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Millermatic[®] 255

MIG Power Source, Wire Feeder and Gun Package



Quick Specs **Industrial Applications** General fabricators Contract welding services Plant maintenance shops Processes MIG (GMAW) Pulsed MIG (GMAW-P) Flux-cored (FCAW) Input Power Auto-Line[™] 208–240 V, single-phase Rated Output 230 A at 25.5 V, 60% duty cycle Amperage Range 20–350 A Net Weight Machine only: 84 lb. (38 kg) Machine with running gear: 148 lb. (67 kg)

Machine with running gear

Easy to Use. Versatility. Portability.



Built for professionals in the light manufacturing or fabrication segment who

want a smaller, versatile welder with intuitive setup to increase efficiencies and productivity. This 250-amp inverter welder is **easy to use** for faster uptime and performance. The **versatility** of this welder to be integrated on running gear, makes it very easy to move around a work cell or it can be quickly disconnected from the running gear enabling **portability**, making it easier to integrate into a work cell or work in confined spaces.

Machine only

Easy to Use



Quick and easy setup

Versatility



MIG, pulsed MIG, push-pull and spool gun capabilities

Portability



Easily integrates into a work cell



Welder is warranted for three years, parts and labor. Gun warranted for 90 days, parts only.

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An ITW Welding Company

1635 West Spencer Street

P.O. Box 1079



Equipment Sales US and Canada

Phone: 866-931-9730 FAX: 800-637-2315 International Phone: 920-735-4554 International FAX: 920-735-4125





Millermatic[®] 255 Features and Benefits

Easy to Use





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



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 backlit Auto-Set and Pulse buttons above the LCD display 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.

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

- Deliver more productivity by eliminating the need to manually set the parameters.
- Deliver consistent quality by welders of all skill levels by using prequalified weld settings.
- Minimize supervisor need to intervene.





Millermatic[®] 255 Features and Benefits

Versatility



Capabilities include MIG, pulsed MIG and flux-cored welding.

Compatible with push-pull MIG guns. Increases productivity by allowing the use of 12-inch wire spools versus a spool gun's 4-inch spools. Reduces downtime changing wire spools.

For portability and reliability Auto-Line[™] allows for any single-phase input voltage hookup (208–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Pulsed MIG welding delivers higher quality welds for ALL welders.

• Lower heat input for less distortion on thin materials and better puddle control on out-of-position welds.



- Less spatter minimizes post weld grinding and rework allowing more welding time.
- · Perform welding applications that couldn't be done in the past.
- · Ideal for MIG welding aluminum and stainless steel.

Best For	Standard Spray	Pulsed MIG	Short Circuit
Gap Filling	D	В	A
Low Heat Input	D	В	A
Out-of-Position Welds		A	В
Low Spatter	A	A	C
Thick Metals	A	A	D
Thin Metals		В	A
Increased Travel Speed	A	A	В
Aluminum MIG Welding	C	A	C
HOT COLD			

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.

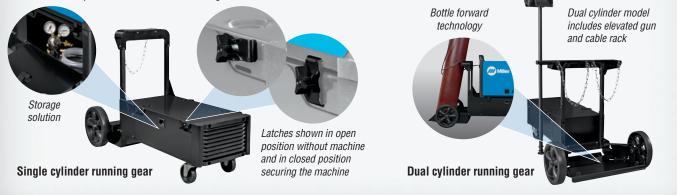
Portability



Weight is reduced by more than 50 percent compared to the Millermatic 252.

Optional EZ-Latch[™] running gear

EZ-Latch running gears are available in single cylinder and dual cylinder models (included with package or can be ordered separately). Operators no longer need to lift machine AND running gear into the truck. Latches secure machine to running gear. Simply loosen the latch retaining knob and rotate latches to disengage machine from running gear for easy portability. Cylinder racks feature bottle forward technology for increased stability when moving along an incline and running gears have built-in storage for accessories. Dual cylinder model includes an elevated gun and cable rack to keep cables off the floor and tangle free.





