

MDX™ Series

**Air-Cooled MIG (GMAW)
Welding Guns**



Quick Specs

Industrial Applications

Auto body
Fabrication
Hobby
Maintenance and repair

Processes

MIG (GMAW)
Pulsed MIG (GMAW-P)
Flux-cored (FCAW)

Rated Output MDX-100: 100 A, MDX-250: 250 A

Duty Cycle 100% with CO₂ gas, 60% with mixed gas

Net Weight 2.9–7.6 lb. (1.3–3.4 kg)

The best welding gun is the one you never have to think about because it's comfortable, it's durable and it gets the job done. MDX Series MIG guns have been designed to be exactly that. The new ergonomic handle features overmolding for improved grip and a rear swivel strain relief for reduced welder fatigue. The gun's AccuLock™ consumables with dual-locked, front-loading liner ensures smooth, consistent wire-feeding for reliable operation.



Miller compatibility



Superior wire feeding



Durable, ergonomic handle



Long-life consumables



Pulse welding capable
(MDX-250/MDX-250 EZ-Select only)



Trigger program select
(MDX-250 EZ-Select only)



MDX-250 EZ-Select™



Trigger program select with LED indicators. See page 2 for details.

AccuLock™

AccuLock MDX Series consumables are available on MDX-100 and MDX-250 MIG guns.

AccuLock S Series consumables are only available on MDX-250 MIG guns.



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

MillerWelds.com



MDX™ Series Benefits



Miller compatibility

MDX-100: Millermatic® 141 and 211
Multimatic® 215 and 220 AC/DC

MDX-250: Millermatic® 252 and 255
Multimatic® 200, 235 and 255

MDX-250 EZ-Select™: Millermatic® 255
Multimatic® 255



Superior AccuLock wire-feeding

The front-loading liner is centered and locked at both ends of the gun (without the use of set screws) to ensure smooth wire delivery to the contact tip. Plus, error-proof liner trimming ensures accurate replacement every time for reduced burnbacks, bird-nests and erratic arc/wire chatter — no measuring required!



Durable, ergonomic handle

Durable handle features rubber overmolding for improved grip and rear swivel to reduce welder fatigue.



Long-life consumables

Tapered mating surfaces between the AccuLock contact tip and gas diffuser lock tips in place for maximized electrical conductivity and long tip life.



Pulse welding capable

(MDX-250/MDX-250 EZ-Select only)

Increased copper in gun cable ensures reliable performance with CV and pulse waveforms.



Trigger program select (MDX-250 EZ-Select only)

Conveniently select from up to four weld programs by tapping the MIG gun trigger rather than wasting time walking back to the machine. To help avoid errors, LED lights on the handle indicate the current program selection.

AccuLock™ Consumables

AccuLock™

AccuLock consumables for MDX Series MIG guns consist of two series:

AccuLock MDX Series:

Designed to maximize wire feedability and simplify consumables replacement.

AccuLock S Series

(MDX-250/MDX-250 EZ-Select only):

Upgrade to S Series consumables for increased durability and longer life when guns are used in more industrial applications. Upgrading also allows you to simplify your consumables inventory if you are using a mix of Miller and Bernard MIG guns in your shop.

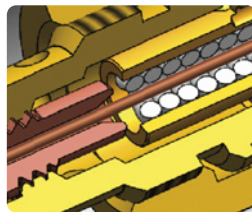


AccuLock MDX Series

AccuLock S Series



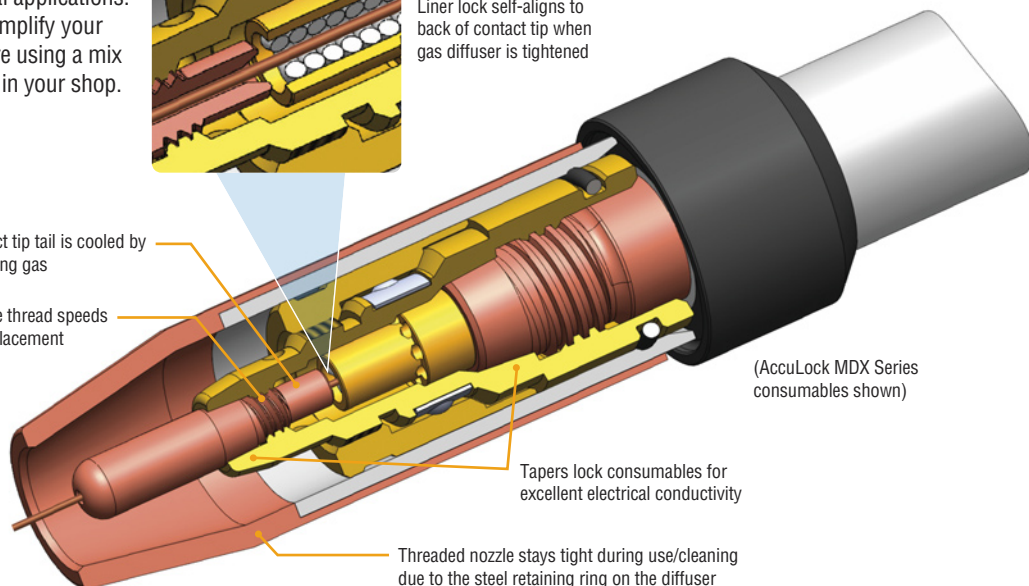
Front-loading AccuLock liner locks at front and back of gun to align with contact tip and power pin for a flawless wire-feed path (AccuLock S Series consumables shown)



Liner lock self-aligns to back of contact tip when gas diffuser is tightened

Contact tip tail is cooled by shielding gas

Coarse thread speeds tip replacement



(AccuLock MDX Series consumables shown)

Tapers lock consumables for excellent electrical conductivity

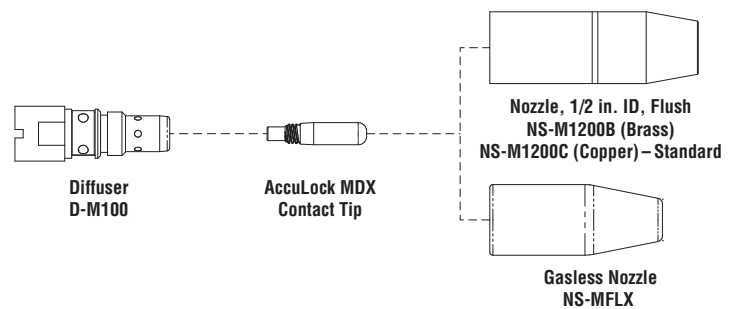
Threaded nozzle stays tight during use/cleaning due to the steel retaining ring on the diffuser

Specifications (Subject to change without notice.)

