<table>
<thead>
<tr>
<th>Engine model</th>
<th>V7</th>
<th>V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>YANMAR 4TNV88</td>
<td>50 HP</td>
<td>50 HP</td>
</tr>
<tr>
<td>Net power</td>
<td>4100 kg</td>
<td>4350 kg</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>0.7 m³</td>
<td>0.8 m³</td>
</tr>
</tbody>
</table>
YANMAR WHEEL LOADER
THE TOOLCARRIER

RIGID AND STRAIGHT ARTICULATION
For improved reliability, for improved stability. Front and rear wheels follow the same track. No damage of lawn and pavements. Small turning circle and optimal positioning of pallet forks. Less tire wear.

POWERFUL YANMAR ENGINE
4 cylinders, direct injection diesel engine, water cooled. Emissions in accordance with Stage IIIA. Low fuel consumption, low maintenance costs, low noise level. Easy maintenance. Engine mounted longitudinally, reduced the machine dimension.

BEST COMPONENTS
Developed in Europe with renowned components for top quality. Design and performance of the components are made for heavy-duty job sites and long service life.

OSCILLATING REAR AXLE
Improved drive comfort. Increased machine stability on all surfaces. Extended machine life. Best stability with bucket and pallet forks. This is one of the greatest strengths of Yanmar loaders.

EASE OF MAINTENANCE
Engine mounted longitudinally. Perfect access to all maintenance and service points.
EASY OPERATION, MULTIFUNCTIONAL JOYSTICK
All main functions, like driving forward/reverse, selecting driving speed, working hydraulic and differential lock on demand are centralized on the multifunctional joystick.

Z-CINEMATIC
Automatic Shovel Return, High Break Out Force and a good view to the attachments at any time.

STANDARD HYDRAULIC QUICK HITCH
Operated hydraulically, enable fast change between different attachments. Including the working hydraulic line (3rd Section) to operate several attachments that require hydraulic performance.

CABIN
Quiet, comfortable and with optimal 360° view (all around visibility). Driver seat and steering column are adjustable. New concept and design of heater and air conditioning system.
OPERATOR STATION

ALL-AROUND VISIBILITY
Visibility has been optimized through big windows. The optimal visibility leads to greater safety on jobsites. Front visibility is optimum on the attachment for faster and safer operation.

MULTIFUNCTION JOYSTICK
The multifunction joystick contributes to the ease of operation. It integrates forward-reverse switch, travel speed selector, differential lock 100 % on demand * and hydraulic quick coupler. A lot of attention has been paid to an outstanding ergonomy to improve operator comfort.

* V8, not available for V7
INSTRUMENTATION
The dashboard gives an easy access to the machine working information through the use of gauges and icon light. All switches are centralized for improved operation and safety.

COMFORTABLE, ADJUSTABLE SEAT
Our standard seat, adjustable in position and weight, makes it more comfortable for the driver. Our standard seat has a high back and a headrest.

ADJUSTABLE STEERING COLUMN
The adjustable steering column is part of the standard equipment of the machine. It improves the operator comfort and makes it easier to enter and exit the cabin.
POWER TRAIN

TRAVEL SPEED
The Yanmar hydrostatic transmission has two travel speeds, from 0 to 7 km/h, and from 0 to 20 km/h. As an option, the V8 can also offer 0 to 28 km/h.

BRAKE INCHING* AND SLOW MOTION DEVICE**
By using the inch brake pedal, fine-tuning of the hydraulic performance is possible.

The driver can modify the power between the drive and the working hydraulics. It allows to slowdown the loader while keeping the engine rpm up. This feature improves the cycle-time of digging and loading operations. The inch brake pedal prevents wheel spin and avoids excessive wear of the tires.

The inch brake pedal prevents wheel spin and avoids excessive wear of the tires.

* Standard on V8 / Option for V7
** Option for V7 and V8
DIFFERENTIAL LOCK ON DEMAND*

The Yanmar V8 offers 100% differential lock on demand, which is a great asset when wheels are slipping in muddy or slippery ground conditions.

TRAVEL RIDE CONTROL**

The travel ride control function induces a suspension effect in the boom cylinder thanks to an accumulator. This system improves the drivability of the loader when transporting loads on uneven ground or driving at high travel speed. This feature improves drastically the operator comfort.

TRACTIVE FORCE

The hydrostatic transmission which is perfectly matched to the performance of the Yanmar engine is characterized by its high power and smooth adjustment. This results for the operator in high rim pull for effective pushing or digging and good travel performance even on steep inclines.

* Standard on V8 / not available on V7
** Option for V7 and V8
LIFTING FRAME

Z-BAR
The Z-bar linkage offers high breakout force and fast cycle times. The linkage choice was made to improve the productivity of the Yanmar wheel loader. The wheel loaders equipped with Z-bar linkage are able to maintain high torque in a lower lift arm position, ideal for load application.

HYDRAULIC QUICK HITCH
The hydraulic quick hitch is part of the standard equipment of the Yanmar compact wheel loaders. It is easy and very safe to operate and allows quick and smooth change of attachments. Yanmar also integrated in standard the auxiliary hydraulic circuit for hydraulically driven attachments. As an option, we have quick hitch compatible with Volvo system attachments or skid-steer loader system attachments.

RETURN TO DIG
The V7 & V8 models are also standard equipped with a return to dig feature. When the operator lowers the loader arm, the shovel returns automatically to load position.

SKID STEER LOADER UNIVERSAL COUPLER
Yanmar decided to use a concept with straight articulation joint with a rear oscillating axle for its wheel loaders. This concept derives from big wheel loaders and is chosen for its simplicity and robustness. It also presents following features:

- Operator stays in the same inclination than the bucket on uneven ground, providing more precision especially in pallet forks application.
- Improved lifting capacity with front frame in articulated position, since the rear part acts as a counterweight.
- More pressure on the bucket during backfilling, making levelling operations easier and faster.

**DIMENSIONS**

The V7 & V8 have very compact dimensions in all aspects: height (< 2.5m), width, length and turning radius. These compact dimensions contribute to the high maneuverability of Yanmar wheel loaders.
**ENGINE**

Yanmar equips the V7 & V8 with the Yanmar 4TNV88 engine. TNV stands for Total New Value. This engine integrates a new design of the combustion chamber to achieve cleaner burn and lower exhaust emissions. The design integrates also an improved and optimized stiffness in order to reduce significantly the vibrations and the noise level. The improved block cooling of the TNV engine range enhances the durability and service life of this main component.

The conception of the engine compartment is inherited from the design of heavy wheel loaders, where the engine is mounted in line. This design offers the advantages of 100% accessibility to service components and better cooling performance for a longer service life.

**HYDRAULICS**

**HYDROSTATIC TRANSMISSION**

Hydrostatic high pressure transmission, with automatic power regulation and closed circuit with variable-displacement pump and variable displacement motor (HA Automatic SHIFT).

**HA AUTOMATIC SHIFT**

The HA automatic control high-pressure shift changes automatically the travel speed according to the required performance. The automatic travel speed change is easy to use for the operator, improves his comfort, and chooses always the optimal combination between torque and speed.

Handheld hydraulic breaker kit is foreseen as an option. Yanmar does also offer a high flow kit to drive more demanding attachments like blowers, movers, etc.
The large opening offered by the engine hood allows an easy access to all main service items, for an easy and fast maintenance. This contributes to reduce the TCO of the machine.
The Yanmar compact wheel loaders are developed in Europe, and use only premium components. Quality and reliability are the main drivers of our product development.

LONG SERVICE INTERVALS

Our compact wheel loaders are designed for working, and therefore we reduced the service intervals to a minimum. Engine- and Hydraulic Oil interval start respectively at 500 and 1000 working hours and greasing intervals are every 50 hours.

Z-BAR LINKAGE

Z-bar linkage has the least number of pins, links and levers to maintain.
## STANDARD EQUIPMENT

### ENGINE
- 4TNV88 Yanmar diesel
- Battery main switch

### HYDRAULIC SYSTEM
- 3rd control section (front hydraulic kit)

### CABIN
- Door on the left handsde
- Hydraulic quick coupler
- Central dashboard
- Radio preparation without radio, speaker and antenna
- Forward/reverse switch control on single lever joystick
- Front windscreen ventilation
- Heating system with heat exchange and 3-stage fan
- ROPS / FOPS cab with opening window on the right hand side

### CHASSIS AND TIRES
- Windscreen wipe and wash unit in front and rear

### SAFETY
- Steering System - servo controlled by priority valve « LOADSENSING » system
- Driver seat with safety belts
- Rear view mirrors, foldable
- Back-up alarm
- Proportional self-lock front differential
- Inch brake pedal

### LIGHTING
- Working lights front and rear
- Warning beacon standard with magnetic holder

### MISCELLANEOUS
- CE quality inspection

## OPTIONAL EQUIPMENT

### ENGINE
- Power battery (up to 80A)
- High speed mode with max. 28km/h (only for the V8 version)
- Manual throttle (engine rpm) (only for the V8 version)

### HYDRAULIC SYSTEM
- High flow kit with 84 l/min 230 bars (incl. Add. Oil cooler)
- Hydraulic kit for hand operating breaker (without breaker)
- Double front hydraulic (4th section)

### CABIN
- Radio player
- Air conditioning
- Speed reduction kit
- Safety air filter (active coal) in the cabin

### CHASSIS AND TIRES
- Vortex prefilter (cyclon dust separator)

### SAFETY
- Proportional self-lock rear differential
- Bucket cylinder safety block valve
- Loader arm cylinder safety block valves
- Descent regulation valve
- Inch brake pedal for V7

### LIGHTING
- Travel ride control
- Heatable mirror

### COUPLERS
- Quick coupler system for Volvo front attachment
- Quick coupler system for Skidsteer front attachment
- Universal adapting plate for front attachment

### MISCELLANEOUS
- Front electric kit
- Agricultural version (sucting fan + fine-mashed net grill)
- Central lubrication unit (only during assembling — no kit)
- Special paint
- Bio oil

## ATTACHMENTS

Yanmar gives you the accessories that fit your needs and match the safety standards in force in your country:
- standard bucket, 4 in 1 bucket, light material bucket, side dumping bucket with teeth, pallet forks with teeth, frontend road sweeper with harvest bucket + side brush + water reservoir
<table>
<thead>
<tr>
<th>Dimension</th>
<th>V7</th>
<th>V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A » Overall length</td>
<td>4800 mm</td>
<td>4800 mm</td>
</tr>
<tr>
<td>B » Wheelbase</td>
<td>1950 mm</td>
<td>1950 mm</td>
</tr>
<tr>
<td>C » Overall height (cabin/canopy)</td>
<td>2460 mm</td>
<td>2460 mm</td>
</tr>
<tr>
<td>D » Ground clearance</td>
<td>350 mm</td>
<td>350 mm</td>
</tr>
<tr>
<td>E » Overall width (outside of tires)</td>
<td>1620 mm</td>
<td>1620 mm</td>
</tr>
<tr>
<td>F » Overall width (bucket)</td>
<td>1700 mm</td>
<td>1900 mm</td>
</tr>
<tr>
<td>G » Dumping height (w/o teeth)</td>
<td>2450 mm</td>
<td>2450 mm</td>
</tr>
<tr>
<td>H » Dumping reach (w/o teeth)</td>
<td>650 mm</td>
<td>650 mm</td>
</tr>
<tr>
<td>I » Max. hinge pin height</td>
<td>3100 mm</td>
<td>3100 mm</td>
</tr>
<tr>
<td>J » Max. lifting height</td>
<td>3800 mm</td>
<td>3800 mm</td>
</tr>
<tr>
<td>K » Digging depth</td>
<td>65 mm</td>
<td>65 mm</td>
</tr>
<tr>
<td>L » Tilt back angle (at traveling position) Deg.</td>
<td>42°</td>
<td>42°</td>
</tr>
<tr>
<td>M » Dumping angle Deg.</td>
<td>43°</td>
<td>43°</td>
</tr>
<tr>
<td>N » Articulation angle Deg.</td>
<td>40°</td>
<td>40°</td>
</tr>
<tr>
<td>P » Turning radius (track circle)</td>
<td>3790 mm</td>
<td>3790 mm</td>
</tr>
<tr>
<td>Q » Turning radius (bucket circle)</td>
<td>4210 mm</td>
<td>4210 mm</td>
</tr>
</tbody>
</table>

Subject to technical modifications. Dimensions in mm with specific Yanmar bucket.
## WEIGHT +/- 2% (CE STANDARDS)

<table>
<thead>
<tr>
<th></th>
<th>V7</th>
<th>V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating weight</td>
<td>4100 kg</td>
<td>4350 kg</td>
</tr>
</tbody>
</table>

## ENGINE

<table>
<thead>
<tr>
<th></th>
<th>V7</th>
<th>V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4TNV88</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td>Diesel</td>
<td></td>
</tr>
<tr>
<td>Net Power</td>
<td>35 kW / 48 HP / 3000 rpm</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>12 V</td>
<td></td>
</tr>
<tr>
<td>Alternator</td>
<td>65 A (for the V8 version)</td>
<td></td>
</tr>
<tr>
<td>Engine emissions</td>
<td>Stage IIIA (EG 97/68)</td>
<td></td>
</tr>
</tbody>
</table>

## HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th></th>
<th>V7</th>
<th>V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrostat / 1 axial piston pump</td>
<td>350 bar</td>
<td>500 bar</td>
</tr>
<tr>
<td>3. Section / 1 gear pump</td>
<td>60 l/min / 200 bar</td>
<td>60 l/min / 230 bar</td>
</tr>
</tbody>
</table>

## PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>V7</th>
<th>V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel speed</td>
<td>7 / 20 km/h (with speed limiter)</td>
<td>7 / 20 km/h (with speed limiter)</td>
</tr>
<tr>
<td>Static Tipping Load Straight</td>
<td>3000 kg</td>
<td>3300 kg</td>
</tr>
<tr>
<td>Static Tipping Load Full Turn</td>
<td>2700 kg</td>
<td>3000 kg</td>
</tr>
<tr>
<td>Breakout force (bucket)</td>
<td>46.1 kN</td>
<td>52.97 kN</td>
</tr>
<tr>
<td>Traction force</td>
<td>2300 kg</td>
<td>3030 kg</td>
</tr>
<tr>
<td>Gradability</td>
<td>36°</td>
<td></td>
</tr>
<tr>
<td>Noise level (2000/14/CE &amp; 2005/88/CE)</td>
<td>LwA 101 dB / LpA 75 dB</td>
<td></td>
</tr>
</tbody>
</table>

## CHASSIS AND TIRES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard tires</td>
<td>12.0/75 R18</td>
</tr>
</tbody>
</table>

## CAPACITIES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>60 l</td>
</tr>
<tr>
<td>Engine oil</td>
<td>7 l</td>
</tr>
<tr>
<td>Hydraulic tank</td>
<td>60 l</td>
</tr>
</tbody>
</table>

## MAINTENANCE FREQUENCY

- Change engine sump oil: 500 hours
- Change engine oil filter: 500 hours
- Change engine fuel filter: 500 hours
- Change hydraulic oil: 1,000 hours
- Change cooling fluid: 1,000 hours