

# 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 and  
heavy duty consumables

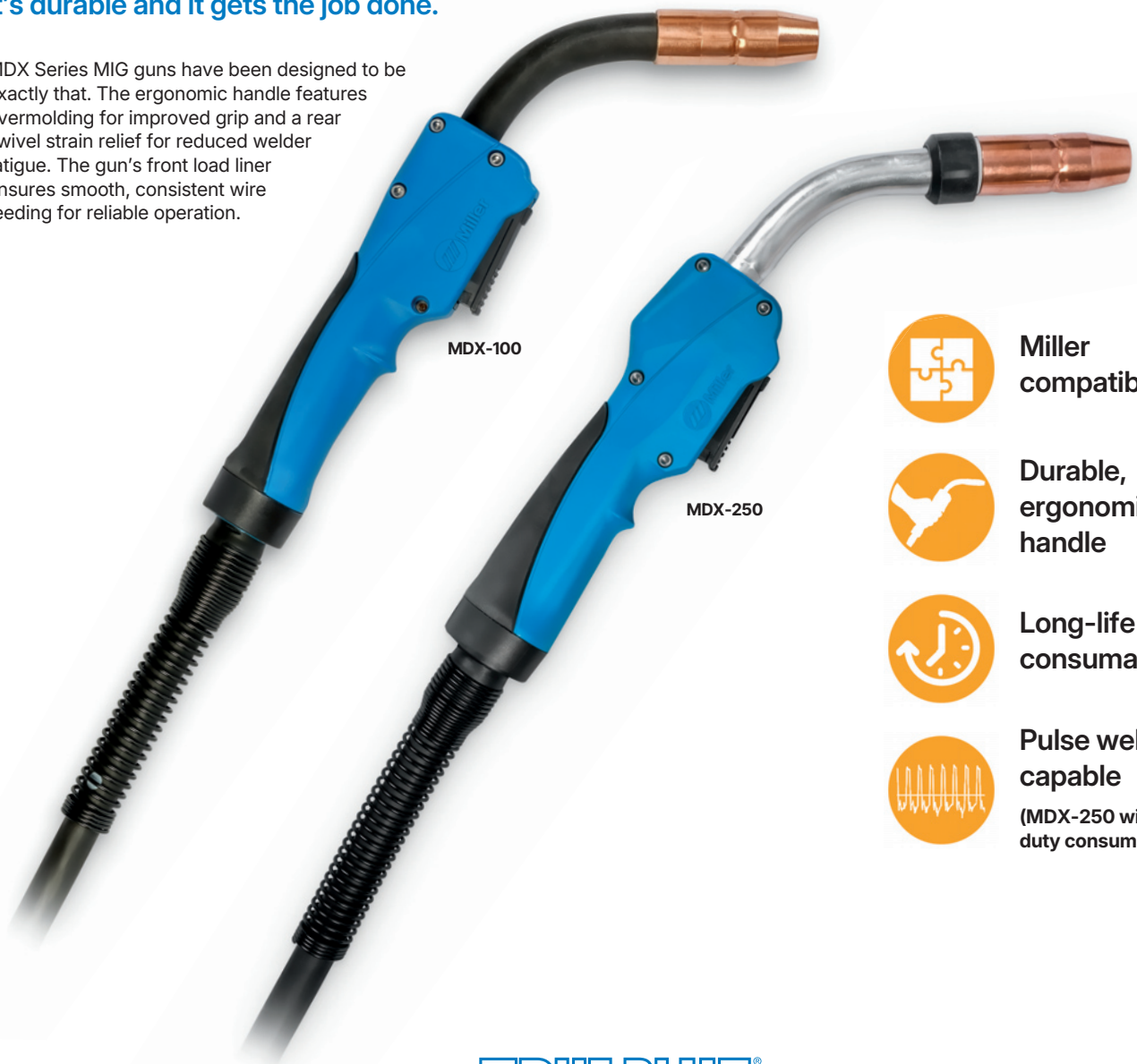
**Rated Output** MDX-100: 100 A, MDX-250: 250 A

**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 front load liner ensures smooth, consistent wire feeding for reliable operation.



MDX-100

MDX-250



**Miller compatibility**



**Durable, ergonomic handle**



**Long-life consumables**



**Pulse welding capable**

(MDX-250 with heavy duty consumables only)



Warrantied for 90 days, parts only.



