Millermatic 350P Aluminum .

MIG Welding Power Source, Wire Feeder and Gun Package



Quick Specs

Industrial Applications

Boat, Ship and Yacht Building Recreational Vehicles Trucks and Trailer Sign Manufacturers Emergency Vehicles

Processes

MIG (GMAW) Synergic MIG (GMAW) Synergic Pulsed MIG (GMAW-P) **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 50-800 IPM (1.3-20 m/min.) with Push-Pull Gun

Weight 181 lb. (82 kg)

The Power of Blue®

Superior aluminum performance.

Direct connection for Miller 10-pin XR-Aluma-Pro™ and XR™ Pistol Grip air-cooled push-pull guns. With **Auto Gun Detect**, simply pull the trigger for the gun to be used and you're ready to weld.

Note: Not compatible with standard MIG guns.

NEW! True torque feed motor push-pull design provides continuous push force to the wire while the



gun motor controls the speed at the gun.
The motors work together to provide
accurate and positive wire feed speed
without wire shaving or deformation.

Synergic pulsed welding mode offers the simplicity of single-knob control. The machine will select the correct pulse power based on the wire feed speed (WFS) set by the operator.

NEW! Synergic MIG provides communication between power source, feeder and gun. As wire speed increases/decreases, the arc voltage also increases/decreases to maintain a constant welding arc.

NEW! Trigger schedule select (SCHD)

allows the operator to select the alternative schedule by quickly tapping the gun trigger when not welding. Useful when switching between two welding parameters is needed.



NEW! Trigger hold allows the operator to release the trigger while making long continuous welds, reducing hand and finger fatigue.

NEW! Jog and purge allow operator to jog the wire, or purge gas lines and preset gas pressure at the regulator before welding.



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.

Standard System Comes Complete with:

- Power source
- 10-ft. (3 m) industrial power cord (without plug)
- 10-ft. (3 m) work cable with clamp
- Factory-installed gas solenoid
- Smith® Argon mix regulator/flow gauge with hose
- Factory-installed, low-mounted running gear/cylinder rack
- .035-, .040-, and .047-in. (0.9, 1.0 and 1.2 mm) U-groove drive rolls for aluminum welding
- Setup and operation CD

Special features

- · Run-in adjustment for better starts
- 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

Fan-On-Demand™ cooling only operates when needed, reducing power consumption and contaminants inside the unit.



Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 West Spencer Street Appleton, WI 54914 USA

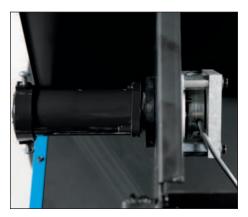
Equipment Sales US and Canada

Phone: 866-931-9730 FAX: 800-637-2315 International Phone: 920-735-4554 International FAX: 920-735-4125 Website

MillerWelds.com



Millermatic® 350P Aluminum Push-Pull Gun System Additional Features



Electronic wire spool brake. Allows wire spool to free spool while welding which provides optimum wire feed delivery. When the gun trigger is released the brake engages, stopping the wire spool from overspooling.



Gun bushing. Improved gun connection uses a bushing that captures the power end of gun to ensure correct alignment to drive rolls and provides exceptional ruggedness and durability.





Synergic "one-knob" control. Set the wire feed speed control on the gun and the system handles the rest, greatly simplifying set-up and reducing training time. No need to travel back to the power source to change multiple parameters.

Weld Cross Section





Hot Start Off

Hot Start On

Begin and end welds with ease and confidence. Hot Start™ eliminates incomplete fusion at the beginning of a weld, a common issue with aluminum welding. Crater gradually decreases weld current at the end of a weld to eliminate crater defects. Adjustable pre- and post-flow rates ensure that the puddle always has adequate gas coverage.





SharpArc 0

SharpArc 50

SharpArc™ controls the arc in Pulsed MIG mode and gives control over the arc cone shape, puddle fluidity, and bead profile. If a gas is used other than Ar 100% (Argon), SharpArc™ can be adjusted to help customize your arc to the gas being used.











Rated Output	Amperage Range	Amps I	nput at R 230 V	ated Out _l 460 V	put, 60 H KVA	łz KW	Wire Type and Diameter	Wire Feed Speed	Dimensions	Net Weight
Three-phase 300 A at 32 V 60% Duty Cycle	25-400 A	34	30	15	11.6	11.5	Aluminum .035-, .040- and .047-in. (0.9, 1.0 and 1.2 mm)	Push-Pull Gun 50-800 IPM (1.3-20 m/min.)	H: 34 in. (863 mm) W: 19 in.	181 lb. (82 kg)
Single-phase 300 A at 32 V 60% Duty Cycle		69	61	30	13.1	11.2			(483 mm) D: 41 in. (1041 mm)	

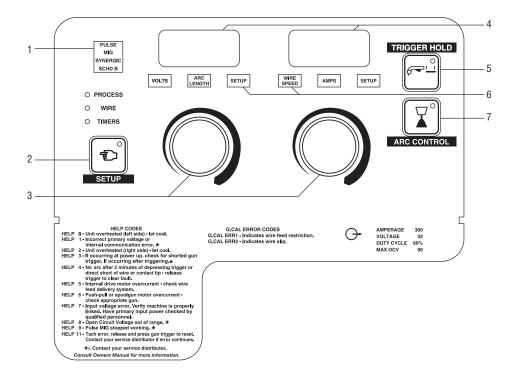


Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

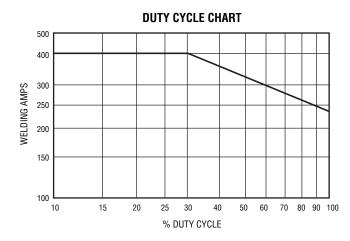


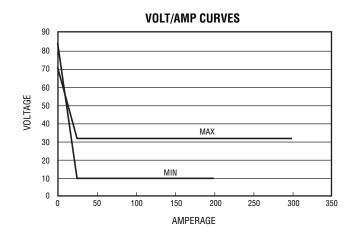
Control Panel

- 1. Weld Mode and Schedule Indicator Lights
- 2. Menu Set-Up Button
- 3. Adjustment Knobs
- 4. Displays
- 5. Trigger Hold Button
- 6. Weld Function Indicator Lights
- 7. Arc Control Button



Performance Data





Genuine Miller® Accessories

*Order from Miller Service Parts.

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 in. (0.8–1.2 mm) aluminum. Rated at 200 amps at 100% duty cycle.

XR-Aluma-Pro™ Lite Push-Pull Gun

#300 948 25 ft. (7.6 m)

Air-cooled gooseneck-style gun for .030-.047 in. (0.8-1.2 mm) aluminum. Rated at 175 amps at 60% duty cycle.

XR[™]-Pistol Pro Push-Pull Gun

#300 782 15 ft. (4.6 m)

#300 783 25 ft. (7.6 m)

Air-cooled pistol grip gun for .030–.047 in. (0.8–1.2 mm) aluminum. Rated at 200 amps at 100% duty cycle.

U-Groove Aluminum Drive Rolls for Power Source*

#194 118 .035 in. (0.9 mm)

#196 301 .040 in. (1.0 mm)

#194 119 .047 in. (1.2 mm)

Dual Cylinder Rack #195 299

Replaces single cylinder rack.

Millermatic® Protective Cover #195 142

Power Cord Plug #213 380*

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



Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Millermatic® 350P Aluminum	#907 474	200/230/460 V, standard unit (no gun)		
Millermatic® 350P Aluminum Push-Pull Gun Welding System	#951 451 #951 452 #951 453 #951 454	With 15-ft. (4.6 m) XR-Aluma-Pro air-cooled gun With 25-ft. (9 m) XR-Aluma-Pro air-cooled gun With 25-ft. (9 m) XR-Pistol Pro air-cooled gun With 25-ft. (7.6 m) XR-Aluma-Pro Lite air-cooled gun		
Push-Pull Guns				
XR-Aluma-Pro™	#300 000 #300 001 #300 264	15-ft. (4.6 m), 200 A gun for .030 – .047 in. (0.8 – 1.2 mm) aluminum 25-ft. (7.6 m), 200 A gun for .030 – .047 in. (0.8 – 1.2 mm) aluminum 35-ft. (10.7 m), 200 A gun for .030 – .047 in. (0.8 – 1.2 mm) aluminum		
XR-Aluma-Pro [™] Lite	#300 948	25-ft. (7.6 m), 175 A gun for .030 – .047 in. (0.8 – 1.2 mm) aluminum		
XR [™] -Pistol Pro	#300 782 #300 783	15-ft. (4.6 m), 200 A gun for .030 – .047 in. (0.8 – 1.2 mm) aluminum 25-ft. (7.6 m), 200 A gun for .030 – .047 in. (0.8 – 1.2 mm) aluminum		
Accessories				
U-Groove Aluminum Drive Rolls for Power Source	#194 118 #196 301 #194 119	.035 in. (0.9 mm). Order from Miller Service Parts .040 in. (1.0 mm). Order from Miller Service Parts .047 in. (1.2 mm). Order from Miller Service Parts		
Dual Cylinder Rack	#195 299	Field installed, replaces single cylinder rack		
Protective Cover	#195 142			
Power Cord Plug	#213 380	For 200/230 V, single-phase. NEMA-style 6-50P. Order from Miller Service Parts		
Electrode Wire				
Shielding Gas Cylinder				
Helmet/Gloves/Scratch Brush				
Consumables		Order from Miller Service Parts		
Contact Tips				
Tapered Contact Tips				
Contact Tip Adapter				
Replacement Liners				
Nozzles				
Tapered Nozzles				
Drive Rolls				

Date: Total Quoted Price:



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