

# MDX™ Series

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



## Quick Specs

### Industrial Applications

Auto body  
Fabrication  
Hobby  
Maintenance and repair

### Processes

MIG (GMAW)  
Flux-cored (FCAW)  
Pulsed MIG (GMAW-P)  
with MDX-250 gun

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

**Duty Cycle** 100% with CO<sub>2</sub> 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 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.

## AccuLock™

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

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



MDX-100

MDX-250



**Miller compatibility**



**Superior wire feeding – featuring E-Z Feed™ Liner Technology**



**Durable, ergonomic handle**



**Long-life consumables**



**Pulse welding capable (MDX-250 only)**



Warrantied for 90 days, parts only.



### Miller Electric Mfg. LLC

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### Equipment Sales US and Canada

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

### MillerWelds.com



## MDX™ Series Benefits



### Miller compatibility

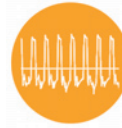
**MDX-100:** Millermatic® 141 and 211  
Multimatic® 215 and 220 AC/DC

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



### Durable, ergonomic handle

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



### Pulse welding capable (MDX-250 only)

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



### EZFeed™ Liner Technology

Unique profile and reduced touch points improve wire feeding while enhanced coil profile optimizes wire support.



### 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.

## AccuLock™ Consumables (See page 4 for sizes and stock numbers.)

# AccuLock™

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

### AccuLock MDX

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

### AccuLock S (MDX-250 only)

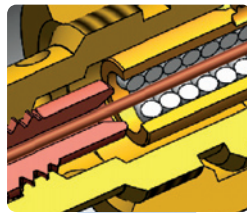
Upgrade to AccuLock S consumables for increased durability and longer life when guns are used in more industrial applications. Upgrading also allows you to simplify your consumables inventory if you are using a mix of Miller and Bernard MIG guns in your shop.



AccuLock MDX AccuLock S



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 consumables shown)



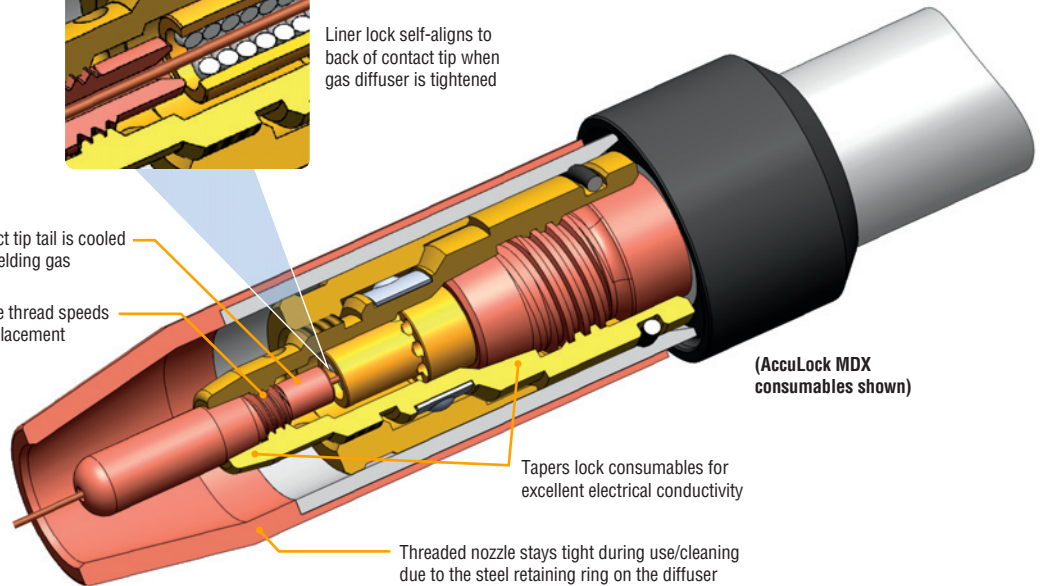
Liner lock self-aligns to back of contact tip when gas diffuser is tightened



AccuLock MDX power pin caps are available in three wire range sizes. The liner is locked and concentrically aligned to both the contact tip and power pin to ensure smooth, uninterrupted delivery of the wire to the weld puddle.

Contact tip tail is cooled by shielding gas

Coarse thread speeds tip replacement



(AccuLock MDX consumables shown)

Tapers lock consumables for excellent electrical conductivity

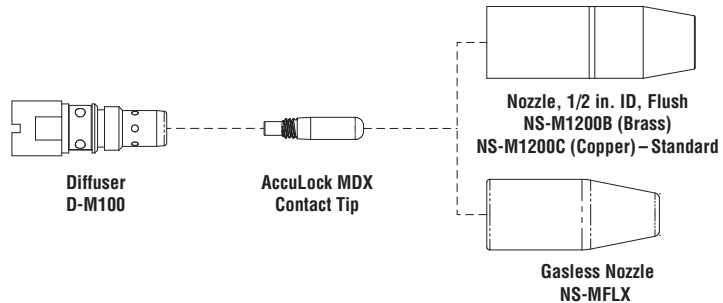
Threaded nozzle stays tight during use/cleaning due to the steel retaining ring on the diffuser

