

### T-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 CO<sub>2</sub> 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 | T-Style          |
| Copper Cable Length   | 20 ft. (6 meter) |
| Termination Style     | Euro             |

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

PM300 TE

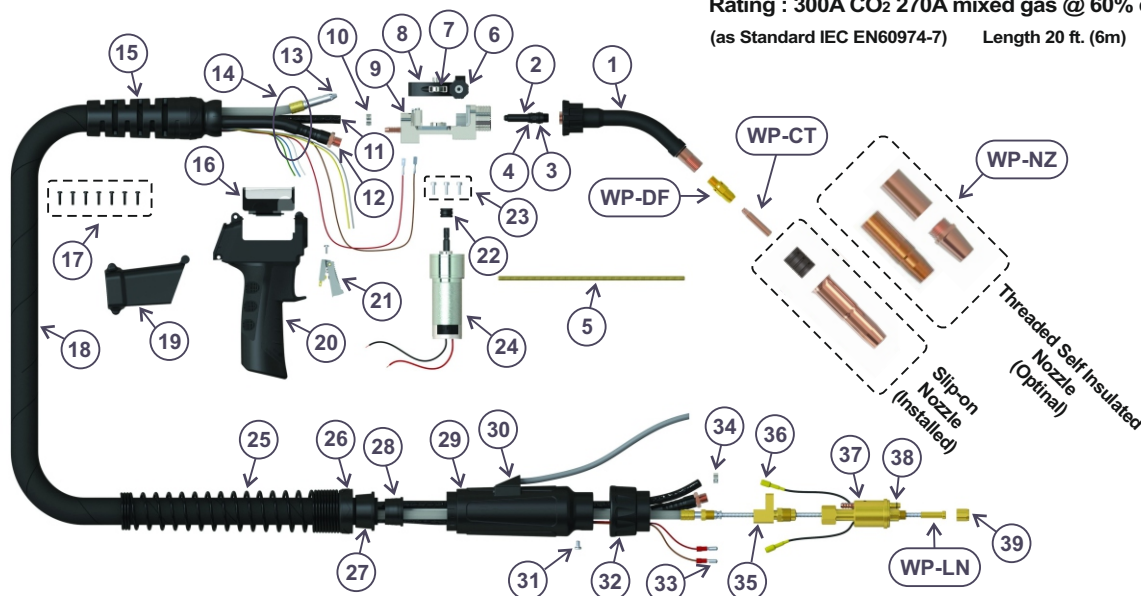
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(as Standard IEC EN60974-7) Length 20 ft. (6m)



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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 |



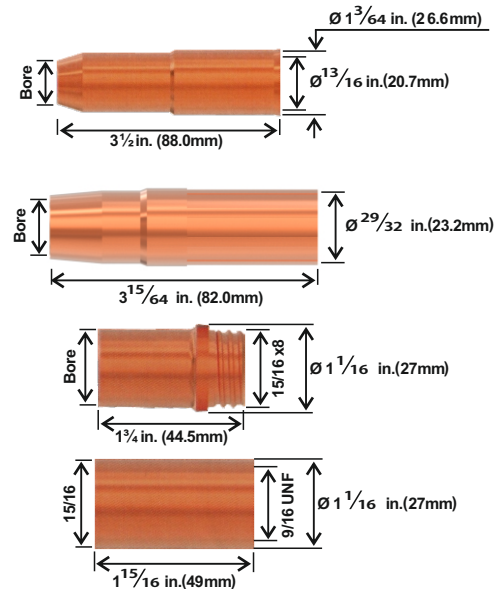
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 (as Standard IEC EN60974-7) Length 20 ft. (6m)

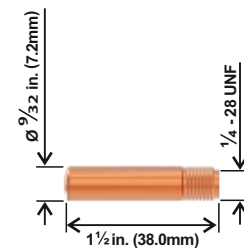
### Wear Part Nozzles

| 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         |                |                   |          |



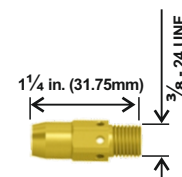
### Wear Part Contact Tips

| 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) |