

Miller[®]matic 300

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**MIG Arc Welding
Power Source** 

Quick Specs

Industrial Applications

Metal Fabrication
Garage/Body Shops
Farm
Ranches

Processes

MIG (GMAW)
Flux Cored (FCAW)

Rated Output 300 Amps at 32 VDC, 60% Duty Cycle
240 Amps at 32 VDC, 100% Duty Cycle

Max. Open-Circuit Voltage 40

Amperage Range 40–350 A

Wire Feed Speed 50–700 IPM (1.3–18 m/min)

Weight 277 lb (126 kg)

The Power of Blue.[®]



Consumable compartment and access to wire drive system located under side door.

Self-calibrating digital meters allow presetting of voltage and wire speed, and display actual settings for 5 seconds after you stop welding. With spool gun, wire speed meter displays actual WFS setting — a feature not available on competitive units. Meters also display a help message if the unit turns off due to overheating.



Quick-change drive rolls are easy to change and require no tools unlike the competition.

Welds materials from 22 gauge up to 1/2 in thick in a single pass.



Add the optional Roughneck C-3015 MIG gun. Roughneck guns feature rugged unicable outer jackets, four trigger leads and come with standard patented FasTip™ contact tips.



Add the optional Spoolmatic[®] 15A or 30A spool gun for aluminum welding. No extra module to buy or install. And with Miller's exclusive **Gun-On-Demand™**, simply pull the trigger for either gun and you're ready to weld. No wasted time installing modules and using toggle switches.



Comes Complete With:

- Power cord (plug not included)
- 10 ft (3 m) work cable with heavy-duty clamp
- Argon mix regulator/flow gauge and hose
- Factory-installed running gear/cylinder rack
- .035/.045 in (0.9/1.2 mm) V-grooved drive rolls
- Set-up and operation video

TRUE BLUE[®]
3YR. WARRANTY

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.

MADE IN **USA**
APPLETON, WI **USA**



Miller Electric Mfg. Co.
An Illinois Tool Works Company
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Appleton, WI 54914 USA

International Headquarters
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Canadian FAX: 920-735-4169
International FAX: 920-735-4125

Web Site
www.MillerWelds.com



Specifications (Subject to change without notice.)

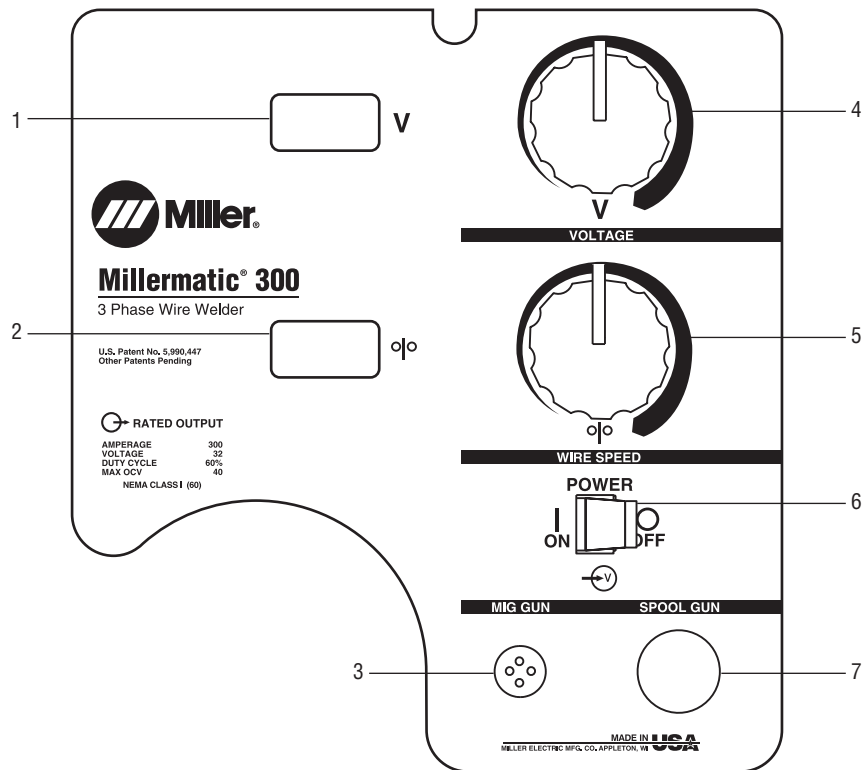


Rated Output	Max. Open-Circuit Voltage	Amps Input at Rated Output, 60 Hz					Wire Type and Diameter	Wire Feed Speed	Dimensions	Net Weight
		200 V	230 V	460 V	KVA	KW				
300 A at 32 VDC, 60% Duty Cycle 240 A at 32 VDC, 100% Duty Cycle	40	54	47	23.5	18.6	13	Solid Steel: .023–1/16 in (0.6–1.6 mm) Stainless Steel: .023–.035 in (0.6–0.9 mm) Flux Cored: .030–.052 in (0.8–1.3 mm)	50–700 IPM (1.3–18 m/min)	H: 37 in (940 mm) W: 19 in (483 mm) D: 30-1/4 in (768 mm)	277 lb (126 kg)

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

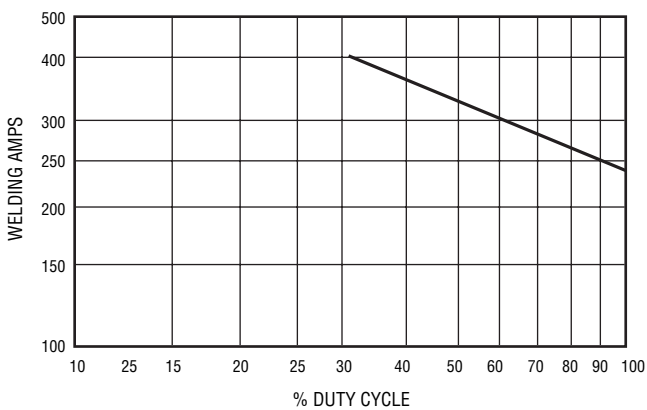
Control Panel

1. Voltmeter
2. Wire Speed Meter
3. MIG Gun Connection
4. Voltage Control
5. Wire Speed Control
6. Power Switch
7. Spool Gun Connection

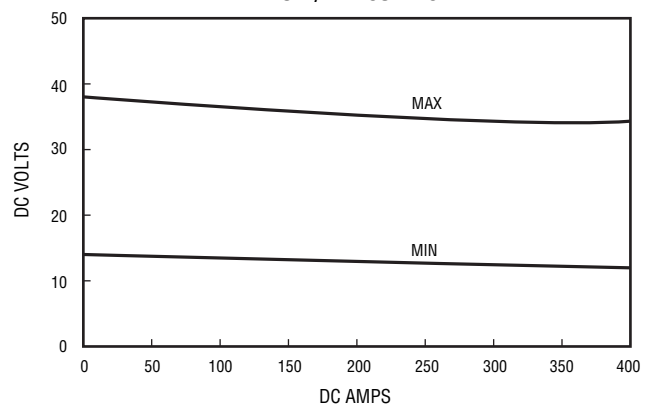


Performance Data

DUTY CYCLE CHART



VOLT/AMP CURVES



Genuine Miller Accessories

Roughneck® MIG Guns

300 A, capable of handling standard wire size .035–.045 in (0.9–1.2 mm)

C-3010 #194 751 10 ft (3 m)

C-3012 #194 752 12 ft (3.7 m)

C-3015 #194 753 15 ft (4.6 m)



Spoolmatic® 15A Spool Gun #195 156

Spoolmatic® 30A Spool Gun #130 831

Ideal for aluminum welding jobs. 200 amp, 100% duty cycle, air-cooled, 1 lb spool gun with your choice of 15 ft or (4.6 m) 30 ft (9.1 m) cable assembly. For detailed information, see Spoolmatic literature, Index No. M/1.5.



Dual Cylinder Rack #042 758

Converts single cylinder rack to a dual rack.



Millermatic® Protective Cover with Helmet Bag #195 142

CO₂ Regulator/Flow Gauge #212 492

Required if using 100% CO₂ gas.

Consumables (Order from Miller Service Parts.)

For Roughneck C-Series MIG Guns

FasTip Contact Tips (25 per package)

Standard

#206 175 .023 in (0.6 mm)

#206 176 .030 in (0.8 mm)

#206 177 .035 in (0.9 mm)

#206 179¹ .045 in (1.2 mm)

#206 180 .052 in (1.3 mm) or
3/64 in (1.2 mm) aluminum wire

#206 181 1/16 in (1.6 mm)

#206 182 .068 in (1.7 mm) or
1/16 in (1.6 mm) aluminum wire

#206 183 5/64 in (2.0 mm)

Heavy-Duty

#206 186 .035 in (0.9 mm)

#206 187 .040 in (1.0 mm)

#206 188 .045 in (1.2 mm)

#206 189 .052 in (1.3 mm) or
3/64 in (1.2 mm) aluminum wire

#206 190 1/16 in (1.6 mm)

#206 191 .068 in (1.7 mm) or
1/16 in (1.6 mm) aluminum wire

#206 192 5/64 in (2.0 mm)

#206 193 3/32 in (2.4 mm)

¹Standard on 300 amp guns

Contact Tip Adapter #206 195

Replacement Liners

#202 889 .023–.030 in

#202 890 .035–.045 in (standard)

#202 891 .052–1/16 in



Note: Flush or stickout nozzles should be used for the short-circuit process. Recessed nozzles should be used for the spray arc process.

Nozzles

#199 610
Screw-type brass, 1/2 in orifice tapered.

#199 611
Screw-type brass, 3/4 in orifice straight.

#199 612
Screw-type brass, 3/4 in orifice straight HD.

#199 613
Screw-type brass, 5/8 in orifice tapered.

#199 614
Screw-type brass, 5/8 in orifice tapered HD.

#199 615
Screw-type copper, 1/2 in orifice tapered.

#199 616
Screw-type copper, 3/4 in orifice tapered.

#199 617

Screw-type copper, 3/4 in orifice tapered HD.

#199 855²

Screw-type copper, 5/8 in orifice tapered.

²Standard on 300 amp guns

Drive Rolls

Note: Drive roll kits include two drive rolls and an inlet guide.

V-Grooved 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)

#046 783 .052 in (1.3 mm)

#046 784 1/16 in (1.6 mm)

U-Grooved Drive Roll Kits

#044 750 .035 in (0.9 mm)

#046 785 .045 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

Equipment and Options	Stock No.	Description	Qty.	Price
Millermatic® 300	#903 773	200(208)/230/460 V, 3-Phase, 60 Hz		
	#907 028	575 V, 3-Phase, 60 Hz		
	#951 010	Package, 200/230/460 V, includes Roughneck C-3015 gun		
Guns				
Roughneck C-3010 MIG gun	#194 751	10 ft (3 m), 300 A, .035-.045 in (0.9-1.2 mm)		
Roughneck C-3012 MIG gun	#194 752	12 ft (3.7 m), 300 A, .035-.045 in (0.9-1.2 mm)		
Roughneck C-3015 MIG gun	#194 753	15 ft (4.6 m), 300 A, .035-.045 in (0.9-1.2 mm)		
Spoolmatic® 15A	#195 156	Spool gun for aluminum		
Spoolmatic® 30A	#130 831	Spool gun for aluminum		
Accessories				
Dual Cylinder Rack	#042 758	Field installed		
Protective Cover with Helmet Bag	#195 142			
CO ₂ Regulator/Flow Gauge	#212 492	Required if using 100% CO ₂ gas		
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				
Spot Nozzles				
Tapered Nozzles				
Drive Rolls				

Date:

Total Quoted Price:



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