

# WELDING GENERATOR

## GM 5-200 HBM

The images are for reference

### WELDING PROCESS



Shielded Metal Arc welding SMAW (STICK)



### FEATURES

- Arc welding source in D.C. welding
- A.C. generator, single-phase
- Protective frame with central lifting eye
- Engine shut down for low oil level (oil alert)
- Thermal protection for welding circuit
- Thermal protection for generator sockets
- Differential protection (on request)
- Compliant with EC / EU Directives

### DEFINITIONS

**SMAW:** Coated electrode welding is an arc welding with protected metal.

**GMAW:** welding is an arc process with metal under gas protection.

**FCAW (FLUX CORED):** The process with cored wires is very similar to MIG / MAG welding. Continuous wire is not full but consists in a metal strip that wraps a powders core (flow).

**GTAW:** is a welding process that uses a tungsten electrode that cannot melt.



air cooled



diesel



manual recoil

## ENGINE 3000 RPM

4-TEMPI, OHV	
Model	HONDA - GX 390
* Stand-by net power	8.2 kWm (11.1 hp)
* PRP net power	6.4 kWm (8.7 hp )
* COP net power	/
Cylinder / Displacement	1 / 389 cm <sup>3</sup> (0.39 lt.)
Bore / Stroke	88 / 64 (mm)
Compression ratio	8.2 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
<b>FUEL CONSUMPTION</b>	
110 % (Stand-by power)	3.5 lt./h
100 % of PRP	3.2 lt./h
75 % of PRP	2.4 lt./h
50 % of PRP	1.6 lt./h
25% of PRP	
<b>COOLING SYSTEM</b>	
Total system cap. - only engine	/
Fan air flow	

<b>LUBRIFICATION SYSTEM</b>	
Total oil system capacity	1.1 lt.
Oil capacity in sump	/
Oil consumption at full load	
<b>EXHAUST SYSTEM</b>	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
<b>ELECTRICAL SYSTEM</b>	
Starter motor power	/
Battery charging alternator cap.	/
Cold start	/
<b>AIR FILTER</b>	
Combustion air flow	/
<b>HEAT REJECTED AT FULL LOAD</b>	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

\* Potenze dichiarate in accordo a ISO 3046-1

# CHARACTERISTICS OF WELDING AND GENERATION

## C.C. WELDING

### CONSTANT CURRENT

Current range	40A / 21.6V ÷ 200A / 20V
Type of regulation	Step adjustment
Duty cycle	160A / 26.4V - 60%   120A / 24.8 - 100%
Open circuit voltage	85V
Arc force control	No

## GENERAL SPECIFICATIONS

Fuel tank capacity	6.1 l	IP protection degree	IP 23
Fuel consumption (welding 60%)	2.1 l/h	*Measured acoustic power LwA (pressure LpA)	97 dB(A) (71 dB(A) @ 7 m)
Running time (welding 60%)	2.9 h	*Guaranteed acoustic power LwA (pressure LpA)	97 dB(A) (71 dB(A) @ 7 m)
Battery Starter	/		

\* Acoustic power according to European Directive 2000/14/EC

## A.C. GENERATION

### ALTERNATOR SYNCHRONOUS SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED

Insulation class	H
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## AUXILIARY GENERATION

OUTPUT 1		OUTPUT 2	
Type of source	Single-phase	Type of source	Single-phase
Frequency	50 Hz	Frequency	50 Hz
Power kVA (Power kW) Max	5kVA (5kW)	Power kVA (Power kW) Max	2.5kVA (2.5kW)
Power kVA (Power kW) PRP	4kVA (4kW)	Power kVA (Power kW) PRP	2kVA (2kW)
Cos φ	1	Cos φ	1
Voltage	230V	Voltage	115V
Current Max	21.7A	Current Max	21.7A
Current PRP	17.4A	Current PRP	17.4A

The use of the auxiliary generation is recommended for welding tools (grinding wheels, electric hammers, lights, etc.)

## CONTROL PANEL

- Manual recoil
- Engine switch ON- OFF
- Choke
- Range welding selector
- Welding current selector
- Welding sockets
- Thermal circuit breaker for 230V/16A sockets
- Output sockets: 1x 230V 16A 2P +T CEE  
1x 230V 16A 2P+T SCHUKO
- Earth terminal (PE)

# WEIGHT - DIMENSIONS ACCESSORIES

GM 5-200 HBM

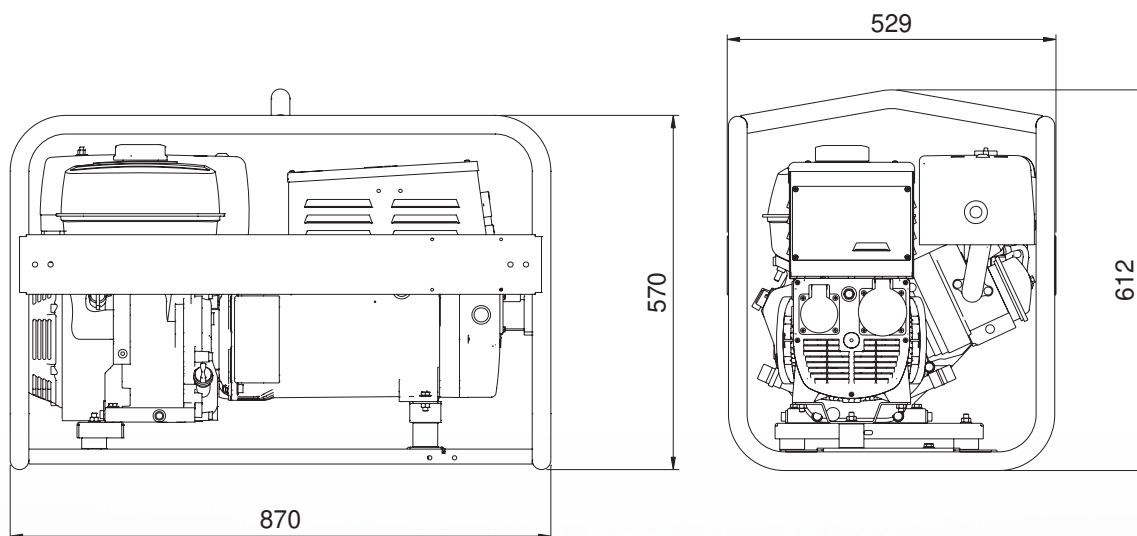


**DRY WEIGHT:**  
• 97 Kg

The welding machine pictured may include optional accessories.



**DIMENSION PICTURE**



## OPTIONS ON REQUEST

- Welding kit (mask, gloves, etc.)
- Welding cables: K 200 (20+15m, 35mm<sup>2</sup>)
- Manual trolley CTM-GM5-200
- Carrying Kit TRM-MW200D
- Remote control extension
- Earthing kit



## VERSION ON REQUEST

- 230V/115V version



## FACTORY INSTALLATION OPTIONS

- ELCB-GFI (Ground Fault Interruptor)

## GENERAL INFORMATION

### COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)  
2014/35 / EU (Low Voltage Directive)  
2014/30 / EU (EMC Directive)  
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)  
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets )



ISO 9001:2015 - Cert. 0192

### WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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