



# MASTERWELD

*The ultimate Welding Machine*

## MasterWeld MW 301

**MW 301** is a compact, **3 Phase** and robust designed Inverter for MIG/MAG, MMA and Lift TIG Arc welding. Easy to transport, **only 24kg (including a spool of 5kg 200mm diameter)**, it is the best option for maintenance and repair on field, shipyard and off-shore operations. Polarity change allows welding with **self shielded wires**. Innovative **Masterweld unique MAC** (Master Arc Control) supplies a soft and very stable MIG-MAG arc with excellent weld bead quality and minimal spattering in any working conditions.

**Friendly-user interface** allows precise parameters setting using only two knobs.

**Soft Arc** parameter optimizes the current and the arc based on the welding material.

Additional parameters, **Motor Slope, Soft Start, Burn Back and Post Gas** are included for perfect arc ignition and optimum wire cutting at the end of welding.

**Inductance** is **electronically adjustable** from the front panel and optimizes the arc.

**Built-in Wind Tunnel** protects electronic devices from dust and saltiness, improving **MW 301** life cycle.

A perfect wire feeding is guaranteed thanks to a **4-rolls motor drive** included in **MW 301**.



### Features

- Up to 5mm electrodes in MMA
- Adjustable Arc Force and Hot Start in MMA welding
- Lift TIG ignition to reduce Tungsten inclusions

Your local distributor



**MASTERWELD**  
*The ultimate Welding Machine*

## Accessories

MW 301	
Sliding Kit 2	
Sliding Kit 3	
Trolley 02	
Trolley H	
Shoulder Strap	
Electrode Holder 35mm <sup>2</sup> L=4m	
Earth Cable 35mm <sup>2</sup> L=4m	
Torch Masterweld MW300MIG Welding Torch L=4m	
Torch TIG SINTIG 26 AIR L=4m EURO	
Feeding Rolls D=30d=140,6/0,8mm V	
Feeding Rolls D=30d=140,8/1,0mm V	
Feeding Rolls D=30d=141,0/1,2mm V	
Feeding Rolls D=30d=140,8/1,0mm U	
Feeding Rolls D=30d=141,0/1,2mm U	
Feeding Rolls D=30d=141,0/1,2mm VK	
MANOMETER	
FLOWMETER	
<b>Suggested composition:</b>	
MW 301	
Earth Cable 35mm <sup>2</sup> L=4m	
Torch Masterweld MW300MIG Welding Torch L=4m	
MANOMETER	

Processes: MIG/MAG- TIGDC- MMA

CE Directives: 2002/95/CE, 2004/108/CE, 2006/95/CE

CE Standards: EN 60974-1, EN 60974-10

### Masterweld Technology Inside

- Lower harmonic current emissions
- Lower input current

### MAC Master Arc Control

- Soft Arc, Low spattering
- Better welds, Money savings

## Motor Drive

Input voltage	24VDC
P <sub>MAX</sub>	35W
r.p.m	210
???	1,0 - 20,0m/min
???	n°4 (ø30mm - ø14mm) Fe 0,6 - 1,2mm Al 0,8 - 1,2mm FCW 1,0 - 1,2mm
???	200mm (5kg) - 300mm (15kg)

## Details

Input voltage	3 x 400V voltage protected ± 15%/ 50-60 Hz								
Amperage draw	16A								
Duty cycle	MIG - MAG			TIG			MMA		
% (40°C)	35%	60%	100%	50%	60%	100%	40%	60%	100%
Amps	300A	230A	200A	250A	240A	210A	250A	220A	190A
Amps - Min & Max	5A - 300A			5A - 250A			5A - 250A		
Open circuit voltage (OCV)	53V								
P <sub>1MAX</sub>	10,3kVA - 9,7kW								
IP	23S								
Dimensions	410 x 270 x 355mm								
Weight	19,0Kg								

Your local distributor



**MASTERWELD**  
The ultimate Welding Machine