









# Small and powerful

The 12VXE is a completely new concept: small enough to pass through a door. Robust enough to do jobs above its category. An exceptional machine. With its 12.9 hp engine and digging depth of 2010 mm it handles heavy work in the most challenging conditions with ease.



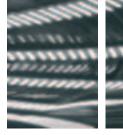
#### YANMAR 12.9 HP DIESEL ENGINE

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 97/68/EU and EPA Tier 4.



#### SAFETY

The TOPS-FOPS certified rollbar cage (an optional FOPS cover is available) ensures outstanding working visibility. The boom movements are softened by the Anti-Shock valve in the hydraulic circuit. In the phase of lifting the 1st boom the shock of stopping at the boom's 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 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.



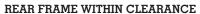
#### TWO TRAVELLING SPEEDS

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



The 12VXE 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.





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 restructuring interiors.



### COMPACT SIZE

The perfect combination of small size and high power. The 12VXE 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.



#### EASY ACCESS AND MAINTENANCE

The 12VXE'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 refilling and protected with a key-operated cap. The pumps are equipped with pressure-gauge points to facilitate monitoring hydraulic pressure values.

# COMPACT SIZE

Front turning radius with swing: 1440 mm. Machine width in narrow configuration: 870 mm.



#### Technical features

Operating weight CG rollbar Bucket width/capacity Width with carriage closed/extended Rear turning radius Maximum depth of excavation



#### 12VXE

1260 kg 400 mm / 0.025 m³ 870 / 1130 mm 550 mm 2010 mm

### COMFORT AND SAFETY

The operator position is especially comfortable, thanks to the adjustable wrap-around 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.



The 12VXLs variable width undercarriage (870-1130 mm) guarantees excellent safety and working stability in digging and side lifting operations on sites with very little room for manoeuvre and on broken ground or steep gradients. The circular tube improves extension while reducing backlash.



#### EXTENSIBLE CARRIAGE AND BLADE

When the machine is working with the carriage closed, the two outwards extensible sections of the blade are easily stored behind the blade itself A lever via a function selector controls the movement of the blade or the expansion of the carriage.



# DIGGING PERFORMANCE WORTHY OF LARGER MACHINES

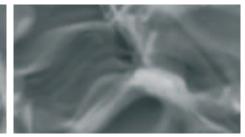
The positioning of the 1st excavator arm cylinder (above the arm to protect against damage), together with the design of the pin and the reduced clearance of the bucket articulation, increase digging performance to 2010 mm, a very high performance category for such a compact model.



#### PROTECTION FOR COMPONENTS

The hydraulic circuits, including the auxiliary circuit for use with a variety of hydraulic attachments, run inside the arm and foremost arm to protect against damage. Blade and arm cylinder protection. Burst-proof sheaths, pipes protected with a metal coil and "multilayer cut-proof" bucket control pipes.







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 12VXE succeeds in moving forward while performing working operations without losing any linearity in the trajectory.



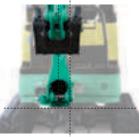
#### **AUXILIARY HYDRAULIC LINES**

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



#### WORKLIGHT

The arm mounts  $\boldsymbol{\alpha}$ worklight for a perfect



#### ASYMMETRIC ARM

The 12VXE is a zero tail-swing model with the arm position markedly asymmetrical with the fifth wheel, which increases the operator's view of the dig. The swing unit is optimally canted for off-axis digging.



# Mini-excavator: where others cannot reach

The mini excavator 17VXE, the new ultra-compact model, utilizes the technology of higher class machines. Power and speed of excavation are assured when working in confined spaces: in small restructuring work, in operations of excavation and maintenance of sewerage systems, in tunnels where larger machines cannot operate, but also in the gardening and nursery sector.



#### 3TNV70 YANMAR 14HP DIESEL ENGINE

The 3-cylinder engine has a low speed of rotation and a reduced exploitation index to improve durability and reliability over time. 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 less noise and it limits polluting emissions according to the antipollution requirements of the 97/68/EU regulations.



#### TWO TRAVELLING **SPEEDS**

The two travelling speeds (2.1/4.0 km/h) enable moving quickly on site along with maximum manoeuvrability.



#### SAFETY

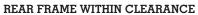
The canopy ensures a full view for the operator. The boom movements are softened by the Anti-Shock valve in the hydraulic circuit. In the phase of lifting the 1st boom the shock of stopping at the boom's limit stop is reduced by the cylinder shock-absorbing system. A similar system comes into action in the phase of fifth wheel rotation as well. The self braking motor prevents accidental movement

when the operator is away. The pedals controlling the auxiliary circuit and swing are separate and strengthened with sturdy guards with the function of a footrest.









While slewing, the chassis frame turns within the clearance of the tracks with the carriage extended, allowing greater safety for the machine pressure on the ground also and for the operator. If the carriage is closed access into confined spaces is facilitated. It is available in the rubber track or iron track version, with a canopy with 4 pillars with TOPS-FOPS protection (conforming to EU safety regulations).



### SOLIDITY AND STABILITY

The long carriage (1570 mm) besides helping reduce the specific ensures great front stability even with the blade raised. The travelling unit is integrated in the width of the tracks.



#### **FULLY VERSATILE**

The special geometry of the boom and the movement combined with the minimal distance between bucket and dozer blade enable excavating and loading materials of a large size even close to the dozer blade.

## COMPACT SIZE

Front turning radius with swing: 1280 mm. Machine width in narrow configuration: 980 mm.

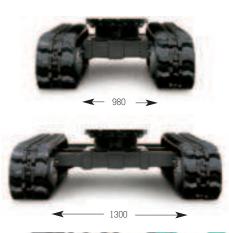
#### Technical features

Operating weight CG canopy Bucket width/capacity Width with carriage closed/extended Rear turning radius Maximum digging depth

#### 17VXE

1710 kg 400 mm / 0.044 m<sup>3</sup> 980 / 1300 mm 680 mm 2100 mm

#### VARIABLE GAUGE UNDERCARRIAGE





#### COMFORT AND SAFETY

The position is comfortable thanks to the adjustable spring seat, horizontal adjustment, tilting backrest and ergonomic layout of the controls.

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 instrumentation console is rational and user-friendly. Behind the seat there is a document holder.





#### HYDRAULIC CIRCUIT

It uses two variable displacement pumps and two gear pumps, ensuring constant balancing between operational speed and working forces. Precise and simultaneous manoeuvres are assured with no loss of power or drop in engine speed. The 17VXE succeeds in moving forward while performing working operations without losing any linearity in the trajectory.

### VARIABLE GAUGE UNDERCARRIAGE

Thanks to the extensible frame (980 - 1300 mm) When the machine is working with the carriage the 17VXE ensures considerable safety and operational stability during side excavation and lifting operations in confined spaces or on particularly uneven or steep ground. Sites with reduced manoeuvring spaces are no longer a problem.

#### **OPERATING FLEXIBILITY**

closed, the two extensible sections of the blade are easily stored behind the blade itself. A lever via a function selector controls the movement of the blade or the expansion of the carriage.









#### **WORK OUTFIT**

The auxiliary hydraulic circuit for using various hydraulic attachments is installed as standard up to the 2nd boom. The system uses a valve to return the oil directly to the hydraulic reservoir. A pedal locking device enables using manually controlled hydraulic equipment. As an optional there is a version with a long boom to increase the depth of excavation (max 2310 mm). The second speed push-button control is provided.

#### RELIABILITY OVER TIME

The hydraulic pipes of the undercarriage are covered by sheaths for protection against scratching.

The cylinder feed pipes are all internal to minimize every kind of damage.

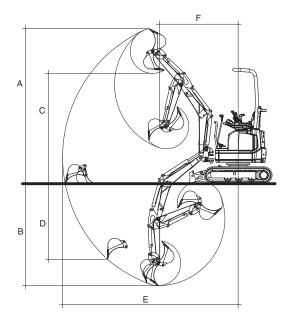
The lifting cylinder is also fitted with a safety plate.

#### ACCESS AND EASY MAINTENANCE

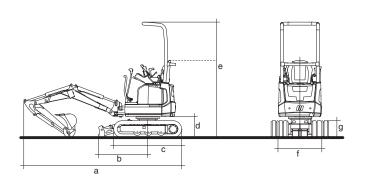
The side opening engine bonnet provides easier access and visibility of most of the engine and allows easy accessibility to the various components for operations of daily inspection (oil-filters-belts) and maintenance.

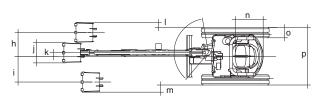
The battery requires reduced maintenance. Refuelling with diesel is done via handy and easy access with a lockable cap.

Checking the operating pressures is facilitated by quick couplers on the pumps.

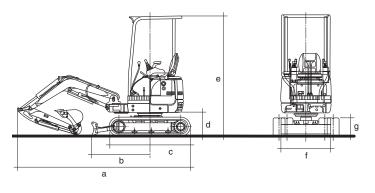


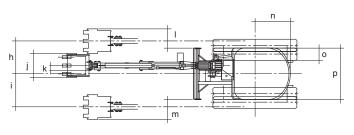
| Working range                         | 12VXE   | 17VXE   |  |
|---------------------------------------|---------|---------|--|
| A Maximum dumping height              | 3052 mm | 3810 mm |  |
| <b>B</b> Maximum digging depth        | 2010 mm | 2350 mm |  |
| C Maximum digging height              | 2173 mm | 2760 mm |  |
| D Maximum vertical digging depth      | 1487 mm | 2010 mm |  |
| E Maximum digging radius              | 3456 mm | 3990 mm |  |
| <b>F</b> Minimum front turning radius | 1530 mm | 1580 mm |  |
| at right boom swing                   | 1290 mm | 1340 mm |  |









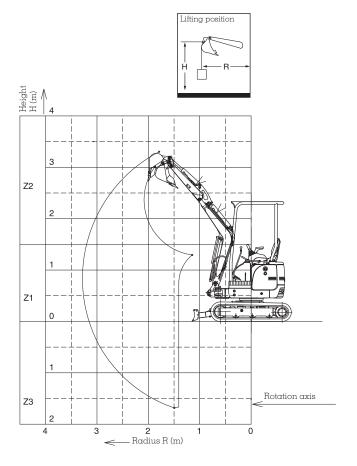


| Dimensions (mm) | α    | b    | С    | d   | е    | f          | g   | h   | i   | j   | k   | 1   | m   | n   | o   | р          |
|-----------------|------|------|------|-----|------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| 17VXE           | 3380 | 1155 | 1570 | 460 | 2330 | 980 (1300) | 395 | 615 | 610 | 400 | 150 | 335 | 330 | 680 | 230 | 980 (1300) |



Photographs appearing in the catalogue were taken for publication and may differ in some cases from actual objects. Specifications are subject to change without notice due to technical improvements or modifications.

| Constant Secretary  | 12VXE  | 17VXE  |
|---|--|--|
| General Specifications  |  |  |
| STD. Bucket capacity (ISO)  | 0.025 m <sup>3</sup>   | 0.044 m³   |
| STD. Bucket width   | 400 mm   | 400 mm   |
| Machine weight R.S. / S.S.* Canopy  | 1180 kg  | 1615 / 1675 kg   |
| Operating weight R.S. / S.S.* Canopy  | 1260 kg  | 1710 / 1770 kg   |
| Transport dimensions  | 3100 x 870 x 2280 mm   | 3380 x 980 x 2330 mm   |
| Gradeability  | 30°  | 30°  |
| Ground pressure R.S. / S.S.* Canopy   | 26.5 / 28.5 kPα  | 26.5 / 28.5 kPa  |
| Minimum ground clearance  | 175 mm   | 175 mm   |
| *R.S. / S.S. Rubber Shoe / Steel Shoe   |  |  |
| Engine  |  |  |
| The 3-cylinder Yanmar 3TNE68 Diesel engine is   | s water cooled.  |  |
| Model   | Yanmar TNM68   | Yanmar 3TNV70  |
| N° cylinders / displacement   | 3 / 784 cc   | 3 / 845 cc   |
| Bore x stroke   | 68 x 72 mm   | 70 x 74 mm   |
| Max output  | 18.5 HP at 3600 rpm  | 19.4 HP at 3600 rpm  |
| Rated output (ISO 1585)   | 12.9 HP at 2200 rpm (9.5 kW / 2200 min <sup>-1</sup> )   | 14.2 HP at 2300 rpm (10.5 kW / 2300 min <sup>-1</sup>  |
| Fuel consumption  | 272 g/kW-h   | 272 g/kW-h   |
| Engine oil pan capacity   | Z/ Z g/k vv-11   | 3 lt (Max level)   |
|   |  | 3 II (IVIQX IEVEI)   |
| Electrical System   | <del></del>  | 10.77  |
| Voltage   |  | 12 V   |
| Battery   |  | 12 V - 45 Ah   |
| Alternator  |  | 12 V - 20 A  |
| Starter motor   |  | 12 V - 0.9 kW  |
| Hydraulic system  |  |  |
| The particularly sophisticated hydraulic system   | n integrated with variable displacement pumps ar   | nd servo-assisted controls ensures   |
| extraordinary manoeuvrability and precision of  | of the movements even when travelling, always m  | naintaining forward movement   |
| in a straight line.   |  |  |
| Maximum flow  | 13.2 lt/min  | 17.2 lt/min x 2 + 12 lt/min  |
| Max Pressure / Setting  | 20.6 Mpa (210 kgf/cm²)   | 20.6 Mpa (210 kgf/cm²)   |
| Control   | hydraulic remote control   | hydraulic remote control   |
| Double action hydraulic circuit for accessories   | injuratine remote control  | Tryaradio fornote control  |
| Maximum flow  | <br>26 lt/min  | 29.2 lt/min  |
|   | 20 10111111  |  |
| Set pressure End-of-stroke cushioning   |  | 20.6 Mpa (210 kgf/cm²)   |
|   | 16.11  | 16.11  |
| Boom cylinder   | rod fully extended   | rod fully extended   |
| Slewing system  | <del>_</del>   |  |
|   | c motor that operates a fifth wheel with remote gre  |  |
| Swing speed   | 8.5 min <sup>-1</sup>  | 9.4 min <sup>-1</sup>  |
| Turntable braking   | automatic multi-disc brake   | automatic multi-disc brake   |
| Absorption of hydraulic shocks  | shock less valve   | shock less valve   |
| Bucket performance  |  |  |
| Max. bucket digging force (ISO 6015)  |  | 15.7 kN (1600 kgf)   |
| Max. arm digging force (ISO 6015)   |  | 9.35 kN (950 kgf)  |
| Undercarriage   |  |  |
|   |  |  |
| The extensible lower frame is composed of a w   | relded and machined central body that supports   |  |
|   | relded and machined central body that supports.  the rollers and of the tightener wheels are perman  | nently lubricated.   |
| The two sliding track frames. The bearings of $t$   | relded and machined central body that supports.<br>he rollers and of the tightener wheels are perman   | =  |
| The two sliding track frames. The bearings of the Undercarriage length R.S. / S.S. $$   | he rollers and of the tightener wheels are perman  | 1570 / 1550 mm   |
| The two sliding track frames. The bearings of the Undercarriage length R.S. / S.S.  Variable gauge  | he rollers and of the tightener wheels are perman<br>870 / 1130 mm   | 1570 / 1550 mm<br>980 / 1300 mm  |
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| The two sliding track frames. The bearings of the Undercarriage length R.S. / S.S.  Variable gauge Crawler shoe width Lower / upper rollers for side Track tension Dozer blade size (Width x Height) Lift above ground Drop below ground Travel system Each track is operated by a gearmotor compost Travel speed (la / 2a)  Capacity Fuel tank Hydraulic tank Engine oil Engine coolant Boom swing system Right swing angle Left swing angle Other data  | he rollers and of the tightener wheels are permands 870 / 1130 mm 200 mm 3 tension spring and grease cylinder 870 / 1130 x 230 mm  ed of a two-speed axial piston engine and an epical content of the con | 1570 / 1550 mm  980 / 1300 mm  230 mm  3 tension spring and grease cylinder 980 / 1300 mm x 235 mm  230 mm  340 mm  cyclic reduction gear. 2.1 / 4.0 km/h  20 lt 19 lt 23 lt 3.6 lt  80° 55° |
| The two sliding track frames. The bearings of the Undercarriage length R.S. / S.S.  Variable gauge Crawler shoe width Lower / upper rollers for side Track tension Dozer blade size (Width x Height) Lift above ground Drop below ground Travel system Each track is operated by a gearmotor compost Travel speed (la / 2a)  Capacity Fuel tank Hydraulic tank Engine oil Engine coolant Boom swing system Right swing angle Left swing angle   | he rollers and of the tightener wheels are permanted and some special states and of the tightener wheels are permanted and special states are permanted as a special state are permanted as a special states are permanted as a special state are permanted as a sp | 1570 / 1550 mm  980 / 1300 mm  230 mm  3 tension spring and grease cylinder 980 / 1300 mm x 235 mm  230 mm  340 mm  cyclic reduction gear. 2.1 / 4.0 km/h  20 lt 19 lt 23 lt 3.6 lt  80°     |



17VXE Lifting capacity

| Front lifting | R 3,5 | R 3,0 | R 2,5 | R 2,0 |
|---------------|-------|-------|-------|-------|
| H Z2          | 300   | 300   | 300   | 400   |
| H Z1          | 300   | 400   | 500   | 700   |
| H Z3          | -     | 400   | 400   | 300   |

| Side lifting (Ce)            | R 3,5           | R 3,0             | R 2,5             | R 2,0             |
|------------------------------|-----------------|-------------------|-------------------|-------------------|
| H Z2<br>H Z1<br>H Z3         | 100<br>100<br>- | 200<br>200<br>200 | 300<br>200<br>200 | 200<br>300<br>300 |
| (Ce) Crawler width expansion |                 |                   |                   |                   |

| Side lifting (Cc)              | R 3,5      | R 3,0             | R 2,5             | R 2,0             |
|--------------------------------|------------|-------------------|-------------------|-------------------|
| H Z2<br>H Z1<br>H Z3           | 100<br>100 | 100<br>100<br>100 | 100<br>100<br>100 | 200<br>200<br>200 |
| (Cc) Crawler width contraction |            |                   |                   |                   |

Rated load don't exceed 87% of hydraulic capacity or 75% of stability.

| Buckets (applicable to machine) | Bucket capacity<br>ISO (m³) | Dimensions (mm)<br>outside teeth (A) | No. of<br>teeth |    | Standard arm application | Long arm application |
|---------------------------------|-----------------------------|--------------------------------------|-----------------|----|--------------------------|----------------------|
| 12VXE - 17VXE                   | 0,020                       | 250                                  | 2               | 25 | ditch digging opt        | ditch digging opt    |
| 12VXE - 17VXE                   | 0,025                       | 300                                  | 3               | 29 |                          | ditch digging opt    |
| 12VXE - 17VXE                   | 0,030                       | 350                                  | 3               | 31 | ditch digging opt        | ditch digging opt    |
| 12VXE - 17VXE                   | 0,040                       | 400                                  | 4               | 36 | general digging std      | general digging std  |
| 12VXE - 17VXE                   | 0,050                       | 500                                  | 4               | 40 | loading opt              | loading opt          |
| 12VXE                           | 0,060                       | 600                                  | 4               | 40 | ditch clearing opt       | -                    |
| 12VXE - 17VXE                   | 0,075                       | 800                                  | _               | 50 | ditch clearing opt       | -                    |

Using buckets larger than the standard, where possible, must be done with great caution to avoid tipping the machine over and damaging structures.

#### **■ STANDARD EQUIPMENT**

Support frame

Rubber tracks, width 230 mm

Backfill blade with extensions

Attachment points for lifting, anchoring and towing

Remote lubrication of the fifth wheel and swing cylinder foot

Adjustable track carriage

Engine

Two-phase dry air filter

Electric pre-heating device

Decanter, transparent precleaner and transparent diesel fuel filter

Drainage cap underneath the diesel tank

Plastic diesel tank

Continuous engine speed control

Conforms to the gas emissions regulation 2004/26/EC

Electrical system

Battery 12V - 36 Ah

Fuse box

Driving seat

Spring seat with multiple adjustment options and vinyl cover

Non-slip floor and handle facilitating access to the driving seat

Wrist support

Seat belt

High speed button on blade lever

Travel control pedals

Equipment and monitoring devices

Analogue water temperature gauge

Analogue fuel level gauge

Time meter

Warning light for the following functions: preheating, engine oil pressure, water temperature, battery charge, fuel level, hydraulic filter blocking, air filter blocking

Canopy version

FOPS protection against falling objects

TOPS and ROPS protection against tipping and rolling

Hydraulics

Slew brake motor with shock valves

ISO assisted hydraulic controls

Double-action hydraulic control valve. Variable displacement pump

Accessory circuit hoses (double action + return) up to 2nd arm

Hydraulic arm swing control with RH pedal

Track adjustment hydraulic control

Lighting

Work lamp fitted on the arm

Digging and moving equipment

Enbloc arm, length 1650 mm

Rocker arm, length 950 mm

Hydraulic arm swing through 135°

Limit shock absorber on arm cylinder

Remote lubrication of the fifth wheel and swing cylinder foot

Shock valve on arm cylinder

Hydraulic circuits for accessories

Hydraulic circuit for hammer with direct return to the tank

Double-effect hydraulic circuit for accessories

Foldaway control pedal for single and double action

Safety operation

Operating and travel controls lock out when the LH console is raised

to enable the operator to exit

Single key for ignition, diesel tank cap and compartment locks

Provided tool kit

Diesel tank cap with lock and mesh filter

Arm cylinder anti-drift system

Sound alert

#### Conformity

Machine complies with directive n. 98/37 EEC and subsequent emendations

Noise emissions comply with directive n. 86/662 EEC and subsequent emendations

Machine complies with EN 474-1, EN 474-5

ROPS protection conforms to EN 13510

TOPS protection conforms to EN 13531

FOPS protection conforms to ISO 10262 standard

Electromagnetic compatibility (EMC) conforms to directive n. 89/336 EEC and subsequent emendations

#### ■ OPTIONALS

#### Digging and moving equipment

Long rocker arm (+ 250 mm)

Rapid attachment of mechanical accessories

Rapid attachment of hydraulic accessories

Buckets, various sizes

#### Support frame

Steel tracks, width 230 mm

#### Lighting

2 additional lights

Revolving lamp

#### Protection of the natural environment

Catalytic converter

#### Comfort and safety

Electrical hydraulic anti-theft device

Rear counterweight (100 kg)

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