# Specifications (Subject to change without notice.)

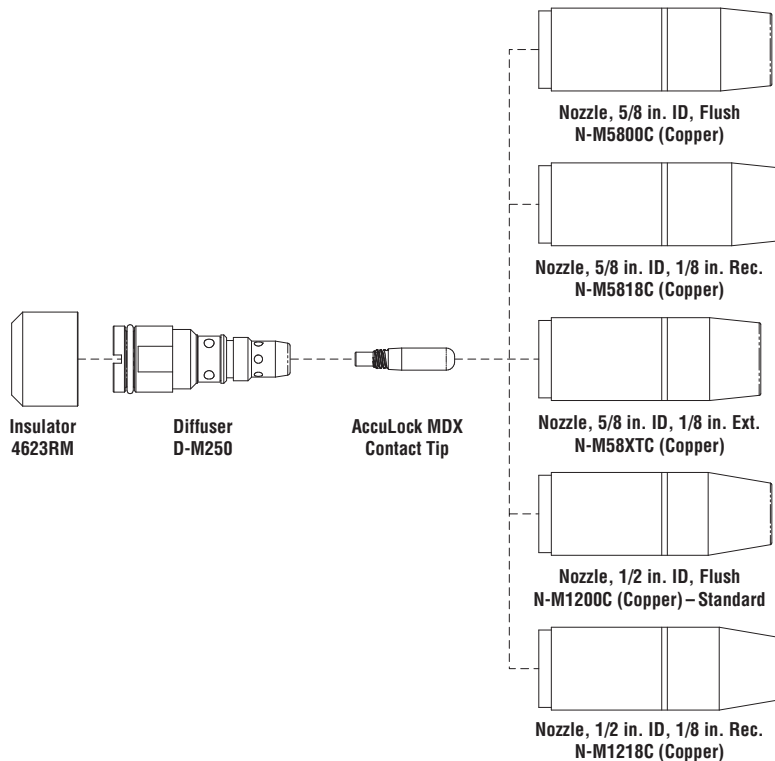
Model	Stock No.	Cable Length	Rated Output	Duty Cycle	Standard Wire Size	Standard Consumables
MDX™-100	1770028	10 ft. (3 m)	100 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX
	1770029	15 ft. (4.6 m)			.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX
MDX™-250	1770035	10 ft. (3 m)	250 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX
	1770037	15 ft. (4.6 m)			.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX
	1770038	15 ft. (4.6 m)			.035–.045 in. (0.9–1.2 mm)	AccuLock™ MDX
	1770043	15 ft. (4.6 m)			.035–.045 in. (0.9–1.2 mm)	AccuLock™ S

## Consumables

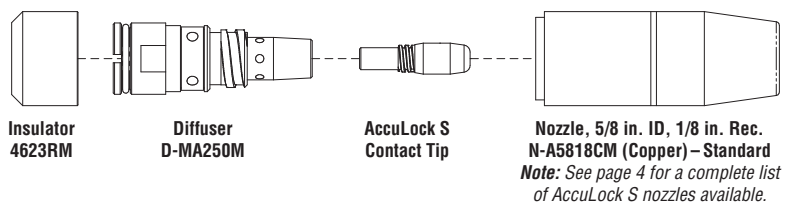
### AccuLock™ MDX™ Consumables MDX™-100 MIG Gun



### AccuLock™ MDX™ Consumables MDX™-250 MIG Gun



### AccuLock™ S Consumables MDX™-250 MIG Gun



# 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)

### 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 (2 per package) **D-M100**

## For MDX™-250 MIG Gun (AccuLock™ MDX Consumables)

### 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 (2 per package) **D-M250**

Neck Insulator (2 per package) **4623RM**

## For MDX™-250 MIG Gun (AccuLock™ S Consumables)

### 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

- 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**

## For MDX™-100 and MDX™-250 MIG Guns (Liners, Power Pins, Power Pin Caps and Replacement Parts)

### Monocoil Replacement Liners

- LM1A-10** 10 ft., .023/.025 in. (0.6 mm)
- LMD2A-10** 10 ft., .030-.035 in. (0.8-0.9 mm)
- LMD3A-10** 10 ft., .035-.045 in. (0.9-1.2 mm)
- LM1A-12** 12 ft., .023/.025 in. (0.6 mm)
- LMD2A-12** 12 ft., .030-.035 in. (0.8-0.9 mm)
- LMD3A-12** 12 ft., .035-.045 in. (0.9-1.2 mm)
- LM1A-15** 15 ft., .023/.025 in. (0.6 mm)
- LMD2A-15** 15 ft., .030-.035 in. (0.8-0.9 mm)
- LMD3A-15** 15 ft., .035-.045 in. (0.9-1.2 mm)

### Power Pin **2200169**

#### Power Pin Caps

- 2200360** .023-.030 in. (0.6-0.8 mm)
- 2200361** .030-.035 in. (0.8-0.9 mm)
- 2200362** .035-.045 in. (0.9-1.2 mm)

### Replacement Parts

- 1040087** Neck for MDX-100
- 1880266** Handle kit for MDX-100
- 1040097** Medium neck for MDX-250
- 1040096** Long neck for MDX-250
- 1880265** Handle kit for MDX-250
- 211-5-MDX** Trigger switch for MDX-100 and MDX-250
- 2520100** Rear strain relief for MDX-100 and MDX-250

## Ordering Information

MIG Gun	Stock No.	Description	Qty.	Price
MDX-100	<b>1770028</b>	10 ft. (3 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
	<b>1770029</b>	15 ft. (4.6 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
MDX-250	<b>1770035</b>	10 ft. (3 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
	<b>1770037</b>	15 ft (4.6 m) with AccuLock MDX consumables for .030-.035 in (0.8-0.9 mm) wire		
	<b>1770038</b>	15 ft (4.6 m) with AccuLock MDX consumables for .035-.045 in (0.9-1.2 mm) wire		
	<b>1770043</b>	15 ft (4.6 m) with AccuLock S consumables for .035-.045 in (0.9-1.2 mm) wire		

Date:

Total Quoted Price:

Distributed by:

