

Millermatic® 350P

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MIG Arc Welding Power Source,
Wire Feeder and Gun Package



Quick Specs

Industrial Applications

Fabrication
Maintenance and Repair
Farm
Manufacturing
Industrial

Processes

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

Rated Output 300 A at 32 VDC, 60% Duty Cycle, 60 Hz, 1- or 3-Phase Input Power

Amperage Range 25–400 A

Wire Feed Speed 50–700 IPM (1.3–18 m/min.) MIG Gun
50–800 IPM (1.3–20 m/min.) Spool Gun/Push-Pull Gun

Weight 181 lb. (82 kg)

The Power of Blue.®

Built-in Pulsed MIG programs

- .035 and .045 inch (0.9 and 1.2 mm) for mild or stainless steel.
- .035 and .047 inch (0.9 and 1.2 mm) for 4000 and 5000 series aluminum.
- .045 inch (1.2 mm) for metal core.

All programmed information is stored for MIG, push-pull and spool guns, and is restored after each power up.

Single- or three-phase input power with **line voltage compensation** for constant output even with fluctuations to the input power.

Aluminum Pulse Hot Start™

automatically provides more arc power to eliminate a “cold start” that is inherent with aluminum starts.

Superior aluminum performance .

Direct connection for optional XR™ push-pull guns or Spoolmatic® spool gun. With **Gun-On-Demand™**, simply pull the trigger for the gun to be used and you're ready to weld.

Fan-On-Demand™ cooling system only operates when needed, reducing power consumption and contaminants drawn into the machine.

Industrial, four-roll wire drive system features two easy-to-set, scaled, tension adjustments and quick-change reversible drive rolls for .035- and .045-inch (0.9 and 1.2 mm) wire.



Welds materials 22 gauge up to 1/2-inch (12.7 mm) thick.

Comes complete with:

- 15-ft. (4.6 m) Bernard® Q300 MIG gun with extra Centerfire™ contact tips
- 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
- Argon mix regulator/flow gauge and hose
- Factory-installed, low-mounted running gear/cylinder rack
- .035/.045-in. reversible V-groove drive rolls (order U-groove drive roll kits for aluminum welding)
- Set-up and operation CD

Special features

- Run-in adjustment for MIG, push-pull and spool guns.
- Built-in two-minute spot timer.
- Pre-flow and post-flow adjustment.
- View actual welding amperage/voltage during welding, and five seconds after arc has shutoff.
- SharpArc™ controls welding arc cone width in Pulsed MIG welding mode.
- Inductance control customizes weld output characteristics in MIG welding mode.

Internal timers

- **Adjustable crater** feature optimizes crater size for steel, stainless, aluminum and metal-core applications.
- **Crater time delay** allows deactivation of crater feature for tack or small welds.



Power source is warranted for 3 years, parts and labor.
Original main power rectified parts are warranted for 5 years.
Gun warranted for 90 days, parts and labor.



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Specifications (Subject to change without notice.)

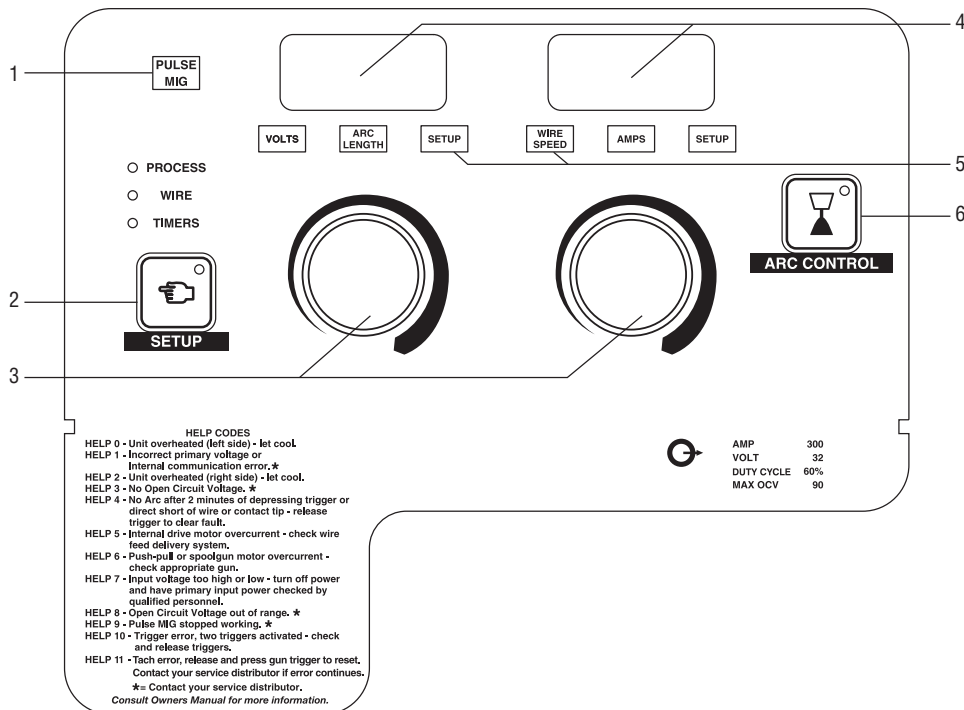


Rated Output	Amperage Range	Amps Input at Rated Output, 60 Hz					Wire Type and Diameter	Wire Feed Speed	Dimensions	Net Weight
		200 V	230 V	460 V	KVA	KW				
Three-Phase 300 A at 32 VDC, 60% Duty Cycle	25-400 A	34	30	15	11.6	11.5	Solid Steel .023-.045 in. (0.6-1.2 mm)	MIG Gun 50-700 IPM (1.3-18 m/min.)	H: 34 in. (863 mm)	181 lb. (82 kg)
Single-Phase 300 A at 32 VDC, 60% Duty Cycle		69	61	30	13.1	11.2	Aluminum .035-.047 in. (0.9-1.2 mm)	Spool Gun and Push-Pull Gun 50-800 IPM (1.3-20 m/min.)	W: 19 in. (483 mm)	
							Flux-Cored .030-.045 in. (0.8-1.2 mm)		D: 41 in. (1041 mm)	
							Metal-Cored .035-.052 in. (0.9-1.3 mm)			

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

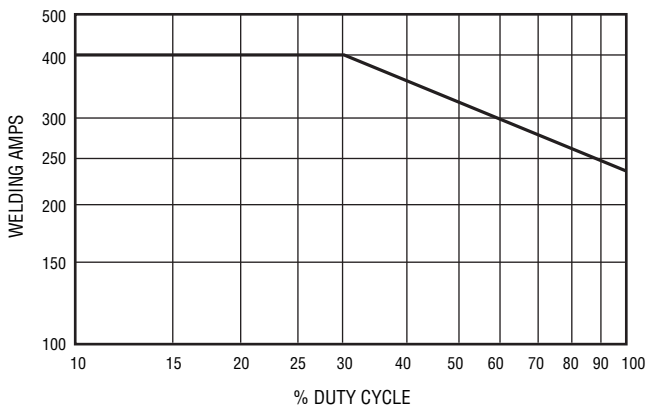
Control Panel

1. Weld Mode Indicator Lights
2. Menu Set-Up Button
3. Adjustment Knobs
4. Weld Parameter Displays
5. Weld Function Indicator Lights
6. Arc Control Button

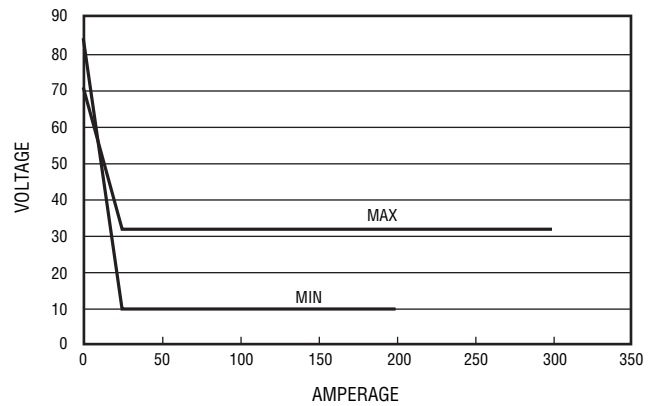


Performance Data

DUTY CYCLE CHART



VOLT/AMP CURVES



Guns

Bernard® Q300 MIG Gun #229 560

15-foot (4.6 m), 300-amp gun handles standard wire size .035–.045 inch (0.9–1.2 mm). Includes Centerfire™ contact tips.



Spoolmatic® 15A Spool Gun #195 156

Spoolmatic® 30A Spool Gun #130 831
Ideal for aluminum welding jobs. Air-cooled, 1-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, Index No. M/1.73.



XR-Aluma-Pro™ Lite Push-Pull Gun

#300 948 25 ft. (7.6 m)
Air-cooled gooseneck-style gun for .030–.047 in. (0.8–1.2 mm) aluminum. Rated at 175 amps at 60 percent duty cycle.



XR-Aluma-Pro™ Push-Pull Gun

#300 000 15 ft. (4.6 m)
#300 001 25 ft. (7.6 m)
#300 264 35 ft. (10.7 m)
Air-cooled gooseneck-style gun for .030–.047 in. (0.8–1.2 mm) aluminum. Rated at 200 amps at 100 percent duty cycle.



XR™ Pistol Push-Pull Gun

#198 127 15 ft. (4.6 m) cable
#198 128 30 ft. (9 m) cable
Air-cooled pistol grip gun for .030–.047 in. (0.8–1.2 mm) aluminum. Rated at 200 amps at 100 percent duty cycle.

U-Groove Aluminum Drive Roll and Accessory Kits for Push-Pull Guns

Note: XR-Aluma-Pro kits include Millermatic U-groove drive rolls, nylon wire guides and contact tips. XR-Pistol kits include Millermatic U-groove drive rolls, nylon wire guides, gun drive rolls and contact tips.

For XR-Aluma-Pro (air-cooled)

#195 311 .035 in. (0.9 mm)
#195 312 .040 in. (1 mm)
#195 313 .047 in. (1.2 mm)

For XR Pistol (air-cooled)

#195 201 .035 in. (0.9 mm)
#195 273 .040 in. (1 mm)
#195 202 .047 in. (1.2 mm)

Dual Cylinder Rack #195 299

Replaces single cylinder rack.

Millermatic® Protective Cover #195 142

CO₂ Regulator/Flow Gauge #212 492*

Required if using 100 percent CO₂ gas.

Power Cord Plug #213 380*

For 200- or 230-volt, single-phase application. Rated at 250 VAC/50 A NEMA-style 6-50P.

Consumables (Order from Miller Service Parts.)

For Bernard® Q300 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 core
#T-045 .045 in. (1.2 mm)
#T-052 .052 in. (1.3 mm) steel and for .047 in. (1.2 mm) aluminum or stainless wires or metal core

Nozzle #N-5800C

Screw-type copper, 5/8-inch (15.9 mm) 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 Standard
.035–.045 in. (0.9–1.2 mm)

Replacement Liners

#43015
.023–.030 in. (0.6–0.8 mm)

#44115 Standard
.035–.045 in. (0.9–1.2 mm)

Millermatic® Drive Roll Kits

Note: Drive roll kits include four drive rolls, an intermediate guide, and an inlet guide.

V-Groove Drive Roll Kits

#087 132 .023/.025 in. (0.6 mm)
#046 780 .030 in. (0.8 mm)
#046 781 .035 in. (0.9 mm)
#046 782 .045 in. (1.2 mm)
#227 061 .035/.045 in. (0.9/1.2 mm)
#046 783 .052 in. (1.3 mm)
#046 784 1/16 in. (1.6 mm)

U-Groove Drive Roll Kits

#044 750 .035 in. (0.9 mm)
#046 785 .047 in. (1.2 mm)
#046 786 .052 in. (1.3 mm)
#046 787 1/16 in. (1.6 mm)

V-Knurled Drive Roll Kits

#046 792 .035 in. (0.9 mm)
#046 793 .045 in. (1.2 mm)
#046 794 .052 in. (1.3 mm)
#046 795 1/16 in. (1.6 mm)

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Millermatic® 350P	#907 300	200/230/460 V, MIG/Pulsed MIG unit		
Guns				
Bernard® Q300 MIG Gun	#229 560	15 ft. (4.6 m), 300 A, .035–.045 in. (0.9–1.2 mm)		
Spoolmatic® 15A Spool Gun	#195 156	15 ft. (4.6 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum		
Spoolmatic® 30A Spool Gun	#130 831	30 ft. (9 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum		
XR-Aluma-Pro™ Lite Push-Pull Gun (air-cooled)	#300 948	25 ft. (7.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
XR-Aluma-Pro™ Push-Pull Gun (air-cooled)	#300 000	15 ft. (4.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
	#300 001	25 ft. (7.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
	#300 264	35 ft. (10.7 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
XR™-Pistol Push-Pull Gun (air-cooled)	#198 127	15 ft. (4.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
	#198 128	30 ft. (9 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
XR-Aluma-Pro™ U-Groove Aluminum Drive Roll Kits	#195 311	.035 (0.9 mm)		
	#195 312	.040 (1.0 mm)		
	#195 313	.047 (1.2 mm)		
XR™-Pistol U-Groove Aluminum Drive Roll Kits	#195 201	.035 (0.9 mm)		
	#195 273	.040 (1.0 mm)		
	#195 202	.047 (1.2 mm)		
Accessories				
Dual Cylinder Rack	#195 299	Field installed, replaces single cylinder rack		
Protective Cover	#195 142			
CO ₂ Regulator/Flow Gauge	#212 492	Required if using 100% CO ₂ gas (<i>Order from Miller Service Parts.</i>)		
Power Cord Plug	#213 380	For 200/230 V, single-phase. NEMA-style 6-50P (<i>Order from Miller Service Parts.</i>)		
Electrode Wire				
Shielding Gas Cylinder				
Helmet/Gloves/Scratch Brush				
Consumables (<i>Order from Miller Service Parts.</i>)				
Centerfire™ Consumables		See page 3		
Contact Tips				
Tapered Contact Tips				
Contact Tip Adapter				
Replacement Liners				
Nozzles				
Tapered Nozzles				
Drive Rolls				

Date:

Total Quoted Price:



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