TWECO Features & **Benefits** ■ Heavy Duty Design for industrial application environments ■ Ergonomic Handle for operator comfort and appeal ■ Low Bench Weight for easy to handle gun reduces operator fatigue ■ Increased Interface between contact tip & gas diffuser improves performance and electrical conductivity ■ Provides Cooling Benefits for the front end consumables for maximum efficiency and comfort ■ Heavy Duty Contact Tip and Diffuser to act as "heat sink" in high heat applications ■ Improved Performance with longer-life front end consumables Operates @ 100% Duty Cycle at high amperage applications MECO Water-Coole MIG Gun Series

		PulseMaster 400 Amp	PulseMaster 500 Amp	Supra 450 Amp	Standard 600 Amp
Application	ons	Light-Medium Duty Fabrication	Heavy Duty Fabrication	Medium-Heavy Duty Fabrication	Medium-Heavy Duty Fabrication
	Rear Connector				
Standard Options	Standard without "Smart" Capability		•		
	"Smart" Capability				
Output C	urrent	400 Amps	500 Amps	450 Amps	600 Amps
Duty Cycl	e - Mixed Gases	100%	100%	100%	100%
Wire Dian	neter	Up to .045" (1.2 mm)	Up to .045" (1.2 mm)	Up to 1/16" (1.6 mm)	Up to 3/32" (2.4 mm)
Drocoo	MIG			The Park	
Process	Aluminum				2-10-10

















PulseMaster™ 400 Amp Water-Cooled



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

Standard Options Include:

- Rear Connector
- Standard without "Smart" Capability but available with "Smart" Capability
- Standard Conductor Tube Part No. PMP64EL-180 (Stock No. 1642-1140);
- Conduit Liner 44 Series

FEATURES

- "Smart" Capability with digital display and one-touch, on-the-fly controls to adjust primary parameters such as welding current, material thickness, wire feed speed or arc length trim
- Heavy Duty Design for industrial application environments and longlasting durability
- Heavy Duty Cablehoz® designed for pulse welding demands with smooth feed performance to reduce "bird nesting" and provide excellent flexibility for better current capacity
- Ergonomic Impact-Resistant Handle to reduce operator fatigue
- Blade-Style Trigger Design performs over 2 million cycles without failure
- Multiple-Position Conductor Tube for quick tool-free change, rotation and lower heat in the front end
- Increased Interface between contact tip & gas diffuser improves electrical conductivity
- Heavy Duty Contact Tip and Diffuser to act as "heat sink" in high heat applications

Smart Gun PulseMaster Smart MIG Guns are used only with Tweco® PowerMaster SP machines and are available with "Smart" Capability.

Tweco® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045"	12 ft (3.6 m)	PMWS412-3545	1042-1510
(1.2 mm)	15 ft (4.6 m)	PMWS415-3545	1042-1511

Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	PMWS412X-3545	1042-1515

Standard Gun PulseMaster MIG Guns are Standard without "Smart" Capability.

Tweco® Style 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"	12 ft (3.6 m)	PMW412-3545	1042-1500
(1.2 mm)	15 ft (4.6 m)	PMW415-3545	1042-1501

Lincoln® Style Rear Connector

Fits Lincoln LN7, 8, 9, SP200

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	PMW412L-3545	1042-1503

Some Lincoln wire feeders are assembled with their K1500-2 gun receiving bushing that will accept Tweco Style MIG Guns direct from the factory. Control wire Part No. MS354-DSLJ (Stock No. 2060-2137) Must be ordered separately.

Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	15 ft (4.6 m)	PMW415M-3545	1042-1502

Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045"	12 ft (3.6 m)	PMW412X-3545	1042-1505
(1.2 mm)	15 ft (4.6 m)	PMW415X-3545	1042-1506



Rated Output			Wire Size	Cooled	Application House
Amps	Duty Cycle	Gas	wire Size	Coolea	Application Usage
400 Amps	100%	Mixed	Up To .045" (1.2 mm)	Water	Heavy Duty Fabrication



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PulseMaster™ 500 Amp Water-Cooled



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

Standard Options Include:

- Rear Connector
- Standard without "Smart" Capability but available with "Smart" Capability
- Standard Conductor Tube Part No. PMP64EL-180 (Stock No. 1642-1140)
- Conduit Liner 44 Series

FEATURES

- "Smart" Capability with digital display and one-touch, on-the-fly controls to adjust primary parameters such as welding current, material thickness, wire feed speed or arc length trim
- Heavy Duty Design for industrial application environments and longlasting durability
- Heavy Duty Cablehoz® designed for pulse welding demands with smooth feed performance to reduce "bird nesting" and provide excellent flexibility for better current capacity
- Improved Performance with longer-life consumables
- Twin-Pulse Mode for the perfect weld bead
- Multiple-Position Conductor Tube for quick tool-free change, rotation and lower heat in the front end
- Increased Interface between contact tip & gas diffuser improves electrical conductivity

Smart Gun PulseMaster Smart MIG Guns are used only with Tweco® PowerMaster SP machines and are available with "Smart" Capability.

Tweco® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	PMWS512-3545	1042-1535

Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	PMWS512X-3545	1042-1540

Standard Gun PulseMaster MIG Guns are Standard without "Smart" Capability.

Tweco® Style 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"	12 ft (3.6 m)	PMW512-3545	1042-1525
(1.2 mm)	15 ft (4.6 m)	PMW515-3545	1042-1526

Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	PMW512M-3545	1042-1527

Lincoln® Style Rear Connector

Fits Lincoln LN7, 8, 9, SP200

Wire Size	Length	Part No.	Stock No.
Up To .045" (1.2 mm)	12 ft (3.6 m)	PMW512L-3545	1042-1528

Some Lincoln wire feeders are assembled with their K1500-2 gun receiving bushing that will accept Tweco Style MIG Guns direct from the factory. Control wire Part No. MS354-DSLJ (Stock No. 2060-2137) Must be ordered separately.

Euro-Kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .045"	12 ft (3.6 m)	PMW512X-3545	1042-1530
(1.2 mm)	15 ft (4.6 m)	PMW515X-3545	1042-1531



Rated Output		Wire Size	Cooled	Application Hoose	
Amps	Duty Cycle	Gas	wire Size	Cooled	Application Usage
500 Amps	100%	Mixed	Up To .045" (1.2 mm)	Water	Heavy Duty Fabrication

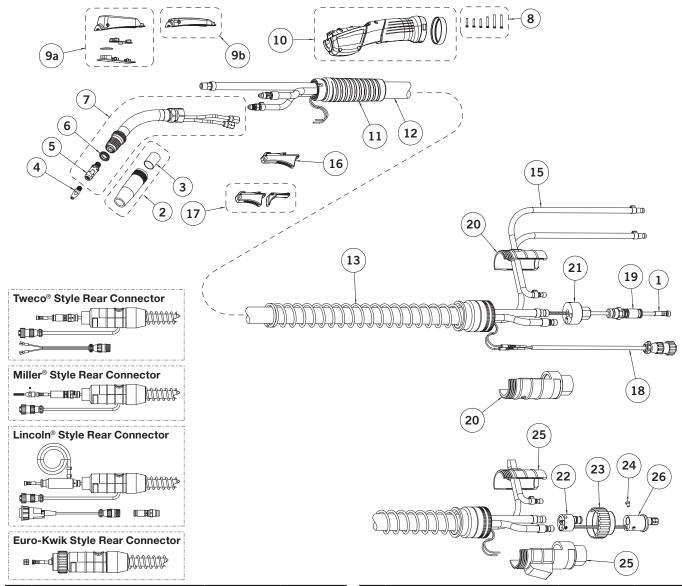


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PulseMaster™ Water-Cooled MIG Gun

Replacement Parts



#	Description	Part No.	Stock No.
1	Conduit Assembly	Refer to Pages 124-127	
2	Nozzle	PMW24 Series	
3	Nozzle Insulator / Spatter Shield	WC23-1	1230-1084
4	Contact Tip	16PS Series	
5	Gas Diffuser used w/16P & 16PS Series Contact Tips	PMW5516	1550-1105
6	Pressure Ring PMW64-3		1644-2900
7	Conductor Tube	PMW64 Series	
8	Handle Screws w/ T9 Star Head (12 mm, 16 mm, & 20 mm LG)	PMHSK	2060-2705
9a	Handle Housing w/ Smart Control Assembly	РМ84-РСВ-НК	2060-2706
9b	Handle Housing (Blank)	PM84-H	2060-2707
10	Large Handle Assembly w/ Retaining Ring	PM84	2060-2708
	Small Handle Assembly w/ Retaining Ring	PM83	2060-2715
11	Front Cable Support	PMW-SPS	2060-2720

#	Description	Part No.	Stock No.
12	12 ft (3.6 m) Cable and Hose Assembly	PMW512	2060-2721
13	Strain Relief Spring	QR-SPR	3045-1177
14	Strain Relief Cap	QR-RC	3045-1238
15	Water Hose Assembly		
16	Trigger	PM94	2060-2712
17	Trigger & Guard Assembly		-
18	Control Wire Plug	MS354-DSM	2060-2140
19	Heavy Duty Connector Plug Assembly	350-174H	2035-2110
20	Rear Case		
21	Rear Connector Block (Direct Plug)	WC6-170H	2064-2171
22	Rear Connector Block (Euro)	WC174X-B	2044-2182
23	Euro-Kwik Connector Nut	174X-2	2040-2177
24	Euro-Kwik Connector Screw	4M-S	2011-2004
25	Euro-Kwik Rear Case	X6RC	2060-2006
26	Euro-Kwik Connector Assembly	WC174X	2044-2181

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