



Tweco Fusion® MIG Gun Series

FEATURES

- **Easy to Maneuver** in various welding positions to reduce operator fatigue
- **Rugged Design** with steel spring strain relief – built tough to last
- **Ergonomic Handle Design** with diamond pattern for better grip and greater operator appeal
- **Impact-Resistant Handle and Components** for long-lasting durability
- **Microswitch Trigger** designed for dependability
- **Optimized Electrical Surface Contact** with improved arc stability
- **Velocity Consumables** for longer life and improved performance
- **Easy to Change Velocity Tips** – no threads, no tools needed
- **Fewer Consumables Parts** to replace resulting in lower cost of ownership
- **Contact Tips** can be rotated to optimize life requiring fewer changes thus reducing cost of usage
- **Solid Copper Conductor Path** with fewer connections
- **Smooth, Stable Arc** for a superior welding performance
- **Optimized Wire Feedability** with centered liner
- **Best in Class Performance**

250 FEATURES

- **Heavy Duty Chrome Plated Conductor Tube** for improved electrical conductivity
- **Gun Hook** on bottom for easy access

Tweco Fusion

MIG Gun Series

		Tweco Fusion 140	Tweco Fusion 180	Tweco Fusion 220	Tweco Fusion 250
Applications		Light Duty Fabrication	Light Duty Fabrication	Medium Duty Fabrication	Medium/Heavy Duty Fabrication
Standard Options	Rear Connector	■	■	■	■
Output Current		140 Amps	180 Amps	220 Amps	250 Amps
Duty Cycle - CO₂		40%	40%	40%	80%
Wire Diameter		Up to .035" (0.9 mm)	Up to .035" (0.9 mm)	Up to .035" (0.9 mm)	Up to .045" (1.2 mm)
Process	MIG	■	■	■	■
	Aluminum	■	■	■	■

For Special MIG gun configurations, including special consumables, please contact Tech Service and Support.



Tweco Fusion® 140 Amp MIG Gun

MIG GUNS



40% Duty Cycle - CO₂ Carbon Dioxide
Suitable for Light Duty Fabrication.

WELDING PROCESSES:
MIG (GMAW), Aluminum (GMAW)

- Standard Options Include:**
- High Performance Velocity™ Consumables and Rear Connector
 - Conduit Liner – WS42 Series

Tweco® Style (4 Pin) Rear Connector

Adapter kits are available to fit Tweco rear connection to most wire feeders

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F140T-10-3035	1017-1320

Tweco® Style (8 Pin) Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F140TA-10-3035	1017-1321

Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F140M-10-3035	1017-1319

Lincoln® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F140L-10-3035	1017-1318

Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F140X-10-3035	1017-1323

Conduit Liner – WS42 Series

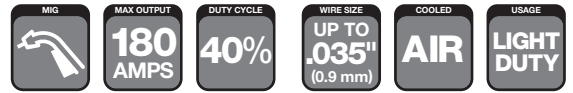
Note: Gun length is measured from the front case to the rear case +/- 3".



Rated Output			Wire Size	Cooled	Application Usage
Amps	Duty Cycle	Gas			
120 Amps	20%	CO ₂ Carbon Dioxide	Up To .035" (0.9 mm)	Air	Light Duty Fabrication

EASY FIND
EASY FIND GUIDE
See Page 48 & 49 for Replacement Parts & Optional Accessories

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Tweco Fusion® 180 Amp MIG Gun



40% Duty Cycle - CO₂ Carbon Dioxide
Suitable for Light Duty Fabrication.

WELDING PROCESSES:
MIG (GMAW), Aluminum (GMAW)

Standard Options Include:

- High Performance Velocity™ Consumables and Rear Connector
- Conduit Liner – WS42 Series

MIG GUNS

Tweco® Style (4 Pin) Rear Connector

Adapter kits are available to fit Tweco rear connection to most wire feeders

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F180T-12-3035	1017-1331

Lincoln® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F180L-12-3035	1017-1329

Tweco® Style (8 Pin) Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F180TA-10-3035	1017-1338
	12 ft (3.6 m)	F180TA-12-3035	1017-1332

Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F180X-10-3035	1017-1335
	12 ft (3.6 m)	F180X-12-3035	1017-1334

Conduit Liner – WS42 Series

Note: Gun length is measured from the front case to the rear case +/-3".

Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F180M-12-3035	1017-1330



Rated Output			Wire Size	Cooled	Application Usage
Amps	Duty Cycle	Gas			
180 Amps	40%	CO ₂ Carbon Dioxide	Up To .035" (0.9 mm)	Air	Light Duty Fabrication



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Tweco Fusion® 220 Amp MIG Gun

MIG GUNS



40% Duty Cycle - CO₂ Carbon Dioxide
Suitable for Medium Duty Fabrication.

WELDING PROCESSES:
MIG (GMAW), Aluminum (GMAW)

- Standard Options Include:**
- High Performance Velocity™ Consumables and Rear Connector
 - Conduit Liner – WS42 Series

Tweco® Style (4 Pin) Rear Connector

Adapter kits are available to fit Tweco rear connection to most wire feeders

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	15 ft (4.6 m)	F220T-15-3035	1023-1260

Lincoln® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	15 ft (4.6 m)	F220L-15-3035	1023-1258

Tweco® Style (8 Pin) Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F220TA-12-3035	1023-1261

Euro-Kwik Style Rear Connector

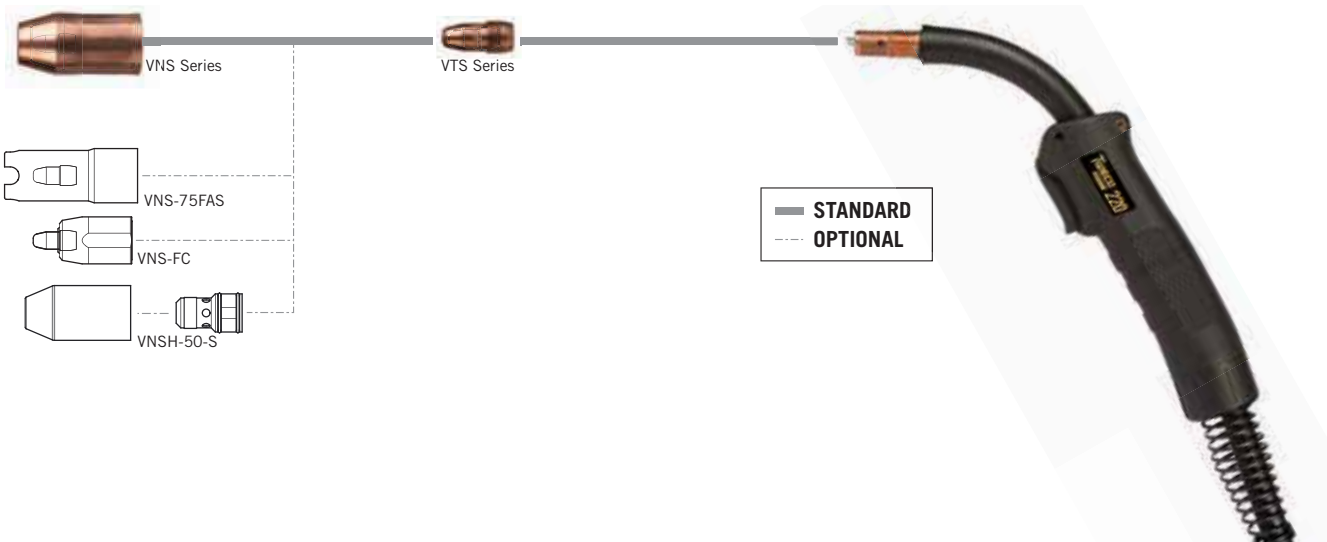
Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F220X-10-3035	1023-1264
	12 ft (3.6 m)	F220X-12-3035	1023-1265
	15 ft (4.6 m)	F220X-15-3035	1023-1263

Conduit Liner – WS42 Series

Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	15 ft (4.6 m)	F220M-15-3035	1023-1259

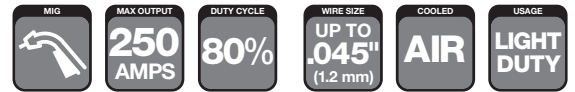
Note: Gun length is measured from the front case to the rear case +/- 3".



Rated Output			Wire Size	Cooled	Application Usage
Amps	Duty Cycle	Gas			
220 Amps	40%	CO ₂ Carbon Dioxide	Up To .035" (0.9 mm)	Air	Medium Duty Fabrication

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Tweco Fusion® 250 Amp MIG Gun



80% Duty Cycle - CO₂ Carbon Dioxide
Suitable for Heavy Duty Fabrication.

WELDING PROCESSES:
MIG (GMAW), Aluminum (GMAW)

Standard Options Include:

- High Performance Velocity™ Consumables and Rear Connector
- Conduit Liner – 42 Series
- Heavy Duty Chrome Plated Conductor Tube for improved electrical conductivity
- Gun Hook on bottom for easy access

MIG GUNS

Tweco® Style (4 Pin) Rear Connector

Adapter kits are available to fit Tweco rear connection to most wire feeders

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	10 ft (3 m)	FV210-3545	1023-1059
	12 ft (3.6 m)	FV212-3545	1023-1060
	15 ft (4.6 m)	FV215-3545	1023-1260
	20 ft (6.1 m)	FV220-3545	1023-1062
	25 ft (7.6 m)	FV225-3545	1023-1063

Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	10 ft (3 m)	FV210-3545	1023-1059
	10 ft (3 m)	FV210M-3545	1023-1067
	12 ft (3.6 m)	FV212M-3545	1023-1068
	15 ft (4.6 m)	FV215M-3545	1023-1259
	20 ft (6.1 m)	FV220M-3545	1023-1070
	25 ft (7.6 m)	FV225M-3545	1023-1071

Tweco® Style (8 Pin) Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	15 ft (4.6 m)	FV215TA-3545	1023-1261

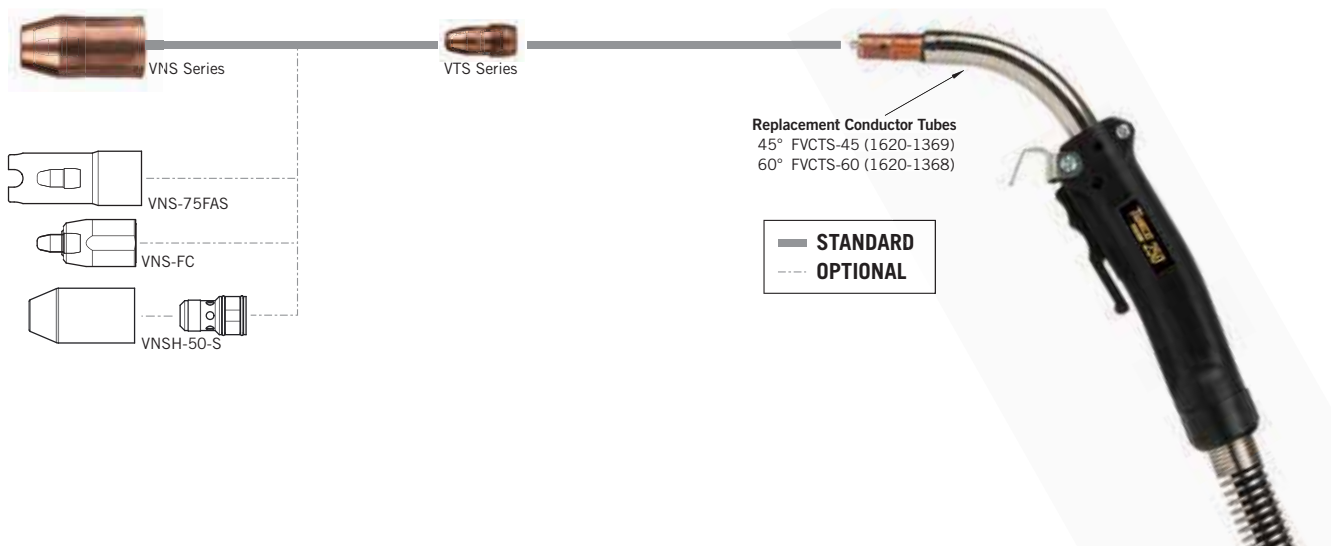
Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	10 ft (3 m)	FV210X-3545	1023-1089
	12 ft (3.6 m)	FV212X-3545	1023-1090
	15 ft (4.6 m)	FV215X-3545	1023-1263
	25 ft (7.6 m)	FV225X-3545	1023-1092

Lincoln® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	FV212L-3545	1023-1084
	15 ft (4.6 m)	FV215L-3545	1023-1258

Note: Gun length is measured from the front case to the rear case +/-3".



Rated Output			Wire Size	Cooled	Application Usage
Amps	Duty Cycle	Gas			
250 Amps	80%	CO ₂ Carbon Dioxide	Up To .035" (0.9 mm)	Air	Heavy Duty Fabrication



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