



PUSH PULL WELDING TORCH FOR MANUAL APPLICATIONS



The MECHAFIN Push Pull are characterised by the following:

- Intermediate hose packages with Wire Feeder with Euro central adapter
- Lightweight and small built for long life cycles
- Any torch with Euro central adapter can be connected to the Push Pull system.
- Cable length from 5 to 25 meters for gas or water cooled torches
- Steady and safe wire feeding
- One size for everything: up to 400 Amp.
- Can be connected to almost any welding machine with the Mechafin control unit.

Technical data:

| | |
|---------------------------|-------------------|
| Control unit power supply | 24V; 48V; 220V |
| Motor power | 48V / Maximum 60W |
| Reference input | +/-50V |
| Push Pull speed | Max. 27 m/min |
| Dimensions [ØxW] | 82x330 mm |



Gas-cooled:

| | |
|---------------------------------------|--------------|
| Maximum rated current CO ² | 400 A |
| Duty cycle CO ² | 60 % |
| Maximum rated current argon *M.G. | 260 A |
| Duty cycle argon *M.G. | 60 % |
| Wire Ø | 0.8 - 2.0 mm |

* Mixture gas

Water-cooled:

| | |
|---------------------------------------|--------------|
| Maximum rated current CO ² | 400 A |
| Duty cycle CO ² | 80 % |
| Maximum rated current *M.G. | 320 A |
| Duty cycle argon *M.G. | 80 % |
| Wire Ø | 0.8 - 2.0 mm |

Motor

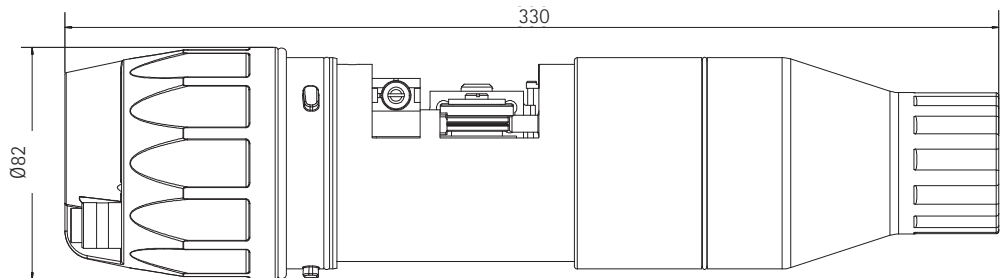
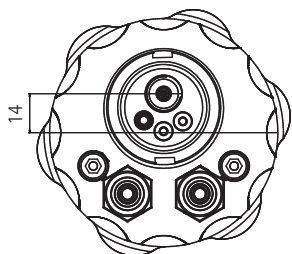
| Type | Voltage [V] | Nominal power [A] | rpm | ratio | wire speed (m/min) | wire force [N] |
|-------------|-------------|-------------------|------|--------|--------------------|----------------|
| Standard DC | 48 | 1.72 | 7750 | 1 : 20 | ca. 27 | 200 |

Twin Feed Roll selection



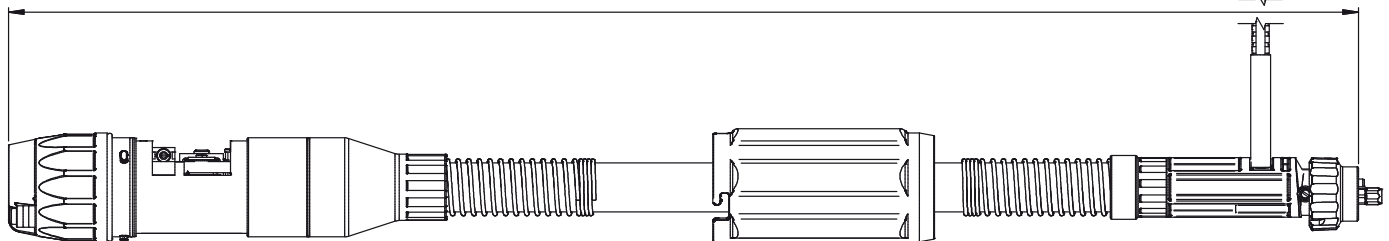
| | Twin Feed Roll 0.8 | Twin Feed Roll 1.0 | Twin Feed Roll 1.2 | Twin Feed Roll 1.4 | Twin Feed Roll 1.6 |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Steel | 114260 | 114261 | 114262 | 114265 | 114263 |
| Aluminium | 114245 | 114246 | 114247 | 114250 | 114248 |
| Knurled | - | 119524 | 117494 | 117504 | 117498 |

Dimension illustration



Weight of drive only 2.5 kg

Length 10m / 15m / 20m / 25m



Push Pull selection

| Gearing | Voltage [V] | Roll Ø | Wire | Length [m] | Cooling |
|---------|-------------|-----------|----------------------------|-------------------|----------------------|
| 1:20 | 48 | 0.8 - 2.0 | Aluminium = A Steel = S | 10 / 15 / 20 / 25 | Water - W Gas - A |

Order sample: PP-20-48-08-A-25-W = Push Pull, gearing 1:20, voltage 48V, rolls 0.8mm aluminium, length 25m, water cooled

Liners

| | 5 m | 10 m | 15 m | 20 m | 25 m |
|---------------------------|--------|--------|--------|--------|--------|
| Soft Liner blue Ø 0.8-1.0 | 119918 | 116413 | 116079 | 116414 | 116080 |
| Soft Liner red Ø 1.0-2.0 | 119919 | 116423 | 116081 | 116424 | 116082 |
| Liner grey Ø 0.8-1.0 | 119920 | 116476 | 116477 | 116478 | 116479 |
| Liner red Ø 1.0-2.0 | 119921 | 116480 | 116481 | 116482 | 116483 |

Inlet guide tubes

| | | | |
|-------------------------------------|--------|-------------------------|--------|
| | | Inlet guide tube ID 1.2 | 114301 |
| Superglide wire guide compl. ID 1.5 | 116049 | Inlet guide tube ID 1.5 | 114302 |
| Superglide wire guide compl. ID 2.0 | 116050 | Inlet guide tube ID 2.0 | 114303 |
| Superglide wire guide compl. ID 2.5 | 116051 | Inlet guide tube ID 2.5 | 114304 |

Selection sheet Push Pull

| Motor voltage [V] | Feed Roll U-Groove for aluminium wire | Feed Roll V-Groove for steel wire | Feed Rollrandiert for cored wire | Lenght | Cooling | Control box |
|--------------------------|---------------------------------------|-----------------------------------|----------------------------------|--------------------------|------------------------------|---------------------|
| 48.0 | 0.8A | 0.8S | | 5 | water (WSC) air (ASC) | 24 48 110-220 |
| | 1.0A | 1.0S | 1.0R | 10 | | |
| | 1.2A | 1.2S | 1.2R | 15 | | |
| | 1.4A | 1.4S | 1.4R | 20 | | |
| | 1.6A | 1.6S | 1.6R | 25 | | |
| other options on request | other options on request | other options on request | other options on request | other options on request | | * |

Ordering code example: PP-WSC, 48V, 1:20, 1,2A, 10 m, + control






Push-Pull with 48 volt, 1:20, aluminium wire Ø1.2, lenght 10 m, with control box

Mechafin standards for control unit

| Length | Water cooled steel wire Ø 1.2 | Water cooled aluminium wire Ø 1.2 | Ari cooled steel wire Ø 1.2 | Air cooled aluminium wire Ø 1.2 |
|--------|-------------------------------|-----------------------------------|-----------------------------|---------------------------------|
| 5 m | 119864 | 119915 | 118458 | 119916 |
| 10 m | 117218 | 117215 | 117208 | 117204 |
| 15 m | 117219 | 117216 | 117209 | 117205 |
| 20 m | 117217 | 117214 | 117210 | 117206 |
| 25 m | 117220 | 117213 | 117211 | 117207 |

NEW Push Pull Control Unit:

- Simple operation
- Can be connected to almost any welding system all over the world
- Uniform and safe wire feeding

|  Front view | Item number | Motor Voltage [V] | Included in it |
|---|-------------|-------------------|---|
|  Rear view | 118138 | 110 - 220 |  Power supply unit and 2 m cable |
| | 119572 | 24 |  2 m cable |
| | 119769 | 48 |  2 m cable |



117953 PP-Roller



118532 Cover textile grey



116493 Protective rubber cover



117951 PP-magnet holder



Mechafin AG
 Chrummacherstr. 3 | CH-8954 Geroldswil | Switzerland
 Telephone +41 44 749 30 60 | Facsimile +41 44 749 30 70
 Mail info@mechafin.ch | Web www.mechafin.com

Mechafin Ltd
 Leigh Street | High Wycombe | Buckinghamshire | HP11 2QU UK
 Telephone +44 1494 441 110 | Facsimile +44 1494 473 049
 Mail enquiries@mechafin.co.uk | Web www.mechafin.com