

THE RANGE

# PORTABLE



✓ Silenced/  
SuperSilenced

✓ Manual trolley

✓ Protective frame

✓ Diesel/Petrol

✓ Arc welding source  
in D.C. welding



Some welding machines incorporate the “Power Optimizer” function , designed and patented by MOSA.

This is a specific control technique aimed at preventing the engine overload when working near to its power limit. With the “Power Optimizer” it is possible to ensure stable and optimal operation in all the welding conditions, exploiting the full power of the engine .





# SMALL IN SIZE BIG ON PERFORMANCE

**LAUNCHED IN 2005 THE NEW MAGIC WELD IS A COMPACT PROFESSIONAL WELDER-GENERATOR WHICH IS EASY TO TRANSPORT.**

The weight of the whole machine is only 34 kg. Driven by a Honda 4-stroke petrol engine, it uses an innovative permanent magnet alternator to supply a welding current of up to 150 A DC, and it can function simultaneously as a welder and generator.



The presence of an auto idle economizer introduces the concept of “power on demand”, allowing both fuel savings and reduced engine wear. The New Magic Weld is able to weld any kind of electrode (rutile, basic, cellulose) up to 3.25 mm and takes full advantage of the engine’s power output thanks to a technology developed by MOSA known as “Power Optimizer”. Additionally, you can also use it as auxiliary power generator 230v or 110v up to 2 kW DC to power small tools or lighting. The New Magic Weld is compact and professional, proves indispensable as the most portable machine for carrying out welding repairs on site.



PORTABLE

# MAGIC WELD 200

ALL THE POWER  
OF 200A IN 61 KG  
PACKAGE

The weight of the whole machine is only 57 kg. Driven by a Honda petrol engine it uses an innovative permanent magnet to supply a welding current of up to 200A DC, and it can function simultaneously as a welder and generator.



The presence of an auto idle economizer introduces the concept of “**power on demand**”, allowing both fuel savings and reduced engine wear. The Magic Weld 200 is able to weld any kind of electrode (rutile, basic, cellulose) up to 4 mm and takes full advantage of the engine’s power output thanks to a technology developed by MOSA known as “Power Optimizer”. AC auxiliary power of 3.25 kW/50 Hz 230v or 110v is also available, suitable for powering small tools or lighting. Another professional feature of the Magic Weld 200 is its set-up for connection to a remote control (optional), which allows the operator to control the machine from a distance of up to 20 m.



# NEW MAGIC WELD



## FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- High frequency control of welding current and voltage
- Permanent magnet alternator
- Chopped D.C. auxiliary current (safe for tools)
- Engine shut down for low oil level (oil alert)
- Power optimiser (patent pending)
- Auto Idle
- Meets EC directives

## ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 200
* Output	4 kW (5.5 HP)
Cylinders / Displacement	1 / 196 cm <sup>3</sup>
Speed	4000 rpm
Fuel consumption (welding 60%)	1,1 l/h

\* Maximum output (not overloadable) according to SAE J1349

## GENERAL SPECIFICATIONS

Tank capacity	3.1 l
Running time (welding 60%)	3 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	420x360x480
* Dry weight	34 kg
** Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)

\* Values shown do not include trolleys. \*\* For fixed installation only

## D.C. WELDING (Constant Current)

Current range, continuous	30A ÷ 150A
Duty cycle	150A - 60%
Open circuit voltage	67V

## A.C. GENERATION - 50HZ

### PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS

Single-phase generation (max)	2 kW / 230V c.c. / 8.7 A
Single-phase generation (continuous)	1.6 kW / 230V c.c. / 6.9 A
Insulation class	H

# MAGIC WELD 200



## FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- High frequency control of welding current and voltage
- Permanent magnet alternator
- Single-Phase, 50Hz aux current, inverter generated
- Engine shut down for low oil level (oil alert)
- Power optimiser (patent pending)
- Auto Idle
- Protective frame
- Meets EC directives

## ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 270
* Output	6.3 kW (8.5 HP)
Cylinders / Displacement	1 / 270 cm <sup>3</sup>
Speed	3600 rpm
Fuel consumption (welding 60%)	1.5 l/h

\* Maximum output (not overloadable) according to SAE J1349

## GENERAL SPECIFICATIONS

Tank capacity	5.3 l
Running time (welding 60%)	3.5 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	630x490x540
* Dry weight	61 kg
** Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)

\* Values shown do not include trolleys. \*\* For fixed installation only

## D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 200A
Duty cycle	200A - 60%
Open circuit voltage	70V

## A.C. GENERATION - 50HZ

### PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS

Single-phase generation (max)	3 kVA / 230V / 13 A
Single-phase generation (continuous)	2.5 kVA / 230V / 10.9 A
Insulation class	H