

HD12VXE

SMALL AND POWERFUL

The HD12VXE is a completely new concept: small enough to pass through a door, sturdy enough to do jobs above its category. An exceptional machine.

With its 9.4 kW engine and digging depth of 2010 mm it handles heavy work in the most challenging conditions with ease.





REAR FRAME WITHIN CLEARANCE

While slewing, the chassis frame turns within the clearance of the tracks with the carriage extended, allowing greater safety for the machine and for the operator. With the carriage closed, the machine can access even the most restricted spaces. With a width of 870 mm and a tilt-back rollbar, the machine is perfect for internal restructuring works.

COMPACT SIZE

The perfect combination of small size and high power. The HD12VXE gives access to previous inaccessible spaces, for working in interiors or passing through buildings to access internal gardens or courtyards which are otherwise almost impossible to get to.

TWO TRAVELLING SPEEDS

The two travelling speeds (2.3 / 4.0 km / h) enable moving quickly on site along with maximum manoeuvrability.



Minimum front turning radius with swing
dx = 1291 mm, sx = 1383 mm
Front turning radius = 1540 mm
Rear turning radius = 552 mm

**Machine weight 1180 kg
ideal for transport on trucks
in the 3.5 ton category**





870 mm



1135 mm

VARIABLE GAUGE UNDERCARRIAGE

Thanks to the variable gauge (870 - 1135 mm), the HD12VXE ensures considerable safety and operational stability during side excavation and lifting operations in confined spaces or on particularly uneven or steep ground. The circular tube improves extension while reducing backlash.

SAFETY

The TOPS certified rollbar cage (an optional FOPS cover is available) ensures outstanding working visibility. The arm movements are softened by the Anti-Shock valve in the hydraulic circuit. In the phase of lifting the 1st arm the shock of stopping at the arm limit stop is reduced by the cylinder shock-absorbing system. The slew brake motor prevents accidental arm movements during transport or when the machine is parked. The arm swinging is controlled by the LH joystick. The auxiliary circuit control pedal is equipped with a tilt-away guard which acts both as a foot rest and circuit lock for remote operation.



The HD12VXE can drive through doors no more than 90 cm wide. The rollbar can also be removed in just a few minutes to facilitate passing through low clearance areas.

90 cm



RETRACTABLE DOZER BLADE EXTENSION

The blade width can be easily adjusted, offering the flexibility to fix the job. Adjustment is simple and easy with two fastening pins.





ACCESSIBILITY AND EASY MAINTENANCE

The HD12VXE's vertically-opening engine hood provides easier access and visibility of most of the engine along with easy accessibility for daily inspection (oil-filters-belts) and maintenance. The battery requires reduced maintenance. The diesel tank is generously sized to allow the machine to be run for an entire day in normal use. It is easy to access for refuelling and protected with a key-operated cap. The pumps are equipped with pressure-gauge points to facilitate monitoring hydraulic pressure value.

YANMAR 9.4 KW DIESEL ENGINE

The 3-cylinder engine runs at low speed with a reduced exploitation index for improved durability and long-term reliability. The air filter with its high filtering capacity is composed of a double cartridge that reduces maintenance and increases the reliability of the engine. The fuel circuit is equipped with a diesel filter with a water separator, ensuring a long engine life. The high efficiency of the engine combined with an advanced hydraulic system ensures low fuel consumption and low running noise, and limits polluting emissions according to the antipollution requirements of EPA Tier 4.

HYDRAULIC CIRCUIT

The circuit includes two variable capacity pumps integrated with the Straight Travel system on the blade section, and a separate gear pump for the servo-controls, thus guaranteeing a perfect balance of operating speed and force. Precise and simultaneous manoeuvres are assured with no loss of power or drop in engine speed. The HD12VXE succeeds in moving forward while performing working operations without losing any linearity in the trajectory.

AUXILIARY HYDRAULIC CIRCUIT

The auxiliary hydraulic circuit for hydraulic attachments such as a hydraulic breaker, shears, hydraulic grippers and drills is supplied as standard as far as the 2nd arm. A deviator valve selects single - or double - action operation.



COMFORT AND SAFETY

The operator position is especially comfortable, thanks to the adjustable bucket seat design and wrist supports and ergonomic control layout. It is equipped as standard with servo-assisted joysticks that ensure the utmost precision. Two safety levers control access to the driving seat and, if lifted, inhibit all the machine working and travelling controls. The multifunction analogue control display - hour meter, fuel level, oil temperature and warning lights - is user friendly and facilitates the work of less expert operators, thus increasing their productivity.



WORKLIGHT

The arm mounts a worklight for a perfect view of the dig.

TECHNICAL DATA

Engine	Yanmar 3TNM68
N° cylinders/displacement	3 / 784 cc
Rated power	9.4 kW / 2200 rpm
Machine weight with rollbar	1180 kg
Operating weight with rollbar	1255 kg
Max. digging depth	2010 mm
Minimum front turning radius	1540 mm
Bucket digging force	1210 kgf
Standard bucket width	400 mm
Standard bucket capacity	0.036 m ³