

## FitWeld Evo 300

Big power, small package, quick ignition – excellent size, weight and power ratio for site welding applications



# Features

User-friendly, easy to fine tune arc parameters even during welding



# Features

**Brights™** white LEDs illuminate the wire feed mechanism. This makes wire spool changes and feed mechanism adjustment easy in dark conditions.

Durable cast aluminium GT WireDrive™ mechanism with fast change and colour coded feed rolls. Reliable wire feeding and easy adjustment.

Rubber-protected polarity change connectors allow either positive or negative MIG/MAG polarity use.

Cabinet door latch mechanism is protected from damage and also accidental opening.

New safe spool hub and spool brake.

GasGuard™ prevents accidental welding without shielding gas, flow regulation (l/min).

Safe plastic case which is reinforced by fibers. Power source protection even for extreme indoor/outdoor conditions.

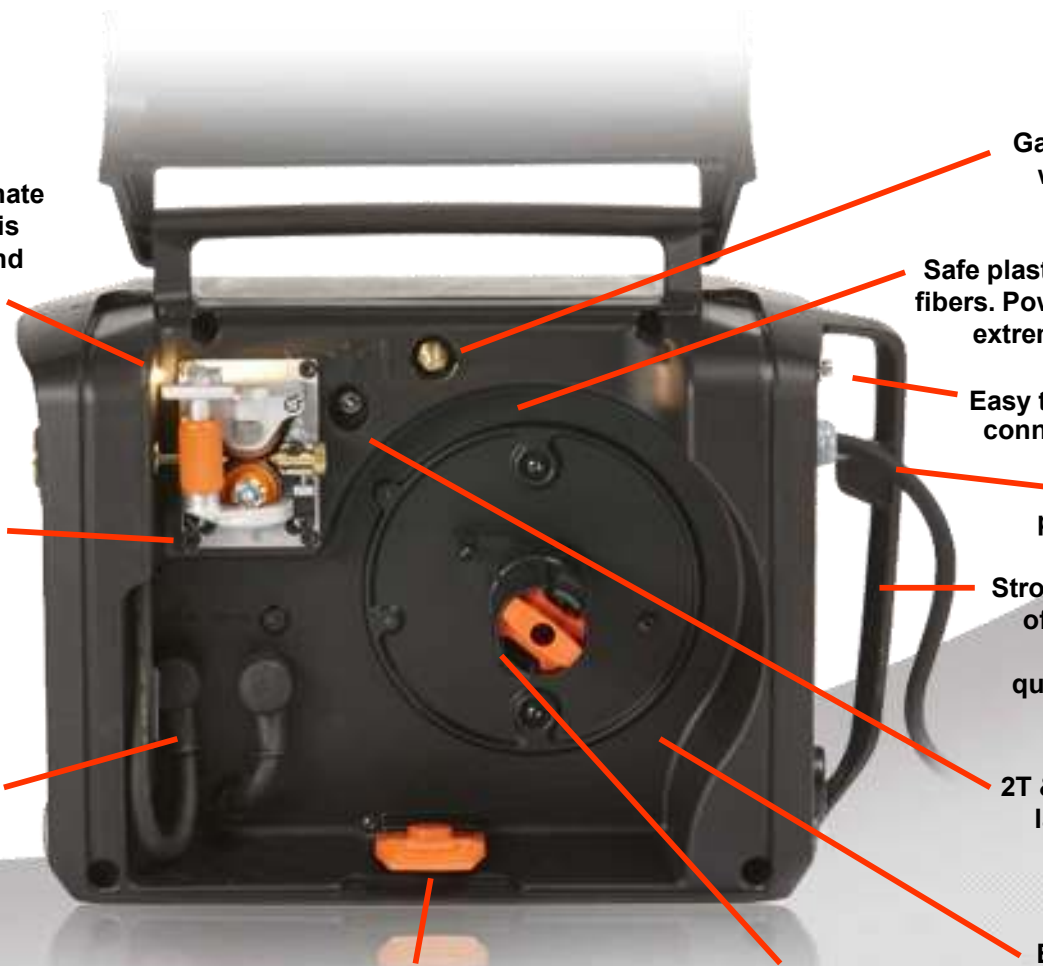
Easy to release “Snap on” gas hose connector for 6.0 m long gas hose.

Connection cable (5 m) pre-connected to the machine.

Strong handles at the top and rear of the reinforced plastic casing. Rear handle also protects the quick release gas connector and return cable fittings.

2T & 4T MIG gun switch selection latching for longer weld seams and also GasGuard™ OFF position / 2T.

Enclosed wire cabinet helps to protect wire from welding environment humidity, dust & metal powder impurities. Optional cabinet heater available.



# Advantages

## *FitWeld Evo 300*

- Portable 300A/14.5 kg - easy to move to the work site.
- Strong handles mounted to the top and rear of the reinforced plastic casing
- Used for tacking, installation and even light production welding.
- Multi-voltage power source design for connection to 230 V and 380 V-440V 3-phase input voltages.
- Special arc ignition control techniques called QuickArc™ delivers clean, crisp and stable results, even with 1.2 mm filler wire.
- Digital parameter display guarantees fast setting and accurate adjustment to follow the specified WPS.
- Easy and efficient to carry within the most demanding welding sites.
- Complete the welding tasks without special arrangements for the space required by welding device.

# Customers

## *FitWeld Evo 300*

- Tacking
- Installation & maintenance
- Metal fabrication
- Process industry
- Automotive
- Shipbuilding & offshore
- Rental & hire

## Applications

- Thin & medium thickness sheet welding
- Tacking of thicker plates
- Pipe welding
- Solid, flux cored wires & metal cored wires





# Benefits

## *Fitweld Evo 300*

### GasGuard™

- Fitted as standard to FitWeld Evo 300, Kemppi Gas Guard™ eliminates the possibility to weld without shielding gas, helping to prevent unnecessary rework and damage to the welding gun.
- A new gun costs approx. € 200
- No time wasted for replacing the gun and stopping the work.



GasGuard™ shielding gas  
ON/OFF light



# Benefits

## *Fitweld Evo 300*

### **FitWeld weighs only 14.5 kg**

- Welder is able to carry FitWeld and no crane or fork lift is needed to move the machine  
-> time saving of 2% means
- **€ 1000 - € 1500 / welder / year / shift + there is no extra cost for fork lift driver or crane.**



# Benefits

## *Fitweld Evo 300*

- More than twice as fast in tack welding as MMA machines
  - 20 pcs 50 mm tack welds; FitWeld vs. MMA
  - Total work time (welding + rework)
    - MMA: 606 s = 0.1 h
    - FitWeld: 308 s = 0.05 h
  - Time saving a day approx. 3 h -> € 90 a day -> € 1980 / welder / year / shift
- Savings in rework and increase in welding quality (productivity)
  - The same filler material is used for tack welding and continuous welding -> fewer welding failures and rework (root openings and repair welds) -> 1h extra work costs € 30.



# Technical specifications

## Fitweld Evo 300



Connection voltage	3 ~, 50/60 Hz	230 V and 380-440 V $\pm 10\%$
Rated power at max. current		10.9 kVA
Supply current	20% ED I1max	230 V: 30 A – 400V: 16 A
	20% ED I1eff	230 V: 14 A – 400 V: 6.2 A
	20% ED	300 A 29 V
Output 40 °C	60% ED	200 A 24 V
	100% ED	170 A 22.5 V
Connection cable	H07RN-F	4G1.5 (5 m)
Fuse (delayed)		230 V: 16 A – 400 V: 10 A
Open circuit voltage		230V: 45V DC – 400V: 47V DC
Power factor at max. current		230 V: 0.92 – 400 V: 0.95
Efficiency at max. current		230.V: 82.7% – 400.V: 86.3%
Welding range		40 A/16 V – 300 A/30 V
Wire spool (max. $\varnothing$ )		200 mm
Wire feed mechanism		2-roll feed
Filler wires	Fe solid	0.8 – 1.2 mm
	Fe cored	0.8 – 1.2 mm
	Ss	0.8 – 1.2 mm
	Al	1.0 – 1.2 mm
External dimensions	L x W x H	457 x 226 x 339 mm
Weight		14.5 kg
EMC class		A
Minimum short circuit power Ssc of supply network*		1.9 MVA
Degree of protection		IP23S
Operating temperature range		-20 °C ... +40 °C
Storage temperature range		-40 °C ... +60 °C