Millermatic® 211 PRO

**MIG Power Source,
Wire Feeder and Gun Package**

Quick Specs

Light Industrial Applications
Light fabrication
Maintenance and repair
Automotive
HVAC

Processes
MIG (GMAW)
Flux-cored (FCAW)

Weld Thickness
120 V: 24 ga.–3/16 in. steel
18 ga.–1/8 in. aluminum
240 V: 24 ga.–3/8 in. steel
18 ga.–3/8 in. aluminum

Input Power
120 V: 27.0 A, single-phase, 50/60 Hz
240 V: 28.9 A, single-phase, 50/60 Hz

Rated Output
120 V: 110 A at 19.5 VDC, 60% duty cycle
240 V: 160 A at 22.0 VDC, 60% duty cycle

NEW!

120 or 240 V INPUT POWER
Uses 120- or 240-volt power

WEIGHS ONLY 35 lb.
Portable

**MAX (240 V) 3/8" (9.5 mm)
MIN 24 ga. (0.8 mm)**
MIG weld capacity

AUTO-SET™ MATERIAL THICKNESS
Quick and easy setup

Includes a 15-foot (4.6 m) **MDX™-100 MIG gun** with front load liner that optimizes wire feedability.

Auto-Set™ fast and easy predefined settings for multiple materials and processes to help you get welding quickly.
- Wire/gas combinations include Flux Cored, Mild Steel with 100% CO_2, Mild Steel with C25, Stainless Steel, and Aluminum with spool gun
- Select the weld process and gas being used
- Select the wire diameter (.024, .030 or .035 in.)
- Select the material thickness you're welding
- Start welding with the exact parameters you need!

Smooth-Start™ provides a smooth, spatter-free start. It's the best-starting machine in the small MIG machine category.

Multi-voltage plug (MVP™**)** allows connection to common 120- and 240-volt power receptacles without the use of any tools — simply choose the plug that fits the receptacle and connect to the power cord.

Angled cast-aluminum drive system with calibrated tension knob creates consistent feeding and easy setup.

Quick Select™ **drive roll** makes setup quicker by offering three grooves — two for different size solid wire and a third for flux-cored wire.

Continually upgradeable. USB-enabled software allows expandable machine capabilities without requiring mechanical modifications. This ensures the investment continues to produce over time, even as needs evolve.

Auto Spool Gun Detect™ automatically detects when a MIG gun or spool gun is connected, eliminating the need for a switch.

Fan-On-Demand™ cooling system only operates when needed, reducing noise, energy use and contaminants pulled though the machine.

Uses 4- or 8-inch (102 or 203 mm) spools and can be set up to weld with .024–.035 inch (0.6–0.9 mm) solid wire and .030–.045 inch (0.8–1.2 mm) flux-cored wire.

Comes complete with:
- Power source
- 15 ft. (4.6 m) MDX™-100 MIG gun
- 15 ft. (4.6 m) work cable with clamp
- 6.5 ft. (2 m) power cord with MVP™ plugs for 120 V and 240 V
- Flow gauge regulator and gas hose for argon or AR/CO_2 mix
- Two contact tips for .030 in. (0.8 mm) wire
- Quick Select™ drive rolls for .024 in. (0.6 mm) or .030/.035 in. (0.8/0.9 mm) solid wire, and .030/.035 in. (0.8/0.9 mm) flux-cored wire
- Material thickness gauge ➤ 229895
- Hook-and-loop cord wraps

Note: Shielding gas and safety equipment not included.

TRUE BLUE® 3 YR. WARRANTY

Welder is warrantied for three years, parts and labor.
Gun warrantied for 90 days, parts only.

ISO 9001 Quality
Certified System

Operation Modes

Auto-Set™ mode
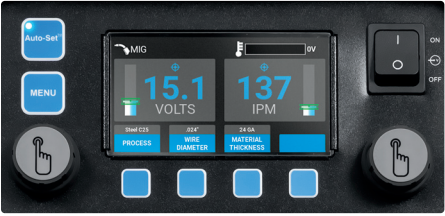
Auto-Set eliminates guesswork and saves you time on setup. Begin by pressing the Auto-Set button. The Auto-Set back-lit light indicates the mode is activated.

1. Press process soft-key.
2. Rotate left or right knob to scroll and press knob to select operating condition.
3. Repeat for wire diameter and material thickness conditions.

Auto-Set predefined weld setting ranges are infinitely adjustable — predefined welding range is identified on screen between the green brackets and ideal welding parameters are identified on screen by the green dot and blue text. Auto-Set predefined weld settings are configured for: steel material with C25 gas mixture (75% argon, 25% CO_2) and C100 (100% CO_2); stainless steel material with C2 gas mixture (98% argon, 2% CO_2); aluminum material with argon gas when using a Spoolmate™ 100 or 150.

Manual mode

When welding outside of Auto-Set capabilities, or if you prefer custom parameters, use manual mode. The parameter chart on the inside of the access door is an easy-to-use guide for determining your voltage and wire feed speed settings. To access manual mode, ensure that Auto-Set is off. Simply rotate the left knob to adjust voltage and the right knob to adjust wire feed speed.
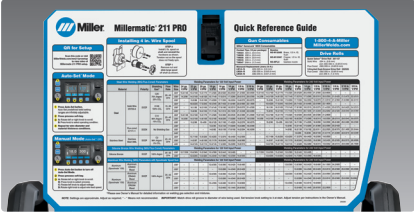
# Specifications (Subject to change without notice.)

Input Power	Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz				Wire Feed Speed	Wire Type and Diameter	Max. Open-Circuit Voltage	Dimensions	Net Weight
			120 V	240 V	KVA	KW					
120 V (NEMA 15)	30–140 A	80 A at 18 VDC, 100% duty cycle	14.7	–	1.762	1.756	60–600 ipm (1.5–15.2 m/min.)	Solid/stainless: .024–.035 in. (0.6–0.9 mm) Flux-cored: .030–.035 in. (0.8–0.9 mm)	57	H: 14.625 in. (372 mm) W: 9.75 in. (248 mm) D: 20 in. (508 mm)	35 lb. (15.9 kg)
120 V (NEMA 20)		130 A at 20.5 VDC, 40% duty cycle	27	–	3.244	3.236					
		110 A at 19.5 VDC, 60% duty cycle	21.7	–	2.611	2.605					
		90 A at 18.5 VDC, 100% duty cycle	17.02	–	2.049	2.042					
240 V (NEMA 50)	30–230 A	215 A at 24.8 VDC, 30% duty cycle	–	14.05	6.156	6.134					
		160 A at 22 VDC, 60% duty cycle	–	13.17	4.075	4.024					
		120 A at 20 VDC, 100% duty cycle	–	11.54	2.788	2.754					

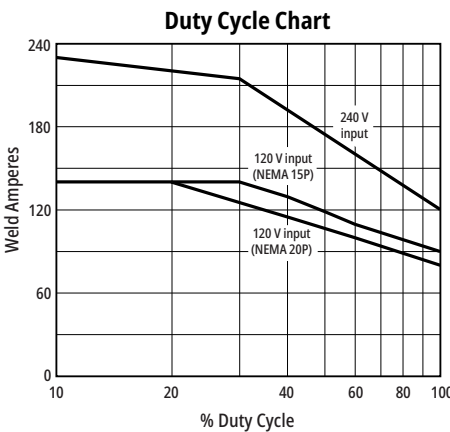*Dimensions and net weight are for power source only.* ⒸＳＡ® *Certified by Canadian Standards Association to both the Canadian and U.S. Standards.*

Control Panel
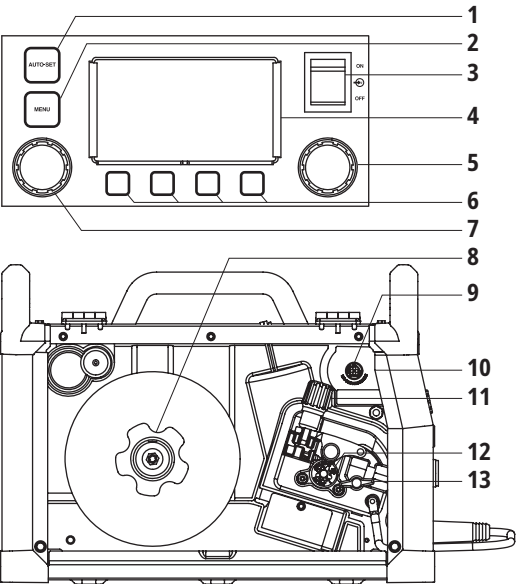
1. Auto-Set Button
2. Menu Button
3. Power On/Off Switch
4. Color LCD Display
5. Right Adjustment Knob *(adjusts wire feed speed or parameter values depending on mode)*
6. Soft Keys *(multiple functions depending on screen displayed)*
7. Left Adjustment Knob *(adjusts voltage, arc length or parameter values depending on mode)*
8. Plastic Hub with Retaining Ring for 8-inch Spools *(shaft also accepts 4-inch spools)*
9. MIG Gun Connection
10. USB Software Port *(inside to the right)*
11. Calibrated Tension Knob
12. Drive Roll
13. T-Knob *(secures torch)*

Performance Data

Duty Cycle Chart

240 V input
120 V input (NEMA 15P)
120 V input (NEMA 20P)

Weld Amperes (vertical axis: 0, 60, 120, 180, 240)
% Duty Cycle (horizontal axis: 10, 20, 40, 60, 80, 100)

Genuine Miller® Accessories

MDX™-100 MIG Gun   1770029
15 ft. (4.6 m), 100-amp MIG gun with Miller®
MDX MIG consumables for .030 – .035 in.
(0.8 – 0.9 mm) wire.
• Install contact tips with a single turn.
• Front load liner locks at front and back of gun
  to align with contact tip and power pin for a
  flawless wire feed path.
• Durable, ergonomic handle with overmolding
  improves grip and comfort.
• Ball-and-socket handle with rear swivel for
  increased gun maneuverability while reducing
  welder fatigue.

**Spoolmate™ 100
Spool Gun   300371**
Direct-connect
spool gun handles
.030 – .035 inch
(0.8 – 0.9 mm)
aluminum (4043 only)
and .023 – .035 inch
(0.6 – 0.9 mm) steel/stainless steel wires. Rated at
135 amps, 30 percent duty cycle. Includes 12-foot
(3.7 m) cable assembly and custom carrying case.

**Spoolmate™ 150
Spool Gun   301272**
Direct-connect
spool gun handles
.030 – .035 inch
(0.8 – 0.9 mm)
4000/5000 series
aluminum and .023 – .035 inch (0.6 – 0.9 mm)
steel/stainless steel wires. Rated at 150 amps,
60 percent duty cycle. Includes 20-foot (6.1 m)
cable assembly.

**Running Gear /
Cylinder Rack
301239**
Heavy-duty
construction with
8-inch rubber rear
wheels. Convenient
front handles, cable
holders and plastic
consumable box.
For gas cylinders no
greater than 7 inches (178 mm) in diameter or
65 pounds (29.5 kg) in weight.

*Purchase the Millermatic 211 PRO Welding Cart
package (951000073) and receive the Millermatic
211 PRO and running gear/cylinder rack (301239)
packaged together!*

**Dual Cylinder Rack Conversion Kit
and Tool Holder   301454**
Converts running gear/cylinder rack (301239)
from a single cylinder cart to a dual cylinder cart.
Top bracket holds a variety of tools including
a welper, adjustable wrench, screwdrivers,
chipping hammer, wire brush and filler rod.

**Protective Cover
301737**

Consumables

For MDX™-100 MIG Gun (15 ft.)

Miller® MDX MIG Gun Consumables
Smaller consumables and components to access
hard-to-reach weldments.

Contact Tips *(10 per package)*
T-M023	.023 in. (0.6 mm)
T-M030	.030 in. (0.8 mm)
T-M035	.035 in. (0.9 mm)
T-M045	.045 in. (1.2 mm)
T-M047	3/64 in. (1.2 mm)

Nozzles
NS-M1200B	Brass, 1/2 in. ID, flush
NS-M1200C	Copper, 1/2 in. ID, flush
NS-MFLX	Gasless nozzle

Diffuser   D-M100

Monocoil Replacement Liners *(15 ft.)*
LM1A-15	.023 /.025 in. (0.6 mm)
LMD2A-15	.030 /.035 in. (0.8 / 0.9 mm)
LMD3A-15	.035 /.045 in. (0.9 / 1.2 mm)

*Note: Miller® FasTip™, M-Series and Bernard
Centerfire™ diffusers and consumables are
NOT compatible with MDX Series guns.*

For Spoolmate™ 100 Spool Gun

Contact Tips *(5 per package)*
199730	.024 in. (0.6 mm)
186419	.030 in. (0.8 mm)
186406	035 in. (0.9 mm)

Nozzle   186405

For Spoolmate™ 150 Spool Gun

Contact Tips *(5 per package)*
199387	.030 in. (0.8 mm)
199388	.035 in. (0.9 mm)
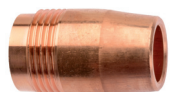
Nozzle   050622

For Both Spool Guns

Drive Roll (1)   186413
For .030/.035-inch
(0.8/0.9 mm) wire.

Push Roll (1)   186414
For .030/.035-inch
(0.8/0.9 mm) wire.

For Millermatic® 211 PRO

Quick Select™ Drive Roll   261157
For .024-inch (0.6 mm) or .030/.035-inch
(0.8/0.9 mm) solid wire, and .030/.035-inch
(0.8/0.9 mm) flux-cored wire.

V-Knurled Dual-Groove Drive Roll   202926
For .030/.035-inch (0.8/0.9 mm) or .045-inch
(1.2 mm) flux-cored wire.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Millermatic® 211 PRO	**907839**	120/240 V, 50/60 Hz		
Millermatic® 211 PRO with Welding Cart	**951000073**	Power source packaged with 301239 running gear/cylinder rack		
Guns				
MDX™-100 MIG Gun	**1770029**	15 ft. (4.6 m), .030–.035 in (0.8–0.9 mm) wire		
Spoolmate™ 100 Spool Gun	**300371**	12 ft. (3.7 m). Includes custom carrying case		
Spoolmate™ 150 Spool Gun	**301272**	20 ft. (6.1 m)		
Accessories				
Running Gear/Cylinder Rack	**301239**			
Dual Cylinder Rack Conversion Kit and Tool Holder	**301454**			
Dual Cylinder Rack Cart	**951770**	Includes running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Must be assembled together		
Protective Cover	**301737**			
Material Thickness Gauge	**229895**			
Flow Gauge Regulator for Argon or AR/CO_2 Mix	**31-50-580-6**	Replacement standard regulator		
Flow Gauge Regulator for CO_2	**31-50-320**	Required if using 100 percent CO_2 gas		
Flux-cored Wire				
Solid Wire				
Shielding Gas Cylinder				
Helmet/Gloves/Scratch Brush				
Consumables				
Contact Tips		See page 3		
Nozzles		See page 3		
Diffuser		See page 3		
Monocoil Replacement Liners		See page 3		
Drive Rolls		See page 3		

Date: **Total Quoted Price:**

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