



# Origo™ FeedAirmatic M10

## Feeder unit for pneumatically operated Push-Pull guns PKB™ 250 and 400

### Sturdy and reliable

Sturdy design with galvanised metal casing for use in tough environments.

This electronic feeding unit is a part of ESAB well proven A9 pneumatic push-pull system. The feeding unit pushes the wire through the hose and the pneumatic welding gun PKB™ pull the wire by a compressed air operated turbine motor.

The motor driven wire feed unit in Origo™ FeedAirmatic is mounted on the output shaft of the electric motor and comprises a driven feed roller and a freewheeling pressure roller. Pressure is exerted on the wire by means of an adjustable spring mechanism.

Origo™ FeedAirmatic is fitted with a filter regulator. This drains automatically when the compressed air system is switched off. The pressure is permanently set at 5 bar.

### With safety in mind

Designed to meet the most rigid safety standard IEC 60974-5 with low voltage (42 V/AC) operations and overload protection circuit to eliminate breakdowns.

### Flexibility

The panel M10 is easy to operate with only a potentiometer for voltage adjustment (thyristor controlled power sources) and a switch for remote ON/OFF. The wire feed speed is adjusted pneumatically from the PKB™ push-pull gun. The complete push-pull system consisting the wire feeding unit Origo™ FeedAirmatic, the push-pull gun PKB™ 250 or PKB™ 400 and a hose package. The system ensures smooth, problem-free wire feeding especially of soft aluminium wire in the dimension from 0,8 to 1,6 mm. Extended working radius additional to the different hose packages can be obtained by adding connection cables of the lengths 5, 10 and 15 m between the power source and the wire feed unit.

Complete hose packages are available in 3 different lengths: 5, 10 and 16 m.

Origo™ FeedAirmatic is designed for the step controlled power sources Origo™ Mig 320/410/510 and the thyristor controlled power sources Origo™ Mig 400t/500t/630tw MAGMA.

| Panel functions                  | M 10 |
|----------------------------------|------|
| Voltage adjustment               | X    |
| On/off switch for remote control | X    |
| Digital V/A meter, option        | (x)  |



Extra versatility can be provided by utilising one of the following mounting options for the Origo™ Feed. Counterbalance & Mast, Wheel Kit or Hanging Bracket.

### Easy service and maintenance

The feeder mechanism is easy to access and all wear parts can easily be exchanged. One single pressure device makes it easy to adjust the appropriate feeding pressure.

All electric components are protected in a separate compartment.

- **The push-pull system ensures smooth, problem-free wire feeding** which is especially important when welding soft aluminium or other thin wires
- **Permits welding hose packages up to 16 m**
- **Extended working radius** with connection cables up to 31 m
- **Digital V/A meters** (Option)
- **TrueArcVoltage System**, measures the correct arc voltage value independent of the length of the interconnection cable, return cable or welding hose package
- **Extra versatility can be achieved** by attaching a counterbalance device, wheel kit and a hanging bracket.
- **Enclosed Wire Spool** keeps the wire clean

## Technical data

|   |                            |
|---|----------------------------|
|   | <b>Origo™ FeedAirmatic</b> |
| Power supply, Vac/Hz                              | 42, 50/60                  |
| Compressed air, bar                               | Min 5                      |
| Wire spool capacity, kg                           | 18 (30 **)                 |
| Maximum spool diameter, mm                        | 300 (440**)                |
| Gun connector                                     | ESAB, PKB™ 250/400         |
| Capacity at 60% d.c. A                            | 400                        |
| Enclosure class                                   | IP 23                      |
| Enclosure class **                                | IP 2X                      |
| <b>Setting data</b>                               |                            |
| Wire feed speed, m/min<br>(adjustable by the gun) | Max 15                     |
| <b>Dimension (l x w x h), mm</b>                  |                            |
| enclosed version (Encl)                           | 690 x 275 x 420            |
| <b>Weight, kg</b>                                 |                            |
| enclosed version (Encl)                           | 15                         |
| <b>Wire dimensions, mm</b>                        |                            |
| steel   | 0.6-1.6                    |
| stainless steel                                   | 0.6-1.6                    |
| aluminium   | 0.8-1.6                    |
| cored wire  | 0.8-1.6                    |



## Ordering information

|  |                 |
|--|-----------------|
| Origo™ FeedAirmatic, M10, enclosed             | 0459 116 680    |
| <b>Accessories Origo™ Feed</b>                 |                 |
| Wheel kit                                      | 0458 707 880    |
| Spool cover, steel                             | 0459 431 880    |
| Strain relief for welding gun                  | 0457 341 881    |
| Strain relief for interconnection cables       | 0459 234 880    |
| Lifting eye                                    | 0458 706 880    |
| Quick connector MarathonPac™                   | F102 440 880    |
| Adapter for 5 kg:s spool                       | 0455 410 001    |
| Counter balance device compl. 300 mm bobbin    | 0458 705 880    |
| Counter balance device compl. 440 mm bobbin    | 0458 705 882    |
| Adapter for spool diameter 440 mm              | 0459 233 880 ** |
| Remote control MIG 2 (Only voltage adjustment) | 0349 501 028    |
| Remote control M1 (Only voltage adjustment)    | 0459 491 895    |
| Remote interconnection cable M1 5m             | 0459 553 880    |
| Digital V/A meter for Origo™ Mig 400t/500t     | 0455 173 882    |

**Delivery content: Allen key, hose clamp, 5 inlet nozzles for PKB™ and Instruction manual**

## Ordering information

|                                       |              |
|---------------------------------------|--------------|
| PKB™ 250                              | 0152 700 881 |
| PKB™ 400                              | 0152 470 881 |
| Welding hose complete 5 m (PKB™ 250)  | 0468 790 880 |
| Welding hose complete 10 m (PKB™ 250) | 0468 790 881 |
| Welding hose complete 16 m (PKB™ 250) | 0468 790 882 |
| Welding hose complete 5 m (PKB™ 400)  | 0468 790 883 |
| Welding hose complete 10 m (PKB™ 400) | 0468 790 884 |
| Welding hose complete 16 m (PKB™ 400) | 0468 790 885 |

## Interconnection cables incl. hose for compressed air

|        |              |
|--------|--------------|
| 1,7 m  | 0469 836 900 |
| 5,0 m  | 0469 836 901 |
| 10,0 m | 0469 836 902 |
| 15,0 m | 0469 836 903 |



**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  
[www.esab.com](http://www.esab.com)

