

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 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 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.



Miller compatibility



Superior wire feeding



Durable, ergonomic handle



Long-life consumables



Pulse welding capable
(MDX-250 only)



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



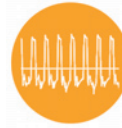
Miller compatibility

MDX-100: Millermatic® 141 and 211
Multimatic® 215 and 220 AC/DC
MDX-250: Millermatic® 252 and 255
Multimatic® 200, 235 and 255



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.



Superior AccuLock wire-feeding

The front-loading liner is centered and locked at both ends of the gun 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!



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)

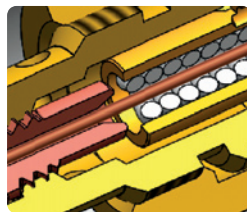
Upgrade to AccuLock S consumables for increased durability and longer life when guns are used in more industrial applications. Upgrading also allows you to simplify your consumables inventory if you are using a mix of Miller and Bernard MIG guns in your shop.



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)



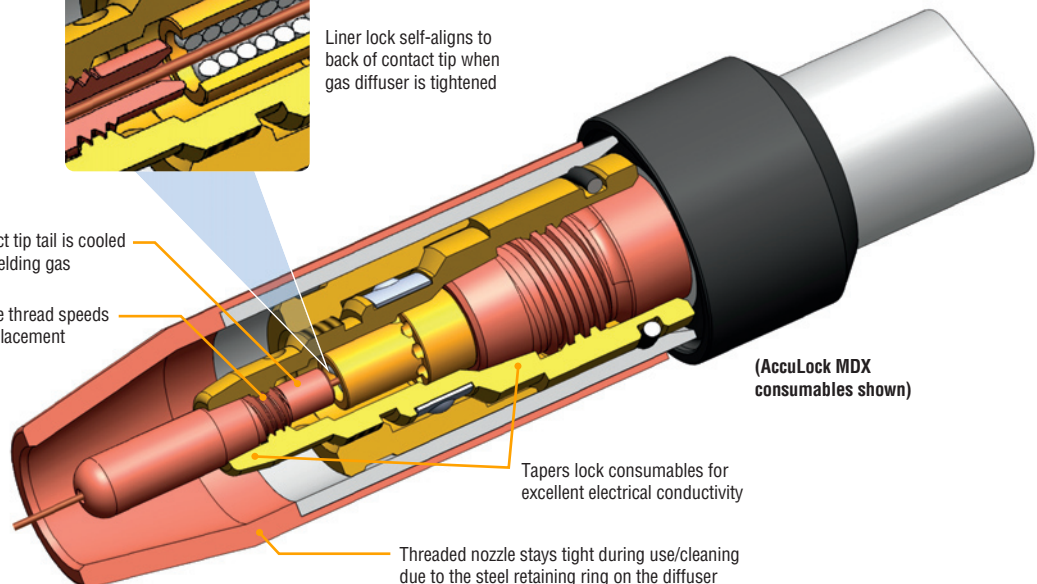
Liner lock self-aligns to back of contact tip when gas diffuser is tightened



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

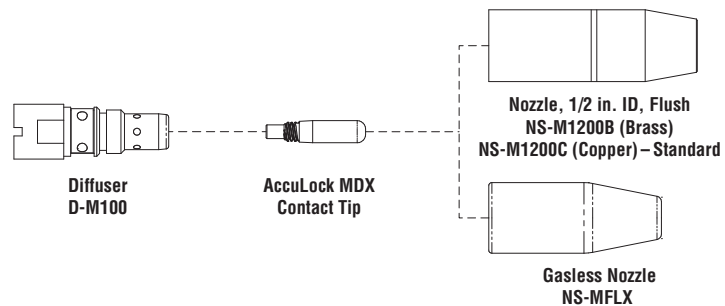
Threaded nozzle stays tight during use/cleaning due to the steel retaining ring on the diffuser

Specifications (Subject to change without notice.)

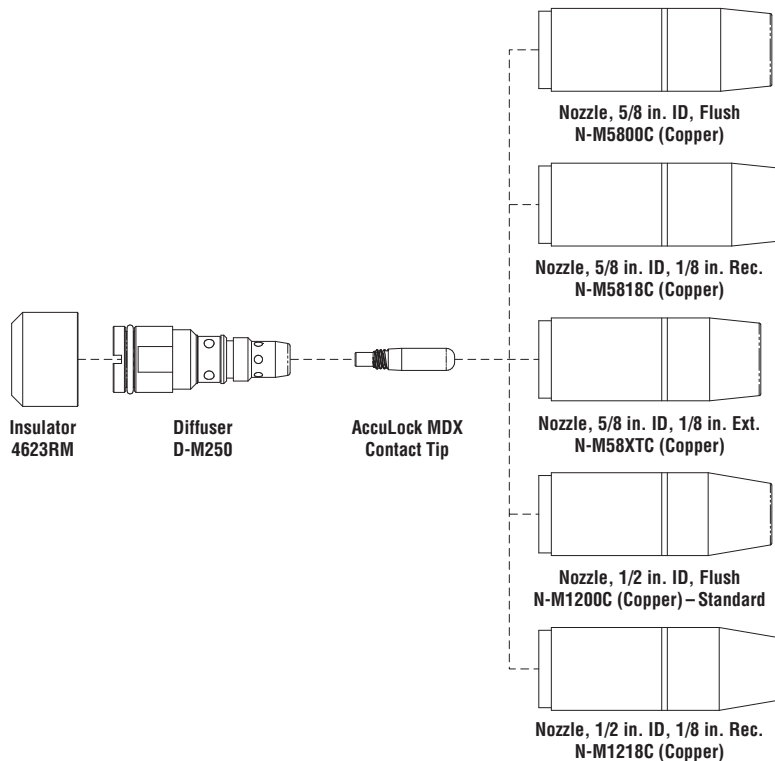
Model	Stock No.	Cable Length	Rated Output	Duty Cycle	Standard Wire Size	Standard Consumables
MDX™-100	1770028	10 ft. (3 m)	100 A	100% with CO ₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9 mm)	AccuLock™ MDX
MDX™-250	1770035	10 ft. (3 m)	250 A	100% with CO ₂ gas, 60% with mixed gas	.030–.035 in. (0.8–0.9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

Consumables

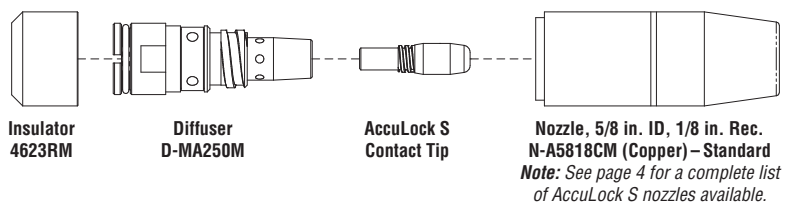
AccuLock™ MDX™ Consumables MDX™-100 MIG Gun



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

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

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 (2 per package) 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

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)

MDX-100 Replacement Parts

1040087 Neck

1880266 Handle kit

211-5-MDX Trigger switch

2520100 Rear strain relief

For MDX™-250 MIG Gun

AccuLock™ MDX Consumables

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

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 (2 per package) 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.

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

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

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)

MDX-250 Replacement Parts

1040086 Neck

1040096 Long neck

1880265 Handle kit

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		

Date:

Total Quoted Price:

Distributed by:

