

# 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 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 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.

**NEW!**



MDX-100

MDX-250

MDX-250 EZ-Select™



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



**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)

## AccuLock™

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

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



Warranted for 90 days, parts only.



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## MDX™ Series Benefits



### Miller compatibility

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

**MDX-250:** Millermatic® 212 Auto-Set™, 252 and 255  
Multimatic® 200 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:

**Miller AccuLock MDX Series:** Designed to maximize wire feedability and simplify consumables replacement.

**Bernard 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.

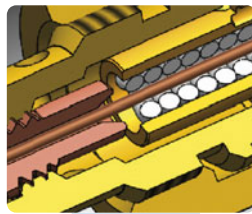


AccuLock MDX Series

AccuLock S Series



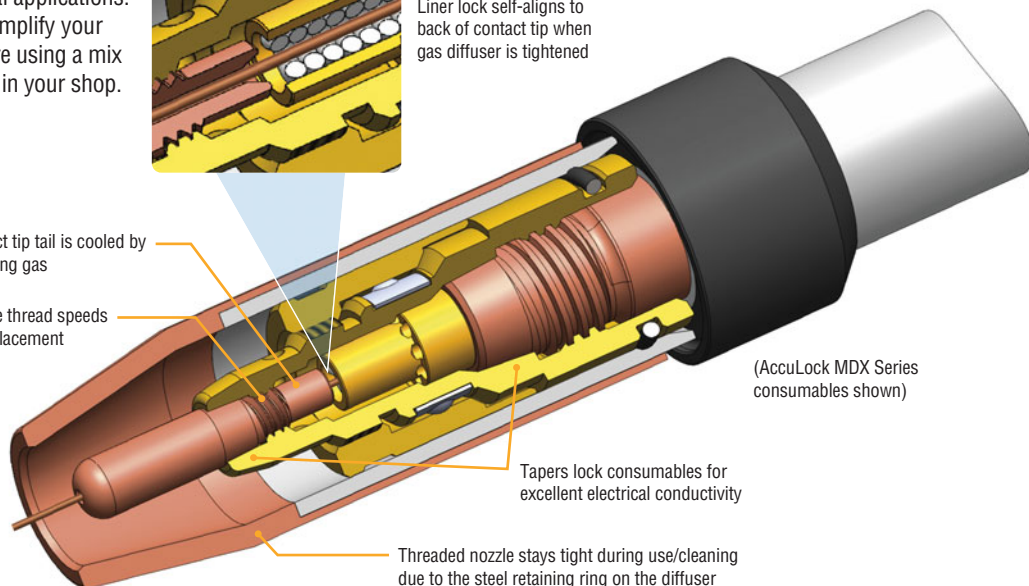
Front-loading AccuLock liner locks at front and back of gun to align with contact tip and power pin for a flawless wire-feed path (AccuLock S Series consumables shown)



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

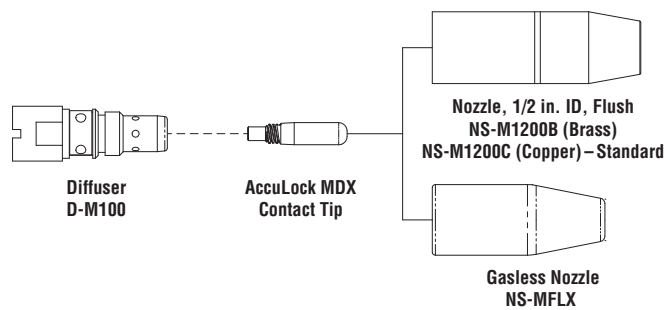
Threaded nozzle stays tight during use/cleaning due to the steel retaining ring on the diffuser

# Specifications (Subject to change without notice.)

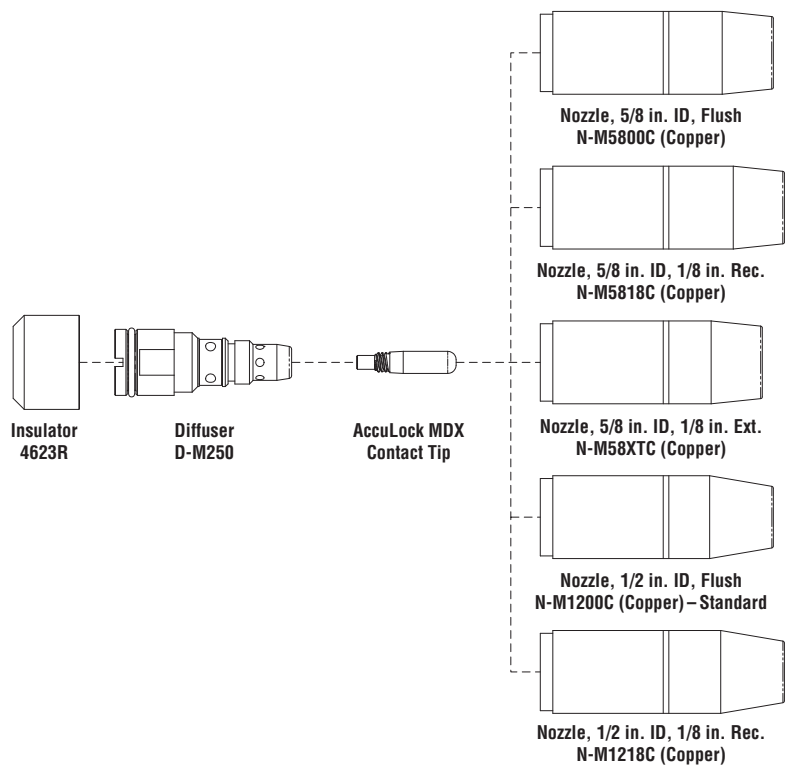
Model	Stock No.	Cable Length	Rated Output	Duty Cycle	Standard Wire Size	Standard Consumables
MDX™-100	1770028	10 ft. (3 m)	100 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX Series
MDX™-250	1770035	10 ft. (3 m)	250 A	100% with CO <sub>2</sub> gas, 60% with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

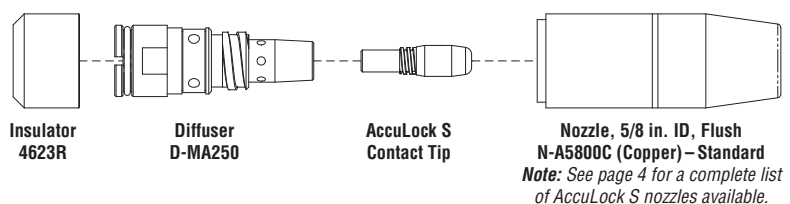
Miller® AccuLock™  
MDX™ Series Consumables  
MDX™-100 MIG Gun



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



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



# Consumables and Replacement Parts

## For MDX™-100 MIG Gun

### Miller® AccuLock™ MDX Consumables

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

#### Contact Tips (10 per package)

<b>T-M023</b>	.023 in. (0.6 mm)
<b>T-M030</b>	.030 in. (0.8 mm)
<b>T-M035</b>	.035 in. (0.9 mm)
<b>T-M045</b>	.045 in. (1.2 mm)
<b>T-M047</b>	3/64 in. (1.2 mm)

#### Nozzles

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

#### Diffuser D-M100

#### Monocoil Replacement Liners

##### 10 ft. Liner

<b>LM1A-10</b>	.023/.025 in. (0.6 mm)
<b>LM2A-10</b>	.030/.035 in. (0.8/0.9 mm)
<b>LM3A-10</b>	.035/.045 in. (0.9/1.2 mm)

#### Power Pin 2200169

#### Power Pin Caps

<b>2200170</b>	.023/.030 in. (0.6/0.8 mm)
<b>2200171</b>	.030-.045 in. (0.8-1.2 mm)

#### MDX-100 Replacement Parts

<b>1040087</b>	Neck
<b>1880266</b>	Handle kit
<b>211-5-MDX</b>	Trigger switch
<b>2520100</b>	Rear strain relief

## For MDX™-250 MIG Guns

### Miller® AccuLock™ MDX Consumables

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

#### Contact Tips (10 per package)

<b>T-M023</b>	.023 in. (0.6 mm)
<b>T-M030</b>	.030 in. (0.8 mm)
<b>T-M035</b>	.035 in. (0.9 mm)
<b>T-M045</b>	.045 in. (1.2 mm)
<b>T-M047</b>	3/64 in. (1.2 mm)

#### Nozzles

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

#### Diffuser D-M250

### Bernard® AccuLock™ S Consumables

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

#### Contact Tips (10 per package)

<b>T-A023CH</b>	.023 in. (0.6 mm)
<b>T-A030CH</b>	.030 in. (0.8 mm)
<b>T-A035CH</b>	.035 in. (0.9 mm)
<b>T-A039CH</b>	.039 in. (1.0 mm)
<b>T-A045CH</b>	.045 in. (1.2 mm)

#### Nozzles

<b>N-A5800C</b>	Copper, 5/8 in. ID, flush
<b>N-A5818C</b>	Copper, 5/8 in. ID, 1/8 in. recess
<b>N-A5814C</b>	Copper, 5/8 in. ID, 1/4 in. recess

#### Diffuser D-MA250

### Monocoil Replacement Liners

#### 10 ft. Liner

<b>LM1A-10</b>	.023/.025 in. (0.6 mm)
<b>LM2A-10</b>	.030/.035 in. (0.8/0.9 mm)
<b>LM3A-10</b>	.035/.045 in. (0.9/1.2 mm)

#### 12 ft. Liner

<b>LM1A-12</b>	.023/.025 in. (0.6 mm)
<b>LM2A-12</b>	.030/.035 in. (0.8/0.9 mm)
<b>LM3A-12</b>	.035/.045 in. (0.9/1.2 mm)

#### 15 ft. Liner

<b>LM1A-15</b>	.023/.025 in. (0.6 mm)
<b>LM2A-15</b>	.030/.035 in. (0.8/0.9 mm)
<b>LM3A-15</b>	.035/.045 in. (0.9/1.2 mm)

#### Power Pin 2200169

#### Power Pin Caps

<b>2200170</b>	.023/.030 in. (0.6/0.8 mm)
<b>2200171</b>	.030-.045 in. (0.8-1.2 mm)

#### Neck Insulator 4623R

### MDX-250 Replacement Parts

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

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

## Ordering Information

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