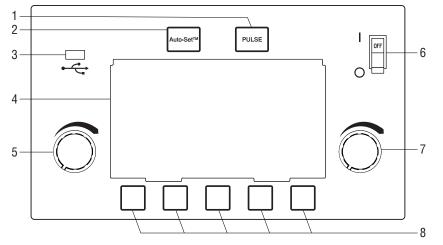
Specifications (Subject to change without notice.)



Welding Amperage Range	Rated Output	Amps I 60 Hz 208 V	nput at F 240 V	Rated O KVA	utput, KW	Wire Feed Speed	Wire Type and Diameter	Max. Open-Circuit Voltage	Dimensions	Net Weight
20-350 A	230 A at 25.5 V, 60% duty cycle	31.4	27.1	16	12.8	50-800 ipm (1.3-20.3 m/min.)	Solid/stainless steel: .023045 in. (0.6-1.2 mm) Flux-cored: .030045 in. (0.8-1.2 mm) Aluminum: .035047 in. (0.9-1.2 mm)	87 VDC	Machine only H: 19.24 in. (489 mm) W: 13.75 in. (349 mm) D: 26.25 in. (667 mm) Machine with running gear H: 32 in. (813 mm) W: 13.75 in. (349 mm) D: 45 in. (1,143 mm)	Machine only 84 lb. (38 kg) Machine with running gear 148 lb. (67 kg)

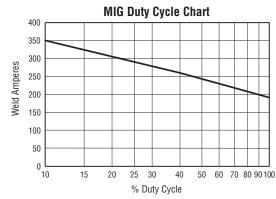
() Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Control Panel



- 1. Pulse Button
- 2. Auto-Set Button
- 3. USB Port
- 4. Color LCD Display
- 5. Left Adjustment Knob
 - (Adjusts voltage, arc length or parameter values depending on mode.)
- 6. Power Switch
- 7. Right Adjustment Knob (Adjusts wire feed speed or parameter values depending on mode.)
- 8. Soft Keys (Multiple functions depending on screen displayed.)

Performance Data





Millermatic[®] 255 Packages



Comes complete with:

- Power source with 10 ft. (3 m) power cord
- 15 ft. (4.5 m) 300-amp Bernard[®] BTB MIG Gun for .035/.045 in. (0.9/1.2 mm) wire
- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- Flow gauge regulator and gas hose for argon or AR/CO2 mix
- Extra contact tips
- .035/.045 in. (0.9/1.2 mm) reversible drive rolls
- Chain to secure gas cylinder
- Material thickness gauge



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- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
 Extra contact tips
- .035/.045 in. (0.9/1.2 mm) reversible drive rolls
- EZ-Latch[™] single-cylinder running gear
- Chain to secure gas cylinder
- Material thickness gauge

Genuine Miller® Accessories



EZ-Latch[™] Single Cylinder Running Gear 301449

Running gear with a single cylinder rack and storage compartment. Latches secure machine to cart. Simply rotate latches to disengage machine from cart for easy portability.

$\operatorname{\mathsf{EZ-Latch}^{\scriptscriptstyle {\mathbb M}}}$ Dual Cylinder Running Gear 951769

Similar to above, but with a dual cylinder rack which allows operator to easily store two gas cylinders. Includes elevated gun and cable rack (shown below) to keep cables off the floor and tangle free.



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 to easily store two gas cylinders. Gun and cable rack keeps cables off the floor and tangle free. *(Included with EZ-Latch dual cylinder running gear.)*



Protective Cover 301521 Features side pocket.

Argon/Mixed Gas Regulator and Gas Hose 195050

MIG Gun

Bernard® BTB Replacement MIG Gun Q3015AB8VMC 15 ft. (4.5 m) Industrial 300-amp MIG gun for .035/.045 in. (0.9/1.2 mm) wire.

Spool Guns



Spoolmatic[®] 15A Spool Gun 195156 Spoolmatic[®] 30A Spool Gun 130831 Ideal for aluminum welding jobs. Air-cooled, one-pound spool gun with 15-foot (4.6 m) or 30-foot (9.1 m) cable assembly. Rated at 200 amps at 100 percent duty cycle. For detailed information, see Spoolmatic literature M/1.73.



