

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,
1- or 3-phase input power, 60 Hz

Amperage Range 25–400 A

Wire Feed Speed

50–700 ipm (1.3–17.8 m/min.) with MIG gun
50–800 ipm (1.3–20 m/min.) with 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 from 22 gauge up to 1/2-inch (12.7 mm) thick.



Welder is warrantied for three years, parts and labor.
Original main power rectifier parts are warrantied for five years.
Gun warrantied for 90 days, parts only.

Comes complete with:

- 15 ft. (4.6 m) Bernard® BTB Gun 300 A with extra 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 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.



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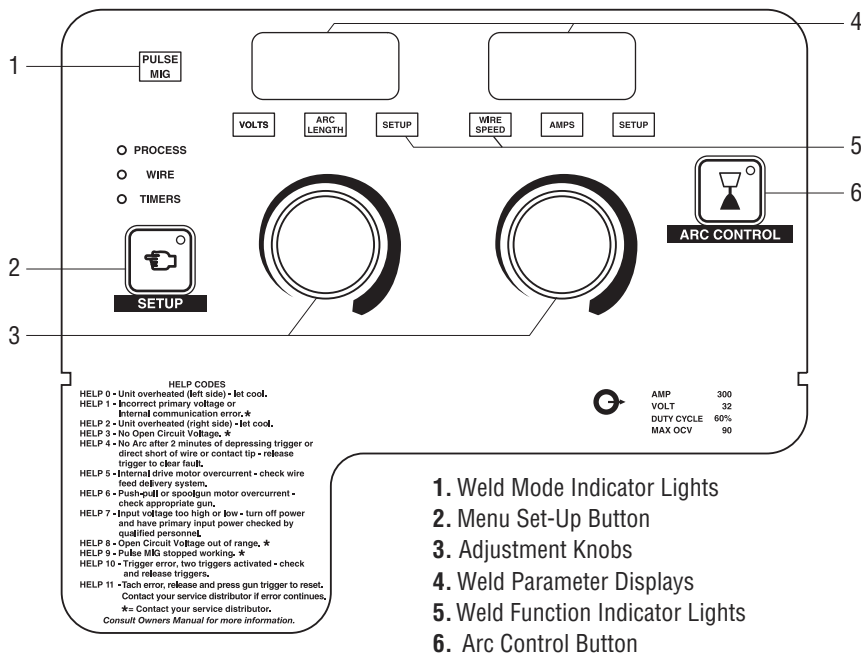
Specifications (Subject to change without notice.)



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 (1.3–17.8 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) Metal-cored .035–.052 in. (0.9–1.3 mm) Flux-cored .030–.052 in. (0.8–1.3 mm)	H: 34 in. (863 mm) W: 19 in. (483 mm) D: 41 in. (1,041 mm)	181 lb. (82 kg)
1-phase			69	61	30	13.1	11.2				

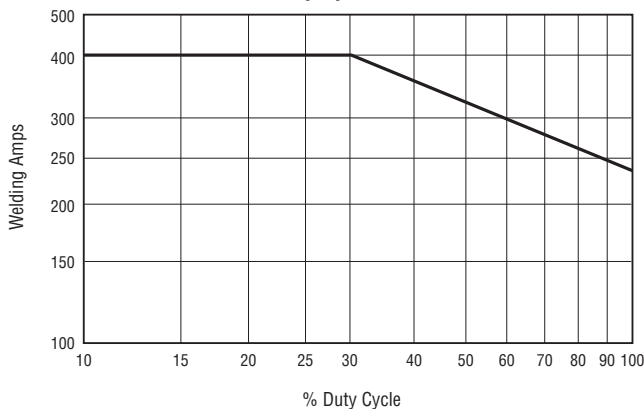
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Control Panel

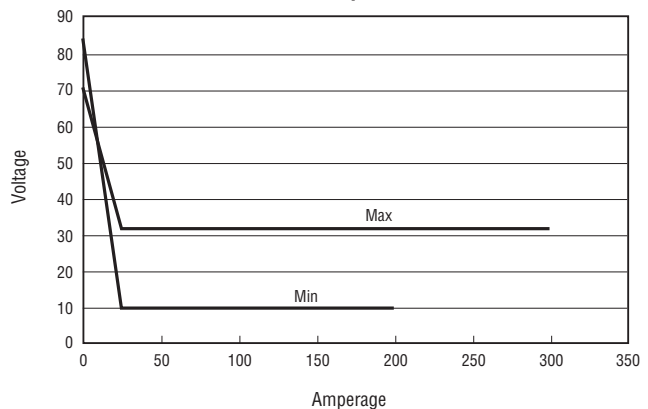


Performance Data

Duty Cycle Chart



Volt/Amp Curve



Genuine Miller® Accessories

Guns

Bernard® BTB Replacement MIG Gun Q3015AB8VMC 15 ft. (4.6 m)
Industrial 300-amp MIG gun for .035/.045 in. (0.9/1.2 mm) wire.

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 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 m) cable assembly. Rated at 200 amps at 100 percent duty cycle. For detailed information, see Spoolmatic literature M/1.73.



XR-Aluma-Pro™ Push-Pull Gun
301568 15 ft. (4.6 m)
301569 25 ft. (7.6 m)
301570 35 ft. (10.6 m)
Air-cooled gooseneck-style gun for .030–.047 inch (0.8–1.2 mm) aluminum. Rated at 300 amps at 100 percent duty cycle.



XR-Aluma-Pro™ Lite Push-Pull Gun
300948 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™ Pistol Push-Pull Gun
198127 15 ft. (4.6 m) cable
198128 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-Grooved Aluminum Drive Roll and Accessory Kits for XR-Aluma-Pro Push-Pull Guns

Note: XR-Aluma-Pro kits include Millermatic U-grooved 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)

195311 .035 in. (0.9 mm)

195313 .047 in. (1.2 mm)

For XR-Pistol (air-cooled)

195201 .035 in. (0.9 mm)

195202 .047 in. (1.2 mm)

Dual Cylinder Rack 195299

Replaces single cylinder rack.



Millermatic® Protective Cover 195142

CO₂ Regulator/Flow Gauge 212492

Required if using 100 percent CO₂ gas.

Power Cord Plug 213380

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

Consumables

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 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., .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 Std., .035–.045 in. (0.9–1.2 mm)

415-45-03 Plastic liner for .047 in. (1.2 mm) aluminum wire

For Millermatic® 350P

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

V-Grooved Drive Roll Kits (solid wire)

087132 .023/.025 in. (0.6 mm)

046780 .030 in. (0.8 mm)

046781 .035 in. (0.9 mm)

046782 .045 in. (1.2 mm)

227061 .035/.045 in. (0.9/1.2 mm)

046783 .052 in. (1.3 mm)

046784 1/16 in. (1.6 mm)

U-Grooved Drive Roll Kits (aluminum wire)

044750 .035 in. (0.9 mm)

046785 .047 in. (1.2 mm)

046786 .052 in. (1.3 mm)

046787 1/16 in. (1.6 mm)

V-Knurled Drive Roll Kits

(flux-cored or difficult-to-feed wire)

046792 .035 in. (0.9 mm)

046793 .045 in. (1.2 mm)

046794 .052 in. (1.3 mm)

046795 1/16 in. (1.6 mm)

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
Millermatic® 350P	907300	200/230/460 V, MIG/pulsed MIG unit		
Guns				
Bernard® BTB Replacement MIG Gun	Q3015AB8VMC	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	195156	15 ft. (4.6 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum		
Spoolmatic® 30A Spool Gun	130831	30 ft. (9 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum		
XR-Aluma-Pro™ Push-Pull Gun (air-cooled)	301568 301569 301570	15 ft. (4.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum 25 ft. (7.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum 35 ft. (10.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
XR-Aluma-Pro™ Lite Push-Pull Gun (air-cooled)	300948	25 ft. (7.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum		
XR™-Pistol Push-Pull Gun (air-cooled)	198127 198128	15 ft. (4.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum 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	195311 195313	.035 in. (0.9 mm) .047 in. (1.2 mm)		
XR™-Pistol U-Groove Aluminum Drive Roll Kits	195201 195202	.035 in. (0.9 mm) .047 in. (1.2 mm)		
Accessories				
Dual Cylinder Rack	195299	Field installed, replaces single cylinder rack		
Protective Cover	195142			
CO ₂ Regulator/Flow Gauge	212492	Required if using 100% CO ₂ gas		
Power Cord Plug	213380	For 200/230 V, single-phase. NEMA-style 6-50P		
Consumables				
Contact Tips				
Tapered Contact Tips				
Contact Tip Adapter				
Replacement Liners				
Nozzles				
Tapered Nozzles				
Drive Rolls				

Date:

Total Quoted Price:

Distributed by:

