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.

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.
Specifications (Subject to change without notice.)

## 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

<table>
<thead>
<tr>
<th>Duty Cycle (%)</th>
<th>Welding Amps</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>500</td>
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<tr>
<td>20</td>
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<td>90</td>
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### VOLT/AMP CURVES

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<tr>
<th>Voltage (V)</th>
<th>Ampere (A)</th>
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<tr>
<td>90</td>
<td>90</td>
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<tr>
<td>80</td>
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<td>20</td>
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<td>10</td>
<td>10</td>
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</table>

## 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

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**Certified by Canadian Standards Association to both the Canadian and U.S. Standards.**
Genuine Miller® Accessories

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.

*Order from Miller Service Parts.

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
#046 789 .035 in. (0.9 mm)
#046 790 .045 in. (1.2 mm)
#046 791 .052 in. (1.3 mm)
#046 795 1/16 in. (1.6 mm)
### Power Source and Options

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>907 300</td>
<td>200/230/460 V, MIG/Pulsed MIG unit</td>
</tr>
<tr>
<td>907 300 002</td>
<td>200/230/460 V, MIG/Pulsed MIG unit for aluminum and steel repair. See page 2 for package contents</td>
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### Guns

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<th>Stock No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>229 560</td>
<td>15 ft. (4.6 m), 300 A, .035–.045 in. (0.9–1.2 mm)</td>
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<tr>
<td>229 560</td>
<td>Contact Bernard Sales</td>
</tr>
<tr>
<td>195 156</td>
<td>15 ft. (4.6 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>130 831</td>
<td>30 ft. (9 m), 200 A, .023–1/16 in. (0.6–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>300 948</td>
<td>25 ft. (7.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>300 000</td>
<td>15 ft. (4.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>300 001</td>
<td>25 ft. (7.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>300 264</td>
<td>35 ft. (10.7 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>198 127</td>
<td>15 ft. (4.6 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>198 128</td>
<td>30 ft. (9 m), 200 A, .030–1/16 in. (0.8–1.6 mm) for aluminum</td>
</tr>
<tr>
<td>195 311</td>
<td>.035 in. (0.9 mm)</td>
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<tr>
<td>195 312</td>
<td>.040 in. (1.0 mm)</td>
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<tr>
<td>195 313</td>
<td>.047 in. (1.2 mm)</td>
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<tr>
<td>195 201</td>
<td>.035 in. (0.9 mm)</td>
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<tr>
<td>195 273</td>
<td>.040 in. (1.0 mm)</td>
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<td>195 202</td>
<td>.047 in. (1.2 mm)</td>
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### Accessories

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<tr>
<th>Stock No.</th>
<th>Description</th>
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<td>195 299</td>
<td>Field installed, replaces single cylinder rack</td>
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<td>195 142</td>
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### Available Through Miller Service Parts

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<tr>
<th>Stock No.</th>
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<tr>
<td>212 492</td>
<td>Required if using 100% CO₂ gas</td>
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<tr>
<td>213 380</td>
<td>For 200/230 V, single-phase. NEMA-style 6-50P</td>
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**Date:**

**Total Quoted Price:**