wire arc performance, and two Lift-Arc[™] TIG modes for most DC TIG applications.

Strongest combined generator/compressor power. Delivers an industry-leading 13,000 watts of peak generator power independent of weld settings - can power a Spectrum® 875 plasma cutter, and provide air for plasma cutting at the same time (rated 1/2-inch mild steel).

Rotary screw air compressor. Delivers up to 31 cfm and 160 psi with no storage tank and runs many tools at idle speed. Provides 100 percent deliverable air, rated at an industry-high 104 degrees Fahrenheit. Front panel adjustment and automatic overpressure shutdown with indication. 30,000-hour life expectancy and warranted for three years by Miller.

Battery charge/crank assist. Provides selectable 12- or 24-volt battery charging with up to 450 amps of battery crank assist capability. Convenient front panel access.

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

Heavy industrial

- **Processes**
- AC/DC stick (SMAW)
- MIG (GMAW)¹ Flux-cored (FCAW)¹ AC²/DC³ TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 3/16 in. carbons, capable 1/4 in. carbons)
- ¹ With wire feeder.
- ² With Dynasty® 210 Series.
- ³ Two-piece TIG torch recommended.

Gasoline engine

Kohler CH750: 27 hp at 3,600 rpm V-twin-cylinder, four-cycle, overhead valve, industrial, air-cooled Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- SuitCase[®] Feeders (pg 18) Spoolmatic[®] 30A / WC-24 Control 130831/137549 (pg 28/122)
- 25 ft. Battery Charge/Jump Cables with Plug 300422

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

	Stock Number		Welding Mode	Welding Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions			Net Weight
	(907549001) Kohler (907549) Kohler with GFCl and electric fuel pump* (907549003) Kohler with GFCl, cooler/separator and electric fuel pump* Air Compressor Features Rotary screw with electric cli oil change intervals of 500 H		CC/DC	Stick/TIG	10-300 A	280 A at 32 V, 100% duty cycle	Peak: 13,000 watts	H: 28 in. (711 mm)			771 lb.
Gasoline			CV/DC	MIG/FCAV	V 13-35 V, 350 A	300 A at 32 V, 100% duty cycle 350 A at 32 V, 60% duty cycle	vie W: 20 in. (5		5 in. (876 mm) to top of exhaust in. (508 mm) 625 in. (1,514 mm)		(350 kg)
aso			CC/AC Stick/TIG		10-225 A	200 A at 25 V, 60% duty cycle		D. 59.025 III. (1,514 IIIII)			
<u>а</u>					Free Air Delivery		Working Pressure Constant		Duty Cycle	Oil Capa	city
			,	f,	28 cfm (0.79 m ³	/min.) at 3,600 rpm /min.) at 3,000 rpm /min.) at 2,400 rpm (idle)	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.



 $(\mathbf{\Omega})$ WIRELESS COMPATIBLE

See page 121. Wireless antenna kit (300749) recommended.

Available on select models. Remote control ArcReach of the power source without a control cord. See page 76 for more information.

Dynamic DIG[™] technology automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

DYNAMIC



Industrial USB port. Ouickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

10,000 watts of pure generator power. Plug in an extra Miller® inverter-based power source for an additional welding arc!

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

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

^{ce}cv DC **Heavy industrial**

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) ¹With wire feeder.
- ²ArcReach 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, industrial, liquid-cooled

Kubota V1505: 20.2 hp at 1,800 rpm Four-cylinder, industrial, liquid-cooled Mitsubishi S4L2: 24.7 hp at 1,800 rpm Four-cylinder, industrial, liquid-cooled Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase[®] Feeders (pg 18/46)
- ArcReach[®] Smart Feeder (pg 18/46)³
- ArcReach® Stick/TIG Remote (pg 46)³ Protective Cover 195301 (pg 116)
- ³ For ArcReach models only.

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

	Stock Number (907774) CAT	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
Diesel	(907774001) CAT with ArcReach (907732) Kubota (907732001) Kubota 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	Peak: 12,000 watts Continuous: 10,000 watts	H: 32 in. (813 mm) W: 26.25 in. (667 mm) D: 56 in. (1,422 mm)	CAT: 1,038 lb. (471 kg) Kubota: 950 lb. (431 kg) Mitsubishi: 993 lb. (450 kg)
	(907733) Mitsubishi (907733001) Mitsubishi with ArcReach	CV/DC	MIG/FCAW	14-40 V	400 A at 24 V, 100% duty cycle		D. 50 III. (1,422 IIIIII)	Witsubishi. 555 lb. (450 kg)

Engine-Driven

Big Blue[®] 400 PipePro[®] See literature ED/5.8

Designed for the transmission pipeline welder - the Big Blue 400 PipePro 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.





COMPATIBLE



Standard on all models. Remote control of the power source without a control cord. See page 76 for more information.

Dynamic DIG[™] technology automatically adjusts the DYNAMIC amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored 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.

10,000 watts of pure generator power. Plug in an extra Miller® inverter-based power source for an additional welding arc!

Compact size and weight optimizes truck space.

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

Quiet operation. Only 72.1 decibels (97 Lwa) under full load. Improves jobsite communication and safety.

Standard features include ArcReach technology, 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.

^{co}cv D/C Heavy industrial

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) ¹With wire feeder

²With ArcReach Smart Feeder.

Diesel engines

EPA Tier 4 Final choices

Caterpillar C1.5T: 24.7 hp at 1,800 rpm Turbo-charged, three-cylinder, industrial, liquid-cooled

Mitsubishi S4L2: 24.7 hp at 1,800 rpm Four-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase[®] Feeders (pg 18/46)
- ArcReach[®] Smart Feeder (pg 18/46)
- ArcReach[®] Stick/TIG Remote (pg 46)
- Dynasty[®] 210 Series (pg 54)
- Full KVA Adapter Cord 300517 (pg 116)
- Single-Phase Full KVA Plug Kit 119172 (pg 116)
- Protective Cover 195301 (pg 116)
- HWY-Mid Frame Trailer (pg 117)
- Wireless Remote Hand Control / Wireless Antenna Kit

300430/300749 (pg 121) Visit MillerWelds.com or vour distributor for other Miller® options and accessories.

ē	Stock Number (907778) CAT	Welding Mode	Welding Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Single-Phase Generator Power at 104°F (40°C)	Dimensions	Net Weight
	907778001) CAT w/stainless steel 907703001) Mitsubishi	CC/DC	Stick/TIG	20-400 A	300 A at 32 V, 100% duty cycle 350 A at 27 V, 100% duty cycle	Peak: 12,000 watts Continuous: 10.000 watts	H: 32 in. (813 mm) W: 26.25 in. (667 mm)	CAT: 1,038 lb. (471 kg) Mitsubishi: 993 lb. (450 kg)
	(907703) Mitsubishi w/stainless steel	CV/DC	MIG/FCAW	14-40 V	400 A at 24 V, 100% duty cycle	Continuous. 10,000 watts	D: 56 in. (1,422 mm)	Mitsubisiii. 993 lb. (450 kg)

Big Blue[®] 450 Duo CST[™] see literature ED/5.5

Durable dual-operator welder/generator delivers proven CST 280 stick/TIG performance for maximum productivity and efficiency. Two separate outputs powered by one low-speed diesel engine delivers up to 280 amps of output per operator.



Two superior arcs in one compact package. See CST 280 (page 50) for additional details.

Quiet operation. At 72.1 decibels (97 Lwa) under full load, it's quieter than most single-operator models. Improves jobsite communication and safety.

Vandalism lockout kit (not shown). Lockable hinged steel panel protects front control and ignition switch.

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

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

Remote amperage control permits the use of standard and wireless amperage control devices.

Increased efficiency. More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dualoperator 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, industrial, liquid-cooled Note: Engine is warranted separately by engine manufacturer.

Most popular accessories

- Full KVA Adapter Cord 300517 (pg 116)
- Single-Phase Full KVA Plug Kit 119172 (pg 116)
- Protective Cover 195301 (pg 116)
- HWY-Mid Frame Trailer 301438 (pg 117)
- Wireless Remote Hand Control/ Wireless Antenna Kit 300430/300749 (pg 121)
- Spark Arrestor Kit 195012

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

_	Stock Number	Process	Output Mode	Amperage Range	Rated Output at 122°F (50°C)	Single-Phase Generator Power at 122°F (50	°C) Dimensions	Net Weight
Diese	(907477) Mitsubishi	DC stick/TIG	Separate (dual outputs)	5-225 (each side) 5-280 (one side only)	175 A at 27 V, 100% duty cycle	Continuous: 10,000 watts	H: 32 in. (813 mm) W: 26.25 in. (667 mm)	1,064 lb. (483 kg)
			Paralleled (combined)	10-450	350 A at 27 V, 100% duty cycle		D: 56 in. (1,422 mm)	

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 on construction and fabrication sites.



Big Blue 500 and 600 Pro

Big Blue

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[™] technology automatically adjusts the amount of current required to clear a short. Delivers a smoother,

more consistent arc that can be tailored 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 pure generator power. Plug in extra Miller® inverter-based power sources for additional welding arcs!

WIRFLESS

COMPATIBLE

ArcReach

Standard on all Deluxe and

control of the power source

without a control cord. See

page 76 for more information.

See page 121.

Wireless antenna kit

(300749) recommended.

Air Pak[™] models. Remote

Standard 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, a polarity reversing switch and a 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
 Air carbon arc cutting and gouging (CAC-A) (500: rated 5/16 in. carbons; 600: rated 3/8 in. carbons)

¹With wire feeder.

²ArcReach 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, industrial,

liquid-cooled 600 Air Pak: Deutz TD2.9 L4

65.7 hp at 1,800 rpm Turbo-charged, four-cylinder, industrial, liquid-cooled Note: Engines are warranted separately by engine manufacturer.

Most popular accessories

- SuitCase[®] Feeders (pg 18/46)
 ArcReach[®] Smart Feeder (pg 18/46)
- (for ArcReach models only)
 ArcReach[®] Stick/TIG Remote (pg 46)
 (for ArcReach models only)
- Dynasty 210[®] Series (pg 54)
- Full KVA Adapter Cord (pg 116)
- Full KVA Plug Kit (pg 116)
- Protective Cover (pg 116) 301495 Kubota 301113 Deutz
- HWY-225 Trailer 301338 (pg 117)
 Wireless Remote Hand Control/ Wireless Antenna Kit
- 300430/300749 (pg 121) • Desiccant Air Dry System (for Air Pak model only) 195117 Side mount

195117 Side induit 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
 Visit MillerWelds.com or your distributor
- for other Miller® options and accessories.

*Big Blue 600 Series has welder truck specific models available - visit MillerWelds.com or your distributor.

	Model/Stock Number		Welding Mode/Process	Amp/Volt Ranges	Rated Out	put at 104°F (40°C)	Generato 104°F (4	r Power at !0°C)	Dimensions		Net Weight
	Big Blue 500 Pro (907736) Kubota (907736001) Kubota Deluxe model		CC/DC (Stick/TIG)	20-500 A	450 A at 3	36 V, 100% duty cycle 38 V, 100% duty cycle 40 V, 100% duty cycle		ase ,000 watts us: 20,000 watts	H: 46 in. (1, W: 28.5 in. (D: 69.5 in. (724 mm)	1,750 lb. (794 kg)
			CV/DC (MIG/FCAW)	14-50 V			Single-phase Peak: 15,000 watts Continuous: 12,000 watts		, , , , , , , , , , , , , , , , , , ,		
Diesel	Big Blue 600 Pro (907737) Kubota (907737001) Kubota Deluxe model Big Blue 600 Air Pak (907750) Deutz		CC/DC (Stick/TIG)	20-600 A	550 A at 4	40 V, 100% duty cycle 42 V, 60% duty cycle 42 V, 40% duty cycle		,000 watts us: 20,000 watts	H: 46 in. (1, W: 28.5 in. (D: 69.5 in. (724 mm)	600 Pro: 1,750 lb. (794 kg) 600 Air Pak: 2,040 lb. (925 kg)
			CV/DC (MIG/FCAW)	14-50 V	575 A at 4	ak: 40 V, 100% duty cycle 43 V, 100% duty cycle 14 V, 60% duty cycle	Peak: 15,000 watts Continuous: 12,000 watts				
	Ingersoll Rand CE55 G1	Features	3	I	1	Free Air Delivery	I	Working Pressure Co	nstant	Duty Cycle	Oil Capacity
	(Air Dok model only)		screw with electric clutch for on/off, oil change s 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)



DYN

AMIC



Engine-Driven H

Heavy industrial

Stick (SMAW) = MIG (GMAW)¹

RMD^{®2} = Pulsed MIG (GMAW-P)² Air carbon arc cutting and gouging

(CAC-A) (rated 1/2 in. carbons)

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

Note: Engines are warranted separately

Most popular accessories SuitCase[®] Feeders (pg 18/46) ArcReach[®] Smart Feeder (pg 18/46) ArcReach[®] Stick/TIG Remote (pg 46)

Dynasty 210[®] Series (pg 54)

 Full KVA Plug Kit (pg 116) 119172 Single-phase 254140 Three-phase

- Full KVA Adapter Cord 300517

Flux-cored (FCAW)¹ = DC TIG (GTAW)

Processes

Stud (1/2 in.) ¹With wire feeder. ²With ArcReach Smart Feeder. **Diesel engine EPA Tier 4 Final**

liquid-cooled

(pg 116)

by engine manufacturer.

^{ce}cv DC

Big Blue[®] 800 Series See literature ED/14.0

The most powerful lineup of diesel welder/generators in the industry. All offer robust output for welding and power generation, and are ideal for dual-operator applications on labor intensive jobsites or jobsites with limited space.



800 Duo Pro

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 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.

Big Blue 800 Duo Air Pak

Dynamic DIG[™] technology automatically DYNAMIC adjusts the amount of current required to clear a short. Delivers a smoother,

more consistent arc that can be tailored to match the application, material, fit-up and welder technique.

WIRELESS

COMPATIBLE

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 pure generator power. Plug in extra Miller® inverter-based power sources for additional welding arcs!

Standard features include ArcReach technology, 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.



ArcReach

Standard on all models.

Remote control of the power

source without a control cord.

See page 76 for more information.

See page 121.

Wireless antenna kit

(300749) recommended.



 Wireless Remote Hand Control / Wireless Antenna Kit 300430/300749 (pg 121) Desiccant Air Dry System (Air Pak model only)

Protective Cover 301113 (pg 116)

HWY-225 Trailer 301338 (pg 117)

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

* Pix Plue 200 Puz Air Pak has walder truck apacific medale available wisit Miller Malda aam ar va

*Big I	Blue 800 Duo Air Pak has welder	truck specific model	s available – visit MillerWeld	s.com or your	distributor.			
	Model/Stock Number*	Welding Mode/Process	Output Mode	Amp/Volt Ranges	Rated Output at 100% Duty Cycle at 104°F (40°C)	Generator Power at 104°F (40°C)	Dimensions	Net Weight
	Big Blue 800 Duo Pro (907751) Deutz	CC/DC (Stick/TIC)	Separate (dual outputs)	20-400 A	400 A at 36 V (each side)	Three-phase	H: 46 in.	Duo Pro:
Rig Rhue	Big Blue 800 Duo Air Pak	(Stick/TIG)	Paralleled (combined)	40-800 A	700 A at 44 V, 800 A at 38 V	Peak: 27,000 watts Continuous: 20,000 watts	(1,168 mm) W: 28.5 in.	1,869 lb. (848 kg) Duo Air Pak:
Diesel	(907752) Deutz	CV/DC	Separate (dual outputs)	14-50 V	400 A at 34 V (each side)	Single-phase Peak: 15.000 watts	(724 mm) D: 69.5 in.	2,095 lb. (968 kg)
		(MIG/FCAW)	Paralleled (combined)	14-50 V	750 A at 40 V, 800 A at 38 V	Continuous: 12,000 watts	(1,765 mm)	
	Ingersoll Rand CE55 G1	Features			Free Air Delivery	Working Pressure Constant	t Duty Cycle	Oil Capacity
	Air Compressor (Air Pak model only)	Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours			ldle: 40 cfm (1.13 m ³ /min.) Weld: 60 cfm (1.70 m ³ /min.)	100 psig (7 bar)	100%	4 qt. (3.79 L)

Submerged Arc

For more detailed information, visit MillerWelds.com/subarc

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.



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.

write tutting.						
Model/Stock Number	Amperage Range (CC Mode)	Voltage Range (Sub Arc Mode)	Rated Output	it at Rated Output, 60 Hz Max Open- 0 V 575 V KVA KW Circuit Volta	ge Dimensions (Includes lift eye, but not strain relief) Net W	/eight
SubArc DC 650 Digital (907622) 230/460/575 V	50-815 A	20-44 V	650 A at 44 V, 100% duty cycle	50.4 50 34.8 75 Vpk * 1.4* 1.52* 0.76*	H: 30 in. (762 mm) 593 lb W: 23 in. (584 mm) (269 lb	
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	72 73 53 68 Vpk * 2.4* 3.2* 0.5*	D: 38 in. (965 mm) 682 lb (309 l	
SubArc AC/DC Digital (907620) 460 V	300-1,250 A	20-44 V	1,000 A at 44 V, 100% duty cycle	2 – 98 53 93 Vpk * – 2.37* 0.95*	H: 43 in. (1,092 mm) 1,187 W: 28 in. (711 mm) (538 H D: 48 in. (1,219 mm)	



Processes

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

Most popular accessories

- 14-pin Insight Core[™] Module 301072 (pg 68)
 Requires Insight Core to SubArc Digital Series Adapter Kit (301295)
- Insight ArcAgent[™] Auto 301346 (pg 69)
- 15 ft. (4.6 m) SubArc Parallel Cable 260775015 (pg 119)
- 15 ft. (4.6 m) SubArc Tandem Cable 260878015 (pg 119)

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

Submerged Arc

SubArc Interface Control see

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 119)
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
SubArc Interface Digital (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

CHOBAR



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 119 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 119 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)





Customers count on Hobart[®] to provide an exceptional level of expertise and commitment in developing unique filler metal and flux solutions with them to meet current and future challenges.

Rely on Hobart for submerged arc applications and all your welding needs.

Visit HobartBrothers.com or your local distributor to learn more.

Questions? Hobart is here to help.

SubArc	Wire	Drive	400	Digital Low Voltage
---------------	------	-------	------------	----------------------------



SubArc Wire Drive 400 Digital Low Voltage is a standard-speed, right-angle wire drive assembly.

Most popular accessories
 Motor Extension Cables (pg 119)

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 119)

 Single-Wire Straightener 199733 (pg 119)

• Twin-Wire Straightener 301160 (for twin-wire torches only) (pg 119)

Manual Single Slide (pg 119)
 Visit MillerWelds.com or your distributor

for other Miller[®] options and accessories.

Most popular 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

Visit MillerWelds.com or your distributor

for other Miller® options and accessories.

043981 (pg 119)

Contact Tips (pg 119)

(pg 119)

Stock Number	Input Power	Input Power Cord	Rating	Wire Feed Speed	Wire Diameter	Capacity	Net Weight
(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 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.

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 (301144) Long	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 See literature AD/7.3



Improved flux delivery system. Our SubArc Flux Hopper Digital Low Voltage utilizes a flux valve mechanism that assures 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-hoppermounted recovery system.

Includes slag screen to capture fused slag particles from entering the flux hopper.

Most popular accessories

 Flux Hopper Extension Cables (pg 119)
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

 SubArc Flux Hopper Digital Low Voltage (300942)
 12 VDC (PWM signal from SubArc Interface)
 11 ft. (3.3 m)
 25 lb. (11 kg)
 11 lb. (5 kg)

Submerged Arc

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 new 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.

Packages include

- 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 82)
- Most popular accessories
- SubArc Control Cables (pg 119)
- Contact Tips (pg 119)
- Drive Rolls (pg 119)

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

Stock Number	Input Power from Welding Power Source	Wire Feed Speed	Wire Diameter Capacity	Gun Positioning Slides	Drive Motor	Travel Speed	Dimensions	Net Weight
(951755)	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 System

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.

- 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 68) Requires Insight Core to SubArc Digital Series Adapter Kit (301295)
- Insight ArcAgent[™] Auto 301346 (pg 69)
- Contact Tips (pg 119)
- Drive Rolls (pg 119)

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

Stock Number (951675) w/SubArc DC 650 Digital	Supply Voltage	Column Stroke	Column Travel	Boom Stroke	Boom Travel	Base Rotation	Minimum Working Height	Maximum Working Height
(951676) w/SubArc DC 1000 Digital (see page 82 for power source specs)	120 V, 1-phase, 60 Hz (see page 82 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)

Overal

Height

102 in.

(2,590 mm)

Induction Heating



ProHeat[®] Induction Heating

Induction heating is a simple and cost-effective heating process that can deliver fast and consistent heat. Applications that would typically require hours to heat can be done in minutes.

- Welding fabrication and construction
- Preheating of welds
- Post-weld heat treatment (PWHT)
- Hydrogen bake out
- Shrink fit applications



Induction heating solves many key issues in today's environment.

- Does not produce the exposure to burns associated with open flames and electrical resistance wires (only the work part becomes hot)
- No significant expense of fuel gases
- Produces less particulate from overheated insulation caused by high-temperature electrical wires and ceramic pads

Induction heating applications:

- Process pipingPressure vessels
- RefineryPetrochemicalStructuralShipbuilding
- al Power piping
 - g Pipeline



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 heat systems solve preheating, post weld heat treatment (PWHT) and stress relieving problems.

Liquid-Cooled Cables See literature IN/15.0

Preheat applications up to 1,450 degrees Fahrenheit (788°C).

- A highly versatile tool for preheating, stress relieving, hydrogen bake out, 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
- Enables the benefits of rolled pipe welding while also addressing some of the concerns associated with other popular heating methods, such as open flame and resistance heating
- Optional infrared temperature sensor can read the temperature on the moving part – from 212 to 750 degrees Fahrenheit (100-400°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 (20–152 cm) or in the case of plate, the lengths are 41–205 inches (1–5.2 m)
- 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 392 degrees Fahrenheit (200°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









Engineered for Simplicity. Built for Durability.

Your welders select the Bernard gun handles, triggers and necks that are **the most comfortable and effective** for accessing their welds.

Management enjoys the resulting increase in productivity, longer gun life, and a reduced parts inventory with consumables designed to work across all of your welding guns.

For more information see pages 25–26, or contact your local welding distributor or Bernard directly.



BernardWelds.com



Maximizing throughput. Minimizing costs.

Automated welding applications require flexible, repeatable solutions that **maximize production uptime and throughput while minimizing costs**. This is why industrial manufacturers rely on Tregaskiss and its proven track record of delivering **reliable and resilient robotic MIG welding guns and peripherals**. See pages 34–35 for more information.



1-855-MIGWELD (644-9353)



Visit **Tregaskiss.com** to configure a robotic gun for your welding application today. <u>Or call **1-855-MIGWELD** (644-9353) for more information.</u>



Plasma Cutters





Product			200	700		Rate	d Cutting Th	nickness*	Max. Sever			
Guide	Page	Class	Gouging	Piercing	Rated Output/ Duty Cycle	Mild Steel	Stainless Steel	Aluminum	Thickness Mild Steel	Special Features	Typical Applications	
Spectrum [®] 375 X-TREME [™]	90			•	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, hobbyist, auto restoration, fabrication	
Spectrum® 625 X-TREME™	90	•	•	•	40 A at 60%	5/8 in.	1/2 in.	3/8 in.	7/8 in.	Auto-Line ^{m} (120-240 V), MVP ^{m} adapters, Auto-Refire, ^{m} automatic air regulation, only 21 lb., XT40 torch	Maintenance, light construction, body shops, prototyping	1-Phase
Spectrum® 875	90	•	•	•	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™	90			•	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 Generator 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 160 and Blue Star® 185	6,200 watts	3/8 in. / 30 A	Not recommended	Not recommended	Cu
Bobcat [™] 200 Air Pak [™]	5,500 watts	3/8 in. / 30 A	Not recommended	Not recommended	uttin
Bobcat [™] 225, 250, 3 Phase	9,500 watts	3/8 in. / 30 A	5/8 in. / 40 A	1/2 in. / 45 A	00. ≤
Trailblazer [®] Series	10,500 watts	3/8 in. / 30 A	5/8 in. / 40 A	1/2 in. / 45 A	
Big Blue [®] 400 Pro, 400 PipePro [®] and 450 Duo CST [™]	10,000 watts	3/8 in. / 30 A	5/8 in. / 40 A	1/2 in. / 45 A	Engine
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	Drive

*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:
Class: Capability: O Designed for this process O 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.

🔁 Plasma Cutting

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 Features



Steel/Stainless/Aluminum Rated Cutting Capacity



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 and increases productivity by reducing nuisance circuit breaker trips.

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 optimum 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^w **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 118).

X-TR	beetrum 375 EME hand-held package shown.				Spectrum 875 Auto-Line long body machine torch package shown.
	Hand-Held Torch Pa	ackages		Long Body Machine	Torch Packages
Model	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)

Plasma Cutting 🔊

Spectrum[®] 375 X-TREME[™]/625 X-TREME[™] See literature PC/9.2 (375 X-TREME) and PC/9.6 (625 X-TREME)

Allows for any input voltage hookup (120–240 V, single-phase, 50/60 Hz for 375 X-TREME and 60 Hz for 625 X-TREME) with no manual linking,

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

providing convenience in any job setting.

Multi-voltage plug (MVP[™]) on 375 X-TREME or MVP[™] adapter on 625 X-TREME allows connection to 120- or 240-volt receptacles without tools.

Automatic gouging consumable detection (625 X-TREME only). Detects gouging consumable and adjusts gas pressure to optimize performance, eliminating the need for a manual regulator.



375 X-TREME model includes XT30 hand-held torch with ergonomic design and flexible cable.

625 X-TREME model includes Ultra-Quick Connect[™] XT40 hand-held torch with ergonomic design and flexible cable.

Spectrum® 875/875 Auto-Line™ See literature PC/9.8

AUTO-LINE 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 118).



Includes Ultra-Quick Connect[™] XT60 hand-held torch with ergonomic design and flexible cable or XT60M long body machine torch.

Model	Input Power	Rated Output at 104°F (40°C)	Amps Input at Rated Output	KVA	кw	Compressor Requirement	Dimensions	Net Weight with Torch
Spectrum 375	Single-	120 V (15 A): 20 A at 88 VDC, 60% duty cycle	18.3	2.1	2.1	5.0 cfm	H: 9 in. (229 mm)	12 ft. torch:
X-TREME 120-240 V.	phase	120 V (20 A): 27 A at 92 VDC, 35% duty cycle	26.1	3.1	3.1	(142 L/min.) at 90 psi	W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	19 lb. (8.6 kg)
50/60 Hz		240 V: 30 A at 92 VDC, 40% duty cycle	14.7	3.5	3.4	(621 kPa)		
Spectrum 625	Single-	120 V (15 A): 20 A at 88 VDC, 60% duty cycle	17.7	2.1	2.1	6.0 cfm	H: 9 in. (229 mm)	12 ft. torch:
X-TREME 120-240 V, 60 Hz	phase	120 V (20 A): 27 A at 91 VDC, 35% duty cycle	25.0	3.0	3.0	(170 L/min.) at 90 psi	W: 5.5 in. (140 mm) D: 13.25 in.(337 mm)	21 lb. (9.5 kg 20 ft. torch:
		240 V: 40 A at 140 VDC, 60% duty cycle	27.6	6.6	6.5	(621 kPa)	D. 10.20 III.(001 IIIII)	23 lb. (10.5 k
Spectrum 875 208/230 V, 50/60 Hz	Single- 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 k 25 ft. torch: 51 lb. (23.1 k 50 ft. torch: 58 lb. (26.3 k
Spectrum 875 Auto-Line 208-575 V, 50/60 Hz	Three- 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 k 25 ft. torch: 56 lb. (25.4 k 50 ft. torch:
	Single- 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			63 lb. (28.6 k

Light industrial • 375/625 models Industrial • 875 models



- 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 118)
- Cables and Cable Covers (pg 118)
- Cutting Guides (pg 118)
 Filters (pg 118)
- Plugs and Cords (pg 118)
- X-CASE (pg 118)
- Torches (pg 118)
- Torch Consumables (pg 118)

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

Gas Equipment

For more detailed information, visit 4 MillerWelds.com/gasequipment

Miller offers an extensive line of quality regulators, cutting torches, tips and a variety of accessories for your oxy-fuel cutting and welding requirements.

Regulators



Also available Series 30 single-stage regulator

twin packs

aller to	fl tl
Series 30	r

Heavy-duty and medium-duty single-stage pressure regulators

Our Series 40[™] and Series 30[™] industrial-grade pressure regulators provide accurate pressure readings for welding, cutting, heating and other applications. Extremely durable construction and simplified design provide consistent gas low and longer trouble-free operation. Covered by a three-year warranty. See page 94 for optional Hard Hat™ regulator guards designed to help prevent broken gauges.

Stock Number	Gas	Regulator	Max. Delivery Pressure or Flow	Inlet Connection
HTP2	Oxygen	30-100-540	100 psig (7 bar)	CGA 540
HTP5	LP of Acetylene	30-15-510 30-100-540	15 psig (1 bar)	CGA 510 CGA 540
пігэ	Oxygen Acetylene	30-100-540 30-15-300	100 psig (7 bar) 15 psig (1 bar)	CGA 340 CGA 300



Heavy-duty single-stage station regulators

Our Series 46[™] brass line regulators are rugged, accurate and corrosion-resistant. Station regulators are used to connect pipeline gas delivery systems to the welding stations. Because the pipeline pressure is regulated upstream, station regulators only require a single delivery pressure gauge. Covered by a three-year warranty.

*In the chart below, oxygen "C" size inlet connection CGA 024 (7/8"-14 RH) fits station valve Rego. No. 7160. Fuel gases "C" size inlet connection CGA 025 (7/8"-14 LH) fits station valve Rego. No. 7161. Note: Body inlet is 1/4-inch (6 mm) NPT.



Two-stage regulators

Series 30 two-stage regulators drop cylinder pressure to working pressure in two stages for consistent and accurate outlet pressure and flow regardless of inlet pressure. Recommended where outlet pressure and flow must be maintained without variation. Covered by a three-year warranty.



Model	Stock Number	Gas	Max. Delivery Pressure	Max. Inlet Pressure	Outlet Connection	Inlet Connection
Heavy-Duty Series 40	40-175-540 Single-stage	Oxygen	175 psig (12 bar)	3,000 psig (207 bar)	9/16"-18 RH	CGA 540
Single-Stage	40-275-540 Single-stage	Oxygen	275 psig (19 bar)	3,000 psig (207 bar)	9/16"-18 RH	CGA 540
Pressure Regulators	40-15-510 Single-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 510
	40-15-300 Single-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 300
	40-50-510 Single-stage	LP gas	50 psig (3 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 510
	40-275-580 Single-stage	Inert gas	275 psig (19 bar)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
Medium-Duty Series 30	30-100-540 Single-stage	Oxygen	100 psig (7 bar)	3,000 psig (207 bar)	9/16"-18 RH	CGA 540
Single-Stage	30-20-540 Single-stage	Oxygen	20 psig (1.4 bar)	3,000 psig (207 bar)	9/16"-18 RH	CGA 540
Pressure Regulators	30-15-510 Single-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 510
	30-15-300 Single-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 300
	30-15-520 Single-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 520
	30-15-200 Single-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 200
	30-50-510 Single-stage	LP gas	50 psig (3 bar)	400 psig (28 bar)	9/16"-18 LH	CGA 510
	30-150-580 Single-stage	Inert gas	150 psig (10 bar)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
	30-150-320 Single-stage	CO ₂	150 psig (10 bar)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 320
	30-100-350 Single-stage	Hydrogen/methane	100 psig (7 bar)	3,000 psig (207 bar)	9/16"-18 LH	CGA 350
Heavy-Duty Series 46	46-175 Single-stage	Oxygen	175 psig (12 bar)	200 psig (14 bar)	9/16"-18 RH "B"	CGA 024*
Station Regulators	46-15 Single-stage	Acetylene	15 psig (1 bar)	200 psig (14 bar)	9/16"-18 LH "B"	CGA 025*
	46-50 Single-stage	LP gas	50 psig (3 bar)	200 psig (14 bar)	9/16"-18 LH "B"	CGA 025*
Series 30	35-125-540 Two-stage	Oxygen	125 psig (9 bar)	3,000 psig (207 bar)	9/16"-18 RH "B"	CGA 540
Two-Stage Regulators	35-15-510 Two-stage	Acetylene	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH "B"	CGA 510
	35-50-580 Two-stage	Inert gas	50 psig (3 bar)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580

Gas Equipment 🕉-

Regulators



Heavy-duty flowmeter regulators and flowmeters

Our heavy-duty flowmeter regulators and flowmeters feature an exclusive self-centering ball guide which provides accurate readings even if tipped. This ensures optimum weld quality and gas savings. Others use a non-self-centering flow tube ball that tends to float off center causing actual gas flow to be up to two times greater than indicated. Covered by a three-year warranty.



Economy flowmeter regulators and flowmeters

Our economy flowmeter regulators and flowmeters combine exceptional value and a compact design with precise shielding gas regulation for MIG and TIG welding applications and more. Covered by a three-year warranty.



Single-stage flow gauge regulators

Series 30[™] single-stage flow gauge regulators are compact and feature a forged brass body and a self-resetting pressure relief valve. They include a Sure Seat[™] protective inlet filter and a durable neoprene-composite diaphragm. Covered by a three-year warranty.



Heavy-duty model features

- Rugged aluminum protective housing Protects flow tubes from damage while offering unobstructed view of flow reading.
- 2 Extra-long flow tube Expanded scales are easy to read and accurate within five percent of full reading. Can be attached to regulators or pipeline installations.
- Shatter-resistant multi-scale flow tube Made of shatter-resistant polycarbonate resin and features easy-to-read scales for CO₂, argon, argon/CO₂ mix and helium.
- 4 Auto-reset pressure-relief valve Protects regulator from damage due to high-pressure surge. Relief valve will release excessive pressure and automatically reset.
- 5 Sure Seat[®] dual-filtered seat assembly Protects high-pressure seat from debris for reliable operation and long service life.

Economy model features

6 Built-in rupture disc

Reduces possibility of flow tube damage due to high-pressure surge. Must be replaced if ruptured – not auto-resetting.

- 7 Shatter-resistant triple-scale flow tube Made of shatter-resistant polycarbonate resin and can be rotated to position desired scale for easy reading. Scaled for CO₂, argon and argon/CO₂ mix, and helium.
- 8 Precision flow-adjustment valve Allows easy adjustment to desired setting.

Model	Stock Number	Gas	Flow Range	Max. Inlet Pressure	Outlet Connection	Inlet Connection
Heavy-Duty	22-80-580 Single-stage	Argon/CO ₂	10-80 scfh (5-38 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
Flowmeter Regulators	22-80-320 Single-stage	CO ₂	10-80 scfh (5-38 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 320
	22-30-580 Single-stage	Argon/CO ₂	10-55 scfh (5-26 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
	22-30-580-6 Single-stage w/gas hose	Helium	10-160 scfh (5-76 lpm)	3,000 psig (207 bar)		
	35-30-320 Two-stage high-flow CO ₂	CO ₂	10-55 scfh (5-26 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 320
Heavy-Duty Flowmeters	16530 Argon, CO ₂	Argon, CO ₂	10-80 scfh (5-38 lpm)	80 psig (6 bar) recommended	5/8"-18 RH internal	1/4" NPT female
	16531 Argon, CO ₂ , helium	Argon, CO ₂ , helium	Depends on gas	30 psig (2 bar) recommended		
Economy	H2051B-580 Single-stage	Argon	0-60 scfh (0-28 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
Flowmeter Regulators	H2051B-580H Single-stage w/gas hose	CO ₂	0-50 scfh (0-24 lpm)	3,000 psig (207 bar)		
	23-50-580 Single-stage dual flowmeter regulator	Helium	0-160 scfh (0-78 lpm)	3,000 psig (207 bar)		
Economy Flowmeters	H2230A Multi-scale	Argon, helium, CO ₂	Depends on gas	50 psig (3 bar) recommended	5/8"-18 RH internal	1/4" NPT male
	H2231A Multi-scale					5/8"-18 RH external
Heavy-Duty Series 30 Flow Gauge Regulators	31-50-580 Single-stage 31-50-580-6 Single-stage w/gas hose	Argon	0-50 scfh (0-24 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
	31-50-320 Single-stage	CO ₂	0-50 scfh (0-24 lpm)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 320

🔉 - Gas Equipment

Regulators



HVAC/refrigeration purge/leak test regulator

Our single-stage nitrogen regulator is specially designed to meet the specifications of HVAC refrigerant purging applications. This regulator is used with nitrogen to test HVAC systems to locate leaks and to purge an area for installation and repair. It is economical, accurate and its compact size is useful where space is limited. Covered by a one-year warranty.

• 2-inch (51 mm) gauges with shatter-resistant lenses and solid brass body for durability Large durable nylon knob for easy pressure adjustment

Stock Number	Gas Max. Delivery Pressure		Max. Inlet Pressure	Outlet Connection	Inlet Connection
30-450-580	Nitrogen	450 psig (31 bar)	3,000 psig (207 bar)	7/16"-20 external flair fitting	CGA 580

Heavy-duty high-pressure regulator

820 Series regulators are for use on cylinders with a wide variety of non-corrosive inert gases. Typical applications include high-pressure testing, purging/charging, calibration kits, airline charging carts, chemical plants, manufacturing processes, research/development and laboratories. Covered by a two-year warranty.

- Piston-sensor design gives structural reliability in high-pressure use
- Low-torque-control adjusting screw for easy pressure adjustments in closed/dead end systems
- Due to specific configurations, we cannot accept returns of 820 Series regulators

Model Series	Max. Delivery Pressure	Max. Inlet Pressure	Option 1 • Outlet pressure	Model Configuration	 Option 3 Inlet connection (add connections available)/Max. inl 	
823	500 psig	6,000 psig	823 0-500 psig		00 1/4" FNPT	
824	1,000 psig		824 0-1,000 psig	Option 2 Outlet connection	08 CGA 540 (oxygen)	3,000 psig
825	2,000 psig		825 0-2,000 psig	00 1/4" FNPT	09 CGA 580 (inert)	3,000 psig
	, 18			1	26 CGA 347 stainless steel	5,500 psig
826	4,000 psig		826 0-4,000 psig	66 Stainless steel needle valve	27 CGA 677 stainless steel	7,500 psig
827	6,000 psig		827 0-6,000 psig	with 1/4" NPT	28 CGA 680 stainless steel	5,500 psig



16391 (without

pressure switch)

Rear-entry liquid cylinder regulator

250 Series regulators are ideal for non-corrosive high-purity applications and have a rear-entry connection that provides clearance of the liquid cylinder ring for easier gauge reading. Covered by a two-year warranty.

- Easy-to-read single-scale 2.5-inch (64 mm) gauge with shatter-resistant lens
- Nickel-plated brass body for corrosion resistance
- Large 1.875-inch stainless steel diaphragm for precise control of pressure
- Large durable nylon knob for easy pressure adjustment

Due to specific configurations, we cannot accept returns of 250 Series regulators

Note: Use Series 40th heavy-duty regulators constructed with a stainless steel diaphragm for high-volume or liquid (cryogenic) cylinder applications.

Model Series	Max. Delivery Pressure	Max. Inlet Pressure	Option 1	Model Configuration	• Option 3 Inlet connection
252	100 psig	3,500 psig	252 0-100 psig	Option 2 Outlet connection	00 1/4" FNPT
254	200 psig		254 0-200 psig	00 1/4" FNPT	02 CGA 320
255	350 psig		255 0-350 psig	20 Chrome needle valve with 1/4" NPT	08 CGA 540
256	500 psig		256 0-500 psig	82 9/16"-18 RH "B"	09 CGA 580



These preset regulators are specially designed to deliver a highly accurate and consistent 0.50 psig supply of nitrogen to the head space of oil-filled power transformers. Available with or without electronic pressure switch. Covered by a one-year warranty.

- Built-in self-relieving valve set at 8 psig protects the system from over-pressurization due to temperature variation
- Rapid-fill bypass pressure valve allows rapid filling of the transformer with 6 psig of pressure pressure switch)

Note: Operation temperature: -40° to +180° Fahrenheit. Operation voltage (model 16347-3): 5 amps at 12/24 volts DC or 125 volts AC. 3 amps at 250 volts. Pressure switch setting: Adjustable from 70-300 psig (ships preset at 250 psig), 3/32-inch Allen head screw switch. Switch wiring: Normally open or normally closed (DPDT), three 18-inch flying leads.

16347-3 (with

Stock Number	Preset Outlet P 1st Stage	ressure 2nd Stage	3rd Stage (delivery pressure)	Bypass Rapid Fill/Purge	Max. Inlet Pressure	Outlet Connection	Inlet Connection
16391 without pressure switch 16347-3 with pressure switch	150 psig (10 bar) into 2nd stage	8 psig (0.6 bar) into 3rd stage	0.4-0.6 psig (0.03-0.04 bar) into outlet	6 psig (0.4 bar)	3,000 psig (207 bar)	1/2" FNPT	CGA 580



Flow

Data can be obtained at

- WDW103 Propane or natural gas
- (less than 4 psi) WDW104 Propane or natural
 - gas/oxygen
 - (4 psi and above)
- For repetitious brazing and soldering
- Hang torch to shut off
- Pilot light for relighting
- Eliminates flame readjustment



Fixed-Flow Adapters and Surge Protectors H1400 Series fixed-flow adapters

are for welding operations requiring fixed-flow gases. 15001 Series surge protectors are for MIG welding applications to eliminate sudden surges of shielding gas in the wire feeder. Visit MillerWelds.com for more information.

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

Gas Equipment 🕉-







Cutting torches (acetylene, natural gas, LP or propylene-based fuels)

Gas Axe[™] extra-heavy-duty cutting torches are ideal for scrap and salvage.

- Covered by a one-year warranty
- Reversible (top or bottom) mount cutting lever
- Available in four lengths and three different head angles
 Uses our exclusive long-lasting Graf-Tite[®] soft-seat cutting
- tips with in-tip gas mixing for added resistance to flashbacks • Cuts up to 20 inches (508 mm) with LP and up to
- 12 inches (305 mm) with acetylene or propylene

Heavy-duty cutting torches feature solid construction and ease of operation for industries such as construction, fabrication, shipyards and salvage.

- Covered by a five-year warranty
- Nickel-plated finish for added corrosion resistance and to reflect residual heat
- Reversible (top or bottom) mount cutting lever
- Available in three lengths and three different head angles
- Uses our exclusive long-lasting Graf-Tite[®] soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 12 inches (305 mm)

Combination torches (acetylene, natural gas, LP or propylene-based fuels)

Constructed to last a lifetime for safe performance under rugged conditions.

- Covered by a five-year warranty
- Heavy- and medium-duty torches feature a Flo-Trol valve to help prevent the accidental reverse flow of mixed gases and a spring-loaded back-pressure check valve designed to stop the most common cause of cutting valve seat burnout
- Ease-on cutting oxygen valve to reduce slag blowback when piercing
- Thick-wall brass head forgings resist warping and distortion
- Heavy- and medium-duty torches are available with 75- or 90-degree head angles
- Uses our exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Heavy-duty torches cut up to 8 inches (203 mm), medium-duty up to 6 inches (152 mm) and standard-duty up to 3 inches (76 mm)

Machine torches (acetylene, natural gas, LP or propylene-based fuels)

Superior performance with solid construction.

- Covered by a five-year warranty
- Torch barrels are adjustable to four positions at 90-degree increments and barrel diameters are 1-3/8 inches (9.5 mm) to fit most machines
- Rack pitch is 32-8 teeth per inch
- Uses our exclusive long-lasting Graf-Tite[®] soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- SC781A high-capacity three-hose torch cuts up to 12 inches (305 mm) with acetylene or propylene and 20 inches (508 mm) with LP or natural gas
- SC770 and SC772A two-hose torches cut up to 12 inches (305 mm) with acetylene, propylene, LP or natural gas

Torches							
Stock Number	Head Angle in Degrees	Length Inches (mm)					
Gas Axe I Cutting T	Extra Heavy-Du	ıty					
SC925	75	21 (533)					
SC929	90	21 (533)					
SC935	75	36 (914)					
SC939	90	36 (914)					
SC930 SC945	180 75	36 (914) 48 (1,219)					
SC949	90	48 (1,219)					
SC940	180	48 (1,219)					
SC965	75	72 (1,829)					
SC969 SC960	90 180	72 (1,829)					
		72 (1,829)					
	ty Cutting Tore						
SC175 SC179	75 90	17 (432) 17 (432)					
SC225	75	21 (533)					
SC225S	75	21 (533)					
SC229	90	21 (533)					
SC229S	90	21 (533)					
SC220 SC365	180 75	21 (533) 36 (914)					
SC369	90	36 (914)					
SC360	180	36 (914)					
Heavy-Du	ty Combinatio	n Torches					
SC205	75	12.5 (318)					
SC209	90	12.5 (318)					
WH200A	Handle	7.5 (191)					
Medium-	Duty Combinat						
MC505	75	11.25 (286)					
MC509 WH100	90 Handle	11.25 (286) 7 (178)					
		. ,					
AC309	-Duty Combina						
AU309 AW1A	90 Handle	8.5 (216) 5.75 (146)					
Machine	Torches						
SC781A	_	15.5 (394)					
SC772A	-	13.75 (349)					
SC770	-	8 (203)					
Most po	pular acces	sories					
9		16					
01.1.0							
		6229					
H753							



 Flashback Arrestor Set (oxy and fuel) H743 Torch mount H753 Regulator mount



- (see page 108 for more styles) 235661 Blue frame/shade 3 235657 Blue frame/shade 5
- Safety Gloves (pg 110)
 Visit MillerWelds.com or your distributor for other Miller® options and accessories.

Heavy-Duty Outfits









*Acetylene regulator has CGA 300 inlet fitting.

Combination torch outfits (acetylene or LP)

Oxy-fuel outfits include just about everything needed for your cutting, welding, brazing or heating project.

- Heavy-duty Series 40^w OR medium-duty Series 30^w regulators with a three-year warranty
- Heavy-duty torches with a five-year warranty
- Torch-mount flashback arrestors for added safety (acetylene outfits only)
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Both HBA-40510 and HBA-40300 outfits cut up to 1-1/4 inch (32 mm) with tip included, other outfits cut up to 5/8 inch (16 mm)
- All outfits cut up to 8 inches (203 mm) with optional tips

Combination torch and tip kits (acetylene or LP)

Combination kits are available with cutting, welding and heating tips **OR** with multiple cutting tips.

- Heavy-duty torches with a five-year warranty
- Torch-mount flashback arrestors for added safety
- Exclusive long-lasting Graf-Tite® soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- Cuts up to 5/8 inch (16 mm) with tip included
- Cuts up to 8 inches (203 mm) with optional tips

Cutting torch outfits (acetylene)

Hand cutting torch outfits are built for the toughest jobs.

- Corrosion-resistant regulators feature shatter-resistant
 polycarbonate gauge lenses
- 21-inch nickel-plated torch with a five-year warranty has reversible (top or bottom) mount cutting lever and an ease-on oxygen feature that reduces slag blowback when piercing
- Exclusive long-lasting Graf-Tite[®] soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks
- HBS outfits include heavy-duty Series 40[™] regulators with a three-year warranty and Hard Hat[™] gauge/regulator guards
- HBAS outfits include medium-duty Series 30[™] regulators with a three-year warranty, torch-mount flashback arrestors for added safety, plus hose, lighter, safety glasses and tip cleaner
- HBS outfits cut up to 1-1/4 inch (32 mm) with tip included, HBAS outfits cut up to 5/8 inch (16 mm)
- All outfits cut up to 12 inches (305 mm) with optional tips

Heavy-duty torch tips

ty torch tips					
Max. Metal Thickness Inches (mm)	Cutting Jet Drill Size				
Cutting					
3/16 (5) 3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102) 8 (203) 12 (305)	68 62 56 54 51 45 41 32				
latural Gas Cut	ting				
3/16 (5) 3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102) 8 (203) 12 (305) 14 (354) 18 (457) 20 (508)	68 62 56 54 51 45 41 32 28 17 3				
Cutting					
3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102) 8 (203) 12 (305)	62 56 54 51 45 41 32				
Gouging					
3/8 (10) wide, 2	1/4 (6) deep				
3/8 (10) wide, 1					
Gouging					
3/8 (10) wide, 2	1/4 (6) deep				
Welding					
1/32 in. (0.7 mm) 5/64 in. (1.9 mm) 1/8 in. (3 mm) 3/16 in. (5 mm) 3/8 in. (10 mm) 1/2 in. (13 mm)					
Heating					
40,000 Btu 72,000 Btu 125,000 Btu 195,000 Btu					
	Max. Metal Thickness Inches (mm) Cuttling 3/16 (5) 3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102) 8 (203) 12 (305) Vatural Gas Cut 3/16 (5) 3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102) 8 (203) 12 (305) 14 (32) 2 (51) 4 (102) 8 (203) 12 (305) Cutting 3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102) 8 (203) 12 (305) Gouging 3/8 (10) wide, 3 Katural Gas Gouging 3/8 (10) wide, 3 Main. (10 min 1/32 in. (0.7 min				

Visit MillerWelds.com or your distributor for additional tips, options and accessories.

Outfit	Stock Number	Fuel	Cut Tip	Weld Tip	Heat Tip	Description	Typical Applications
Combination Torch Complete Outfits	HBA-40510 HBA-40300*	Acetylene	SC12-1 SC12-2	SW205	ST602	Heavy-duty combination torch, heavy-duty regulators, 25 ft. (7.6 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors	Heavy fabrication, construction, pipeline,
	HBA-30510 HBA-30300*	Acetylene	SC12-1	SW205	ST602	Heavy-duty combination torch, medium-duty regulators, 25 ft. (7.6 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors	
	HBA-30510LP	Propane	SC40-1	-	ST615	Heavy-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) "T"-grade hose, lighter, safety glasses, tip cleaner and check valves	
Combination Torch and Tip Kits	16206	Acetylene	SC12-1	SW203	ST602	Heavy-duty combination torch and flashback arrestors	Heavy fabrication, construction, pipeline,
	16280	Acetylene	SC12-0, SC12-1	-	-	maintenan rail and tru	
Cutting Torch Outfits	HBS-H510S HBS-H300S*	Acetylene	SC12-2	-	-	Heavy-duty SC229 hand cutting torch and heavy-duty regulators with Hard Hat" gauge guards	Heavy fabrication, construction, shipyard, rail car,
	HBAS-30510 HBAS-30300*	Acetylene	SC12-1	-	-	Heavy-duty SC229 hand cutting torch, medium-duty regulators, 20 ft. (6.1 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors	

Gas Equipment 🔊-

Outfits	Medium-	duty torch tip	s
Combination torch outfits (acetylene or LP)	Stock Number	Max. Metal Thickness Inches (mm)	Cutting Jet Drill Size
Oxy-fuel outfits include just about everything needed for your cutting,	Acetylene	Cutting	
 welding, brazing or heating project. Medium-duty Series 30^{°°} regulators with a three-year warranty Medium-duty torches with a five-year warranty Torch-mount flashback arrestors for added safety (acetylene outfits only) Exclusive long-lasting Graf-Tite[®] soft-seat cutting tips with in-tip gas mixing provides for resistance to flashbacks Cuts up to 5/8 inch (16 mm) with tip included 	MC12-00 MC12-0 MC12-1 MC12-2 MC12-3 MC12-4 MC12-5	3/16 (5) 3/8 (10) 5/8 (16) 1 (25) 2 (51) 4 (102) 6 (152)	68 62 55 54 51 45 41
Cuts up to 5/8 inch (16 initi) with optional tips	Propane/I	Natural Gas Cut	ting
Combination torch and tip kits (acetylene or LP) Combination kits are available with cutting, welding and heating tips OR with multiple cutting tips.	MC40-00 MC40-0 MC40-1 MC40-2 MC40-3 MC40-4	3/16 (5) 3/8 (10) 5/8 (16) 1-1/4 (32) 2 (51) 4 (102)	68 62 55 54 51 51
 Medium-duty torches with a five-year warranty 	Propylene	Cutting	
 Torch-mount flashback arrestors for added safety Exclusive long-lasting Graf-Tite[®] soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks Cuts up to 5/8 inch (16 mm) with tip included 	MC60-1 MC60-2 MC60-3 MC60-4	5/8 (16) 1-1/4 (32) 2 (51) 4 (102)	55 54 51 45
Cuts up to 6 inches (153 mm) with optional tips	Acetylene	Gouging	
	MC13-3	3/8 (10) wide, 2	1/4 (6) deep
Toughcut ^{**} combination torch outfits (acetylene or LP) Economy outfits include many features found on more expensive outfits.	Note: Tips al duty torches	bove fit medium- an	nd standard-
■ Medium-duty Series 30 [™] regulators with a three-year warranty	Acetylene	Welding	
 Medium-duty torches with a three-year warranty Check valves for added safety and torch life Exclusive long-lasting Graf-Tite[®] soft-seat cutting tips with in-tip gas mixing for added resistance to flashbacks Cuts up to 5/8 inch (16 mm) with tip included 	MW201 MW203 MW205 MW207 MW209 Acetylene	1/32 in. (0.7 i 5/64 in. (1.9 i 1/8 in. (3 mm 3/16 in. (5 mr 3/8 in. (10 mr	mm) I) m)
Cuts up to 6 inches (153 mm) with optional tips	MT603	40,000 Btu	
Tag-A-Long [™] and Versa-Torch [™] portable outfits (acetylene)	MT605 MT610	73,000 Btu 129,000 Btu	
 Complete, portable outfits housed in carriers designed for mobility and ease of storage, plus long-lasting Graf-Tite® soft-seat cutting tips and check valves for added safety and torch life. Tag-A-Long includes medium-duty Series 30^w regulators and medium-duty torch with three-year warranties Versa-Torch includes Series 30^w regulators with a three-year warranty and standard-duty torch with a five-year warranty 		elds.com or your di I tips, options and	

Medium-Duty Outfits Combination torch outfits (acetylene or LP)







Combination kits are available with cutting, welding and he **OR** with multiple cutting tips. Medium-duty torches with a five-year warranty Torch-mount flashback arrestors for added safety 16281 Exclusive long-lasting Graf-Tite® soft-seat cutting tips with mixing for added resistance to flashbacks Cuts up to 5/8 inch (16 mm) with tip included





MB55A-510



Tag-A-Long TL-550



Versa-Torch VT-4T

Tag-A-Long[™] and Versa-Torch[™] portable outfits (ac Complete, portable outfits housed in carriers designed for ease of storage, plus long-lasting Graf-Tite® soft-seat cutting check valves for added safety and torch life.

- Tag-A-Long includes medium-duty Series 30[™] regulators a medium-duty torch with three-year warranties
- Versa-Torch includes Series 30[™] regulators with a three-ye and standard-duty torch with a five-year warranty

*Acetylene regu	lator has CGA 300 i	nlet fitting.						
Outfit	Stock Number	Fuel	Cut Tip	Weld Tip	Heat Tip	Description	Typical Applications	
Combination Torch	MBA-30510 MBA-30300*	Acetylene	MC12-0 MC12-1	MW205	MT603	Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose, lighter, safety glasses, tip cleaner and flashback arrestors	Fabrication, farm and ranch, pipe, truck and	
Complete Outfits	MBA-30510LP	Propane	MC40-1	-	MT805	Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) "T"-grade hose, lighter, safety glasses, tip cleaner and check valves	auto, refrigeration, maintenance/repair	
Combination Torch	16205	Acetylene	MC12-1	MW203	MT603	Medium-duty combination torch and flashback arrestors	Fabrication, farm and ranch, pipe, truck and	
and Tip Kits	16281	Acetylene	MC12-0, MC12-1	-	-		auto, refrigeration, maintenance/repair	
Toughcut Economy	MB55A-510 MB55A-300*	Acetylene	MC12-1	MW205	MT603	Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) hose, lighter, safety glasses and check valves	Fabrication, farm and ranch, pipe, hobby,	
Combination Torch Outfits	MB54A-510 MB54A-300*	Acetylene	MC12-1	MW205	-		auto, refrigeration, maintenance/repair	
	MB54A-510LP	Propane	MC40-1	-	-	Medium-duty combination torch, medium-duty regulators, 20 ft. (6.1 m) "T"-grade hose, lighter, safety glasses and check valves		
Combination Torch Portable	TL-500 (no tanks) TL-550	Acetylene	MC12-0	MW203	-	Medium-duty (TL500/TL550) or standard-duty (VT-4T) combination torch, medium-duty regulators, 12.5 ft. (3.8 m) hose, carrier, lighter, safety glasses,	Farm and ranch, hobby, DIY, auto, refrigeration,	
Outfits	VT-4T	Acetylene	MC12-00	LT103, LT104, LT106	13716	check valves and cylinders (cylinders NOT included with TL-500)	maintenance/repair	

Proportional Gas Mixers

Our line of proportional gas mixers can help your operation save money, work more efficiently and produce better-quality welds by providing proper shielding gas mixtures for frequently used welding processes.



gas mixer 299-006-1C shown. Accurate, on-site shield gas mixing. Various welding processes require different gas mixes for the best results. Our proportional gas mixers are accurate and allow custom mixtures for optimal welds.

No stocking or handling of premixed gases saves time and money and also reduces the number of cylinders that need to be stored.

Reduces setup time. No need to change cylinders, regulators, flow control devices or hoses when switching from one range of mixed gas to another.

Ideal for education and training. Operators can quickly see the effect of various gas mixtures on weld appearance, quality and penetration.

Easy operation. Simply set the dials for the desired mix and flow. Mixers are mechanical, no electricity is required.

Serves from one to five welding stations with a single mixer. Delivers accurate mixtures at flows ranging from 10 to 180 scfh.

Covered by a one-year warranty.

Stock Number	Gases	Adjustment % Range	Flow Range	Outlet Pressure	Required Inlet Pressure	Outlet Connection	Inlet Connection	Conversion Tables
299-006-1C	Argon	0-100%	10-180 scfh	50 psig	105-115 psig	5/8"-18 RH internal	5/8"-18 RH internal	Argon/helium
	CO ₂	100-0%		(3.5 bar)	(7.3-7.9 bar)		5/8"-18 RH internal	Argon/oxygen CO ₂ /oxygen
299-006-3C	Argon	0-100%	10-180 scfh	50 psig	105-115 psig	5/8"-18 RH internal	5/8"-18 RH internal	Argon/CO ₂
	Helium	100-0%		(3.5 bar)	(7.3-7.9 bar)		5/8"-18 RH internal	Argon/oxygen CO ₂ /oxygen
299-011-1C	Argon	50-100%	10-180 scfh	50 psig (3.5 bar)	105–115 psig (7.3–7.9 bar)	5/8"-18 RH internal	5/8"-18 RH internal	Argon/helium Nitrogen/hydrogen
	Hydrogen	50-0%		((10 10 20)		9/16"-18 LH external	Argon/ CO ₂
299-014-1C	Argon	80-100%	10-180 scfh	50 psig (3.5 bar)	105–115 psig (7.3–7.9 bar)	5/8"-18 RH internal	5/8"-18 RH internal	Argon/CO ₂ Argon/hydrogen
	Oxygen	20-0%		(* * · · ·)	(5/8"-18 RH internal	Argon/helium Nitrogen/hydrogen

Register Your New Welder

Complete registration as soon as possible — it's quick and easy.

Registering your new Miller[®] equipment may help with any future insurance claims or in the event we need to contact you regarding changes or upgrades. Whether you're a DIY welder or have purchased Miller equipment on behalf of the company for which you work... **all Miller equipment should be registered** so we can provide you with the highest level of service.



10



Welding Safety and Health

Safety products designed to protect welders and enhance their long-term performance

The Miller focus has always been welding – understanding welders, their pain points and the safety products used to protect them within their work environments. As your single-source solution for welding environment control products 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 protect and perform in demanding welding, cutting and grinding applications.



Fume Extractors

Our line of FILTAIR® fume extractors are designed specifically for welding - drawing weld fumes away from the user's breathing zone and keeping your facility clean. We offer many types of fume extraction equipment to best fit your environment. Visit MillerWelds.com/filtair for more information.

FILTAIR	130 (page 99)	MWX (page 100)	Capture 5 (page 100)	SWX (page 101)	4000-12000 (page 102)
Weld Fume Extractor Type	Portable, high-vacuum	Mobile, low-vacuum	Mobile, low-vacuum with the industry's largest capture zone	Stationary, low-vacuum suited for wall or column mounting	Centralized, low-vacuum customizable systems
ldeal For	Contractors, maintenance and repair operations, light fabrication work and light manufacturing	Fabrication shops, manufacturing, and training centers	Manufacturing and fabrication – the best solution for weldments over 18 inches long	Fabrication shops, manufacturing, and training centers where weld areas are near filtration system	Manufacturing, hand-held and automation, fabrication shops, and training facilities
Technology	-	-	ZoneFlow (see pg 102)	Available w/ZoneFlow (see pg 102)	Available w/ZoneFlow (see pg 102)
Welding Arcs	1	1	1	Up to 2 per unit	Up to 16 per unit
Filter Type	Manual cleaning	MWX-D: Disposable MWX-S: Self-cleaning	Self-cleaning (automatic)	SWX-D: Disposable SWX-S: Self-cleaning	Self-cleaning (automatic/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 particles at the source.

Designed to capture weld fume. The MERV 15 rating of FilTek XL filters provides superior filtering of up to 95 percent of weld fume particulate.

Unrivaled filtering performance. Designed to capture weld fume particles with a cleanable filter and safely deposit them in an integrated particle bin.

Less noise. Up to 70 percent quieter than some other extractors. 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

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

Nozzle 300895 12 in. (305 mm) width

Flexible Funnel Magnetic Nozzle

300668 ■ Bernard[®] Clean Air[™] Fume

Extraction MIG Gun (pg 26)

Stock Number	
(300595)	

tock Number	Accu-Rated [™] Airflow	Sound Level	Motor	Input Power	Dimensions	Net Weight
300595)	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® 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 cleanable filter models for multiple applications.



Features common to all models

Source capture. Designed to draw weld fume away from the welder's breathing zone and 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. They outlast, out-filter, and outperform all the rest.

Class-leading suction power of 875/900 cfm is Accu-Rated[™] at the hood 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.

Unrivaled filtering performance. Weld fume particles are captured with a cleanable filter and safely deposited in an integrated particle bin.

Quick and efficient cleaning cycle operates with a push of a button on the control panel. Note: Compressed air required to operate cleaning mechanism.

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

Capture 5 model additional features

EXCLUSIVE! ZoneFlow^{\comestic technology.} Extends the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. See page 102 for more information.

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

Processes

- Stick (SMAW) = Flux-cored (FCAW)
 MIG (GMAW) = TIG (GTAW)
- Comes with
- FilTek[®] XL filter
 Pre-assembled arm

Most popular consumables



Replacement FilTek XL Filters
 300540 For MWX (self-cleaning)
 300539 For MWX (disposable)
 301106 For Capture 5 (self-cleaning)
 Filters efficiently capture the smallest
 weld fume particles 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	Accu-Rated™ Airflow	Extraction Arm Diameter	Sound Level	Motor	Input Power	Dimensions	Net Weight
(951510) 7 ft. standard arm (951511) 10 ft. standard arm	MWX-D (Disposable Filter) (951507) 7 ft. standard arm (951508) 10 ft. standard arm (951509) 12 ft. standard arm	490 sq. ft. (45.52 sq. m)	875 cfm (413 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-S: 300 lb. (136 kg) MWX-D: 238 lb. (108 kg)
Capture 5 (Self-Cleaning) (951639) 208/230 V, 10 ft. Zon (951640) 208/230 V, 12 ft. Zon (951574) 460 V, 10 ft. ZoneFlow (951575) 460 V, 12 ft. ZoneFlow	eFlow arm / arm	452 sq. ft. (42 sq. m)	900 cfm (425 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 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)	620 lb. (282 kg) with 12 ft. arm

Welding Safety and Health 🗧

FILTAIR[®] SWX Series See literature AY/3.2 (SWX)

Stationary fume extraction systems wall- or column-mounted next to the weld area and designed specifically for welding. Disposable or cleanable filter models for multiple applications.



Features common to all models

Source capture. Designed to draw weld fume away from the welder's breathing zone and 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. They outlast, out-filter, and outperform all the rest.

Class-leading suction power of 875 cfm is Accu-Rated[™] at the hood 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 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.

Unrivaled filtering performance. Weld fume particles are captured with a cleanable filter and safely deposited in an integrated particle bin.

Quick and efficient cleaning cycle operates with a push of a button on the control panel. *Note: Compressed air required to operate cleaning mechanism.*

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

ZoneFlow[™] arm additional features

EXCLUSIVE! ZoneFlow technology. Extends the capture zone up to five feet versus 12 to 18 inches with conventional source capture arms. See page 102 for more information.

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

Processes

- Stick (SMAW) = Flux-cored (FCAW)
 MIG (GMAW) = TIG (GTAW)
- Comes with
- FilTek[®] XL filter
- Pre-assembled arm





Replacement FilTek XL Filters
 300540 For self-cleaning models
 300539 For disposable filter models
 Filters efficiently capture the smallest
 weld fume particles 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	Accu-Rated™ Airflow	Extraction Arm Diameter	Sound Level	Motor	Input Power	Dimensions	Net Weight without Arm
SWX-S (Self-Cleaning Model) (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	SWX-D (Disposable Filter) (951619) Telescoping arm (951513) 7 ft. standard arm (951514) 10 ft. standard arm (951515) 12 ft. standard arm	490 sq. ft. (45.52 sq. m)	875 cfm (413 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-S H: 33 in. (838 mm) SWX-D H: 29 in. (737 mm) W: 27.25 in. (692 mm) D: 33 in. (838 mm)	Cabinet: SWX-S: 195 lb. (88 kg) SWX-D: 130 lb. (59 kg) Blower/bracket: 95 lb. (43 kg)

Welding Safety and Health

FILTAIR® 4000–12000 See literature AY/3.4

The industrial centralized weld fume extractors are custom engineered solutions designed for multiple capture sources which require ducting and accessories to complete the system.



IMPROVED! Now available with ZoneFlow technology. FILTAIR 4000 model shown. Other models are available (6000, 8000, and 12000).

Call us toll-free at 866-931-9730 or email us at FILTAIR@millerwelds.com for information and requests for quotes on custom-engineered solutions to fit your needs. **FILTAIR engineering resources.** Design and engineering resources recommend, develop and support custom-engineered solutions.

Improves operating efficiency. Creates 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. Up to 75 percent quieter than cartridge-style extractors. 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.

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 12 to 18 inches with conventional source capture arms. See below for more information.

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

*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	230, 460 or	86.1 in. (2,187 mm)	31.2 in. (792 mm)	83.2 in. (2,113 mm)	1,600 lb. (726 kg)						
FILTAIR 6000	2,300-6,600 cfm (1,085-3,115 L/sec.)	6	5 ft. (1.5 m) Peak pulse cleaning is 92.7 dBA at	Peak pulse cleaning	. ,	. ,	. ,		. ,		117.2 in. (2,977 mm)	31.2 in. (792 mm)	83.2 in. (2,113 mm)	2,250 lb. (1,021 kg)
FILTAIR 8000	2,500-7,000 cfm (1,180-3,304 L/sec.)	8			3-pilase, ou riz	135 in. (3,429 mm)	37.2 in. (945 mm)	83.2 in. (2,113 mm)	2,900 lb. (1,315 kg)					
FILTAIR 12000	4,000-10,500 cfm (1,888-4,955 L/sec.)	12	5 ft. (1.5 m)		120.3 in. (3,056 mm)	59.7 in. (1,516 mm)	83.2 in. (2,113 mm)	3,900 lb. (1,769 kg)						

ZoneFlow[®] **Technology**

The capture zone redefined. Innovative, extended-capture fume extraction system designed specifically for welding.

ZoneFlow technology extends the capture zone up to five feet deep and four feet wide (versus up to 18 inches from conventional source capture extractors). The increased capture zone reduces arm interactions so operators can keep welding, increasing arc-on time and productivity. Miller exclusive ZoneFlow technology is standard on the FILTAIR Capture 5, and optional on the FILTAIR SWX Series and FILTAIR 4000–12000 models (see pages 100, 101 and above).



Processes

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

Custom solutions

 Configured to source fume extraction
 Configured for ambient push-pull collection

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



 Replacement High-Efficiency Filter 300927

Most popular accessories

- Extraction Arms (pg 103)
- Arm Mounting Bracket Kit (pg 103)
- Low Profile Hoods (pg 103)
 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® 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

ZoneFlow arm

Standard 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 12 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. The 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 FILTAIR@millerwelds.com for information and requests for quotes on custom-engineered solutions to fit your needs.

Cleaner Air with FilTek® XL Filters

The FilTek XL filter's higher MERV rating means unrivaled filtering performance.

MERV Comparison

Applicable Weld Fume	Particle Size Range Efficiency % ²					
MERV Rating Categories ¹	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 particles - 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 to capture up to 95 percent of weld fume particulates.

¹American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 52.2 ²National Air Filtration Association (NAFA) Guide

³HEPA filters are depth loading and have high restrictions to air flow, reducing system performance versus FilTek XL filters. ⁴Jenkins, Pierce, Edgar, Particle Size Distribution of GMAW and FCAW

Welding Safety and Health

Respiratory

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 provides secure fit without the need for over-tightening.

Lightweight low-profile blower assembly with integrated shoulder straps (PAPR) reduces lower back strain and fatigue.

Lightweight versatile C50 air regulator (SAR) can be positioned horizontally or vertically to naturally align with body movements.

Superior visibility

ClearLight[™] Lens Technology optimizes contrast and clarity in welding and light states, easing eve strain.

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.

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 (PAPR) included with each package eliminate downtime.

C50 air regulator (SAR) supplies down to 50-degree Fahrenheit (28°C) Grade-D air 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.



