

T4512

Telehandler



WEIDEMANN
designed for work



T4512 Technical specifications

Engine data Standard

Manufacturer	Yanmar
Engine type	3TNV80 FT
Cylinders	3
Engine performance	18.4 (25) kW (hp)
at rpm (max.)	2600 rpm
Cubic capacity	1226 cm ³
Cooling system	Water
Emissions standard level	V
Exhaust after treatment	-

Engine data Option

Manufacturer	Yanmar
Engine type	3TNV86 CHT
Cylinders	3
Engine performance	33.3 (45.3) kW (hp)
at rpm (max.)	2600 rpm
Cubic capacity	1568 cm ³
Cooling system	Water
Emissions standard level	V
Exhaust after treatment	DOC+DPF
Electrical system	
Operating voltage	12 V
Battery (optional)	77 (100) Ah
Alternator (optional)	80 (130) A
Weights	
Operating weight (standard)	2750-2900* kg
Payload (max.)	1,250 kg
Vehicle data	
Axle	PAL1165
Cab	Cab
Ground speed (optional)	0-20 (30) km/h
Speed stages	2
Fuel tank capacity	33 l
Hydraulic oil tank capacity	36 l
Steering angle (max.)	2x38 °
Hydraulic system	
External services - Operating pressure	380 bar
Steering hydraulics - Oil flow (optional)	28.6 (41.6 - 70.2) l/min
Steering hydraulics - Operating pressure	220 bar
Drive	
Type of drive	ecDrive (electronically-controlled traction drive)
Traction drive	hydrostatic via Transfer gear driveshaft
Noise values	
Average sound power level L _{WA}	99 dB(A)
Guaranteed sound power level L _{WA}	101 dB(A)
Specified sound pressure level L _{pA}	85 dB(A)

* With optional equipment (large engine)

DPF (diesel particulate filter)

DOC (diesel oxidation catalytic converter)

Vibrations (weighted average effective value)

Hand-arm vibrations: The hand-arm vibrations are no more than 2.5 m/s²

Whole-body vibrations: This machine is equipped with an operator's seat that meets the requirements of EN ISO 7096:2000.

When the loader is used in accordance with the intended purpose, the whole body vibrations vary from below 0.5 m/s² up to a short-term maximum value.

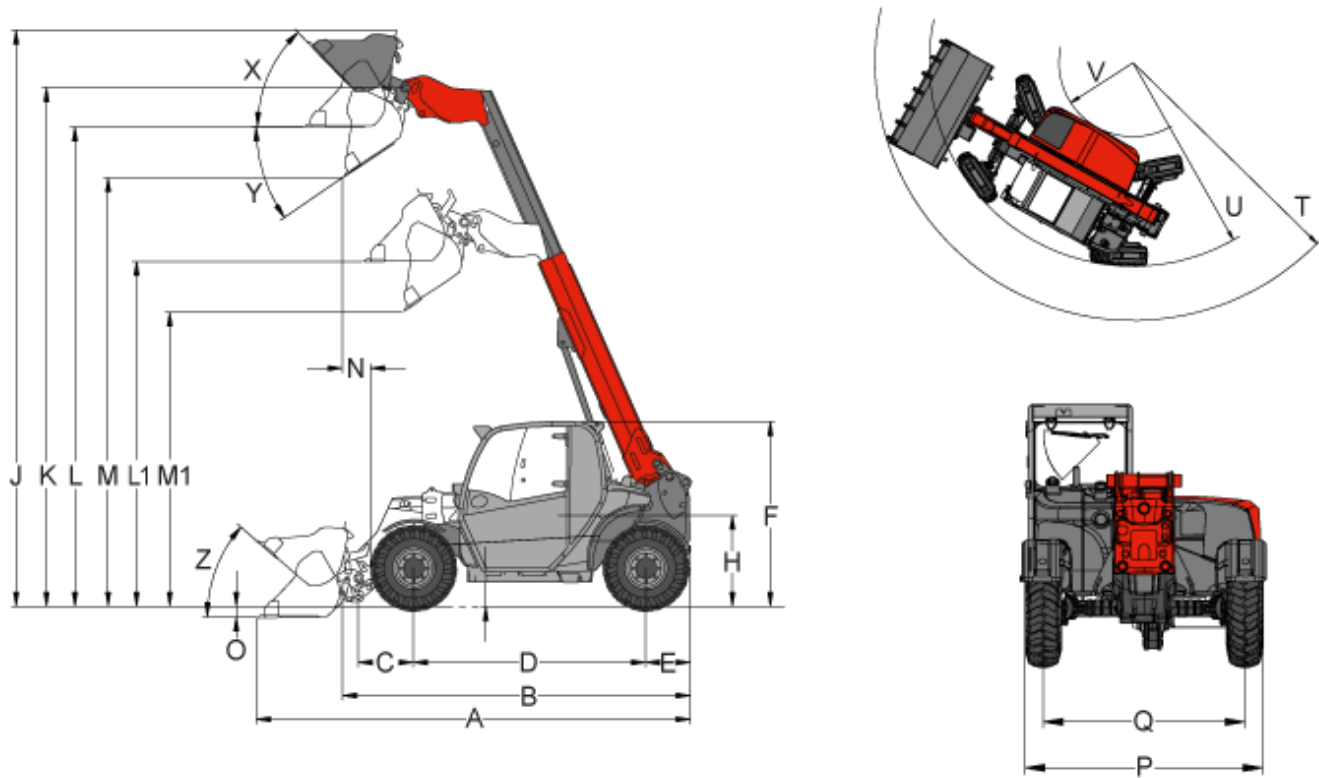
It is recommended to use the values specified in the table when calculating the vibration values according to ISO/TR 25398:2006. At the same time the actual use conditions have to be taken into consideration.

Telehandlers, like wheel loaders, are to be classified by operating weight.

Type of loader	Typical operating conditions	Mean value			Standard deviation (s)		
		$1,4 \cdot a_{w,eqx}$ [m/s ²]	$1,4 \cdot a_{w,eqy}$ [m/s ²]	$a_{w,eqz}$ [m/s ²]	$1,4 \cdot s_x$ [m/s ²]	$1,4 \cdot s_y$ [m/s ²]	s_z [m/s ²]
Compact wheel loader (Operating weight < 4500kg)	Load & carry (loading and transport work)	0.94	0.86	0.65	0.27	0.29	0.13
Wheel loader (Operating weight > 4500kg)	Load & carry (loading and transport work)	0.84	0.81	0.52	0.23	0.2	0.14
	Application in extraction (harsh application conditions)	1.27	0.97	0.81	0.47	0.31	0.47
	Delivery drive	0.76	0.91	0.49	0.33	0.35	0.17
	V-operation	0.99	0.84	0.54	0.29	0.32	0.14

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T4512 Dimensions



A	Total length	3,944 mm
B	Total length (without bucket)	2,991 mm
C	Axle middle to bucket pivot pin	450 mm
D	Wheelbase	1,922 mm
E	Rear overhang	427 mm
F	Height to top of cabin	1,995 mm
H	Seat top height	978 mm
J	Total working height	5,280 mm
K	Height of bucket pivot (max.)	4,537 mm
L1	Load-over height Retracted telescopic arm	2,949 mm
L	Load-over height Extended telescopic arm	4,163 mm
M1	Dumping height Retracted telescopic arm	2,415 mm
M	Dumping height Extended telescopic arm	3,630 mm
N	Operating distance for M	557 mm
O	Digging depth	91 mm
P	Total width	1,564 mm
Q	Track width	1,235 mm

S	Ground clearance	294 mm
T	Maximum radius external	3,506 mm
U	Radius at the outer edge	2,695 mm
V	Inside turning radius	951 mm
X	Rollback angle at max. lifting height	52 °
Y	Dumping angle (max.)	31 °
Z	Rollback angle (on the ground)	44 °

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T4512 Standard components

Engine

- Yanmar engine 3TNV80 FT (18.4 kW / 25 hp) I stage V

Steering system

- Hydrostatic all-wheel steering with end position synchronisation
- Oscillating angle of the rear axle $\pm 7^\circ$

Tyres

- 10.0 / 75 - 15.3 AS

Driver's cab

- With heating and ventilation, ROPS / FOPS tested with VSG safety windscreens on the right-hand side.
- Front, roof and rear windscreen wipers
- Heated rear window
- Inclination display
- Armrest with storage compartment
- Sun shade
- Bottle holder
- Storage net

Operator's seat

- Comfort seat with safety belt

Lighting

- LED work lights, 1 front, 1 rear on the cabin roof

Drive / shafts

- Axle: Planetary axle PAL 1165, hydrostatic medium-pressure 4-wheel drive
- Drive: hydrostatic through PTO gear and driveshaft, electronically controlled
- Drive modes: Auto mode, eco mode (reduced rpm once set speed is reached)
- Speed: 20 km/h
- Speed stages: 2 | 7 km/h / 20 km/h (optional 30 km/h)
- Service brake: Hydraulically activated brake on the front axle acts on rear axle through driveshaft
- Parking brake: Electro-hydraulic spring-loaded break on the front axle acts on the rear axle through driveshaft, including auto-hold function

Loader unit

- Telescopic arm lifting height 4537 mm
- Quickhitch facility (Weidemann MV/TH - C) mechanical
- Lifting cylinder: 1
- Tilting cylinder: 1

Hydraulics

- Mechanical pilot-operated joystick with forward-reverse control switch and telescoping function
- 3rd control circuit at the front via lever; connections flat face Gr. 2
- vls (Vertical Lift System)
- Hydraulic oil cooler

Other

- Reversing warning (audible)

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T4512 Options

Driver's cab

- Protective grille for front windscreen, removable
- Faux-leather seat; air cushioned
- Fabric seat; air cushioning
- Fabric seat; air cushioning; heated
- Air-conditioning system
- Radio-ready (antenna, speaker)
- Complete radio kit
- Socket 2x USB
- Steering column, adjustable (angle and height)

Lighting

- Lighting according to Road Traffic Regulations (StVZO)
- LED lighting according to Road Traffic Regulations (StVZO)
- LED working lights (1000 lm) on cab roof, 2 at the front, 1 at the rear
- LED Performance working lights (2000 lm) on cab roof, 2 at the front, 1 at the rear
- LED work lights (1000 lm) on telescopic arm, 1 in front
- LED Performance work lights (2000 lm) on telescopic arm, 1 in front
- rotating LED beacon (yellow) / (must comply with national specifications!)

Permitted on public highways

- Individual operating permit < 25 km/h
- Individual operating permit > 25 km/h
- Front and rear licence plate bracket

Drive / shafts

- Diesel engine Yanmar 3TNV86 33.3 kW / 45 hp I Stage V I DOC/DPF
- Manual throttle
- Engine pre-heater (coolant) + hydraulic oil pre-heater 230 V
- Reversing fan
- Axle PA1165, hydrostatic medium pressure all-wheel drive, transfer gear, driveshaft, differential lock 100%
- Drive mode auto / eco / attachments | Comprises: Manual throttle, speed limiter
- Drive mode auto / eco / M-drive | Comprises: Manual throttle
- Proportional speed limiter (slow speed facility)
- 30 km/h (speed increase)
- Adjustable steering modes (front axle steering, all-wheel steering, crab steering)
- Sealed underbody protection

Tyres

- 31x15.50-15 AS ET0 Mitas
- 31x15.50-15 (400/50-15) AS ET0 Starco
- 10-16.5 EM ET-40
- 31x13.50-15 RP ET0 Mitas
- 10-16.5 Sure Trax ET-40 BKT
- 315/55 R16 ET-20 Continental MPT81
- 260/70 R16.5 ET-60 Michelin BIBSTEEL Hard Surface

Loader unit

- Weidemann HV/TH - C (hydraulic)
- Weidemann HV/TH - C - ecs (hydraulic - Easy Coupler System)
- Euro (hydraulic - ISO23206 EURO HV) (incl. two couplings SVK Gr. 3)
- SkidSteer (hydraulic - SAEJ2513 SSL HV)
- SMS HV (hydraulic)
- Kramer HV/TH - C (hydraulic)

Hydraulics in front

- 3rd control circuit via lever (two flat face couplings Gr. 2) including latch for simple control of joystick
- 3rd control circuit proportional, including continuous function via switch (operated by wheel on the front of the joystick)
- High flow single-acting performance hydraulics (70 l/min) (two couplings 1 x flat face Gr. 4A, plug / 1x flat face Gr. 4A, bushing), operation: via switch (0 - 1) + lever for 3rd control circuit
- Unpressurised return line (1 x flat face Gr.3, plug) including overflow oil line (1 x flat face Gr. 2, plug)
- Front plug-in coupling 3rd control circuit SVK Gr. 3
- Quick-connect couplings (Faster) 2-way - equipment side
- Quick-connect couplings (Faster) 2-way - equipment side + attachment side
- Quick-connect couplings (Faster) 2x 2-way - equipment side
- Quick-connect couplings (Faster) 2x 2-way - equipment side + attachment side
- Reversing valve in front on 3rd control circuit (3rd Control circuit with 4 flat face couplings Gr. 2), operation: Selection via switch (0 - 1)
- Pressure release for 3rd control circuit front on telescopic arm
- Panolin HLP Synt46 (bio-hydraulic fluid (oil))

Hydraulics at rear

- Hydro connection at rear (dual acting) via reversing valve (two SVK couplings Gr. 3), (3rd control unit front or rear), operation: via switch (0 - 1) + 3rd control circuit
- Hydro connection at rear (dual acting) (2 SVK couplings Gr. 3) incl. Separate control valve, operation: via switch (1 - 0 - 2)

Electrics front

- Socket front 13-pole (2x electrical functions E1/E2 and lighting), operation: Via 2 touch buttons on joystick; 1st function momentary, 2nd function latching
- Socket front 13-pole (2x electrical functions E1/E2 and lighting), operation: Via 2 touch buttons on joystick; 1st function latching, 2nd function momentary
- Socket front 13-pole (2x electrical functions E1/E2 and lighting), operation: Via 2 touch buttons on joystick; 1st function momentary, 2nd function momentary
- Socket front 13-pole (2x electrical functions E1/E2 and lighting), operation: Via 2 touch buttons on joystick; 1st function latching, 2nd function latching

Electric rear

- Triple-pole socket at rear (2x electrical functions E3/ E4, may be switched to socket at front), operation: Via switch; 1st function latching, 2nd function latching
- Socket at rear, 7-pole for lighting rear attachments
- Battery cut-off switch 2 circuits

Safety options

- KAT drive interlock (operation: via coded ignition switch key)

Other

- Self-recovery feature (not permitted for trailer operation!)
- Stacker coupling (not permitted for trailer operation!)
- Ball hitch device K50
- Automatic hitch device

- Toolbox incl. tool set and hand lever grease gun
- Combination bag (warning triangle / first aid kit)
- Fully automatic central lubrication unit
- Single colour RAL custom paint finish - instead of Weidemann red
- Multicolour RAL custom paint finish

Self-propelled work machine with trailer coupling

- Automatic hitch device, only in connection with: lighting according to Road Traffic Regulations (StVZO), rear 7-pole socket for lighting rear attachments, individual operating permit

Please note: that product availability can vary from country to country. It is possible that information / products may not be available in your country. More detailed information on engine power can be found in the operator's manual; the stated power may vary due to specific operating conditions. Subject to alterations and errors excepted. Applicable also to illustrations.

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