



## T4512 Telehandlers

### Technical Data

#### ■ Standard engine data

Engine manufacturer	Yanmar
Type of drive	3TNV80FT
Cylinders	3
Drive output	18.4 kW
Drive output	25 PS
at max. rpm	2,600 U/min
Displacement	1,226 cm <sup>3</sup>
Type of coolant	Water
Exhaust standard level	V
Exhaust after-treatment	-

#### ■ Engine data Option 1

Engine manufacturer	Yanmar
Type of drive	3TNV86CHT
Cylinders	3
Drive output	33.3 kW
Drive output	45.3 PS
at max. rpm	2,600 U/min
Displacement	1,568 cm <sup>3</sup>
Type of coolant	Water
Exhaust standard level	V
Exhaust after-treatment	DOC/DPF

#### ■ Electrical system

Operating voltage	12 V
Battery	77 Ah
Alternator	80 A

#### ■ Weights

Payload (max.)	1,250 kg
Operating weight	2,750 - 2,900 kg

#### ■ Driver's cab

Driver's cab	Cab
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#### ■ Filling levels

Tank capacity for fuel	33 l
Tank capacity for hydraulic oil	36 l

#### ■ Drive system

Type of drive	ecDrive (Electronic Controlled Drive)
drive unit	hydrostatic via transfer case and cardan shaft
Travel speeds increase/reduction	2
axle	PAL 1155
Travel speed Standard	0-20 km/h
Travel speed Option 1	0-30 km/h
Operating brake	Hydraulically actuated disc brake on front axle acting on rear axle via cardan shaft
Parking brake	Electro-hydraulic spring-loaded brake on front axle, acting on rear axle via cardan shaft
Differential lock	100% front axle rear axle

#### ■ Hydraulic system

Drive hydraulics working pressure (max.)	380 bar
Work hydraulics discharge volume (max.)	28,6 (41,6-70,2) l/min
Work hydraulics working pressure (max.)	220 bar

#### ■ Kinematics

Lifting cylinder	1
Tipping cylinder	1
Quick change system	mechanical (hydraulic)

#### ■ Steering

Steering type	Hydraulic all-wheel steering with end position synchronization
Steering cylinder	2
Steering angle max.	2x38 degree
Oscillating angle of the rear axle	± 7 degree

## ■ Noise characteristic values

Average sound power level L<sub>wA</sub> 99 dB(A)

Guaranteed sound power level L<sub>wA</sub> 101 dB(A)

Specified sound pressure level L<sub>pA</sub> 85 dB(A)

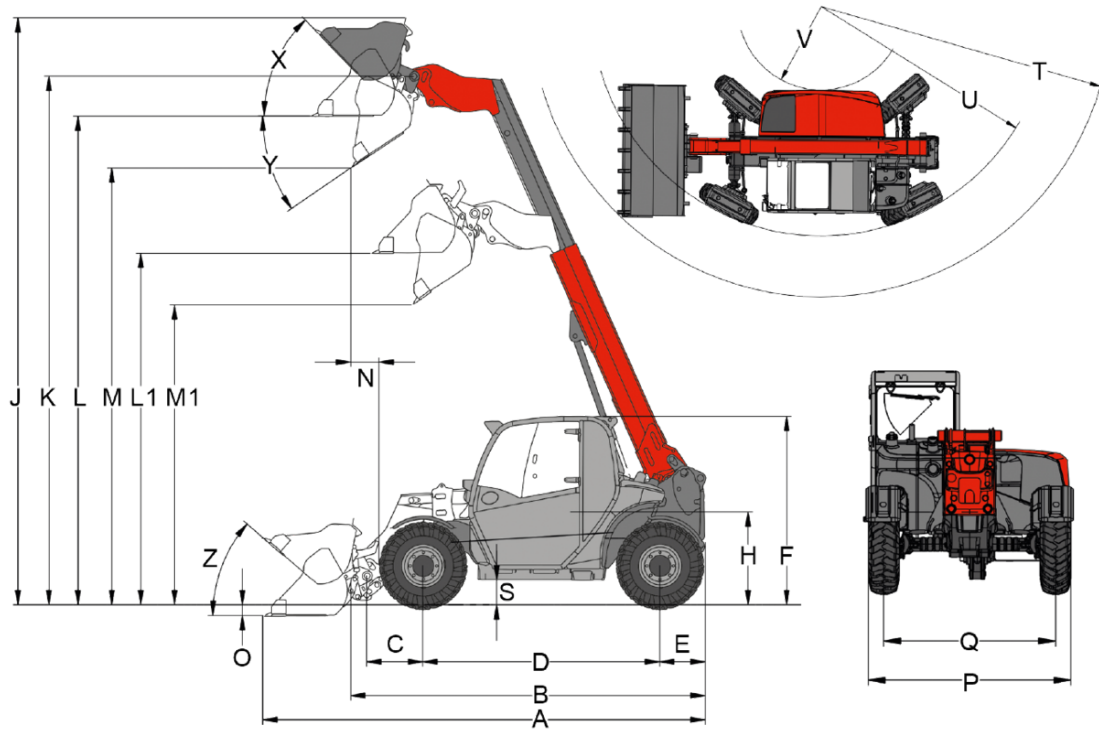
## ■ Other information

DPF = Diesel Particulate Filter

DOC = Diesel oxidation catalyst

SCR = Selective Catalytic Reduction

## Dimensions



		10.0/75-15.3 AS ET-40 Starcoo
<b>A</b>	Total length	3,944 mm
<b>B</b>	Total length without bucket	2,991 mm
<b>C</b>	Bucket pivot point (to center of axle)	450 mm
<b>D</b>	Wheel base	1,922 mm
<b>E</b>	Rear overhang	427 mm
<b>F</b>	Height with cab lowered	
	Height with cab	1,995 mm
	Height with cab raised	
<b>H</b>	Seat height	978 mm
<b>J</b>	Total working height	5,280 mm
<b>K</b>	Bucket pivot point (max. lift height)	4,537 mm
<b>L1</b>	Load-over height telescopic arm retracted	2,949 mm
<b>L</b>	Load-over height telescopic arm extended	4,163 mm
<b>M1</b>	Dumping height telescopic arm retracted	2,415 mm
<b>M</b>	Dumping height telescopic arm extended	3,630 mm
<b>N</b>	Reach (at M)	557 mm
<b>O</b>	Digging depth	91 mm
<b>P</b>	Total width	1,564 mm
<b>Q</b>	Track width	1,245 mm
<b>S</b>	Ground clearance	294 mm
<b>T</b>	Maximum radius	3,506 mm
<b>U</b>	Radius on the outer edge	2,695 mm
<b>V</b>	Inner radius	951 mm
<b>X</b>	Rollback angle at max. lift height	52 °
<b>Y</b>	Dumping angle	31 °
<b>Z</b>	Rollback angle on ground	44 °

## Engine

- Yanmar 3 TNV 80 FT, 18,4 kW / 25 hp, stage V

## Tires

- 10.0/75-15.3 (255/75-15.3) AS ET-40 Starco, width 1560 mm, height 1995 mm

## Steering system

- Hydraulic all-wheel steering with end position synchronization
- Steering angle max. 2x38°
- Pendulum angle rear axle  $\pm 7^\circ$
- Steering cylinder: 2

## Operator's cab

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

## Operator's seat

- Comfort seat with safety belt

## Lighting

- LED working lights: 1 front, 1 rear on the overhead guard

## Drive system

- Axle: PAL1165 planetary steering axle
- Drive: hydrostatic via transfer case and universal joint shaft, electronically controlled
- Driving modes: Auto mode; ECO mode (reduction of engine speed when set speed is reached)
- Speed: 20 km/h
- Travel speeds: 2 | 7 km/h / 20 km/h (Optional 30)
- Operating brake: Hydraulically actuated disc brake on front axle acting on rear axle via universal joint shaft
- Parking brake: Electro-hydraulic spring-loaded brake on front axle, acting on rear axle via universal joint shaft incl. Auto-hold function

## Loading system

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

## Hydraulics

- Mechanically pilot-controlled joystick with direction switch and telescopic function
- 3rd front control circuit via lever; connections Flatface size 2
- vls (Vertical Lift System)
- Hydraulic oil cooler

## Other

- Reversing alarm (acoustic)

## EquipCare (Telematics)

- EquipCare 36 months (incl. App & Manager)

## Operator's cab & Cabine

- Protective grille front windshield, removable
- Leatherette seat; air suspension
- Fabric seat; air suspension
- Fabric seat; air suspension; heated seats
- Air conditioning system
- Radio preparation FM (antenna, loudspeaker)
- Radio preparation DAB+ (antenna, loudspeaker)
- Radio DAB+ complete
- Socket 2x USB
- Steering column adjustable (inclination and height)

## Lighting

- Lighting according to StVZO
- LED Lighting according to StVZO
- Worklights LED (1000 lm) on the cab roof, 2 front, 1 rear
- Worklight LED Performance (2000 lm) on cab roof, 2 front, 1 rear
- Worklight LED (1000 lm) on telescopic arm, 1 front
- Worklight LED Performance (2000 lm) on telescopic arm, 1 front
- Rotating beacon LED (yellow), national regulations must be observed!

## Approval & Road traffic

- Individual operating permit < 25 km/h
- Individual operating permit > 25 km/h
- License plate holder front and rear
- Warning markings, The national regulations must be observed!

## Drive system & Axles

- Diesel engine Yanmar 3TNV86 33.3 kW / 45 hp (use from -15°C - +45°C!) stage V
- Hand throttle
- Engine preheating (cooling water) + hydraulic oil preheating 230 V
- Reversing fan

### Axles

- Axle PA1165, hydrostatic medium pressure all-wheel drive

### Driving mode

- Driving mode Auto / Eco / Attachments
- Driving mode Auto / Eco / M-Drive

### Driving speed

- Speed limiter proportional (slow speed increase)
- 30 km/h (speed increase)
- Steering mode adjustment

## Tires

- 31x15.50-15 AS ET0 Mitas TR-07, profile AS, width 1560 mm, height 1992 mm
- 31x15.50-15 (400/50-15) AS ET0 Starco, profile AS, width 1560 mm, height 1997 mm
- 270/65-16.5 EM Kenda PowerGr ET-40, profile EM, width 1560mm, height 2000 mm
- 400/50-15 RP Starco Turf Tech ET0, profile Rasenprofil, width 1560 mm, height 1995 mm
- 270/65-16.5 EM Kenda RockGr ET-40, profile SureTrax, width 1560 mm, height 2000 mm
- 315/55 R16 ET-30 Continental MPT81, profile MPT81, width 1560 mm, height 1990 mm

## Loading system

- Weidemann HV/TH - C (hydraulic)
- Weidemann HV/TH - C - ECS (hydraulic - easy coupler system)
- Euro (hydraulic - ISO23206 EURO HV) (incl. two couplers SVK size 3)
- SkidSteer (hydraulic - SAEJ2513 SSL HV)
- SMS (hydraulic)
- Kramer HV/TH - C (hydraulic)

## Hydraulics

- Panolin HLP Synt46 (Biohydraulic oil)

## Hydraulics in front

- 3rd Control circuit via lever (two couplings Flatface size 2) incl. detent for single control lever
- 3rd Control circuit proportional incl. continuous function via switch incl. telescopic function proportional, Operation: Via control wheel at the front of the joystick

- High flow - power hydraulics single acting (70 l/min), (two couplings 1 x Flatface size 4A, plug / 1x Flatface size 4A, socket), Operation: Via switch (0 - 1) + lever for 3rd control circuit
- Front pressureless return (1 x Flatface size 3, plug) incl. leakage oil line (1 x Flatface size 2, plug)
- Quick coupling Faster 2-fold - machine side
- Quick coupling Faster 2-fold - machine side + attachment side
- Quick coupling Faster 2x 2-fold - machine side
- Quick coupling Faster 2x 2-fold - machine side + attachment side
- Changeover valve at the front of the 3rd control circuit (3rd Control circuit with 4 couplings Flatface size 2)
- Pressure release, 3rd Front control circuit on telescopic arm

#### Hydraulics in rear

- Hydraulic connection rear double-acting via changeover valve (two couplings SVK size 3), (3rd Control circuit front or rear), Operation: Via switch (0 - 1) + 3rd control circuit
- Hydraulic connection rear double-acting (two couplings SVK size 3) incl. separate control valve operation: Via switch (1 - 0 - 2)

#### Electrical connections in front

- Front 13-pin socket (2x electric functions E1/ E2 and lighting)
- Front 13-pin socket (2x electric functions E1/ E2 and lighting)
- Front 13-pin socket (2x electric functions E1/ E2 and lighting)
- Front 13-pin socket (2x electric functions E1/ E2 and lighting)

#### Electrical connections in rear

- Rear 3-pin socket (2x electric functions E3/ E4, switchable to front socket)
- Rear 7-pin socket for lighting rear attachments
- Battery disconnect switch 2 circuits (disconnection of the on-board power supply and the generator from the battery via 2 switching paths)

#### Safety options

- Immobilizer KAT

#### Custom-made paint finish

- Special painting RAL single color - instead of Weidemann red
- Special painting RAL multicolored

#### Other

- Tool box incl. tool set and hand lever grease gun
- Combi case (warning triangle / first aid kit)
- Central lubrication system fully automatic

Warranty extension (not discountable)

- Demo / Warehouse
- Economy 24 months (2500 h)
- Economy 36 months (3000 h)
- Economy 48 months (3500 h)
- Economy 60 months (4000 h)
- Economy 24 months (3000 h)
- Economy 36 months (4000 h)
- Economy 48 months (5000 h)
- Economy 60 months (6000 h)

#### Trailer and recovery equipment

- Self-recovery device (Not approved for trailer operation!)
- Maneuvering hitch (Not approved for trailer operation!)
- Trailer hitch ball head K50
- Trailer hitch automatic
- Maneuvering hitch + hitch ball head K50
- Trailer hitch automatic + trailer hitch ball head K50

#### Self-propelled work machines with ball hitch

- Trailer hitch automatic