

# 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.**

**TRUE BLUE®**  
3YR. WARRANTY

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/CO<sub>2</sub> 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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### MillerWelds.com



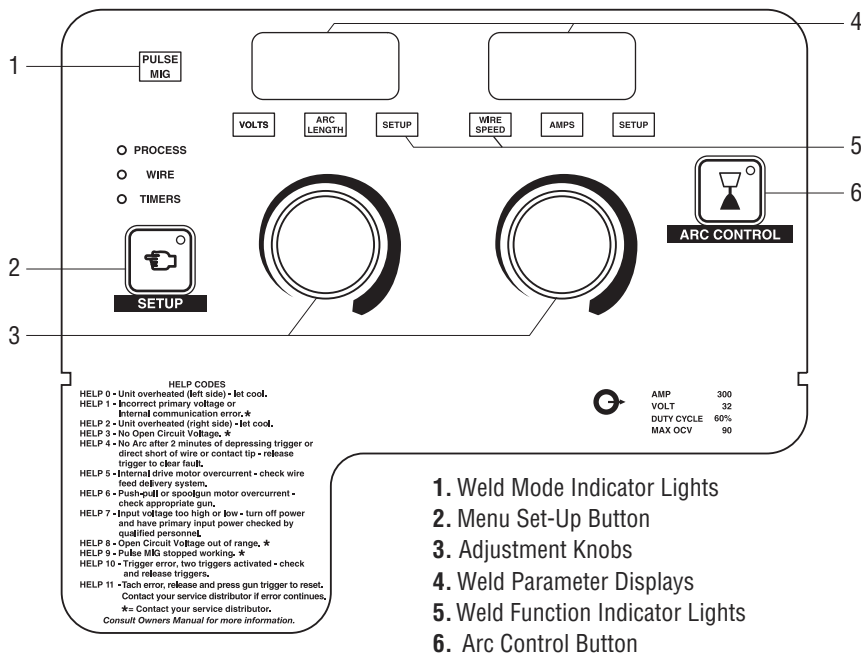
# Specifications (Subject to change without notice.)



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	<b>MIG gun</b> 50–700 ipm (1.3–17.8 m/min.) <b>Optional spool gun and push-pull gun</b> 50–800 ipm (1.3–20 m/min.)	<b>Solid steel</b> .023–.045 in. (0.6–1.2 mm) <b>Stainless</b> .030–.045 in. (0.8–1.2 mm) <b>Aluminum</b> .035–.047 in. (0.9–1.2 mm) <b>Metal-cored</b> .035–.052 in. (0.9–1.3 mm) <b>Flux-cored</b> .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				

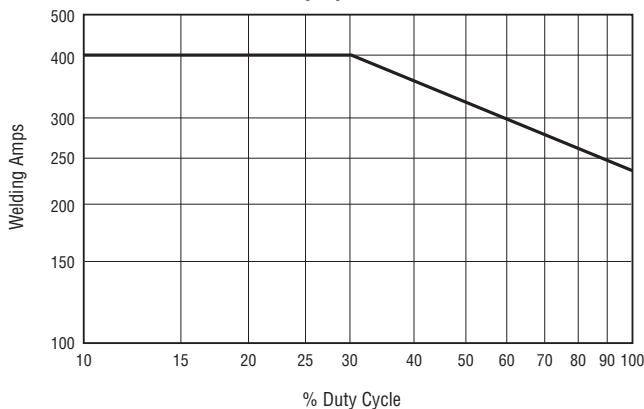
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## Control Panel

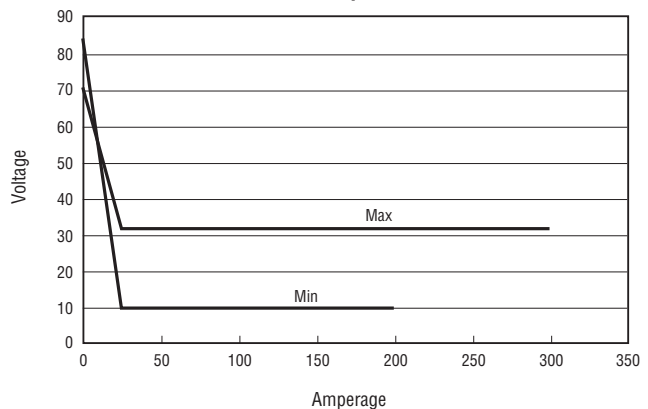


## Performance Data

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

#### CO<sub>2</sub> Regulator/Flow Gauge 212492

Required if using 100 percent CO<sub>2</sub> 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
<b>Millermatic® 350P</b>	<b>907300</b>	200/230/460 V, MIG/pulsed MIG unit		
<b>Guns</b>				
Bernard® BTB Replacement MIG Gun	<b>Q3015AB8VMC</b>	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	<b>195156</b>	15 ft. (4.6 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum		
Spoolmatic® 30A Spool Gun	<b>130831</b>	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)	<b>301568</b> <b>301569</b> <b>301570</b>	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)	<b>300948</b>	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)	<b>198127</b> <b>198128</b>	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	<b>195311</b> <b>195313</b>	.035 in. (0.9 mm) .047 in. (1.2 mm)		
XR™-Pistol U-Groove Aluminum Drive Roll Kits	<b>195201</b> <b>195202</b>	.035 in. (0.9 mm) .047 in. (1.2 mm)		
<b>Accessories</b>				
Dual Cylinder Rack	<b>195299</b>	Field installed, replaces single cylinder rack		
Protective Cover	<b>195142</b>			
CO <sub>2</sub> Regulator/Flow Gauge	<b>212492</b>	Required if using 100% CO <sub>2</sub> gas		
Power Cord Plug	<b>213380</b>	For 200/230 V, single-phase. NEMA-style 6-50P		
<b>Consumables</b>				
Contact Tips				
Tapered Contact Tips				
Contact Tip Adapter				
Replacement Liners				
Nozzles				
Tapered Nozzles				
Drive Rolls				

Date:

Total Quoted Price:

Distributed by:

