

# KHM 351 YS

*Engine driven welding unit made to weld with coated electrodes.  
For professional heavy duty repair, maintenance and assembly work*

For professional work

The wide working range makes it possible to perform a large variety of work in environments where it is difficult, costly or impossible to connect to the mains supply. This thyristor controlled compact and transportable unit gives you a combination of strong, high quality DC current for coated electrode welding (MMA). The same unit also supplies up to 12kVA electric power while welding.

CC - MMA and TIG welding

Coated electrodes up to 6 mm can be welded. The low 20A minimum current also allows welding with very small electrodes. Using the Arc force control allows welding of cellulosic electrodes. You can also use the machine for scratch-start TIG welding.

Power generation - electric output

Electricity is often needed to carry out the complete job. Drilling, grinding, drying electrodes and lighting are a few examples. KHM 351 YS has a built in brushless, maintenance free, asynchronous generator that supplies up to 7 kVA single phase 230 V or 12 kVA three phase 400 V even when welding. A voltmeter shows the actual supply voltage. The units are equipped with earth fault protection for added safety.

Transport

The units are delivered as stationary. For transport within the worksite there is an optional site tow. KHM 351 YS has a central lifting eyelet for safe lifting.

Service support

Careful consideration was taken when we chose the engine supplier. Since the engine is a large part of this unit, good service and spares backup was an important factor. If something should happen to the rest - ESAB has the best service network in the welding business.



Picture shows  
KHM 351 YS

Diesel water cooled engine

KHM 351 YS is equipped with a powerful and efficient water cooled Yanmar Diesel engine with battery and electric start. The engine fulfils the EPA-EURO2 exhaust gas emission requirements. Engine protection shuts down the engine if the oil pressure is too low, temperature is too high, fuel level is low or if the battery charging does not work.

Other features

- Noise level below the limits of the 2000/14-CE standard
- Hour meter for correct servicing.
- Lockable covers over the engine and control panel.
- Machines with polarity change and spark arrestor are available.
- Sealed base prevents spilling of liquids on the ground.

## Applications

- General fabrication and civil construction
- Repair and maintenance
- Power generation
- Pipeline welding

- Welds up to 6 mm coated electrodes
- Supplies 230V and 400V electric power for tools, lighting etc.
- Reliable and economical Yanmar engines

## Technical data

### DC welding Constant Current (CC) - MMA

Setting range, welding, A	20-350
Max welding output at 35% duty cycle, A	350
Max welding output at 60% duty cycle, A	320
Max welding output at 100% duty cycle, A	270
Open circuit voltage, V	65

### AC Power generation

Single Phase, Volts / kVA / A / Hz	230 / 7 / 30,4 / 50
Tree Phase, Volts / kVA / A / Hz	400 / 12 / 17,3 / 50
Duty cycle, %	100
Isolation class	H

### Engine

Engine type	Yanmar 3 TNV 76
Fuel / tank capacity, litres	Diesel / 45
Cooling	water
Power, kW (hp) / rpm	16,5 (22,3) / 3000
Start	electric

### Total unit

Guaranteed acoustic power, LWA / dB(A) – 7 m	97 / 72
Weight, kg	535
Dimensions L x W x H mm	1610 x 720 x 1100
Approx. running time with full tank at 60% load, h	13
Protection class	IP 23

## KHM 351 YS

## Ordering information

### European versions

KHM 351 YS, 50 Hz	0794 019 880
KHM 351 YS, 50 Hz, with spark arrestor	0794 019 881
KHM 351 YS, 50 Hz, with polarity change	0794 019 882
KHM 351 YS, 50 Hz, w. spark arrestor and polarity change	0794 019 883

**Delivery content:** Machine complete with engine oil, coolant and charged battery (maintenance free).

### Accessories

Remote control PHG1B	0794 008 882
Remote control PHG1B-PL (for polarity change versions)	0794 008 885
2 wheel site tow	0794 014 880
Earth spike	0794 017 880
Albatross 3000 welding helmet	0349 502 200

Quality accessories for the quality welder  
ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at [www.esab.com](http://www.esab.com) or contact your local ESAB dealer.

### Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.

**Albatross 3000 welding helmet,**  
both for welding and grinding.  
The welding glass folds up and the inner glass protects you when grinding



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