

ENGINE DRIVEN WELDER

MAGIC WELD 200 YDE

The images are for reference

WELDING PROCESS



Shielded Metal Arc welding SMAW (STICK)



FEATURES

- Arc welding source in D.C. welding
- High frequency control of welding current and voltage
- **Power optimiser** (patent pending)
- Auto Idle
- Single-Phase, 50Hz aux current, inverter generated
- Protective frame
- Meets EC 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



petrol



electric starter

ENGINE 3600 RPM

4 STROKE, NATURAL ASPIRATED	
Model	YANMAR L70V
* Stand-By net power	4.8 kW (6.6 HP)
* PRP net power	4.3 kW (5.8 HP)
* COP net power	/
Cylinders / Displacement	1 / 320 cm ³
Bore / Stroke	78mm / 67mm
Compression ratio	/
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Centrifugal speed governor
FUEL CONSUMPTION	
110 % (Stand-by power)	1.5 lit./h
100 % to PRP	1.4 lit./h
75 % to PRP	1 lit./h
50 % to PRP	0.7 lit./h
COOLING SYSTEM	
Total system cap. - only engine	/
Fan air flow	/
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	1.1 l
Oil consumption at full load	/

* Output powers according to ISO 3046-1

EXHAUST SYSTEM	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	/
Battery charging alternator cap.	/
Cold start	/
With cold start aid	/
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/



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CHARACTERISTICS OF WELDING AND GENERATION

D.C. WELDING

CONSTANT CURRENT

Current range	20 ÷ 200A
Type of regulation	continue
Duty cycle	170 A - 60%
Open circuit voltage	72 V
Arc force control	No

GENERAL SPECIFICATIONS

Fuel tank capacity	3.3 l
Fuel consumption (welding 60%)	1.1 l/h
Running time (welding 60%)	3.3 h
Starter battery	12 Vdc -18Ah / 310A CCA(EN)

IP protection degree	IP 23
* Acoustic power LwA (pressure LpA)	103 dB(A) (78 dB(A) @ 7 m)
Performance class (ISO 8528)	/

* Only for fixed installation in the EU market.

A.C. GENERATION

PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS

Insulation class	H
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AUXILIARY GENERATION

	OUTPUT 1 STANDARD 230Vdc	VOLTAGE 110 Vdc
Type of source	Single-Phase	Single-Phase
Frequency	50 Hz / 60Hz	50 Hz / 60Hz
Power kVA (Power kW) Max	3.3 kW	2.1 kW
Cos φ	0.8	0.8
Voltage	230 V ±1%	110 V ±1%
Max current	14.3 A	19 A

CONTROL PANEL

- Start and stop engine key
- Low oil pressure shutdown
- Battery charge warning light fault
- Welding control adjustment knob
- Welding sockets
- Auxiliary generation overload led
- Output sockets: 1x 230V 16A 2P+T CEE
1x 230V 16A 2P+T SCHUKO (option)
1x 110V 16A 2P+T CEE (option)

SIMULTANEOUS UTILIZATION FACTORS

WELDING CURRENT	≥ 150A	125A	100A	75A	50A	0A
SINGLE-PHASE POWER 230V	0kVA	0,8kVA	1,5kVA	2,1kVA	2,5kVA	3kVA
SINGLE-PHASE POWER 110V	0kVA	0,5kVA	1kVA	1,3kVA	1,5kVA	1,8kVA

The use of the Auxiliary Generation is recommended for tools related to welding (wheels, electric hammers, lights, etc ...)

WEIGHT - DIMENSIONS ACCESSORIES

M. WELD 200 YDE

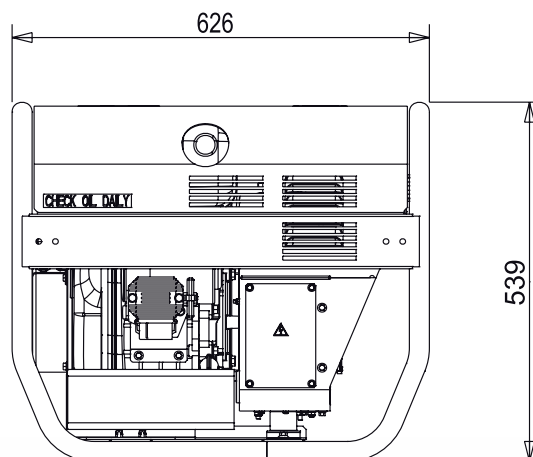
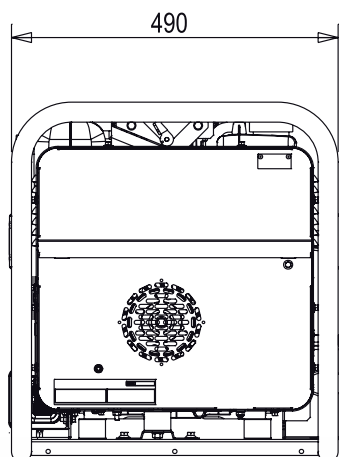


DRY WEIGHT:
• 91 Kg

The welding machine pictured may include optional accessories.



DIMENSION PICTURE (mm)



OPTIONS ON REQUEST

- Welding cables: K185 (4.5+3m, 35mm²)
K190 (10+8m, 35mm²)
K 200 (20+15m, 35mm²)
- Welding parallel cables K2x150 (35mm²)
- Manual trolley TRM-MW200 (n. 4 foldable handles)
- Manual trolley CTM-MW200D
- Welding kit (mask, gloves, etc.)



VERSION ON REQUEST

- SCHUKO Version
- 110V 50Hz Version
- 110V 60Hz Version



FACTORY INSTALLATION OPTIONS

- /

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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