Multimatic 220 AC/DC

Quick Specs

Light Industrial Applications

Light fabrication Maintenance and repair Auto body Farm/home

Processes

MIG (GMAW) Flux-cored (FCAW) AC/DC TIG (GTAW) Pulsed TIG (GTAW-P) DC stick (SMAW) Input Power 120/240 V, 1-phase, 50/60 Hz

Amperage Range MIG: 30-230 A

AC/DC TIG: 20–210 A **DC stick:** 30–200 A

Net Weight 56 lb. (25.4 kg)

The Multimatic 220 AC/DC. It does... so you can too.

Ideal for hobbyists and small shops, the Multimatic 220 AC/DC gives you the freedom to weld any process — MIG, flux-cored, AC/DC TIG, and stick — with one portable, powerful, easy-to-use machine. Setup and switching processes are fast and easy, all while ensuring excellent arc quality using either 120- or 240-volt power.



All in One



Multiple processes with only one machine

Easy to Use



Auto polarity, process and settings



Quick and easy setup

Portable



Light enough to easily move around your garage or shop



Welder is warrantied for three years, parts and labor. Gun warrantied 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 FAX: 800-637-2315

International Phone: 920-735-4554 International FAX: 920-735-4125







Multimatic[®] 220 AC/DC Features and Benefits







Take on more projects with one machine that has MIG, AC/DC TIG, and DC stick.

MIG: 24 ga.–3/8 in. steel 18 ga.–3/8 in. aluminum

AC/DC TIG: 24 ga.–1/4 in. steel and aluminum

DC stick: 16 ga.-3/8 in. steel

The Multimatic 220 AC/DC comes equipped with all accessories to weld any process, unlike other machines where you need to purchase additional accessories.

Easy to Use



With our innovative QuickTech™ technology, setup and changing processes is even easier.

- Automatically determines the polarity. Work is always connected to the bottom right receptacle. MIG gun and TIG torch can stay connected at the same time.
- Automatically switches to the right process. Just hit the trigger or the foot control and the machine automatically changes, eliminating the need to manually change processes.
- Automatically recalls the settings from the last process used.



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

 Available for all processes (MIG, AC/DC TIG, DC stick) with the ability to fine-tune your settings.

Accu L@ck

Set weld parameters by selecting:
 MIG (shown) – wire diameter and material thickness
 AC/DC TIG – tungsten diameter and material thickness
 DC stick – electrode type, diameter and material thickness

MDX[™]-100 MIG gun with AccuLock™ MDX consumable system features a dual-locked, front-loading liner that optimizes wire feedability.

- Install AccuLock contact tips with a single turn.
- AccuLock 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.



Pro-Set* (TIG and stick manual modes)
eliminates the guesswork when setting weld
parameters. Simply adjust control until
Pro-Set appears on the display and the

RO-SET[™] number turns blue.

- AC Balance (AC TIG) controls the cleaning action (Pro-Set 75%)
- AC Frequency (AC TIG) controls the width of the arc cone (Pro-Set 120 Hz)
- Pulse (DC TIG) helps focus the arc for increased stability, penetration and travel speed (Pro-Set 100 Hz)
- DIG (Stick) lets you tailor arc characteristics for a wide range of applications (Pro-Set 30% 7018 electrodes)



Robust, angled wire drive with Quick Select™ drive roll for easily changing one wire type/diameter to another. Quick Select drive roll offers three grooves — two for different size solid wires and a third for flux-cored wire.



Two shielding gas connections so both gases can be left connected to the machine, no switching needed. One connection for MIG gas and one for TIG gas.



Easy-to-understand interface with 3.5-inch color LCD display and intuitive connection setup images.



Multimatic® 220 AC/DC Features and Benefits

Portable



Weighing only 56 pounds, the Multimatic 220 AC/DC can go where the work is, plus the added convenience of one machine versus two or more.

Optional dual cylinder rack cart

Dual cylinder rack cart offers portability while holding two gas cylinders.



Versatile



Operates on 120-volt or 240-volt power letting you work virtually anywhere. Multi-voltage plug (MVP™) easily connects to common 120-volt or 240-volt power outlets — no tools required. Choose the plug that fits the receptacle and connect it to the power cord.



Optional wireless foot control shown.

14-pin controlled operator alternatives. The standard 14-pin connector on your Multimatic 220 AC/DC lets you choose your control for a customized experience, whether it's a foot control, fingertip control, or wireless foot control.



Wide range of TIG adjustability.

- AC Balance adjustable from 60-80%
- AC Frequency adjustable from 60-150 Hz
- DC Pulse adjustable from Off–150 pulses per second (PPS)
- TIG Post-Flow adjustable from Auto 25 seconds (accessible through service menu screen 12)
- Lift-Arc[™] and high-frequency starts
- · Tungsten size selection



Multimatic® 220 AC/DC Package

Comes complete with:

- Power source
- 10 ft. (3 m) MDX[™]-100 MIG gun
- 13 ft. (4 m) cable electrode holder and 25 mm Dinse-style connector
- 12.5 ft. (3.8 m) Weldcraft™ A-150 (WP-17) TIG torch with 25 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 25 mm Dinse-style connector
- 6.5 ft. (2 m) power cord with MVP[™] plugs for 120 V and 240 V
- RFCS-14 HD foot control with 20 ft. (6 m) cord
- Two flow gauge regulators and gas hoses for argon or AR/CO2 mix
- Hobart® spool of .030 in. (0.8 mm) solid wire
- Two contact tips for .030 in. (0.8 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
- AK2C TIG torch accessory kit

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

Note: Shielding gas and safety equipment not included.



Specifications (Subject to change without notice.)







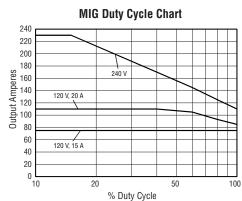
Welding Mode/ Process	Input Power	Welding Amperage Range	Rated Output	Rated	Input at Output, 240 V	50/60		Wire Feed Speed	Max. Open- Circuit Voltage	Dimensions	Net Weight
CV: MIG/ flux-cored	120 V	30-125 A	105 A at 19.2 V, 60% duty cycle	23.3	_	2.8	2.8	60-600 ipm	45 VDC	H: 17.5 in. (445 mm) W: 11.25 in. (286 mm) D: 21.5 in. (546 mm)	56 lb. (25.3 kg)
	240 V	30-230 A	200 A at 24 V, 20% duty cycle	_	27.2	4.8	4.8	(1.5–15.2 m/min.)			
			170 A at 21.5 V, 40% duty cycle	_	21.5	3.8	3.8				
CC: TIG CC: Stick*	120 V	20-140 A	130 A at 15.2 V, 40% duty cycle	24.0	_	2.9	2.9	_	46 VDC		
	240 V	20-210 A	210 A at 18.4 V, 20% duty cycle	_	22.4	5.4	5.4				
	120 V	30-90 A	90 A at 23.6 V, 40% duty cycle	24.5	_	2.9	2.9				
	240 V	30-200 A	200 A at 28.4 V, 15% duty cycle	_	31.3	7.5	7.5				

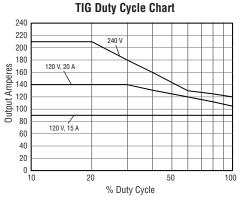
^{*}Not recommended for 6010 electrodes.

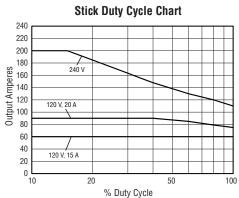


P Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Performance Data

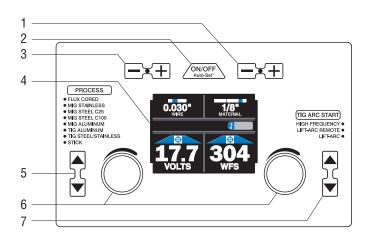








Control Panel



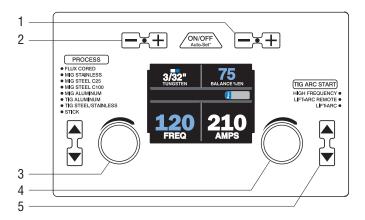
8 9 10

- 1. Material Thickness Buttons
- 2. Auto-Set™ Button
- 3. Wire/Rod/Tungsten Buttons
- 4. LCD Display Panel
- 5. Process Buttons
- 6. Adjustment Knobs
- 7. TIG Arc Start Buttons (Lift-Arc™ not available for TIG aluminum)
- **8.** Plastic Hub with Retaining Ring for 8-inch Spools (shaft also accepts 4-inch spools)
- 9. Calibrated Tension Knob
- 10. Drive Roll
- 11. Gun Securing Knob
- **12.** Four-pin Trigger Control Cable Receptacle

Note: Power switch and gas solenoid are on power source rear panel.

TIG Aluminum Manual Mode

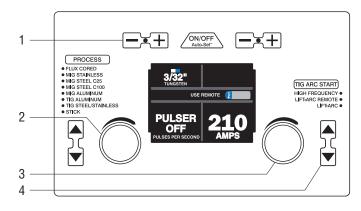
Note: Button and knob functions change in TIG manual modes from the main panel above.



- 1. Balance Adjustment Buttons (Pro-Set[™] 75%)
- 2. Tungsten Size Buttons
- 3. Frequency Adjustment Knob (Pro-Set™ 120 Hz)
- 4. Amperage Adjustment Knob
- 5. TIG Arc Start Buttons (Lift-Arc™ not available for TIG aluminum)

TIG Steel/Stainless Manual Mode

Note: Button and knob functions change in TIG manual modes from the main panel above.



- 1. Tungsten Size Buttons
- 2. Pulse Adjustment Knob (Pro-Set™ 100 PPS)
- 3. Amperage Adjustment Knob
- 4. TIG Arc Start Buttons



Genuine Miller® Accessories



MDX™-100 MIG Gun 1770028

100-amp MIG gun with Miller® AccuLock™ MDX consumables for .030-.035 in. (0.8-0.9 mm) wire. Includes 10 ft. (3 m) cable assembly.



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.



Weldcraft™ A-150 (WP-17) TIG Torch WP1712RDI25 (12.5 ft.)

150-amp air-cooled torch with 25 mm flow-through Dinse-style connector.



AK2C Accessory Kit Includes one short back cap,

one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.



TIG Torch Accessory Kit AK-150MFC

Allows welding operators to customize their standard Weldcraft™ A-150 (WP-17) TIG

torch for their specific application. Kit converts into 28 different torch styles while using the existing cable. Features nozzles, collets, collet bodies, torch heads, handle and more.



Protective Cover 301524



Dual Cylinder Rack Cart 951770

Package consists of both running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Cart features durable construction with rubber rear wheels, convenient front handles, cable holders, plastic consumable box, and dual cylinder rack with tool holder. Holds two cylinders, each gas cylinder should be no greater than 7 inches (178 mm) in diameter or 65 pounds (29.5 kg) in weight.

MVP[™] Plugs



219258

For power cable 6-50P (240 V/50 A). Included with machine.



219261

For power cable 5-15P (120 V/15 A). Included with machine.



219259

For power cable 5-20P (120 V/20 A). Optional, not included with machine.

Remote Controls



Wireless Remote Foot Control 300429

For remote current and contactor control. Receiver plugs directly

into the 14-pin receptacle of Miller machine. 90-foot (27.4 m) operating range.



RFCS-14 HD Foot Control 194744

Maximum flexibility is accomplished with a reconfigurable cord that can exit the front, back or either

side of the pedal. Foot pedal provides remote current and contactor control. Includes 20-foot (6 m) cord and 14-pin plug.



RCC-14 Remote Contactor and Current Control 151086

East/west rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) control cord and 14-pin plug.



RCCS-14 Remote Contactor and Current Control 043688

North/south rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) control cord and 14-pin plug.



Consumables

For MDX™-100 MIG Gun

Miller® AccuLock™ MDX 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 (10 ft.)

LM1A-10 .023/.025 in. (0.6 mm) **LM2A-10** .030/.035 in. (0.8/0.9 mm) **LM3A-10** .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 Multimatic® 220 AC/DC



Quick Select™ Drive Roll 261157For .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

Multimatic® 220 AC/DC 907757 120/240 V, 50/60 Hz Image: Common state of the common state of	Power Source and Options	Stock No.	Description	Qty.	Price
MDX"-100 Gun	Multimatic® 220 AC/DC	907757	120/240 V, 50/60 Hz		
Spoolmate** 100 Spool Gun 300371 12 ft. (3.7 m). Includes custom carrying case Spoolmate** 150 Spool Gun 301272 20 ft. (6.1 m) Spoolmate** 150 Spool Gun 301272 20 ft. (6.1 m) Spoolmate** 150 Spool Gun 301272 20 ft. (6.1 m) Spoolmate** 150 Spool Gun 301272 20 ft. (6.1 m) Spoolmate** 150 Spool Gun	Guns				
Spoolmate" 150 Spool Gun 301272 20 ft. (6.1 m)	MDX™-100 Gun	1770028	10 ft. (3 m), .030035 in (0.8-0.9 mm) wire		
Accessories Weldcraft** A-150 (WP-17) TIG Torch WP1712RDI25 12.5 ft. (3.8 m) cable TIG Torch Accessory Kits AK2C For use with Weldcraft** A-150 (WP-17) Torch AK-150MFC For use with Weldcraft** A-150 (WP-17) Torch Protective Cover 301524 Dual Cylinder Rack Cart 951770 Includes running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Must be assembled together MVP** Plugs See page 6 Material Thickness Gauge 229895 Replacement Screen Cover 271493 Replacement cover for LCD display panel Flow Gauge Regulator for Argon or AR/CO2 Mix Flow Gauge Regulator for CO2 31-50-320 Required if using 100 percent CO2 gas Remote Controls Wireless Remote Foot Control 300429 Foot control with wireless 90 ft. (27.4 m) operating range RFCS-14 HD 194744 Heavy-duty foot control (included with TIG kit and TIG package) RCC-14 151086 Fingertip control Consumables Contact Tips See page 7 Nozzles See page 7 Nozzles See page 7 Nonocoil Replacement Liners See page 7 Nonocoil Replacement Liners	Spoolmate™ 100 Spool Gun	300371	12 ft. (3.7 m). Includes custom carrying case		
Weldcraft** A-150 (WP-17) TIG Torch TIG Torch Accessory Kits AK2C For use with Weldcraft** A-150 (WP-17) Torch AK-150MFC For use with Weldcraft** A-150 (WP-17) Torch Protective Cover 301524 Dual Cylinder Rack Cart 951770 Includes running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Must be assembled together See page 6 Material Thickness Gauge 229895 Replacement Screen Cover Flow Gauge Regulator for Argon or AR/CO ₂ Mix Flow Gauge Regulator for CO ₂ 31-50-320 Required if using 100 percent CO ₂ gas Remote Controls Wireless Remote Foot Control 300429 Foot control with wireless 90 ft. (27.4 m) operating range RFCS-14 Bay-744 Heavy-duty foot control (included with TIG kit and TIG package) RCC-14 See page 7 Nozzles See page 7 Monocoil Replacement Liners See page 7 Monocoil Replacement Liners See page 7	Spoolmate™ 150 Spool Gun	301272	20 ft. (6.1 m)		
TIG Torch Accessory Kits AK2C For use with Weldcraft" A-150 (WP-17) Torch AK-150MFC For use with Weldcraft" A-150 (WP-17) Torch Protective Cover 301524 Dual Cylinder Rack Cart 951770 Includes running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Must be assembled together MVP" Plugs See page 6 Material Thickness Gauge 229895 Replacement Screen Cover 271493 Replacement cover for LCD display panel Flow Gauge Regulator for Argon or AR/C02 Mix Flow Gauge Regulator for CO2 31-50-320 Required if using 100 percent CO2 gas Remote Controls Wireless Remote Foot Control 300429 Foot control with wireless 90 ft. (27.4 m) operating range RFCS-14 HD 194744 Heavy-duty foot control (included with TIG kit and TIG package) RCC-14 151086 Fingertip control Consumables Contact Tips See page 7 Nozzles See page 7 Monocoil Replacement Liners See page 7 Monocoil Replacement Liners	Accessories				
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Protective Cover Dual Cylinder Rack Cart Dual Cylinder Rack Cart 951770 Includes running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Must be assembled together See page 6 Material Thickness Gauge 229895 Replacement Screen Cover 271493 Replacement cover for LCD display panel 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 Remote Controls Wireless Remote Foot Control 300429 Foot control with wireless 90 ft. (27.4 m) operating range RFCS-14 HD 194744 Heavy-duty foot control (included with TIG kit and TIG package) RCC-14 151086 Fingertip control Consumables Contact Tips See page 7 Nozzles See page 7 Monocoil Replacement Liners See page 7 See page 7	TIG Torch Accessory Kits	AK2C	For use with Weldcraft™ A-150 (WP-17) Torch		
Dual Cylinder Rack Cart 951770 Includes running gear/cylinder rack 301239 and dual cylinder rack conversion kit 301454. Must be assembled together MVP™ Plugs See page 6 Material Thickness Gauge Replacement Screen Cover 271493 Replacement cover for LCD display panel Flow Gauge Regulator for Argon or AR/CO₂ Mix 31-50-580-6 Replacement standard regulator Flow Gauge Regulator for CO₂ 31-50-320 Required if using 100 percent CO₂ gas Remote Controls Wireless Remote Foot Control 300429 Foot control with wireless 90 ft. (27.4 m) operating range RFCS-14 HD 194744 Heavy-duty foot control (included with TIG kit and TIG package) RCC-14 151086 Fingertip control RCCS-14 043688 Fingertip control Consumables Contact Tips See page 7 Nozzles See page 7 Monocoil Replacement Liners See page 7 Monocoil Replacement Liners		AK-150MFC	For use with Weldcraft™ A-150 (WP-17) Torch		
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RCC-14 151086 Fingertip control RCCS-14 043688 Fingertip control Consumables See page 7 Contact Tips See page 7 Nozzles See page 7 Diffuser See page 7 Monocoil Replacement Liners See page 7	Wireless Remote Foot Control	300429	Foot control with wireless 90 ft. (27.4 m) operating range		
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Consumables See page 7 Contact Tips See page 7 Nozzles See page 7 Diffuser See page 7 Monocoil Replacement Liners See page 7	RCC-14	151086	Fingertip control		
Contact Tips See page 7 Nozzles See page 7 Diffuser See page 7 Monocoil Replacement Liners See page 7	RCCS-14	043688	Fingertip control		
Nozzles See page 7 Diffuser See page 7 Monocoil Replacement Liners See page 7	Consumables				
Diffuser See page 7 Monocoil Replacement Liners See page 7	Contact Tips		See page 7		
Monocoil Replacement Liners See page 7	Nozzles		See page 7		
	Diffuser		See page 7		
Drive Rolls See page 7	Monocoil Replacement Liners		See page 7		
	Drive Rolls		See page 7		

Date: Total Quoted Price:

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