



T4512 Telehandlers

Technical Data

■ Standard engine data

Engine manufacturer	Yanmar
Motor type	3TNV80FT
Cylinder	3
Drive output	18.4 kW
Drive output	25 PS
at max. rpm	2,600 U/min
Cylinder capacity	1,226 cm ³
Type of coolant	Water
Exhaust standard level	V
Exhaust aftertreatment	-
Average sound power level LwA (cabin)	93.5 dB(A)
Guaranteed sound power level LwA (cabin)	94 dB(A)
Specified sound pressure level LpA (cabin)	78 dB(A)

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

■ 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
Speed levels	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.)	36,4 (41,6-70) l/min
Work hydraulics working pressure (max.)	220 bar

■ Kinematics

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

■ Electrical system

Operating voltage	12 V
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■ 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

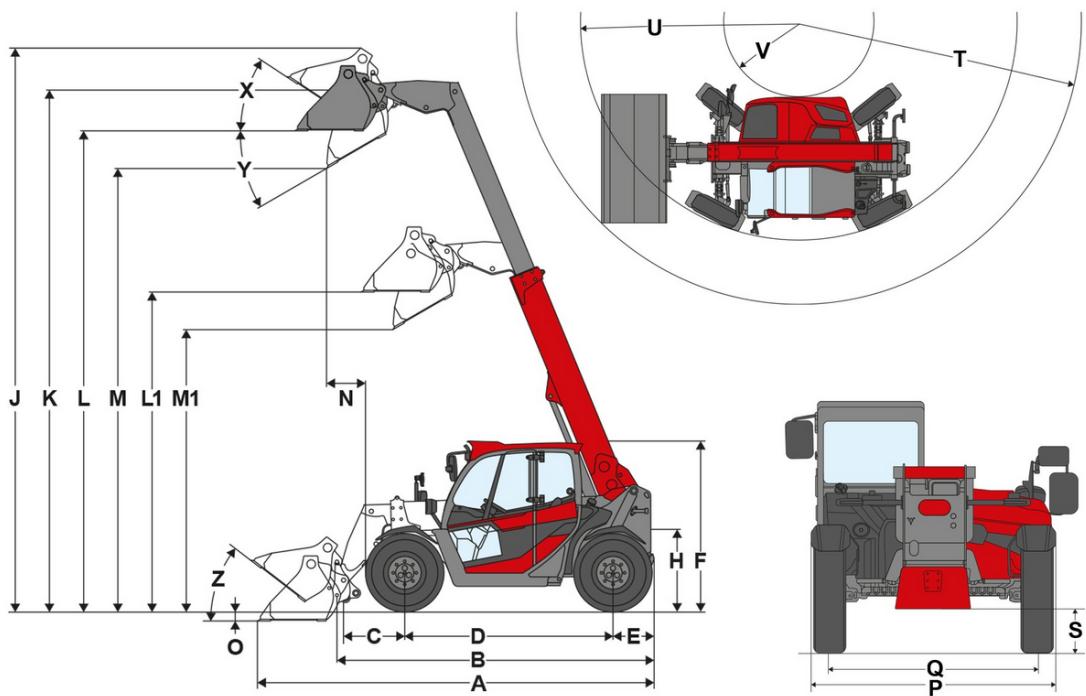
■ Other information

DPF = Diesel Particulate Filter

DOC = Diesel oxidation catalyst

SCR = Selective Catalytic Reduction

Dimensions



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

Standard components

Engine

- Yanmar 3 TNV 80 FT, {18.4 kW / 25 hp}{18.4 kW / 24.7 HP}, EU Stage V

Tires

- 255 / 75 - 15.3 (10.0/75-15.3) Starco AS ET-40, tread AS, width {1560 mm}{61.42}, height {1995 mm}{78.54 in}

Steering system

- Hydraulic all-wheel steering with end position synchronisation
- Max. steering lock 2x38 °
- Oscillating angle of the rear axle ± 7°
- Steering cylinder: 2

Operator's cab

- Cabin with heater and ventilation ROPS / FOPS tested with VSG safety glazing on the right side
- Front, roof and rear windscreen wipers
- Heated rear windscreen
- Tilt display
- Armrest with storage compartment
- Sun blind
- Bottle holder
- Storage net

Operator's seat

- Comfort seat with seat belt

Lighting

- LED Basic work lights (1000 lm) on the cabin, 1 front, 1 rear

Drive system

- Axle: Planetary axle PAL1165
- Drive system: Hydrostatic all-wheel drive system, electronically controlled, ecDrive (Electronic Controlled Drive)
- Operator mode: Auto Mode; Eco mode (reduction in rpm upon reaching the configured speed)
- Speed: {20 km/h}{12.4 mph}
- Travel speeds: 2 | {7 km/h / 20 km/h (Optional 30 km/h){4.4 mph / 12.4 mph (Optional 18.6 mph)}
- Service brake: Hydraulically activated disc brake on the front axle acts on rear axle through universal joint shaft
- Parking brake: Electro-hydraulic spring-loaded brake on the front axle acts on the rear axle through universal joint shaft, incl. auto-hold function

Loading system

- Telescopic arm lift height {4537 mm}{178.62}
- Quickhitch facility (Weidemann MV/TH- C) mechanical
- Lift cylinder: 1
- Tipping cylinder: 1

Hydraulics

- Mechanical pilot operated joystick with forward-reverse control switch and telescoping function
- 3rd control circuit front via lever; Flatface size 2 connections
- VLS (Vertical Lift System)
- Hydraulic oil cooler

Other

- Reversing alarm (audible)

EquipCare (telematics)

- EquipCare 36 months (incl. App & Manager)

Options

Operator's cab & Cabine

- Protective grating for front windscreen, removable
- Faux leather seat; air-cushioned; MSG75
- Fabric seat; air cushioned; MSG75

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- Fabric seat; air cushioned; heated seat; MSG75
- Air-conditioning system
- Radio-ready DAB+ (aerial, speaker)
- Radio DAB+ complete
- 2X USB/3-pole sockets
- Adjustable steering column (incline and height)

Lighting

- Lighting according to Road Traffic Regulations
- LED lighting according to StVZO
- LED work lights (1000 lm) on cabin roof, 2 front, 1 rear
- LED Performance work lights (2000 lm) on roof, 2 front, 2 rear
- LED work light (1000 lm) on telescopic arm, 1 front
- LED Performance work light (2000 lm) on telescopic arm, 1 front
- LED rotating beacon (yellow), national regulations must be adhered to

Approval & Road traffic

- Single operator permission < {25 km/h}{15.5 mph}
- Single operator permission > {25 km/h}{15.5 mph}
- Small, front and rear licence plate mounts
- Warning markings, the respective national provisions are to be observed!

Drive system & Axles

- Diesel engine Yanmar 3TNV86, {33.3 kW / 45.3 hp}{33.3 kW / 44.7 HP} (Application from -15°C - +45°C!), Stage V
- Manual throttle
- Engine pre-heater (coolant) + hydraulic oil pre-heater 230 V
- Pre-heating: Coolant, hydraulic oil, 230 V connector Type J (destination country: Switzerland)
- Reversing fan

Axles

- Planetary axle PAL1165, hydrostatic medium pressure 4 wheel drive, differential lock 100%

Operating mode

- Auto / Eco / Attachment operating mode
- Auto / Eco / M-Drive operating mode

Travel speed

- Proportional speed limiter (slow travel speed facility)
- {30 km/h}{18.6 mph} (speed increase)
- Steering modes adjustment

Tires

- 31 x 15.50 - 15 BKT TR 313 ET0, tread AS, width {1560 mm}{61.42 in}, height {1992 mm}{78.43 in}
- 400 / 50 - 15 (31x15.5-15) Starco AS ET0, tread AS, width {1560 mm}{61.42 in}, height {1997 mm}{78.62 in}
- 270 / 65 - 16.5 (10-16.5) Kenda Power Grip ET-40, tread EM, width {1560 mm}{61.42 in}, height {2000 mm}{78.74 in}
- 400 / 50 - 15 Starco Turf Tech ET0, turf tread, width {1560 mm}{61.42 in}, height {1995 mm}{78.54 in}
- 270 / 65 - 16.5 (10-16.5) Kenda Rock Grip ET-40, tread SureTrax, width {1560 mm}{61.42 in}, height {2000 mm}{78.74 in}
- 315 / 55 R 16 Continental MPT81 ET-30, tread MPT81, width {1560 mm}{61.42 in}, height {1990 mm}{78.35 in}

Loading system

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

Hydraulics

- Shell PANOLIN S4 HLP Synth 46 (bio hydraulic oil)

Hydraulics in front

- 3rd control circuit via lever (two couplings Flatface size 2) incl. notch for simple control lever
- 3rd control circuit proportional, incl. continuous function via switch incl. telescopic function proportional Operation: via scroll wheel on front of joystick
- High Flow - Performance hydraulics single-acting ({70 l/min}{18.5 gpm}), (two couplings 1x Flatface size 4A, socket / 1x Flatface size 4A, bushing) Operation: via switch (0 - 1) + lever for 3rd control circuit
- Depressurised return line, front (1x Flatface size 3, connector) incl. leakage pipe (1x Flatface size 2, connector)
- Faster, 2-way, rapid-action coupling - machine-side
- Faster, 2-way, rapid-action coupling - machine-side + attachment-side
- Faster, 2x 2-way, rapid-action coupling - machine-side
- Faster, 2x 2-way, rapid-action coupling - machine-side + attachment-side

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- Reversing valve in front on 3rd control circuit (3rd control circuit with 4 couplings Flatface size 2)
- Pressure release of 3rd control circuit on front of telescopic arm

Hydraulics in rear

- Rear hydraulic connection, dual-acting via reversing valve (two couplings SVK size 3) (3rd control circuit front or rear), operation: via switch (0 - 1) + 3rd control circuit
- Rear hydraulic connect, dual-acting (two couplings SVK size 3) incl. separate control valve, operation: via switch (1 - 0- 2)

Electrical connections in front

- Front socket, 13-pole (2x electrical functions E1/E2 and lighting)
- Front socket, 13-pole (2x electrical functions E1/E2 and lighting)
- Front socket, 13-pole (2x electrical functions E1/E2 and lighting)
- Front socket, 13-pole (2x electrical functions E1/E2 and lighting)

Electrical connections in rear

- Rear socket, 3-pole (2x electrical functions E3/E4, connectible to front socket)
- 7-pole plug receptacle in rear for lighting rear attachments
- Battery isolator switch for 2 circuits (disconnection of the on-board system and the generator via 2 throws from the battery)

Safety options

- Ignition key with immobiliser (operation: via coded ignition key)

Custom-made paint finish

- Special paint finish RAL one colour - instead of Weidemann red
- Multi-colour custom-made paint finish

Other

- Toolbox incl. tool set and hand lever grease gun
- Combination case (warning triangle / first aid kit)
- Fully automatic central lubrication unit

Warranty extension (not discountable)

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

Trailer and recovery equipment

- Self-loading equipment (not permitted for attachment operation)
- Shunting coupling (not permitted for attachment operation)
- Ball hitch device K50
- Hitch device {38 mm}{1.5 in}, automatic
- Shunting coupling + ball hitch device K50
- Automatic hitch device + ball hitch device K50

Self-propelled work machines with ball hitch

- Hitch device {38 mm}{1.5 in}, automatic