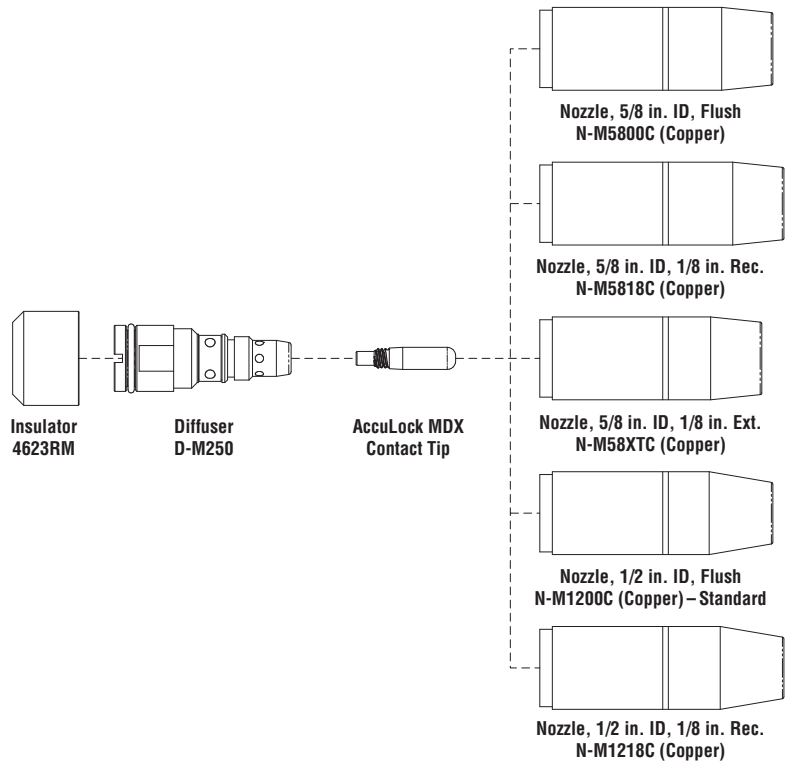
Model	Stock No.	Cable Length	Rated Output	Duty Cycle	Standard Wire Size	Standard Consumables
MDX™-100	1770028	10 ft. (3 m)	100 A	100% with CO ₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX Series
MDX™-250	1770035	10 ft. (3 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX Series
	1770036	12 ft. (3.7 m)			.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX Series
	1770037	15 ft. (4.6 m)			.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX Series
	1770038	15 ft. (4.6 m)			.035–.045 in. (0.9–1.2 mm)	AccuLock™ MDX Series
	1770041	10 ft. (3 m)			.035–.045 in. (0.9–1.2 mm)	AccuLock™ S Series
	1770042	12 ft. (3.7 m)			.035–.045 in. (0.9–1.2 mm)	AccuLock™ S Series
	1770043	15 ft. (4.6 m)			.035–.045 in. (0.9–1.2 mm)	AccuLock™ S Series
MDX™-250 EZ-Select™	1770046	15 ft. (4.6 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.035–.045 in. (0.9–1.2 mm)	AccuLock™ S Series
	1770047	15 ft. (4.6 m)			.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX Series

Consumables

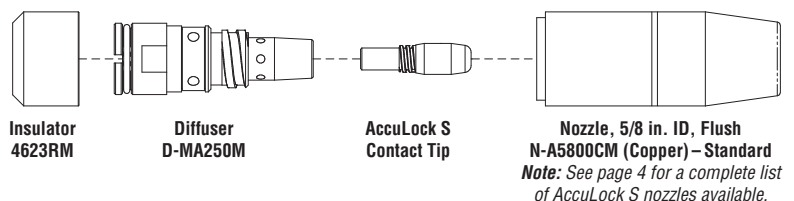
AccuLock™ MDX™ Series Consumables MDX™-100 MIG Gun



AccuLock™ MDX™ Series Consumables MDX™-250/MDX™-250 EZ-Select™ MIG Guns



AccuLock™ S Series Consumables MDX™-250/MDX™-250 EZ-Select™ MIG Guns



Consumables and Replacement Parts

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

For MDX™-100 MIG Gun

AccuLock™ MDX Consumables

Smaller consumables and components to access hard-to-reach weldments.

MDX-100 with AccuLock MDX Consumable Kits

- 1880272** .023 in. (0.6 mm)
- 1880273** .030 in. (0.8 mm)
- 1880274** .035 in. (0.9 mm)

Kits include ten contact tips, one nozzle, one diffuser and a consumable storage box.

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

- LM1A-10** 10 ft., .023/.025 in. (0.6 mm)
- LM2A-10** 10 ft., .030-.035 in. (0.8-0.9 mm)
- LM3A-10** 10 ft., .035-.045 in. (0.9-1.2 mm)

Power Pin 2200169

Power Pin Caps

- 2200170** .023/.030 in. (0.6/0.8 mm)
- 2200171** .030-.045 in. (0.8-1.2 mm)

MDX-100 Replacement Parts

- 1040087** Neck
- 1880266** Handle kit
- 211-5-MDX** Trigger switch
- 2520100** Rear strain relief

For MDX™-250 MIG Guns

AccuLock™ MDX Consumables

Smaller consumables and components to access hard-to-reach weldments.

MDX-250 with AccuLock MDX Consumable Kits

- 1880275** .030 in. (0.8 mm)
- 1880276** .035 in. (0.9 mm)
- 1880277** .045 in. (1.2 mm)

Kits include ten contact tips, one nozzle, one diffuser, one neck insulator and a consumable storage box.

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

- N-M1200C** Copper, 1/2 in. ID, flush
- N-M1218C** Copper, 1/2 in. ID, 1/8 in. recess
- N-M5800C** Copper, 5/8 in. ID, flush
- N-M5818C** Copper, 5/8 in. ID, 1/8 in. recess
- N-M58XTC** Copper, 5/8 in. ID, 1/8 in. stickout

Diffuser D-M250

Neck Insulator (2 per package) 4623RM

AccuLock™ S Consumables

Consumables for increased durability and longer life when guns are used in industrial applications.

MDX-250 with AccuLock S Consumable Kits

- 1880278** .035 in. (0.9 mm)
- 1880279** .045 in. (1.2 mm)

Kits include ten contact tips, one nozzle, one diffuser, one neck insulator and a consumable storage box.

Contact Tips (10 per package)

- T-A023CHM** .023 in. (0.6 mm)
- T-A030CHM** .030 in. (0.8 mm)
- T-A035CHM** .035 in. (0.9 mm)
- T-A039CHM** .039 in. (1.0 mm)
- T-A045CHM** .045 in. (1.2 mm)

Nozzles (1 per package)

- N-A5800CM** Copper, 5/8 in. ID, flush
- N-A5818CM** Copper, 5/8 in. ID, 1/8 in. recess
- N-A5814CM** Copper, 5/8 in. ID, 1/4 in. recess

Diffuser (2 per package) D-MA250M

Neck Insulator (2 per package) 4623RM

Monocoil Replacement Liners

- LM1A-10** 10 ft., .023/.025 in. (0.6 mm)
- LM2A-10** 10 ft., .030-.035 in. (0.8-0.9 mm)
- LM3A-10** 10 ft., .035-.045 in. (0.9-1.2 mm)
- LM1A-12** 12 ft., .023/.025 in. (0.6 mm)
- LM2A-12** 12 ft., .030-.035 in. (0.8-0.9 mm)
- LM3A-12** 12 ft., .035-.045 in. (0.9-1.2 mm)
- LM1A-15** 15 ft., .023/.025 in. (0.6 mm)
- LM2A-15** 15 ft., .030-.035 in. (0.8-0.9 mm)
- LM3A-15** 15 ft., .035-.045 in. (0.9-1.2 mm)

Power Pin 2200169

Power Pin Caps

- 2200170** .023/.030 in. (0.6/0.8 mm)
- 2200171** .030-.045 in. (0.8-1.2 mm)

MDX-250 Replacement Parts

- 1040086** Neck
- 1880265** Handle kit
- 1880264** Handle kit (EZ-Select™)
- 211-5-MDX** Trigger switch
- 2520100** Rear strain relief

Ordering Information

MIG Gun	Stock No.	Description	Qty.	Price
MDX-100	1770028	10 ft. (3 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
MDX-250	1770035	10 ft. (3 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
	1770036	12 ft (3.7 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
	1770037	15 ft (4.6 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
	1770038	15 ft (4.6 m) with AccuLock MDX consumables for .035-.045 in (0.9-1.2 mm) wire		
	1770041	10 ft. (3 m) with AccuLock S consumables for .035-.045 in (0.9-1.2 mm) wire		
	1770042	12 ft (3.7 m) with AccuLock S consumables for .035-.045 in (0.9-1.2 mm) wire		
	1770043	15 ft (4.6 m) with AccuLock S consumables for .035-.045 in (0.9-1.2 mm) wire		
MDX-250 EZ-Select	1770046	15 ft (4.6 m) with AccuLock S consumables for .035-.045 in (0.9-1.2 mm) wire		
	1770047	15 ft (4.6 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		

Date:

Total Quoted Price:

Distributed by:

