

Tweco® Style Head

Euro Style Termination

As successful aluminum welding requires a stable arc, a Pull (Push-Pull) MIG gun ensures a steady, consistent, and reliable wire feeding for soft wires like aluminum or brazing wires, even at long feeding distances. This welding gun has been specially designed to weld thin aluminum wires, allowing for reliable wire feeding, even with long cables on the gun. With the least amount of frictional loss, the optimal wire feed is made possible by a heavy-duty, powerful pull motor that allows precise speed control.

The **PM300** Series Pull (Push-Pull) MIG guns are 300A, air-cooled, and lightweight. They are well-balanced, with a dual groove drive roll, and are designed for easy and reliable aluminum wire feeding. These guns can be used with a variety of CV power sources and engine-driven welders. The design of these pull (push-pull) guns ensures a reduction in the production time by avoiding wasted time to solve common problems with the gun during aluminum welding. In addition to vehicles and train carriages, these welding guns are primarily utilized in building ships, containers, tanks, trucks, and etc. These pull (push-pull) guns are commonly used in situations where accurate and continuous wire feeding is necessary.

PM300 Series pull (push-pull) guns have been designed to work with the wires that are difficult to feed through the standard MIG gun. These guns can be used for stainless steel, flux-cored, and thin solid wires, however, they are most commonly used for aluminum and brazing wires measuring 0.03, 0.035, 0.040, and 0.047in. Furthermore, the neck of the gun can be easily rotated 360 degrees and is simply replaceable.

The design of this pull (push-pull) gun reduces the maintenance and production time by allowing easy access to the drive rollers and performing routine maintenance without disassembling the gun.

FEATURES

- Rotatable 360 degrees gun neck and its simple replacement for maintenance.
- Possibility of using threaded or slip-on gas nozzles.
- Easy access to the drive roll tension and pressure lever on the pull gun handle.
- Impact-resistant handle that encased a durable motor.

Rating : 300A CO₂ 270A mixed gas

@ 60% duty cycle.

(as Standard IEC EN60974-7)



Recommended For :

Aluminum wires: 0.030 to 1/16 in. (0.8 to 1.6 mm)

Brazing wires: 0.030 to 1/16 in. (0.8 to 1.6 mm)

Flux cored wires: 0.030 to 1/16 in. (0.8 to 1.6 mm)

Solid wires: 0.030 to 0.040 in. (0.8 to 1.2 mm)

Gun Length : 20ft. (6m)

Recommended Gas Flow :

22-27 CHF (11-13 l/min)

for 1/2 inch (12.8 mm) nozzle bore

30-35 CHF (14-17 l/min)

for 5/8 inch (16.0 mm) nozzle bore

30-40 CHF (14-19 l/min)

for 3/4 inch (19.0 mm) nozzle bore



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- Optimal cooling for extended gun life.
- Ideal for medium and Heavy-duty industries because of its powerful 24VDC motor.
- A specially designed cable possessing outstanding flexibility with the highest degree of heat and abrasion resistance according to the relevant standards.

Technical Specification

Process	Description
Motor Voltage	24 Volt DC
Head and Nozzle style	Tweco®
Copper Cable Length	20 ft. (6 meter)
Termination Style	Euro

AIR-COOLED MIG WELDING PULL (Push-Pull) GUN, PM300 SERIES

PM300 TE

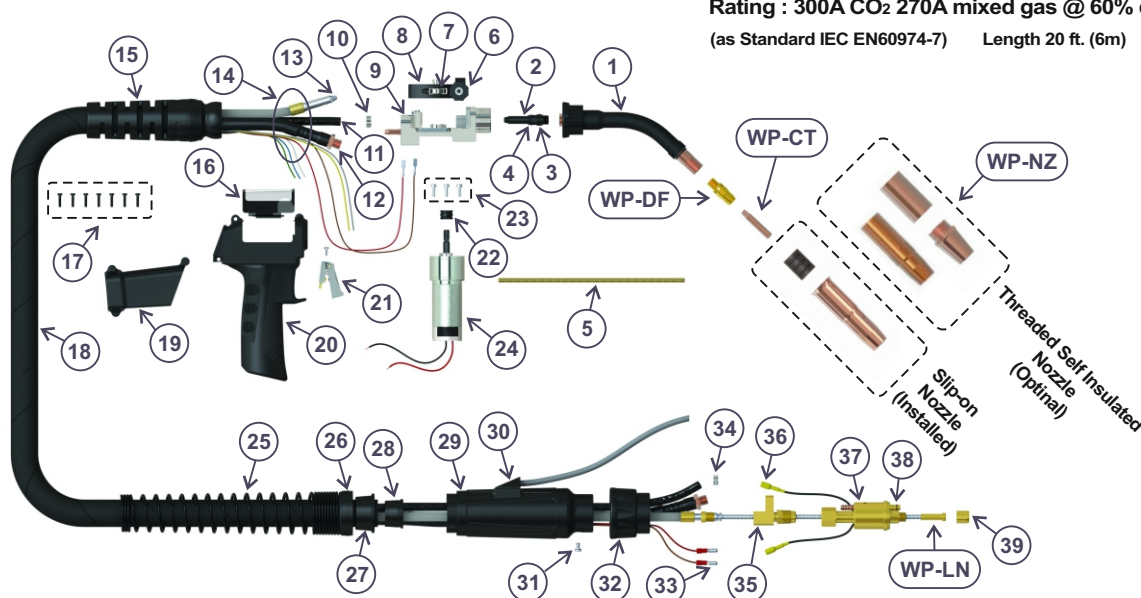
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PM300 TE

MIG WELDING PULL (Push-Pull) GUN PM300 SERIES (CWUGPTW300-24-20E)

Item	Description	Part Number	Item	Description	Part Number
1	Swan Neck Assembly	CWLS-PPTW4	22	Driver Roll For Aluminium Wire Ø0.030" (0.8mm)	CWUGP8224W-08U
2	Jump Liner Nipple	CWUGP36006	22	Driver Roll For Aluminium Wire Ø0.035" (0.9mm)	CWUGP8224W-09U
3	"O" Ring	9 x 1.5	22	Driver Roll For Aluminium Wire Ø0.040" (1.0mm)	CWUGP8224W-10U
4	"O" Ring	7 x 1.5	22	Driver Roll For Aluminium Wire Ø0.045" (1.2mm)	CWUGP8224W-12U
5	Jump Liner	CWUGPTW302	22	Driver Roll For Aluminium Wire Ø0.050" (1.6mm)	CWUGP8224W-16U
6	Tension Knob	CWUGP36402B	23	Motor Screw Pack	CWUGPMS1
7	Pressure Roll	CWUGP36402R	24	Motor 24V DC	CWUGP8224-24
8	Pressure Arm Assembly	CWUGP36402	25	Housing Spring	CWUC8027
9	Motor Body	CWUGP36001	26	Cable Support Nut	CWUT8028
10	Water Hose Clamp 8.7mm	CWUb5041	27	Canvas Cover Clamp	CWUT8009
11	Gas Hose Assembly X6mt	CWUGP36413-60	28	Canvas Cover Retainer	CWUG8010
12	Power Cable Assembly X6mt	CWUGP36415-60	29	Gun Plug Housing Assembly	CWUT5022
13	Outer Liner Assembly X6mt	CWUGP3608-60	30	Housing Inlet	CWSC8017
14	Switch Lead Assembly X6mt	CWUGP36410-60	31	Gun Plug Screw	CWUB1526
15	Handle Cable Support	CWUPG3208-BK	32	Gun Plug Nut	CWUB1519/S
16	Push Pull Handle Cover	CWUGP2514/C	33	Cable Terminal Male	CWUB1522
17	Handle Screw	CWUKA3X20	34	Water Hose Clamp 9.5mm	CWUB5024
18	Canvas Cover Assembly	CWUGP36419-60	35	Power Fitting	CWUGP3608C
19	Push Pull Handle Connector Module	CWUGP2515DMO	36	Gun Plug Terminal Female	CWUB1523
20	Push Pull Handle Assembly	CWUPG2515-KJ-BK	37	Push Pull A/C Plug Body AssemblyGun	CWUGP1528
21	Push Pull Trigger	CWUGP2516	38	Plug 'O' Ring	CWUB1524
22	Drive Roll For Steel Wire Ø0.030" (0.8mm)	CWUGP8224W-08	39	Liner Nut	CWUB1525
22	Drive Roll For Steel Wire Ø0.035" (0.9mm)	CWUGP8224W-09	WP-NZ	Wear Part - Nozzle	See the next pages
22	Drive Roll For Steel Wire Ø0.040" (1.0mm)	CWUGP8224W-10	WP-CT	Wear Part - Contact Tip	See the next pages
22	Drive Roll For Steel Wire Ø0.045" (1.2mm)	CWUGP8224W-12	WP-DF	Wear Part - Diffuser	See the next pages
22	Drive Roll For Steel Wire Ø0.050" (1.6mm)	CWUGP8224W-16	WP-LN	Wear Part - Liner	See the next pages

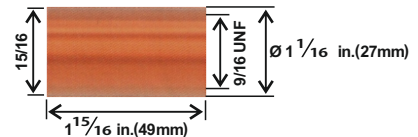
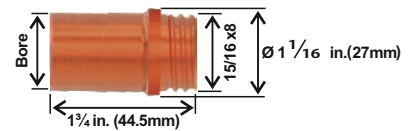
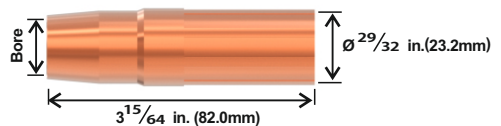
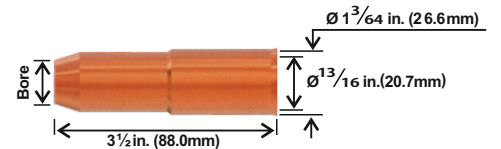
AIR-COOLED MIG WELDING PULL (Push-Pull) GUN, PM300 SERIES

PM300 TE

Rating : 300A CO₂ 270A mixed gas @ 60% duty cycle.
 (as Standard IEC EN60974-7) Length 20 ft. (6m)

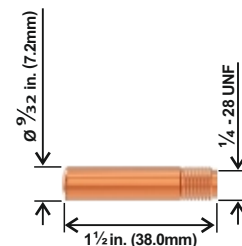
Wear Part Nozzles

Part No.	Description	Bore	Wall	Material
CWU22AH-50	Adjustable Slip-On Nozzle	½ in. (12.8mm)	⅜ in. (2.25mm)	Copper
CWU22AH-62	Adjustable Slip-On Nozzle	⅝ in. (16mm)	⅜ in. (2.25mm)	Copper
CWU22AH-75	Adjustable Slip-On Nozzle	¾ in. (19mm)	⅜ in. (2.25mm)	Copper
CWU23-50	Threaded Nozzle Self Insulated	½ in. (12.7mm)	1/16 in. (1.6mm)	Copper
CWU23-62	Threaded Nozzle Self Insulated	⅝ in. (15.9mm)	1/16 in. (1.6mm)	Copper
CWU23-75	Threaded Nozzle Self Insulated	¾ in. (19.0mm)	1/16 in. (1.6mm)	Copper
CWU24CT-50S	Nozzle Coarse Thread	½ in. (12.8mm)	9/64 in. (3.75mm)	Copper
CWU24CT-62S	Nozzle Coarse Thread	⅝ in. (16mm)	9/64 in. (3.75mm)	Copper
CWU24CT-75S	Nozzle Coarse Thread	¾ in. (19mm)	9/64 in. (3.75mm)	Copper
CWU34CT	Nozzle Insulator Fixed			



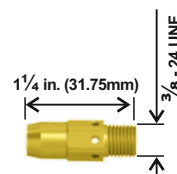
Wear Part Contact Tips

Part No.	Description	Material	Wire Size
CWU14H-30	Contact Tip	Ecu	0.030 in. (0.8mm)
CWU14H-35	Contact Tip	Ecu	0.035 in. (0.9mm)
CWU14H-40	Contact Tip	Ecu	0.040 in. (1.0mm)
CWU14H-45	Contact Tip	Ecu	0.045 in. (1.2mm)
CWU14H-52	Contact Tip	Ecu	0.052 in. (1.3mm)
CWU14H-116	Contact Tip	Ecu	1/16 in. (1.6mm)



Wear Part Diffuser

Part No.	Description	Material
CWU52A	Diffuser	Brass



Wear Part Liners

Part No.	Length	Description	Nipple	Wire Size
CWUB1564-60	20 ft. (6 m)	Polyamide 4mm O/D	Brass Nipple	0.030-0.045 in. (0.8-1.2 mm)
CWUB2564-60	20 ft. (6 m)	Polyamide 4.7mm O/D	Brass Nipple	0.045-1/16 in. (1.2-1.6 mm)
CWUB5033-60B	20 ft. (6 m)	Steel Liner	Brass Nipple	0.040-0.045 in. (1.0-1.2 mm)