Spoolmate™ 200 Spool Gun 300497

Reliable and economical spool gun perfect for hobbyists and light fabricators who weld aluminum. Handles .030-.035 inch (0.8-0.9 mm) aluminum wires and .023-.035 inch (0.6-0.9 mm) steel/stainless steel wires. Rated at 160 amps, 60 percent duty cycle with 20-foot cable assembly. For detailed information, see Spoolmate literature M/1.47.

Optional Spoolmate[™] 200 Head Tubes

300591 45-degree head tube **300592** 9-inch extension head tube **243385** 5-inch head tube

Push-Pull Gun



XR-Aluma-Pro™ Push-Pull Gun 300000 15 ft. (4.6 m) **300001** 25 ft. (7.6 m) Air-cooled gooseneck-style gun for .030–.047 inch (0.8–1.2 mm) aluminum. Rated at 200 amps at 100 percent duty cycle.

U-Grooved Aluminum Drive Roll and Accessory Kits for XR-Aluma-Pro Push-Pull Gun

195311 .035 in. (0.9 mm) **195312** .040 in. (1 mm) **195313** .047 in. (1.2 mm) Kits include Millermatic U-grooved drive rolls, nylon wire guides and contact tips.



Consumables

For Bernard® MIG Gun

Centerfire[™] Contact Tips (10 per package)

T-023	.023 in. (0.6 mm)
T-030	.030 in. (0.8 mm)
T-035	.035 in. (0.9 mm)
T-039	.039 in. (1.0 mm) steel and for
	.035 in. (0.9 mm) aluminum
	or stainless wires or metal cored
T-045	.045 in. (1.2 mm)
T-047AL	.047 in. (1.2 mm) aluminum wire only
T-052	.052 in. (1.3 mm) steel and for
	.047 in. (1.2 mm) aluminum
	or stainless wires or metal cored

Nozzle N-5800C

Screw-on copper, 5/8 in. orifice, flush

Nozzle Insulator Cap 10012

Diffuser D-1

Large Centerfire gas diffuser

Replacement Jump Liners

QJL-2330	.023–.030 in. (0.6–0.8 mm)
QJL-3545	Std., .035045 in. (0.9-1.2 mm)
415-25	Phosphorous bronze liner for
	.047 in. (1.2 mm) aluminum wire

Replacement Liners

43015	.023–.030 in. (0.6–0.8 mm)
44115	Std., .035045 in. (0.9-1.2 mm)
415-45-03	Plastic liner for .047 in. (1.2 mm)
	aluminum wire

For Spoolmatic[®] Spool Guns and $XR^{\mathbb{M}}$ Push-Pull Guns

For Aluminum Wire

FasTip™	Contact Tips <i>(25 per package)</i>				
206186	Heavy-duty, .030 in. (0.8 mm)				
206187	Heavy-duty, .035 in. (0.9 mm)				
206188	Heavy-duty, .040 in. (1.0 mm)				
206189	Heavy-duty, 3/64 in. (1.2 mm)				
206191	Heavy-duty, 1/16 in. (1.6 mm)				
209026	Tapered, .030 in. (0.8 mm)				
209027	Tapered, .035 in. (0.9 mm)				
209029	Tapered, 3/64 in. (1.2 mm)				
206030	Tapered, 1/16 in. (1.6 mm)				
Screw-On Nozzles					
199610	Brass, 1/2 in. orifice, tapered				
199611	Brass, 3/4 in. orifice, straight				
400040					

199611 Brass, 3/4 in. orifice, straight
199612 Brass, 3/4 in. orifice, straight HD
199613 Brass, 5/8 in. orifice, tapered
199614 Brass, 5/8 in. orifice, tapered HD
199615 Copper, 1/2 in. orifice, tapered
199616 Copper, 3/4 in. orifice, straight
199617 Copper, 3/4 in. orifice, straight HD
198855 Copper, 5/8 in. orifice, tapered
199618 Copper, 5/8 in. orifice, tapered HD
207313 Copper, 5/8 in. orifice, tapered
209035 Copper, 3/8 in. orifice, tapered
209036 Copper, 1/2 in. orifice, tapered

Bernard[®] Centerfire[™] "T" Series Contact Tips

T-035AL .035 in. (0.9 mm) **T-047AL** .047 in. (1.2 mm) **T-062AL** 1/16 in. (1.6 mm)

Bernard[®] Centerfire[™] Small Nozzles

 NS-5818B
 Brass, 5/8 in. ID, 1/8 in. tip recess

 NS-1218B
 Brass, 1/2 in. ID, 1/8 in. tip recess

 NS-1218C
 Copper, 1/2 in. ID, 1/8 in. tip recess

 NS-1200B
 Brass, 1/2 in. ID, flush tip

 NST-3818B
 Brass, 3/8 in. ID, 1/8 in. tip recess

For Spoolmate[™] 200 Spool Gun

Note: Spoolmate 200 spool gun ships with (2) .030 in. and (2) .035 in. contact tips and (1) nozzle.

For Standard Heavy-Duty Head Tube

Contact Tips *(5 per package)* 199387 .030 in. (0.8 mm) 199388 .035 in. (0.9 mm)

Nozzle 050622

For Optional Head Tubes

Note: The same consumables are used on 45-degree, 5-inch, and 9-inch extension head tubes.

Contact Tips (5 per package)

 .024 in. (0.6 mm) (requires V-knurled drive roll **136135**) .030 in. (0.8 mm) .035 in. (0.9 mm)

Nozzle 186405

For Millermatic 255

Note: Machine drive roll kits include two drive rolls and an inlet guide.

V-Grooved Drive Roll Kits (solid wire) 204579 .030 and .035 in. (0.8 and 0.9 mm) combination (reversible) 087131 .024 in. (0.6 mm) 079594 .030 in. (0.8 mm) 079595 .035 in. (0.9 mm) 079596 .045 in. (1.2 mm)

V-Knurled Drive Roll Kits (flux-cored or

difficult-to-feed wire) 079606 .035 in. (0.9 mm) 079607 .045 in. (1.2 mm) 079608 .052 in. (1.3 mm)

U-Grooved Drive Roll Kits (aluminum wire) 044749 .035 in. (0.9 mm) 079599 .047 in. (1.2 mm)



Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Millermatic® 255	907734	208–240 V, 60 Hz		
Millermatic [®] 255 with Running Gear	951766	208–240 V, 60 Hz with single cylinder running gear		
Accessories				
EZ-Latch™ Single Cylinder Running Gear	301449	Running gear with single cylinder rack		
EZ-Latch™ Dual Cylinder Running Gear	951769	Running gear with dual cylinder rack and elevated gun and cable rack		
EZ-Latch [™] Dual Cylinder Rack with Elevated Gun and Cable Rack	301481	Upgrade single cylinder rack to dual (included with EZ-Latch dual cylinder running gear)		
Protective Cover	301521	Features side pocket		
Argon/Mixed Gas Regulator and Gas Hose	195050			
MIG Guns				
Bernard [®] BTB Replacement MIG Gun	Q3015AB8VMC	15 ft. (4.5 m), 300 A, .035/.045 in. (0.9/1.2 mm) wire		
Spoolmatic [®] 15A Spool Gun	195156	15 ft. (4.6 m), 200 A, .030–.047 in. (0.8–1.2 mm) for aluminum wire		
Spoolmatic [®] 30A Spool Gun	130831	30 ft. (9 m), 200 A, .030–.047 in. (0.8–1.2 mm) for aluminum wire		
Spoolmate™ 200 Spool Gun	300497	20 ft. (6 m), 160 A, .030–.035 in. (0.8–0.9 mm) for aluminum wire, .023–.035 in. (0.6–0.9 mm) for steel/stainless steel wire		
Optional Spoolmate™ 200 Head Tubes		See page 6		
		15 ft. (4.6 m), 300 A at 100% duty cycle, .030–.047 in. (0.8–1.2 mm) for alum. wire 25 ft. (7.6 m), 300 A at 100% duty cycle, .030–.047 in. (0.8–1.2 mm) for alum. wire		
Consumables				
Contact Tips		See page 7		
Replacement Liners		See page 7		
Nozzles		See page 7		
Drive Rolls		See page 7 for gun drive rolls and machine drive rolls		

Date:

Total Quoted Price:

Distributed by: