

Millermatic® 350P

**MIG 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

Net Weight 181 lb. (82 kg)

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.

EXCLUSIVE! Auto-Gun Detect™

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

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
- 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 roll kits for aluminum welding)

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.

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.



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.



Miller Electric Mfg. Co.
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com



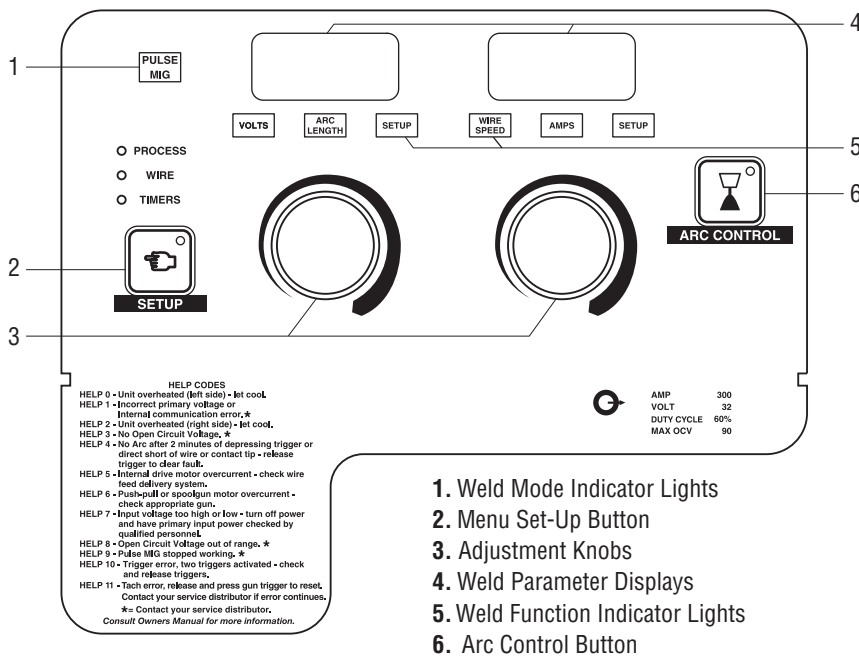
Specifications (Subject to change without notice.)



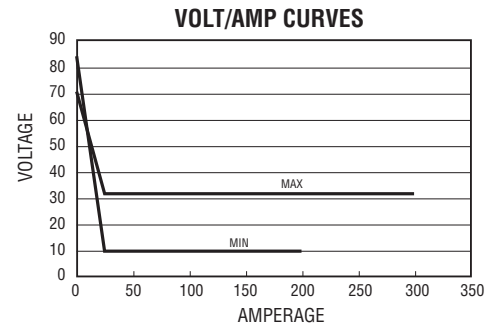
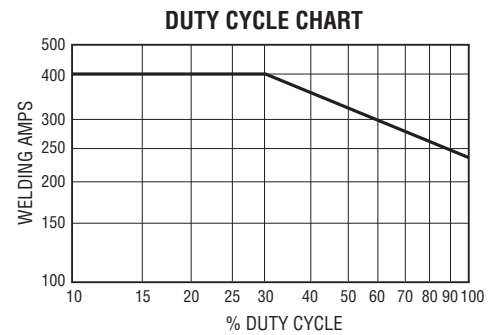
Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 60 Hz				Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight	
			200 V	230 V	460 V	KVA					KW
3-Phase	25–400 A	300 A at 32 VDC, 60% duty cycle	34	30	15	11.6	11.5	MIG Gun 50–700 IPM (1.3–18 m/min.) Optional Spool Gun and Push-Pull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

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

Control Panel



Performance Data



Autobody Aluminum Repair System



Millermatic® 350P Autobody Aluminum Repair System

#907 300 002 200/230/460 V

The ideal autobody welding package for *aluminum* and steel repair.

Comes complete with:

- Millermatic 350P power source
- 12-ft. (3.7 m) Bernard™ Q200 aluminum MIG gun
- .047-in (1.2 mm) aluminum Centerfire™ contact tips (#T-047AL)
- .047-in (1.2 mm) U-groove drive rolls
- 8-in. (203 mm), 6-lb. (2.7 kg) spool of Hobart® .047-in (1.2 mm) 5554 aluminum wire

Guns

Bernard™ Q300 MIG Gun #229 560
15-foot (4.6 m) 300-amp gun handles .035–.045 inch (0.9–1.2 mm) standard wire. Includes Centerfire™ contact tips.

Bernard™ Q200 Aluminum MIG Gun — Contact Bernard Sales
12-foot (3.7 m) 200-amp gun with plastic liner and 30-degree head tube with phosphorous bronze head tube liner. Handles .047-inch (1.2 mm) aluminum wire. Includes #T-047AL 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 inch (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 inch (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 inch (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™ MIG Guns

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-047AL .047 in. (1.2 mm) for aluminum wire only
#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)
#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 Standard .035–.045 in. (0.9–1.2 mm)
#415-45-03 Plastic liner for .047 in. (1.2 mm) aluminum wire

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

Power Source and Options	Stock No.	Description	Qty.	Price
Millermatic® 350P	#907 300	200/230/460 V, MIG/Pulsed MIG unit		
Millermatic® 350P Autobody Aluminum Repair System	#907 300 002	200/230/460 V, MIG/Pulsed MIG unit for <i>aluminum</i> and steel repair. See page 2 for package contents		
Guns				
Bernard™ Q300 MIG Gun	#229 560	15 ft. (4.6 m), 300 A, .035–.045 in. (0.9–1.2 mm)		
Bernard™ Q200 Aluminum MIG Gun		Contact Bernard Sales		
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 in. (0.9 mm)		
	#195 312	.040 in. (1.0 mm)		
	#195 313	.047 in. (1.2 mm)		
XR™-Pistol U-Groove Aluminum Drive Roll Kits	#195 201	.035 in. (0.9 mm)		
	#195 273	.040 in. (1.0 mm)		
	#195 202	.047 in. (1.2 mm)		
Accessories				
Dual Cylinder Rack	#195 299	Field installed, replaces single cylinder rack		
Protective Cover	#195 142			
Electrode Wire				
Shielding Gas Cylinder				
Helmet/Gloves/Scratch Brush				
Available Through Miller Service Parts				
CO ₂ Regulator/Flow Gauge	#212 492	Required if using 100% CO ₂ gas		
Power Cord Plug	#213 380	For 200/230 V, single-phase. NEMA-style 6-50P		
Contact Tips				
Tapered Contact Tips				
Contact Tip Adapter				
Replacement Liners				
Nozzles				
Tapered Nozzles				
Drive Rolls				

Date:

Total Quoted Price:

Distributed by:

