

<< go back

ENGINE

| | | |
|--|---------------------------------------|---------------------------------------|
| Complies with European Directive Model | 97/68 CE - STAGE 3 Yanmar 4TNV98-Z | 97/68 CE - STAGE 4F Yanmar 4TNV98C |
| Max power ISO TR14396 | HP- kW 74,1 - 54,5 | HP- kW 71,35 - 53,25 |
| Regimen adjusted | rpm 2500 | rpm 2500 |
| Power adjusted CE 80/1269 | HP - kW 69,5 - 51,1 | HP - kW 69,3 - 51,7 |
| Numbers of cylinders | 4 | 4 |
| Injection | Direct with EGR System | Direct with EGR System + DPF |
| Intake | Natural | Natural |
| Displacement | cc. 3319 | cc. 3319 |
| Cooling | water | water |
| Air filter with double protection | dry | dry |
| Electrical equipment | volt 12 | volt 12 |
| Free maintenance battery | Ah 105 | Ah 105 |
| Self regulated alternator | W 660 | W 960 |
| Fuel tank capacity | l 100 | l 100 |

TRANSMISSION

Hydrostatic transmission at closed circuit, with automatic adjustment of power, axial pistons pump and engine at variable displacement.
Hydraulic inching on brake pedal.
2 forward and 2 backward speeds, electrical control on the joystick.
Opt. hydrostatic pump for max speed 31 km/h.

SPEED

| | | 1 st | 2 nd automatic |
|---------------------------------------|------|-----------------|---------------------------|
| Standard speed (with 14,5 - 20 tyres) | | | |
| Forwards | Km/h | 0 ÷ 6,5 | 0 ÷ 21 |
| Backwards | Km/h | 0 ÷ 6,5 | 0 ÷ 21 |
| Optional speed (with 14,5 - 20 tyres) | | | |
| Forwards | Km/h | 0 ÷ 8,5 | 0 ÷ 31 |
| Backwards | Km/h | 0 ÷ 8,5 | 0 ÷ 31 |

AXLES

With epicycloid reduction gears on all four driving wheels.
Front axles: rigid with automatic proportional self-locking differential. (Limited slip)
Rear axles: oscillating of a 25° total range steering.

BRAKES

Duty brakes: with hydraulic control and master cylinder brake, autoregistrating dry disk on the transmission shaft acting upon all four wheels.
Parking brakes: Standard: mechanical dry on the transmission shaft.
Optional: negative dry on the transmission shaft with electrical control.

HYDRAULIC SYSTEM

Composed by: hydraulic gear pump, modular distributor with principal, shock-proof and anticavitation valve. Pressurised circuit.

| | |
|--------------------------------------|---------------------------|
| Max pump capacity: | 85 l |
| Max pump pressure: | 220 Kg/cm ² |
| Loader lifting cylinder: | Bore x Stroke 80 x 665 mm |
| Loader bucket cylinder: | Bore x Stroke 95 x 467 mm |
| Hydraulic cycle time: | 9" |
| Oil tank capacity, circuit included: | 95 kg |

STEERING

Servoassisted, with hydroguide and articulated chassis. Total steering angle of 80°. The hydraulic system is "Load Sensing" equipped.

TYRES

| | | |
|--------------------------|--------------|-----------------------------------|
| Standard: | driving type | 12,5 - 20 |
| Optional: | | 14,5 - 20 - 16/70 20 - 405/70 R20 |
| Other models on request. | | 365/70 R18 |

LOADER

Single servo control lever for arm and bucket. "Z" boom kinematics.

DIMENSIONS

| | |
|----------------------------|--------------------------|
| Wheelbase | 2300 mm |
| Front and rear track width | 1470 mm |
| External tyres width | (with 12,5 - 20) 1825 mm |

STANDARD EQUIPMENT

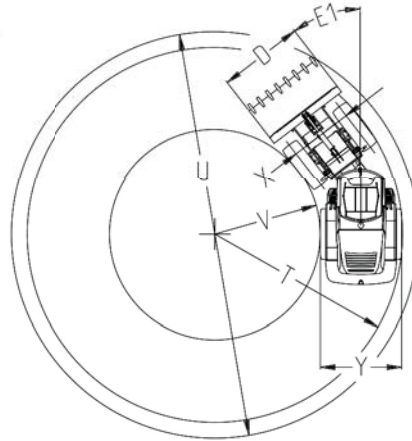
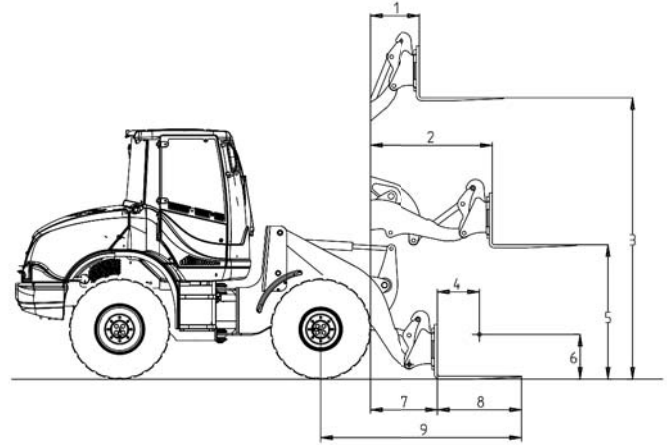
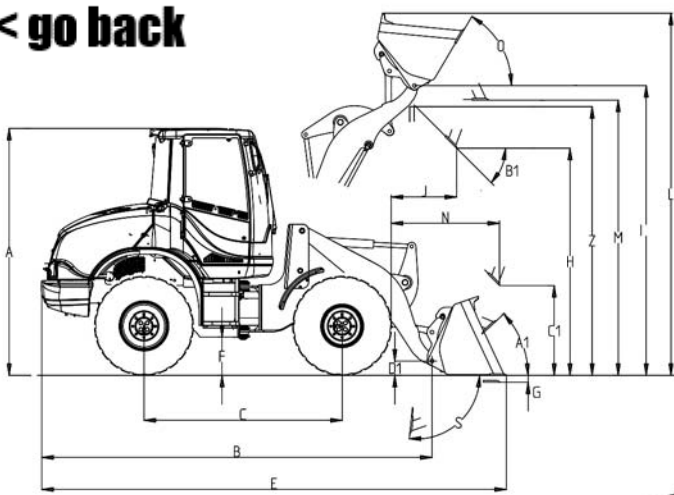
- Loader servo control
- Automatic proportional self-locking differential on front and rear axle (Limited Slip)
- Hydraulic Inching control (transmission speed regulations on brake pedal)
- Antipollution tank plug
- Bucket with screwed teeth
- Bucket mechanic levelling
- Reverse motion alarm
- Battery disconnecting switch
- Front and rear work lights
- Rotating lamp with magnetic fixing
- Shock absorbing and regulating "Deluxe" seat, with safety belt
- Regulating and telescopic steering wheel
- Floating system
- Air conditioning predisposition
- Heating plant
- Air filter in aspiration from outside
- Multifunction joystick with transmission and speedcontrol
- Rotoform front mudguards
- Tool box
- Use and maintenance manual, spare parts catalogue
- Accessories for road circulation
- Italian road homologation for daily and night circulation
- CE Certification

OPTIONAL EQUIPMENT

- 100% self-locking differential on rear axle
- Hydraulic quick bucket connection
- Universal forks
- Enlarged bucket
- Extra enlarged bucket for light material
- Enlarged bucket for light material having higher unloading
- 4:1 multipurpose bucket
- Paper and branches grab
- Bucket with side unloading
- Mixer bucket
- Wood grab
- Snow blade or snow plough
- Front rotating brush with bucket
- Teeth blade
- Asphalt concrete milling
- Inching control manually operated
- Electronic weighting system
- Air conditioning
- Radio
- Theft protection
- Ride control
- Automatic electro-mechanic bucket leveller
- Video camera
- Pneumatic "Deluxe" seat
- "Elite" cabin
- Fast speed version 31 km/h

For other accessories and equipment for characteristics and dimension, please see the "equipment catalogue".

<< go back



| Date according to bucket type PL 145 with 12,5 - 20 tyres | STD. | ENLARGED | EXTRA ENLARGED | 4:1 | HIGHER UNLOADING |
|---|------|----------|----------------|------|------------------|
| Capacity heaped m ³ | 0,9 | 1,15 | 1,4 | 0,8 | 1,5 |
| Material density kg/m ³ | 1800 | 1200 | 1000 | 1900 | 800 |
| Tipping load with aligned machine (ISO 14397) kg | 3497 | 3603 | 3603 | 3276 | 3375 |
| Tipping load in max articulated position (40°) (ISO 14397) kg | 3120 | 3262 | 3262 | 2966 | 3055 |
| Lifting capacity at max height kN | 25,8 | 24,8 | 24,3 | 24,8 | 21,7 |
| Breakout force kN | 55,2 | 51,7 | 45,9 | 55,2 | / |
| E total length mm | 5574 | 5624 | 5724 | 5574 | 6058 |
| L max. lifting height mm | 4080 | 4126 | 4300 | 4080 | 5002 |
| D bucket width mm | 1900 | 2100 | 2200 | 1900 | 1900 |
| U clearance diameter mm | 9415 | 9628 | 9780 | 9415 | 9740 |
| G digging depth mm | 100 | 100 | 100 | 100 | 120 |
| H dump height 45° mm | 2502 | 2465 | 2391 | 2502 | 3825 |
| J reach at max height mm | 1013 | 1047 | 1114 | 1013 | 1390 |
| N max reach mm | 1092 | 1110 | 1190 | 1092 | 2021 |
| Operating weight kg | 4900 | 5150 | 5250 | 4950 | 5300 |

| PL 145 12,5 - 20 tyres | |
|---------------------------|---------|
| A | 2720 mm |
| A1 | 43° |
| B | 4724 mm |
| B1 | 48° |
| C | 2300 mm |
| C1 | 1000 mm |
| D1 | 70 mm |
| E1 | 40° |
| F | 320 mm |
| I | 3250 mm |
| M | 3075 mm |
| O | 60° |
| S | 96° |
| T | 4300 mm |
| V | 2407 mm |
| X | 1460 mm |
| Y | 1815 mm |
| Z | 3000 mm |

| Data with universal forks Centre of gravity 500 mm | |
|---|------|
| Tipping load articulated (ISO 14397) kg | 2197 |
| Operative load EN 474-3, (80%) kg | 1757 |
| Operative load EN 474-3, (60%) kg | 1318 |

| | | | |
|----|---------|----|---------|
| 1) | 907 mm | 6) | 500 mm |
| 2) | 1592 mm | 7) | 702 mm |
| 3) | 3110 mm | 8) | 1037 mm |
| 4) | 500 mm | 9) | 2585 mm |
| 5) | 1504 mm | | |

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