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**MillerWelds.com**



# MDX™ Series Benefits



## Miller compatibility

### MDX-100

Millermatic® 142 and 211, Multimatic® 215 and 220 AC/DC

### MDX-250

Millermatic® 252 and 255, Multimatic® 235 and 255



## Long-life consumables

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



## Durable, ergonomic handle

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



## Pulse welding capable (MDX-250 with heavy duty consumables only)

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

# MDX™ MIG Gun Consumables (See page 4 for sizes and stock numbers.)

MDX MIG gun consumables consist of two series:

### Standard duty

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

### Heavy duty (MDX-250 only)

Upgrade to heavy duty 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.

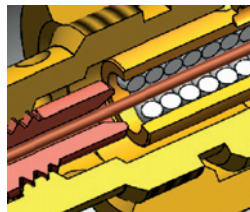


Standard duty

Heavy duty



Front load liner locks at front and back of gun to align with contact tip and power pin for a flawless wire-feed path (heavy duty consumables shown)



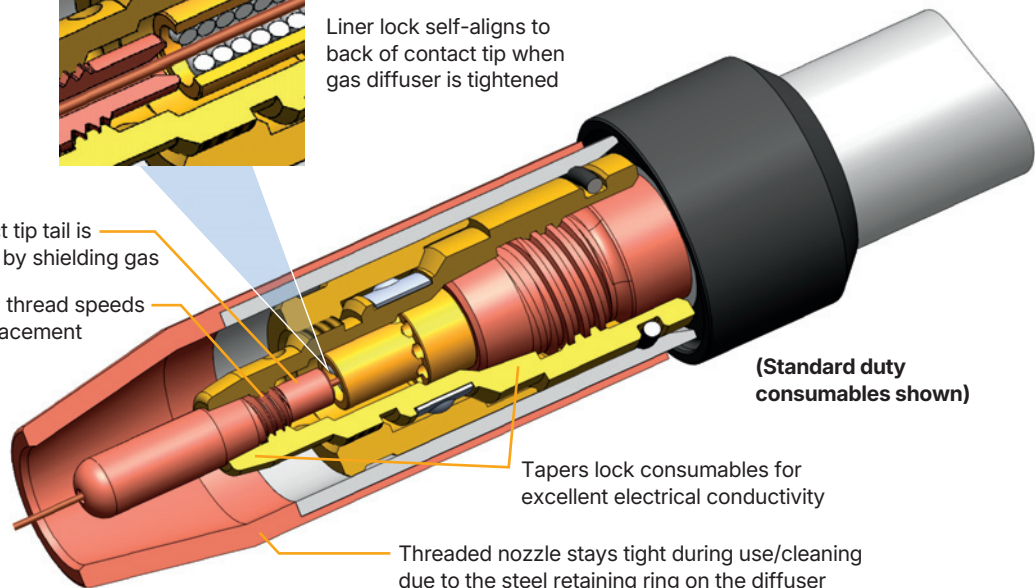
Liner lock self-aligns to back of contact tip when gas diffuser is tightened



MDX MIG gun 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



(Standard duty consumables shown)

Tapers lock consumables for excellent electrical conductivity

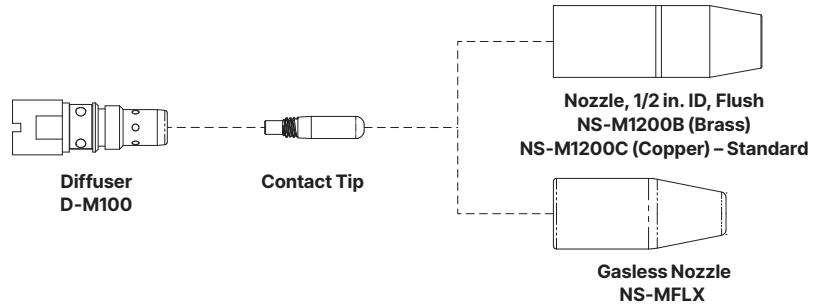
Threaded nozzle stays tight during use/cleaning due to the steel retaining ring on the diffuser

# Specifications (Subject to change without notice.)

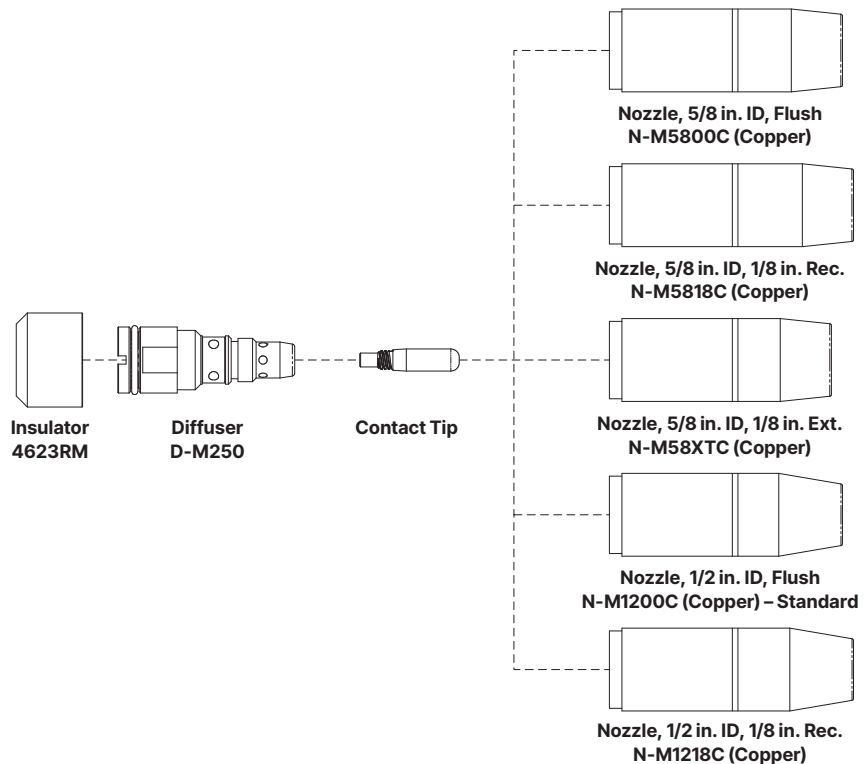
MODEL	STOCK NO.	CABLE LENGTH	RATED OUTPUT	DUTY CYCLE	STANDARD WIRE SIZE	STANDARD CONSUMABLES
MDX™-100	1770028	10 ft. (3 m)	100 A	100% with CO <sub>2</sub> gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	Standard duty
	1770029	15 ft. (4.6 m)			.030–.035 in. (0.8–0.9 mm)	Standard duty
MDX™-250	1770035	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)	Standard duty
	1770037	15 ft. (4.6 m)			.030–.035 in. (0.8–0.9 mm)	Standard duty
	1770038	15 ft. (4.6 m)			.035–.045 in. (0.9–1.2 mm)	Standard duty
	1770043	15 ft. (4.6 m)			.035–.045 in. (0.9–1.2 mm)	Heavy duty

## Consumables

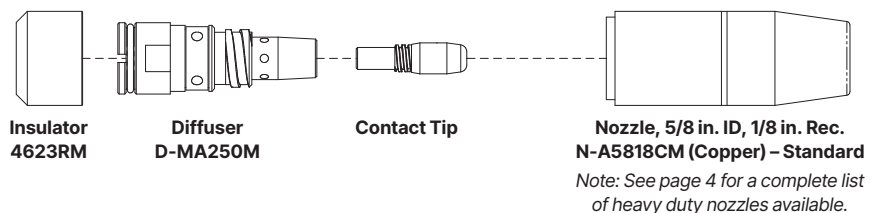
### MDX™-100 MIG Gun Consumables



### MDX™-250 MIG Gun Consumables — Standard duty



### MDX™-250 MIG Gun Consumables — Heavy duty



# Consumables and Replacement Parts

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

## For MDX™-100 MIG Gun

**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

**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 (Heavy duty 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** 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	1770028	10 ft. (3 m) with consumables for .030-.035 in (0.8-0.9 mm) wire		
	1770029	15 ft. (4.6 m) with consumables for .030-.035 in (0.8-0.9 mm) wire		
MDX™-250	1770035	10 ft. (3 m) with consumables for .030-.035 in (0.8-0.9 mm) wire		
	1770037	15 ft. (4.6 m) with consumables for .030-.035 in (0.8-0.9 mm) wire		
	1770038	15 ft. (4.6 m) with consumables for .035-.045 in (0.9-1.2 mm) wire		
	1770043	15 ft. (4.6 m) with heavy duty consumables for .035-.045 in (0.9-1.2 mm) wire		

DATE: TOTAL QUOTED PRICE:

Distributed by:

