

# 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)  
Pulsed MIG (GMAW-P)\*  
Flux-cored (FCAW)  
\*240 V only

### 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

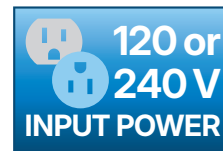
**120 V:** 27.0 A, single-phase, 50/60 Hz  
**240 V:** 28.9 A, single-phase, 50/60 Hz

### Rated Output

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

The Millermatic 211 PRO delivers professional-grade MIG, pulsed MIG, and flux-cored welding performance in a portable, powerful, and easy-to-use machine — giving you the flexibility to tackle a wide range of applications wherever the job takes you.

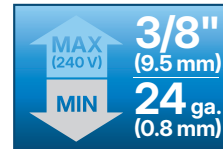
Now With  
**Pulsed MIG  
Capabilities**



Uses 120- or 240-volt power



Portable



MIG weld capacity



Quick and easy setup

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

### 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<sub>2</sub> mix
- Two contact tips for .035 in. (0.9 mm) wire
- Quick Select™ drive roll 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

- Hook-and-loop cord wraps
- Material thickness gauge ▶ 229895

Note: Shielding gas and safety equipment not included.



**TRUE BLUE**  
3YR. WARRANTY

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



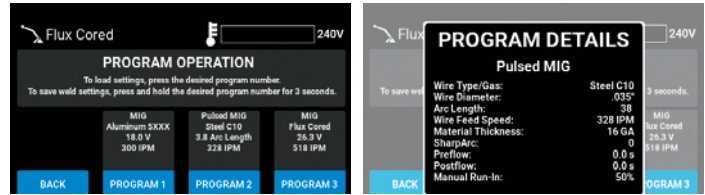
Miller Electric Mfg. LLC  
An ITW Welding Company  
1635 West Spencer Street  
P.O. Box 1079  
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada  
Phone: 866-931-9730  
International Phone: 920-735-4554

MillerWelds.com



# Millermatic® 211 PRO Features and Benefits



**Program mode** allows easy save and recall of favorite weld settings.

- Delivers greater productivity by eliminating the need to manually set or change parameters.
- Delivers consistent quality by welders of all skill levels by using prequalified weld settings.

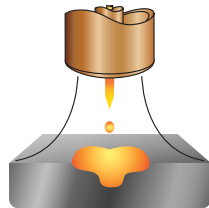
**Auto-Set™** fast and easy predefined settings for multiple materials and processes to help you get welding quickly.

- 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!

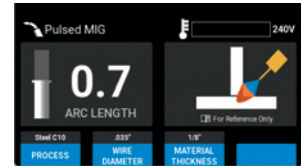
**Smooth-Start™** provides a smooth, spatter-free start. It's the best-starting machine in the small MIG machine category.

**Dyna-Pulse™.** Dynamic pulse delivers higher quality MIG welds with exceptional arc control and versatility.

- Fewer machine adjustments when transitioning between positions, joints, and wire types.
- Lower heat input for less distortion on thin materials and better puddle control on out-of-position welds.
- Minimized spatter reduces post-weld grinding and rework.
- Ideal for MIG welding applications where control and appearance matter most.



**BeadVision™** provides graphic feedback as parameters are adjusted. Users will be able to see how setting changes affect penetration and bead profile.



**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-upgradeable software allows expandable machine capabilities without requiring mechanical modifications. This ensures your 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 through 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.

BEST FOR	STANDARD SPRAY	PULSED MIG	SHORT CIRCUIT
Gap filling	D	B	A
Low heat input	D	B	A
Out-of-position welds		A	B
Low spatter	A	A	C
Thick metals	A	A	D
Thin metals		B	A
Increased travel speed	A	A	B
Aluminum MIG welding	C	A	C



**Ratings A, B, C, and D** are relative values. An "A" rating indicates a best fit between your performance needs and process. A "blank" rating indicates that the process is not recommended for that application.

# 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<sub>2</sub>) and C100 (100% CO<sub>2</sub>); stainless steel material with C2 gas mixture (98% argon, 2% CO<sub>2</sub>); 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. 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.

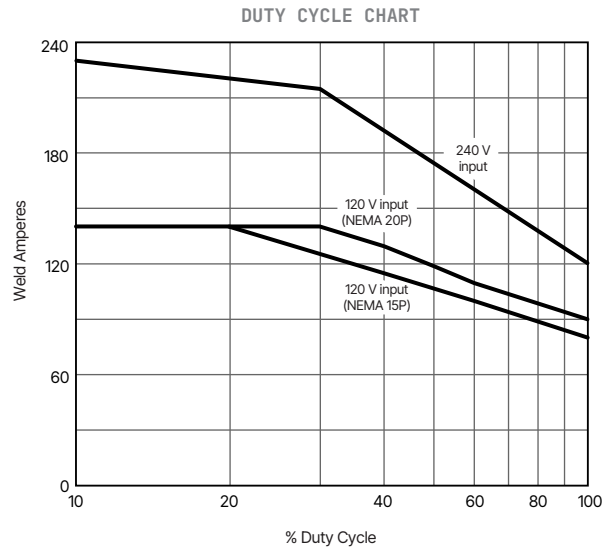
# Specifications (Subject to change without notice.)