PAPR Powered Air-Purifying Respirator See literature AY/4.1

Available packages:

With T94-R[™] helmet (external grind control)

264573 With auto-darkening lens assembly With T94i-R[™] helmet (integrated clear grind shield) 264575 With auto-darkening lens assembly

With hard hat and Titanium 9400^w helmet (external grind control) 259385 With auto-darkening lens assembly

With hard hat and Titanium 9400i[™] helmet (integrated clear grind shield) 261659 With auto-darkening lens assembly

T94-R[™] helmet upgrade kit (for use with existing PAPR system)

279870 Includes T94-R helmet assembly, breathing tube, breathing tube cover and flowmeter

T94i-R[™] helmet upgrade kit (for use with existing PAPR system)

279871 Includes T94i-R helmet assembly, breathing tube, breathing tube cover and flowmeter

A complete PAPR system consists 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 (see available packages at left).

- HEPA filter provides up to 99.97 percent filtration of airborne particles
- NIOSH 42 CFR 84 certified, assigned protection factor of 25



Straight air hose

SAR Supplied Air Respirator See literature AY/4.3

Available packages:

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



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

A complete SAR system consists of C50 air regulator, belt assembly, flowmeter, breathing tube, breathing tube cover, tool bag, T94i-R helmet assembly and air hose (see available 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 the manufacturer

Welding Safety and Health

Respiratory



LPR-100[™] OV Half Mask Respirator

See literature AY/4.5

- ML00996 Respirator with P100 organic vapor filters (small/medium)
- ML00997 Respirator with P100 organic vapor filters (medium/large)

Filters and accessories

CVUU63U	P100/0V filters	(one nair)

285686	Protective	hard carrying case	

261086	Quantitative fit-test kit adapter

- Low-profile design fits under T94[™] and Digital Elite[™] Series 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



LPR-100[™] Half Mask Respirator See literature AY/4.5

ML00894 Respirator with P100 filters (small/medium)

- ML00895 Respirator with P100 filters (medium/large) ML00994 Respirator with P100 nuisance level OV relief filters (small/medium)
- ML00995 Respirator with P100 nuisance level OV relief filters (medium/large)

Filters and accessories

- SA00818 P100 filters (one pair)
- SA00819 P100 nuisance level OV relief filters (one pair)
- 283374 Protective hard carrying case
- 261086 Quantitative fit-test kit adapter
- Low-profile design fits under T94[™], Digital Elite[™] and Classic Series welding helmets and provides maximum field of vision
- P100 filters provide up to 99.97 percent filtration of airborne particles
- 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



N95 Disposable Mask Respirator See literature AY/4.8

267334-2	Respirator (2 pack)
267334	Respirator (10 pack)

- Respirator (10 pack) 267335-2 Respirator with nuisance level OV relief (2 pack)
- 267335 Respirator with nuisance level OV relief (10 pack)
- Flame-retardant outer layer designed for welding applications
- N95 filters provide up to 95 percent filtration of airborne particles
- 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

MillerWeldsStore.com



Welding Helmets See page 108 for helmet accessories.



Serious dependability backed with a three-year warranty (unless noted).

	T94i [™]	T94 ™	Digital Infinity™	Digital Elite™	Digital Performance™	Classic VSi [™]	Classic VS	Classic FS#10 Flip-Up
Viewing Area	9.2 sq. in.	9.2 sq. in.	13.4 sq. in.	9.2 sq. in.	7.2 sq. in.	5.9 sq. in.	5.2 sq. in.	5.1 sq. in.
Auto-Darkening	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ClearLight™ Lens Technology	Yes	Yes	Yes	Yes	Yes	-	-	-
AutoSense™	-	-	Yes	Yes	-	-	-	-
Shades	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	Cut: 5-8 Weld: 8-13	8-13	8-12	10
Modes	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	Weld/ Flip grind
Integrated Grind Shield	Yes	-	-	-	-	Yes	-	Yes
Auto-on	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sensors	4	4	4	4	3	3	2	2
TIG Rating	3 amps	3 amps	5 amps/below	5 amps/below	5 amps	5 amps/below	20 amps	20 amps
Switching Speed	1/20,000 second	1/20,000 second	1/20,000 second	1/20,000 second	1/20,000 second	1/20,000 second	1/12,000 second	1/3,600 second
Digital Controls	Yes	Yes	Yes	Yes	Yes	-	-	-
Premium Headgear	Yes	Yes	Yes	Yes	Yes	-	-	-
InfoTrack [™]	Yes - 2.0	Yes - 2.0	Yes - 1.0	-	-	-	-	-
Weight	26 oz. (737 g)	21 oz. (599 g)	23 oz. (652 g)	18 oz. (510 g)	17 oz. (482 g)	23 oz. (652 g)	16 oz. (454 g)	14 oz. (396 g)
Warranty	3 years	3 years	3 years	3 years	3 years	2 years	2 years	2 years

See chart above for feature availability. Largest viewing area. Digital Infinity[™] Series helmets feature a 13.4-square-inch viewing area allowing for a wide range of view.

AutoSense[™] reduces issues related to setting helmet sensitivity by allowing the

welder to push and hold the AutoSense button to automatically set the helmet

Clear*Light*[™]**Lens Technology** optimizes contrast and clarity in welding and light states. 1/1/1/2 optical clarity rating allows for a lighter light state while not welding, maximizing safety and productivity.

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

Premium headgear. Features ample adjustability settings and enhanced support for the perfect fit, maximizing comfort.

InfoTrack[™] data monitoring technology tracks arc time and features a clock. Version 2.0 adds arc count.

T94[™] Series Maximized comfort, visibility and productivity for the professional welder. See literature AY/41.1



sensitivity for their environment.



Matte silver finish reflects ambient heat, keeping the user cooler.

Four operating modes for ultimate versatility: weld, cut, grind and X-Mode.[™]

Half shade settings for precise lens adjustment.

Simplistic 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.

InfoTrack[™] 2.0 monitors arc time and arc count.

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.

Helmet Lighting Accessory 281361

- Provides additional lighting in low-light environments for T94 Series helmets
- Includes two lights
 - (one for each side) and all required mounting hardware



+Welding Safety and Health



Digital Elite[™] Series Industry-leading helmet provides high-performance versatility. See literature no. AY/43.0



Digital Performance[™] Series See literature AY/44.0

Lightweight helmet with superior headgear for ultimate comfort.



Classic Series Helmets for the value-minded welder. See literature AY/45.0

251292



MP-10[™] Helmet

Helmet Lighting



VSi™ 260938 FS#10 Flip-Up 263038

Metalworks[™] (VS) 271346

Rise[™] (VS) NEW! 271349

Liberty[®] 287369

©2019 Caterpillar. CAT, CATERPILLAR and their design marks are registered trademarks of Caterpillar. Miller Electric Mfg. LLC is a licensee of Caterpillar Inc.

Helmet Accessories



Gen 3.5 Headgear 284218

 Ergonomic design with comfort cushion provides extensive adjustability, settings and enhanced support

Gen IV Headgear 260486

 Ergonomic, four-point flexible design provides a secure fit, while avoiding major pressure points within the head for the T94[™] Series helmets

Slotted Hard Hat Adapter 259637

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













2x4 Auto-Darkening Lens

770660 Shade 8

- 770659 Shade 9 770226 Shade 10
- 770961 Shade 11
- Fits all 2x4-inch windows
- Solar powered
- Two arc sensors Light state shade 3
- Two-year warranty

Helmet Bib 253882

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

Helmet Bib 279078

 Flame-resistant material provides additional neck coverage for the **T94** Series helmets

Helmet Cape 279080

Flame-resistant material provides additional head and back-of-the-neck coverage for the **T94 Series 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 and Classic Series helmets, and MP-10 helmet

I/O (indoor/outdoor) lenses feature

light shading with a mirrored finish

Shade 3 and 5 IR lenses are

for cutting, brazing or soldering

Weld-Mask[™] See literature AY/40.0



Compact auto-darkening lenses allow users to weld in spaces where access with traditional welding helmets is limited. Close-fitting soft eye covering provides total darkness for precision welding. Face shield and flame-retardant head cover provide coverage for UV/IR rays and applications with limited spatter.



Weld-Mask 267370

Weld-Mask 2

- Shades 5, 7, 9, 11 and 13 for use with MIG, TIG, stick, and gas welding and cutting
- Extremely lightweight (8 oz.), virtually eliminates neck strain

Weld-Mask 2 280982

- Ideal for industrial or construction environments can be worn under a hard hat with a Miller® Half Mask Respirator and select safety glasses
- Shades 5-13 for use with MIG, TIG, stick, and gas welding and cutting
- X-Mode[™] electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked
- Wide, singular lens provides unmatched auto-darkening range of visibility



secure Weld-Mask



- Form-fitting orbital eye coverage
- Shatterproof polycarbonate lenses
- Wrap-around designs meet ANSI side shield requirements

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



Welding Safety and Health

Welding Apparel See literature AY/47.5



Grain Leather Jacket (See size chart)

- Top-grain pigskin leather
- Expandable leather strategically placed for optimal mobility
- Flame-resistant inside cuff
- Satin lining
- 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 additional
- protection Expandable leather strategically placed for optimal mobility
- Mesh lining
- Sewn entirely with Kevlar[®] thread, adding structural durability at each seam



- 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



Combo Jacket (See size chart)

- 9-ounce Indura[®] flame-resistant cotton (flame resistance guaranteed for life of jacket)
- Top grain leather
- 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



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



Classic Cloth Apron 247149 35-inch length with accessible

- front pocket
- Adjustable drawstring ensures a good fit

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



Welding Gloves See literature AY/47.0

Performance - unprecedented comfort and performance with exceptional dexterity and flexibility.



- Strategically placed patches on palm and back for extended glove life
- Double-layered insulated palm and back

Fleece-insulated palm, foam-insulated back

provide exceptional dexterity and comfort

Pig grain leather palm provides extreme durability and protection





TIG

- Triple-padded palm for added comfort
- Goat grain leather offers superior flexibility and dexterity

- Cow grain palm, pig split back and goat grain inner fingers



TIG/Multitask

MIG (Lined)

Dual-padded palm

- Dual-padded palm for added comfort
- Wool back provides ultimate insulation
- 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 increases fit and support
- Padded, reinforced palm and thumb saddle for extended wear

Welding Glove Size Chart *All asterisked stock numbers are sold as one pair. All others are sold as six packs (six pairs).

Classic – traditional design for the value-minded welder.











Heavy-Duty MIG/Stick

- Reflective insulation on back reduces heat impact
- Moisture-wicking fleece and foam insulation
- Pig grain palm, pig split back and cuff

MIG (Pigskin)

- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Pig split leather palm, back and cuff

MIG (Cowhide)

- Reinforcement patches enhance durability
- Moisture-wicking fleece and foam insulation
- Cow split palm, pig split back and cuff

TIG

- Thin internal padding for added comfort
- Unlined palm for precise dexterity
- Sheep grain palm, cow split back and cuff

Work

- Dual-padded palm for added durability
- Fleece back provides ultimate insulation
- Cow grain leather offers superior durability and abrasion resistance

Performance Gloves	Small	Medium	Large	X-Large	2X-Large		Classic Gloves	Medium	Large	X-Large
Heavy-Duty MIG/Stick	-	-	263339	263340	269615*		Heavy-Duty MIG/Stick	-	271877*	271887*
MIG (Lined)	-	263332	263333	263334	269618*		MIG (Pigskin)	-	279875*	279876*
TIG	263346	263347	263348	263349	-		MIG (Cowhide)	-	271890*	271891*
TIG/Multitask	263352	263353	263354	263355	-		TIG	279897*	279898*	279899*
Metalworker	-	251066	251067	251068	-		Work	266041*	266042*	266043*
	Performance Gloves Heavy-Duty MIG/Stick MIG (Lined) TIG TIG/Multitask	Performance Gloves Small Heavy-Duty MIG/Stick – MIG (Lined) – TIG 263346 TIG/Multitask 263352	Performance Gloves Small Medium Heavy-Duty MIG/Stick - - MIG (Lined) - 263332 TIG 263346 263347 TIG/Multitask 263352 263353	Performance Gloves Small Medium Large Heavy-Duty MIG/Stick - - 263339 MIG (Lined) - 263342 263333 TIG 263346 263347 263348 TIG/Multitask 263352 263353 263354	Performance Gloves Small Medium Large X-Large Heavy-Duty MIG/Stick - - 263339 263340 MIG (Lined) - 263332 263333 263334 TIG 263346 263347 263348 263349 TIG/Multitask 263352 263353 263354 263355	Performance Gloves Small Medium Large X-Large 2X-Large Heavy-Duty MIG/Stick - - 263339 263340 269615* MIG (Lined) - 263322 263333 263334 269618* TIG 263352 263353 263354 263355 -	Performance Gloves Small Medium Large X-Large 2X-Large Heavy-Duty MIG/Stick - - 263339 263340 269615* MIG (Lined) - 263322 263333 263334 269618* TIG 263346 263347 263348 263349 - TIG/Multitask 263352 263353 263354 263355 -	Performance Gloves Small Medium Large X-Large 2X-Large Classic Gloves Heavy-Duty MIG/Stick - - 263339 263340 269615* Heavy-Duty MIG/Stick MIG (Lined) - 263332 263333 263334 269618* MIG (Pigskin) TIG 263352 263353 263354 263355 - TIG	Performance Gloves Small Medium Large X-Large 2X-Large Classic Gloves Medium Heavy-Duty MIG/Stick - - 263339 263340 269615* Heavy-Duty MIG/Stick - MIG (Lined) - 263342 263343 269618* MIG (Pigskin) - TIG 263352 263353 263354 263355 - MIG (Cowhide) - TIG/Multitask 263352 263353 263355 - TIG 279897*	Performance Gloves Small Medium Large X-Large 2X-Large Classic Gloves Medium Large Heavy-Duty MIG/Stick - - 263339 263340 269615* Heavy-Duty MIG/Stick - 271877* MIG (Lined) - 263342 263333 263344 269618* MIG (Pigskin) - 271870* TIG 263352 263353 263354 263355 - MIG (Cowhide) - 271890* TIG/Multitask 263352 263354 263355 - TIG 279897* 279898*

Miller recommends





Innovation Focused on optimizing quality, ease-of-use and cost

> Collaboration Partnering to meet customer needs

Trusted source

Deep product and application expertise to deliver success

Visit HobartBrothers.com for more information.

More than just filler metal... SOLUTIONS for your business.















Workstations 🚺

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, affordable 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 home garage.



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 replacement accessories).



Miller ArcStation accessories allow you to get the most out of your ArcStation.

- 6-inch X-clamp 300613
 Side Shelf 300680
- **Tool Chest** with ball-bearing slides 300610
- 4 5-inch Quick-remove Vise 300611 With mount
- 5 Weld Curtain 300686
- 6 Casters 300849



Convenience Kit 300614 Includes the following:

7 Gun holder8 Tool holder9 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.



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	Dimensions	Weight
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)
30FX (300837)	(1) 29 x 29 x 3/16 in. X-pattern	500 lb. (227 kg)	35 x 29 x 35 in. (889 x 737 x 889 mm)	74 lb. (34 kg)
Training Solutions



From our FREE OpenBook[™] training software, to our AugmentedArc[®] augmented reality welding system and LiveArc[™] welding performance management system, we provide solutions to meet all of your welding training needs.



OpenBook provides FREE interactive online training resources, educational materials and tracking tools. These materials allow welding instructors to assign and deliver welding content, create quizzes, download welding labs, monitor student participation, and assess and report student progress and performance. Visit OpenBook.MillerWelds.com for details.

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
- 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





The AugmentedArc augmented reality welding system allows students and trainees to experience the most realistic multiprocess welding simulation available — and then seamlessly transition to the industry's most complete live arc experience in the LiveArc welding performance management system.

Delivering unbeatable advantages

- Optimize instructor efficiency
- Deliver real-time feedback
- Reduce overall training time
- Assess weld operator skills and performance
- Minimize material cost
- Enhance job candidate recruiting and screening
- Build a larger, more-skilled welding workforce

Training Solutions

AugmentedArc[®] Augmented Reality Weld Training

See literature TS/2.0

IMPROVED!

Lighter in weight and

better balanced AR

welding helmet with

larger viewing area,

plus a more realistic augmented reality

environment.

The industry's most realistic welding simulation solution for classroom training.



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, AugmentedArc significantly reduces the amount of time needed to teach students.

Minimize material cost by saving wire, gas and workpieces in this simulation environment, while allowing students to define their welding skills before live arc welding.

Build a larger, more-skilled welding workforce when computersavvy individuals are drawn to welding education programs that increase their success.

AugmentedArc system comes complete with

AugmentedArc simulator

- Teachers software
- Black Infinity[™] AR helmet with premium headgear
- AugmentedArc 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 applications
- Five workpieces: t-joint, butt joint, lap joint, pipe-to-plate and butt pipe

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 – one case holds the simulator and the other holds accessories

Stock Number	Input Power	Voltage/Amperage Selection	Welding Positions	Polarity Selection	Shielding Gas Selection	Wire Speed Selection	Base Material Selection	Workpiece Selection	Stick Electrode Selection	Diameter Se	election	Simulator Dimensions	Net Weight
(951823)	115 V,	GMAW: 10-38 V	1F-4F	DCEP	CO ₂	GMAW/FCAW:	Carbon steel	1/8, 1/4, 3/8 in.	E7018	Solid wire: .0)30, .035, .045 in.	H: 21 in.	Simulator:
Only	15 A,	50-425 A	1G-6G	DCEN	Argon O ₂	50-1,000 ipm	Stainless steel	(3.2, 6.4, 9.5 mm)	E6010	(0.8, 1.0, 1.	2 mm)	(533 mm)	20.7 lb.
available at	60 Hz	FCAW: 10-38 V		AC	Argon CO ₂	(1.27-25.4	Aluminum		E6013	Stick electroo	de: 1/8, 3/32, 5/32 in.	W: 9.38 in.	(9.4 kg)
approved		50-425 A			Argon	m/min.)				(2.5, 3.25, 4	l.0 mm)	(238 mm)	Helmet:
distributors		SMAW: 50-425 A								Filler rod: 5/	64, 3/32 in.	D: 17.25 in.	1.97 lb.
		GTAW: 50-425 A								(2.0, 2.4 mr	n)	(438 mm)	(0.9 kg)

LiveArc[™] Welding Performance Management System



The reality-based recruiting, screening, training, and re-qualification solution for industrial, manufacturing and educational markets.

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.



LiveArc GMAW/FCAW system 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
- Calibration tool
- Two table clamps
- Removable arm extension with C-clamp assembly for out-of-position right- and left-hand applications
- Extra Bernard[®] consumables

LiveArc GMAW/FCAW/SMAW system includes above plus

- SmartStinger with 12 ft. (3.7 m) cable
- 15 ft. (4.6 m) Dinse-style cable
- Router box
- Software update for SMAW applications

Stock Number	Input Power	Processes	Positions	Multi-Pass	Rated Output	Electrode Diameter	Dimensions	Net Weight
(907714) GMAW/FCAW system (907714001) GMAW/FCAW/SMAW system	120 V, 60 Hz Compatible	GMAW, GMAW-S, GMAW-P, FCAW-G	2F-4F, 1G-4G	Groove and fillet up to 1 in. (25 mm) plate		5/64 in. (2.0 mm)	W: 46 in. (1,168 mm)	GMAW/FCAW system: 480 lb. (218 kg)
Only available at approved distributors	with Miller power sources	SMAW	2F-4F, 1G-4G	Limited groove applications	SmartStinger: 250 A at 60% duty cycle	SmartStinger: Up to 1/8 in. (3.2 mm)		GMAW/FCAW/SMAW system: 527 lb. (239 kg)

Automated MIG 114

Cable Connectors and Adapters 114/121

Carts, Cylinder Racks and Running Gear 114-116

Coolant Systems 115

Engine Drive Accessories 116–117

- Big Blue Accessories Blue Star Accessories
- Bobcat and Trailblazer Accessories
- Generator Accessories Protective Covers Trailers

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 121.

For AlumaFeed system, Invision 352 MPa, XMT 350, CST, Maxstar, Dynasty and Syncrowave. These power sources are equipped with Dinse- or Tweco-style connectors for secondary connections. Power sources are shipped with two male plugs for use with #4 to #1/0 AWG cable.

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 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 Tweco-style male plug which attaches to the work and/or weld cables and plugs into the Tweco-style receptacles on the power source.



Dinse/Tweco®Adapter 042465 Dinse/Cam-Lok Adapter 042466 One-piece adapter with Dinse-style male

plug (to power source) on one end and Tweco or Cam-Lok female receptacle (for weld cable connection) on other end.

Load Banks 117

MIG Accessories 117

- Machine and Gun Accessory Kits Protective Covers
- Plasma Cutter Accessories 118 Automation Kits - Cables and Cable Covers
- Cutting Guides = Filters = Plugs and Cords Protective Case = Torches

Polarity Switches/Controls 119

Remote Controls and Wireless Remote Controls 119-121

Tweco[®]/Dinse Adapter 210061

One-piece adapter with Tweco-style male plug (to power source) on one end and Dinse-style female receptacle (for weld cable connection) on other end.

Carts, Cylinder Racks and Running Gear Also see Engine Drive Accessories on page 116.



Feeder Cart 142382 A low-profile, creeper cart which allows the operator to easily move the feeder around the work area.

Universal Cart and Cvlinder Rack 042934

For Invision 352 MPa. XMT 350. CST. Diversion. Maxstar 210/280 and Dynasty 210/280. Also accommodates a single gas cylinder up to 56 inches (1,422 mm)

high measuring 6 to 9 inches (152 to 229 mm) in diameter. Provides storage for auxiliary items such as electrodes, helmets and gloves.



Running Gear/Cylinder Rack 301239 For Millermatic 141/211,

Multimatic 200/215 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 141/211. Multimatic 200/215/220 AC/DC and Diversion. Similar to Running Gear/Cylinder Rack 301239, but with dualcylinder 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 above.

For more detailed information, visit 2 MillerWelds.com/accessories

Stick Accessory Kits 119

- Submerged Arc Accessories 119 Cables - Torch Accessories
- Wire Drive Assembly Accessories

TIG Accessories 120–121

- Kits = Protective Case/Covers = Remote Controls
- Torch and Weld Cable Connectors

Wire Feeder Accessories 122

- Extension Cables (14-pin) = Power Supply Adapter
- **-** Spool Adapter Spool Gun Controls and Kits
- Turntable Assembly = Wire Straightener



Dual EZ-Change[™] Low Cylinder Rack with **Elevated Gun and Cable** Rack 300337

For Millermatic 212 Auto-Set/ 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.



For Millermatic 255 and Multimatic 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 and Multimatic 255. Similar to above, but with a dualcylinder 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) is also available separately for use with EZ-Latch Single Cylinder Running Gear above.



Dual Cylinder Rack 195299

For Millermatic 350P/ 350P Aluminum, Replaces single-cylinder rack.





Accessories •••



MIGRunner[™] Cart 195445 For AlumaFeed system or Invision and XMT 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.



Deltaweld 350/500 Running Gear 301523 For Deltaweld 350/500. Features small footprint, dual-cylinder rack, chains for gas cylinders, ergonomic handle design and lockable front casters with two torch holders, and storage area below.



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.



2-Wheel Trolley Cart 300971

For Maxstar 210/280 and Dynasty 210/280 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 301318

For Maxstar 210/280 and Dynasty 210/280 with or without Coolmate 1.3. Cart features singlecylinder rack, foot pedal holder, two cable/torch holders and two TIG filler holders.



Runner[™] Cart 300244 For Maxstar 400/800 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 1.3

Coolmate 3

Coolmate 4

Coolmate 1.3 300972 120 V

Running Gear Cylinder Rack 300408

For Invision, Dimension 650, and XMT with single- or

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.

dual-wire feeders. Holds two large gas cylinders and has

For Maxstar 210/280 and Dynasty 210/280. Light industrial, 1.3-gallon cooler designed for water-cooled torches on power sources rated up to 280 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 300245 120 V

For Maxstar 400/800 and Dynasty 400/800. Industrial, 3.5-gallon cooler designed for water-cooled torches rated up to 600 amps*.

*May vary with torch design and

cable length. Miller coolant systems

are backed by the best warranty in

the industry - one full year.

Coolmate 4 042288 120 V

Best performer in its class - industrial, 4-gallon cooler designed for water-cooled torches rated up to 600 amps*.



Sold in multiples of four in 1-gallon recyclable plastic bottles. Miller® coolants contain a base of ethylene



glycol and deionized water to protect against freezing to -37 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, 60 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: 11.25 in. (286 mm) W: 10.38 in. (264 mm) D: 24 in. (610 mm)	43 lb. (20 kg)
Coolmate 3	115 V, 50/60 Hz 230 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz) 2.5 A (50 Hz), 3.0 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)
Coolmate 3.5	115 V, 50/60 Hz	5.9 A (50 Hz), 4.7 A (60 Hz)	4,140 W (14,000 Btu/hr.) 5.0 qt./min. (4.7 L/min.)	1,660 W (5,660 Btu/hr.) 1.1 qt./min. (1 L/min.)	3.5 gal. (13.2 L)	H: 11.75 in. (298 mm) W: 15.75 in. (400 mm) D: 26 in. (660 mm)	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 117.

Big Blue Accessories



Cable Holder 043946

For Big Blue 500 Pro/600 Series/ 800 Series.



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 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 onsite mobility.

Bobcat and Trailblazer Accessories (Gas/LP)



Multi-Terrain Running Gear 301460

For Bobcat 200 Air Pak. Includes two heavy-duty Never Flat[™] 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.



Multi-Terrain Running Gear 300913 Inner tubes 300914 Never Flat[™] tires For gas/LP Bobcat and Trailblazer (except Air Pak models). 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 300909 Inner tubes 300910 Never Flat[™] tires For gas/LP Bobcat and 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 300912 For gas/LP Bobcat and 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**

300921 For gas/LP Bobcat and Trailblazer (except Air Pak models). 300473 For Trailblazer 302 Air Pak.

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 300918

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 300917

For LP Bobcat and Trailblazer. 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: Cannot be used with Gas Cylinder Mounting Assembly. Not recommended for use with Protective Cover.



Remote Oil Drain and Filter Kit 300923 Field For gas Bobcat and Trailblazer (except Air Pak models).

Front mount for Kohler engines makes servicing easy when engine drive is mounted in tight spots.

Bobcat and Trailblazer Accessories (Diesel)



All-Purpose Running Gear with Never Flat[™] Tires 300477

For diesel Bobcat 250 and Trailblazer 325. 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.



Protective Cage with Cable Holders 195331

For diesel Bobcat 250 and Trailblazer 325. Rugged cage with cable holders protects your investment. Works with Running Gear, or with trailer.

Note: Not for use with Protective Cover.

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.



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

600 Series/800 Series.



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 3 Phase. 254140 3-phase, 240 V, 50 A plug (NEMA 15-50P). For Big Blue 500 Pro/

Protective Covers



Protective covers (300919) 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.
- 301476 For gas Bobcat 200 Air Pak with Running Gear.
- **301531** For diesel Bobcat 200 Air Pak
 - without Running Gear.
- 301532 For diesel Bobcat 200 Air Pak with Running Gear.
- **300919** For gas Bobcat and Trailblazer (except Air Paks) without Protective Cage or Running Gear.
- **300920** For gas Bobcat and Trailblazer (except Air Paks) with Protective Cage or Running Gear.
- 301099 For diesel Bobcat 250 and Trailblazer 325 without Protective Cage or Running Gear.
- 300379 For Trailblazer 302 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.



Accessories •••

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.

4 West Four-Wheel Steerable Off-Road Trailer 042801

For Big Blue 500 Pro/600 Series/800 Series. A heavy-duty 2,550-pound (1,157 kg) capacity trailer designed for use in mines, quarries and other rough terrain. Has narrow 22-foot (6.7 m) turning radius. Includes 3-inch (76 mm) lunette eye, universal hitch and safety chains.

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. **Does not include tongue.

Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to Center of tires)	Standard Tires (Standard Rating or P-size Rating)	Dimensions	Net Weight
HWY-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)
4 West	2,000 lb./axle (907 kg/axle)	3,000 lb. (1,361 kg)	2,550 lb. (1,157 kg)	21.25 in. (540 mm)	8 in. (203 mm)	55.25 in. (1,403 mm)	B78-13	L: 91 in. (2,311 mm)** W: 61.25 in. (1,556 mm)	420 lb. (191 kg)

Load Banks



LBP-350 043329

Designed to provide an adjustable load for troubleshooting or calibrating welding power sources or generators. Standard equipment

includes analog meters for both AC and DC output with jacks for external metering connections. It comes with a 13-foot (4 m) 115-volt power cord and has seven 50-amp load switches, providing a maximum capacity of 350 amps.



Welding Power Load Bank 902804

Designed to load test the output of transformer-type, engine- or motor-driven generator welding power sources. This unit can be used to test AC or DC welder outputs, and to demonstrate welding equipment to customers.

MIG Accessories

Machine and Gun Accessory Kits



MIG kit with Dinse-style connectors for singlewire 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



301262 For Millermatic 141/211 and Multimatic 215.



301524 For Multimatic 220 AC/DC.



301521 For Millermatic 255 and Multimatic 255. Features side pocket.

O Marer

195142 For Millermatic 212 Auto-Set/ 252/350P/350P Aluminum and Syncrowave 210. Features side pocket.

Plasma Cutter Accessories

Automation Kits



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 microns for removal of 99.9 percent of water, dirt and oil.



RTI Filter and Bracket 300491

For Spectrum 875/875 Auto-Line. Dryer will remove water, dirt and oil as small as one micron with 99.9 percent efficiency. Can be mounted on plasma cutter or on wall. Install as close as possible to point of air consumption. Replaceable filter element (212771).

Plugs and Cords



For 6-50P power cable (230/240 V, 50 A). 219261 For 5-15P power cable

219258

219259 For 5-20P power cable (115/120 V, 20 A).

For Spectrum 375 X-TREME, Millermatic 211, Multimatic 200/215/220 AC/DC, Thunderbolt 160, 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





254328 For connection to 6-50P receptacle



254330

For connection to 5-15P receptacle (120 V, 15 A).



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.



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.













Polarity Switches/Controls

Polarity Control 042871

This dual-function control is designed for use with dual wire feeders or any application where electrical isolation and/or polarity reversing of weld current is required. Both functions can be used at the same time.



Process Selector Control 042872

For CC, CV or CC/CV welding power source. Provides easy way to change welding process. Also includes features of Polarity Control.

Remote Controls

Also see Remote Controls in TIG Accessories on pages 120 and 121.



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) 300836 50 ft. (15 m) Consists of either 15- or 50-foot electrode cable with holder and work cable with clamp. 200 A, 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 2/0 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 Tweco male connector and either an electrode holder or work clamp.



2/0 Weld Cable Extensions 195456 50 ft. (15 m) 195455 100 ft. (30 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)

Accessories •••

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

 $\label{eq:22.6} Overall length with extension is 9 inches (228.6 \text{ mm}).$ Actual length of extension is 8.5 inches (215.9 mm).

OBT Torch Contact Tips						
OBT 600	0BT 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

2645953/64 in. (1.2 mm)2645961/16 in. (1.6 mm)2645975/64 in. (2.0 mm)2645883/32 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)

 133700
 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 Straightener301160For 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

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 210/280. All-in-one TIG/stick welding kit comes with either a Weldcraft[™] A-150 OR 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 301287 For Multimatic 200. 301337 For Multimatic 215. Kit comes with Weldcraft[™] A-150 TIG torch with Dinse-style

Multimatic 215 contractor kit shown.

connector, either a RFCS-6M foot control (Multimatic 200 kit) OR RFCS-RJ45 foot control (Multimatic 215 kit), flow gauge regulator with 12-foot (3.7 m) gas hose, and AK2C torch accessory kit.



Multimatic 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 AK1C 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)

For Maxstar (except 161 models), Dynasty, and Syncrowave 300. 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 gas lens accessory kit.

Protective Case/Covers



X-CASE 301429 For Maxstar 161 models.



Protective covers (300579) and (301382) shown.

300579 For Diversion.

301382 For Maxstar 280 and Dynasty 210/280. 195142 For Syncrowave 210.



14-Pin to 6-Pin Adapter Cord 300507

For Maxstar 161 STL/STH and Multimatic 200. 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 255. Allows standard 14-pin

TIG remote controls to be used with the Multimatic 255.



RCC-6M (6-pin plug)

301118 13.25 ft. (4 m) cord with plug For Maxstar 161 STL/STH and Multimatic 200. RCC-14 (14-pin plug)

151086 26.5 ft. (8 m) cord with plug

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-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 and Multimatic 200. RCCS-RJ45

301146 13.25 ft. (4 m) cord with plug For Diversion and Multimatic 215.

RCCS-14 (14-pin plug) 043688 26.5 ft. (8 m) cord with plug

North/south rotary-motion fingertip current/contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for applications that require a finer amperage control.



RECS-RI45 300432 For Diversion and Multimatic 215. Foot pedal current/ contactor control. Includes 14-foot (4.3 m) cord with plug.



RFCS-6M HD (6-pin plug) 195183 13.25 ft. (4 m) cord with plug 195504 20 ft. (6 m) cord with plug For Maxstar 161 STL/STH and Multimatic 200.

RFCS-14 HD (14-pin plug) **194744** 20 ft. (6 m) cord with plug Heavy-duty foot pedal current/contactor control provides increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility.



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. Rubbercovered 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.

301381 For Maxstar 210.

Remote Controls

Wireless Remote Foot and Hand Controls

See literature AY/6.5 (Foot) and AY/6.6 (Hand)

Increases productivity, saves money, improves safety and easy to use.



Wireless 14-pin receiver (included with both systems)

Wireless hand control

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 remote cord.

Auto on feature extends the battery life up to 250 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.

*Some applications are not suitable for wireless communication. Keep in mind that the rated range is subjective, and depends on factors such as obstructions, frequency interference, transmission technology, and weather. The figures listed assume ideal conditions are present. Improves productivity and maneuverability by eliminating cord tangles. Reduces clean up time and work area cord clutter. Improves safety by eliminating control cord and reducing potential

trip hazard.

Improves reliability by eliminating control cord failure.

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

 $\mbox{Easy-to-install receiver}$ 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.)

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 amperage and voltage while welding.

Industrial 🔴

Processes

TIG (GTAW) = Pulsed TIG (GTAW-P)

The following processes are with

Accessories •••

- hand control only
- Stick (SMAW) = MIG (GMAW)*
- Flux-cored (FCAW)
- *Only with voltage-sensing feeder.

Comes complete with

- Wireless foot control (300429) OR hand control (300430) transmitter
- Wireless 14-pin receiver (300722)
- Battery box (249297)
 Three AA batteries
- Four Easy-Glide Wear Pads[™] (for foot control only)
- (sold individually, 248274) Belt clip (for hand control only) (249233)

Suggested power sources



Look throughout this catalog for the icon above signifying compatibility with a wireless remote. For a complete power source compatibility list visit, **MillerWelds.com/wireless**

are procenti										
Model/Stock Number	Component	Power Supply	Battery Life	Rated Range*	Temperature	Radio Frequency	RF Power	Antenna	Dimensions	Weight
Wireless Foot Control System (300429)	Foot control (transmitter)	Three AA batteries	250 hours	90 ft. (27.4 m)	-13° to +158°F (-25° to +70°C)	2.4 Ghz (ISM band)	<3 mW	Internal	H: 6 in. (152 mm) W: 5.75 in. (146 mm) D: 11.5 in. (292 mm)	3 lb. (1.4 kg) w/batteries
Wireless Hand Control System (300430)	Hand control (transmitter)	Three AA batteries	250 hours	300 ft. (91 m)					H: 5 in. (127 mm) W: 2.75 in. (70 mm) D: 1.375 in. (35 mm)	0.6 lb. (0.27 kg) w/batteries

TIG Accessories (continued)

Torch and Weld Cable Connectors

Air-Cooled TIG (GTAW) Torch Connectors

273483^{1,2}

For Multimatic 200/215/220 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 255, CST, Maxstar 210/280/400, Dynasty 210/280/400 and Syncrowave 300. 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 Maxstar 210/280/400, Dynasty 210/280/400 and Syncrowave 300. Used with all Weldcraft[™] water-cooled torches.



50 mm Thread-Lock-Style 225028

For Maxstar/Dynasty 800. Used with all Weldcraft[™] water-cooled torches.



Thread-Lock-Style Weld Cable Connectors 225029

For Maxstar/Dynasty 800. Contains two male connectors that accept #1/0 to #4/0 AWG size cable.

¹Except A-200 (WP26) torches. ²A-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 feeder, 20 Series feeders, and 70 Series (except MPa Plus) 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 and 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 Invision 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, and 70 Series 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 see literature M/1.5, M/1.73 and M/1.76.



SGA 100 043856 Required to connect Spoolmate 3035 spool gun to any Millermatic 141/211. Also allows connection to virtually any similar MIG welder - Miller or other brands. Includes

10-foot (3 m) 115-volt power cable with plug, 6-foot (1.8 m) interconnecting cable, and 5-foot (1.5 m) gas hose.



SGA 100C 043857 SGA with contactor required to connect Spoolmate 3035 spool gun to CV engine drives like the Miller Bobcat. Includes 10-foot (3 m) 115-volt power cable with plug, 6-foot (1.8 m)

interconnecting cable, and 5-foot (1.5 m) gas hose.



WC-115A Weld Control 137 546 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.

Turntable Assembly

146236

Allows feeder to rotate as operator changes work position. Reduces strain and bending of gun cable.

Wire Straightener



For 20 Series and 70 Series.

141580 For .035-.045 inch (0.9-1.1 mm) wire. 141581 For 1/16-1/8 inch (1.6-3.2 mm) wire.



Engineered for Simplicity. Built for Durability.

Design the perfect MIG guns for all your welds!

Improve welding productivity by choosing the neck length and angle, handle shape and trigger style that allows welders to comfortably and efficiently reach all your welds.

Plus, longer gun life and shared parts and consumables will help to simplify inventory and minimize costs across your shop.

For additional information, please contact your local welding distributor.

To request a catalog, please call or complete our online request form.



BernardWelds.com

1-855-MIGWELD (644-9353)

Miller recommends

It's the tie that binds

SCIENCE + PEOPLE



Finding the right filler metal solution for your welding needs is critical in an industry that is about getting the job done right. Filler metals are more than just a component of weldingthey are the tie that binds science and people. The right solutions. Solutions to make our world more secure. More dynamic. More of what you need.

Every day, every project, every weld is another opportunity for Hobart to earn and secure your trust by helping you find the right filler metal solution.

That kind of help and finding your welding solutions is our passion.

Visit HobartBrothers.com for more information.

Find Your Solution. Today.

INCOME New! or **Improved!** products appear in blue type.

Α	AlumaFeed Welding System 11
	ArcReach SuitCase Feeders 18/46
	ArcReach Smart Feeder 18/46
	ArcReach Stick/TIG Remotes 46
	ArcStation
	AugmentedArc System 113
	Auto-Continuum Systems 16
B	Bernard MIG Guns25
	BTB MIG Guns25
	Dura-Flux Guns
	Fume Extraction Guns 26
	Welding Consumables25/26
	Big Blue 400 PipePro79
	Big Blue 400 Pro 78
	Big Blue 450 Duo CST 79
	Big Blue 500 Pro 80
	Big Blue 600 Series 80
	Big Blue 800 Series 81
	Blue Star 18571
	Bobcat 200 Air Pak73
	Bobcat Series
C	Continuum Systems15
V	Coolmate Coolant Systems 115
	CST 280 50
	CST 280 Racks50
D	Deltaweld Systems
	Dimension 650/650 ArcReach 41
	Diversion 180
	Dynasty 210 Series
	Dynasty 280 DX Multiprocess 40
	Dynasty 280 Series

D	Dynasty 400
F	FILTAIR 130 99 FILTAIR 4000-12000 102 FILTAIR 4000-12000 Accessories 103 101 FILTAIR Capture 5 100 FILTAIR MWX Series 100 FILTAIR SWX Series 101 Fusion 160 71
G	Gas Equipment
I	Insight ArcAgent 68/69 Insight Centerpoint 69 Insight Core 68 Intellx Feeders and Swingarc 13 Invision MPa Plus System 14
J	Jetline Fixed Automation 32
L	LiveArc System 113
Μ	Maxstar 161 S 48 Maxstar 161 STL/STH 52 Maxstar 210 STR 49 Maxstar 210 Series 54 Maxstar 280 Multiprocess 40 Maxstar 280 Series 54 Maxstar 400 56 Maxstar 800 56

M	MDX Series MIG Guns. 24 MIGmatic M-Series MIG Guns. 23 Millermatic 141 7 Millermatic 211 7 Millermatic 212 Auto-Set 8 Millermatic 252 8 Millermatic 350P 10 Millermatic 350P 10 Millermatic 215 37 Multimatic 215 37 Multimatic 220 AC/DC 38 Multimatic 255 39 PerformArc Robotic 10
	Welding Systems
	PipeWorx 400 Welding System 47
	ProHeat Induction Heating 86
S	70 Series Bench Feeders2070 Series Remote Configurations2270 Series Swingarc22Spectrum Series90Spoolmate Spool Guns27Spoolmatic Spool Guns28SubArc Digital Series82SubArc Components83/84SubArc Portable Welding System85SubArc 3-Wheel Tractor85SuitCase 12RC Feeder18Syncrowave 21053Syncrowave 30057

Т	20 Series Bench Feeders 20
	Thunderbolt 160
	Thunderbolt 210
	Tregaskiss Guns and Peripherals 34
	Fixed Automatic Guns 34
	Robotic Guns
	TOUGH GUN TT3 Reamers 35
	Welding Consumables 35
	Trailblazer Series
	Trailblazer 302 Air Pak 78
	Trailers
w	Weldcraft Series TIG Torches 58
VV	Air-Cooled Torches 59
	Automation Torches
	Specialty Torches 64
	Torch Accessories
	Tungsten 65
	Water-Cooled Torches 62
	Welding Safety and Health 99
	Apparel/Jackets 109
	Gloves
	Helmets
	Helmet Accessories 106/107/108
	Respiratory 104
	Safety Glasses 108
	Weld-Mask 108
	Wireless Remote Controls 121
Y	XMT 350 FieldPro Systems 44
Λ	XMT 450 CC/CV ArcReach 45
	XMT Racks
	XMT Series
	XR Push-Pull Guns 21/29