

# MXH™ 300/400w PP

## Electric Push-Pull welding guns

Content of delivery and connections to various feed units

The MXH™ 300/400w PP electric Push-Pull welding guns comes available with 6.0 or 10.0 m cable length. The delivery includes a wire feed system capable of handling wires 0.8-1.2 diameter (MXH™ 300 PP) and 0.8-1.6 diameter (MXH™ 400w PP). The guns are equipped with a potentiometer for wire feed speed adjustment and a start/stop switch.

Spring loaded contact pins are used in the central connector to ensure good and reliable operation of the start/stop signal.

The standard delivery is completed by Polyamide liner, feed roll, and contact tip for 1.2 mm wire dimension.

MXH™ 300/400w PP is supplied as standard with a straight neck. A 45 degrees swan neck is available as an option. The 45 degree neck permits **360 degrees rotation** to fit various welding positions.

MXH™ 300/400w PP are ideal for feeding aluminium and other small diameter or soft wires up to 10.0 m from the main wire feed unit. MXH™ 300/400w PP are powered by either Origo™ Feed, Aristo™ Feed, Origo™ Mig C340 or Origo™ Mig C420.

### Aristo™ and Origo™ Feed:

The digital Aristo™ and Origo™ Feed require a connection kit or a combined connection and wire feed control kit assembled to the feed unit. (See accessory list.)

### Aristo™ and Origo™ Mig C3000i:

The digital compact inverter requires a connection kit or a combined connection and wire feed control kit assembled to the feed unit. (See accessory list.)

### Origo™ Feed M12, M13:

Origo™ Feed M12 and M13 are equipped with the standard 23-pole Burndy socket for direct connection of MXH™ 300/400w PP.

### Origo™ Mig C340/C420:

For connection to Origo™ Mig C340/C420, please equip the power source with the connection kit. (See accessory list)

## Applications

- High speed ferries in aluminium
- Top deck of any vessels
- Bus and truck chassis
- Containers and tanks



### Operation

MXH™ 300/400w PP is powered by Origo™ / Aristo™ Feed, Origo™ / Aristo™ Mig C3000i or Origo™ Mig C340/C420 and the cooperation between the front feeder (pull) and the main feeder (push) is controlled by the PCB of the main feeder.

The motor and gear ratios of both the MXH™ PP guns and the push feeder have been optimised to ensure an accurate Push-Pull feeding system.

Start performances and a quick response to any changes in wire feed speed are other important parameters which MXH™ 300/400w PP systems are capable to control accurately.

Connect MXH™ 300/400w PP to Aristo™ Feed 3004 and experience the excellent Aristo™ SuperPulse process.

- Air and water cooled pistol grip guns with straight and curved, 45 degrees swan necks
- Allows 360 degrees rotation of the curved swan neck to fit various welding positions
- Couples with ESAB feeding mechanisms to perform a high performance Push-Pull feeding system
- Ideal for feeding aluminium and other small diameter wires long distances
- Wire feed speed control by potentiometer located in the gun handle

## Technical data

	<b>MXH™ 300 PP</b>	<b>MXH™ 400w PP</b>
<b>Permitted load at 60% duty cycle</b>		
Carbon dioxide CO <sub>2</sub>	290 A	420 A
Mixed gas Ar/CO <sub>2</sub>	260 A	380 A
<b>Permitted load at 100% duty cycle</b>		
Carbon dioxide CO <sub>2</sub>		400 A
Mixed gas Ar/CO <sub>2</sub>		350 A
<b>Recommended gas flow</b>	10 - 20 l/min	10 - 20 l/min
<b>Wire diameter</b>	0.8 - 1.2 mm	0.8 - 1.6 mm
<b>Cable assembly</b>	6.0 and 10.0 m	6.0 and 10.0 m
<b>Type of cooling</b>	Air	Water
<b>Swan neck</b>	Straight	Straight
<b>Plug control leads</b>	Burndy 23-pole	Burndy 23-pole
<b>Weight</b>		
6.0 m	6.6 kg	5.6 kg
10.0 m	9.2 kg	7.8 kg
<b>Standards</b>	IEC/EN 90674-7	



## Ordering information

MXH™ 300 PP 6.0 m	0700 200 017
MXH™ 300 PP 10.0 m	0700 200 018
MXH™ 300 PP 45° 10.0 m	0700 200 020
MXH™ 400w PP 6.0 m	0700 200 015
MXH™ 400w PP 10.0 m	0700 200 016
MXH™ 400w PP 45° 10.0 m	0700 200 019

### Wear parts:

Contact tip M8 x 37 CuCrZr W0.8	0468 502 003
Contact tip M8 x 37 CuCrZr W0.9	0468 502 004
Contact tip M8 x 37 CuCrZr W1.0	0468 502 005
<b>Contact tip M8 x 37 CuCrZr W1.2</b>	<b>0468 502 007</b>
Contact tip M8 x 37 CuCrZr W1.6	0468 502 009
<b>Gas nozzle standard Ø</b>	<b>0458 464 882</b>
Gas nozzle conical Ø	0458 465 882
Gas nozzle straight Ø	0458 470 882
Spatter protection	0458 471 003
Gas nozzle "slip on"	0469 753 880
Cooling sleeve	0469 757 880
Spatter protection "slip on"	0469 539 001
<b>Tip adapter M8 short</b>	<b>0366 394 002</b>
Tip adapter M8 long	0458 224 001
Steel liner 0.8 mm	0700 200 176
Steel liner 1.0 mm/1.2 mm	0700 200 177
PTFE liner 0.8 mm	0700 200 179
<b>Polyamide liner 1.0/1.6 mm</b>	<b>0700 200 181</b>
Feed roll, 0.8 mm - SS, AL, MS	0700 200 184
Feed roll, 1.0 mm - SS, AL, MS	0700 200 185
<b>Feed roll, 1.2 mm - SS, AL, MS</b>	<b>0700 200 186</b>
Feed roll, 1.6 mm - AL	0700 200 205

### Accessories:

Swan neck 45° air-cooled	0700 200 253
Swan neck 45° water-cooled	0700 200 251
Wear insert 45° swan neck, 0.8-1.2 mm	0700 200 183
Connection kit, Aristo™/ Origo™ Feed	0459 020 883
Connection and wire feed control kit, Aristo™/ Origo™ Feed	0459 681 881
Connection and wire feed control kit, Aristo™ / Origo™ Mig 3000i	0459 681 891
Connection kit Origo™ Mig C420	0349 308 337
Connection kit Origo™ Mig C340	0349 308 980

**Bold = standard delivery of wear parts**

### Quality accessories for the quality welder

ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at [www.esab.com](http://www.esab.com) or contact your local ESAB dealer.

### Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.



**ESAB AB**  
 Box 8004  
 SE-402 77 GÖTEBORG SWEDEN  
 Phone: +46 31 50 90 00 Fax: +46 31 22 04 49  
 E-mail: [info@esab.se](mailto:info@esab.se)  
[www.esab.com](http://www.esab.com)