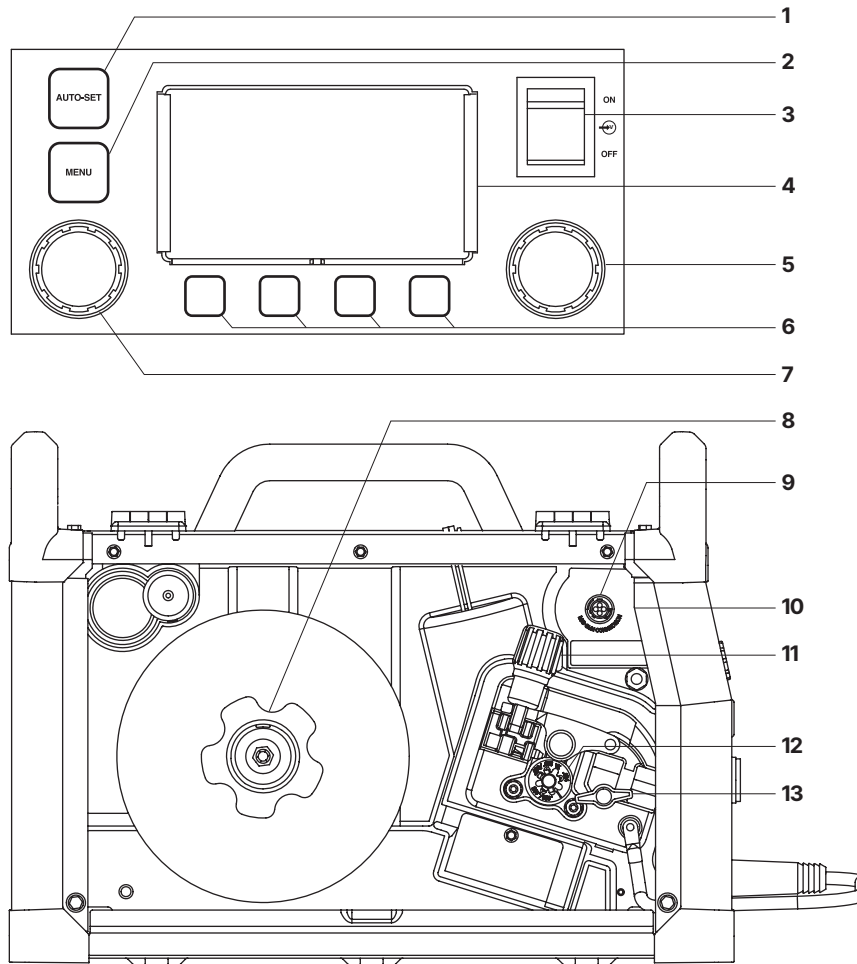
INPUT POWER	AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ				WIRE FEED SPEED	WIRE TYPE AND DIAMETER	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS*	NET WEIGHT*
			120 V	240 V	KVA	KW					
120 V (NEMA 15) 120 V (NEMA 20)	30–140 A	80 A at 18 VDC, 100% duty cycle	14.7	–	1.762	1.756	60–600 ipm (1.5–15.2 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)
		130 A at 20.5 VDC, 25% 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	–	25.65	6.156	6.134					
		160 A at 22 VDC, 60% duty cycle	–	16.76	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.  Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## Performance Data



# 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)*

# 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)!*



## 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 welder, 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)

#### 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)



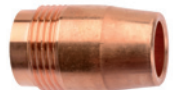
#### Nozzle 186405

### 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.

# Notes

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# Ordering Information

EQUIPMENT AND OPTIONS	STOCK NO.	DESCRIPTION	QTY.	PRICE
<b>Millermatic® 211 PRO</b>	<b>907839</b>	120/240 V, 50/60 Hz		
<b>Millermatic® 211 PRO with Welding Cart</b>	<b>951000073</b>	Includes Millermatic® 211 PRO (907839) and running gear/cylinder rack (301239)		
<b>Guns</b>				
MDX™-100 MIG Gun	<b>1770029</b>	15 ft. (4.6 m), .030-.035 in (0.8-0.9 mm) wire		
Spoolmate™ 100 Spool Gun	<b>300371</b>	12 ft. (3.7 m). Includes custom carrying case		
Spoolmate™ 150 Spool Gun	<b>301272</b>	20 ft. (6.1 m)		
<b>Accessories</b>				
Running Gear/Cylinder Rack	<b>301239</b>			
Dual Cylinder Rack Conversion Kit and Tool Holder	<b>301454</b>			
Dual Cylinder Rack Cart	<b>951770</b>	Includes running gear/cylinder rack (301239) and dual cylinder rack conversion kit (301454). Must be assembled together		
Protective Cover	<b>301737</b>			
Material Thickness Gauge	<b>229895</b>			
Flow Gauge Regulator and Gas Hose for Argon or AR/CO <sub>2</sub> Mix	<b>31-50-580-6</b>	Replacement standard regulator and gas hose		
Flow Gauge Regulator for CO <sub>2</sub>	<b>31-50-320</b>	Required if using 100 percent CO <sub>2</sub> gas		
Flux-cored Wire				
Solid Wire				
Shielding Gas Cylinder				
Helmet/Gloves/Scratch Brush				
<b>Consumables</b>				
Contact Tips		See page 6		
Nozzles		See page 6		
Diffuser		See page 6		
Monocoil Replacement Liners		See page 6		
Drive Rolls		See page 6		

DATE :

TOTAL QUOTED PRICE :

Distributed by:

