

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.



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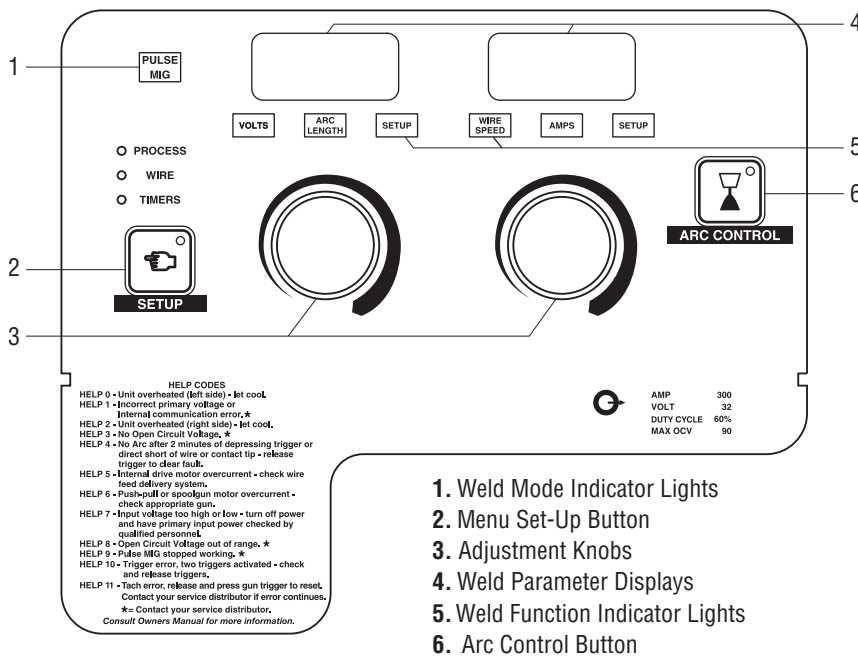
Specifications (Subject to change without notice.)



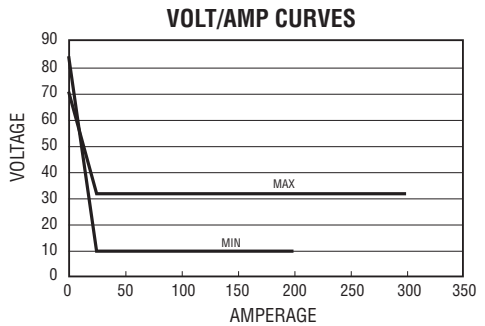
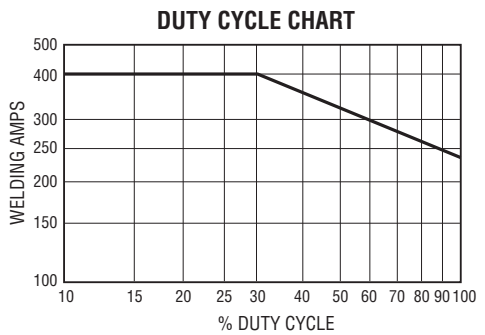
| Input Power | Amperage Range | Rated Output | Amps Input at Rated Output, 60 Hz | | | | Wire Feed Speed | Wire Type and Diameter | Dimensions | Net Weight | |
|-------------|----------------|---------------------------------|-----------------------------------|-------|-------|------|-----------------|---|--|--|--------------------|
| | | | 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 (1.3–18 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 |
|--|--------------|---|------|-------|
| Miller [®] 350P | #907 300 | 200/230/460 V, MIG/Pulsed MIG unit | | |
| Miller [®] 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:

