T4512e

Telehandlers

Technical data

Electric motor

Motor traction drive (ECE R085)	33,1 kW
Motor work hydraulics (ECE R085)	21.2 kW

Electrical system

Operating voltage	12 V

Weights

Payload (max.)	1,250 kg
Operating weight	2,750 - 3,100 kg

Driver's cab

Driver's cab	Cab

Filling levels

Tank capacity for hydraulic oil	36 l

Drive system

Type of drive	Electrical
drive unit	universal joint shaft
Speed levels	2
Axle	PAL1165
Travel speed Standard	0-15 km/h
Travel speed Option 1	0-20 km/h
Travel speed Option 2	0-25 km/h
Operating brake	Hydraulically operated disc brake
Parking brake	Electric parking brake with hill-hold function
Differential lock	100% VA + HA (option)

Hydraulic system

Work hydraulics discharge volume (max.)	41,6 l/min
Work hydraulics working pressure (max.)	220 bar

Kinematics

Lifting cylinder	1
Tipping cylinder	1
Quick change system	Mechanical (hydraulically activated)

Steering

Steering type	Hydrostatic 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 LwA (cabin)	85.7 dB(A)
Guaranteed sound power level LwA (cabin)	87 dB(A)
Specified sound pressure level LpA (cabin)	73 dB(A)

Standard battery

Battery technology	Lithium-ion
Battery voltage class	96 V
Battery capacity	18.0 kWh
Battery weight	186 kg
On-board charging capacity (max.)	6 kW
Loading time (0-100%)	3,2 - 7,5* h
Loading time (20-80%)	1,8* h
Running time up to	3,1** h

Battery Option 1

Battery technology	Lithium-ion
Battery voltage class	96 V
Battery capacity	28.0 kWh
Battery weight	244 kg
On-board charging capacity (max.)	6 kW
Loading time (0-100%)	5,5 - 11,5* h
Loading time (20-80%)	2,7* h
Running time up to	5,2** h

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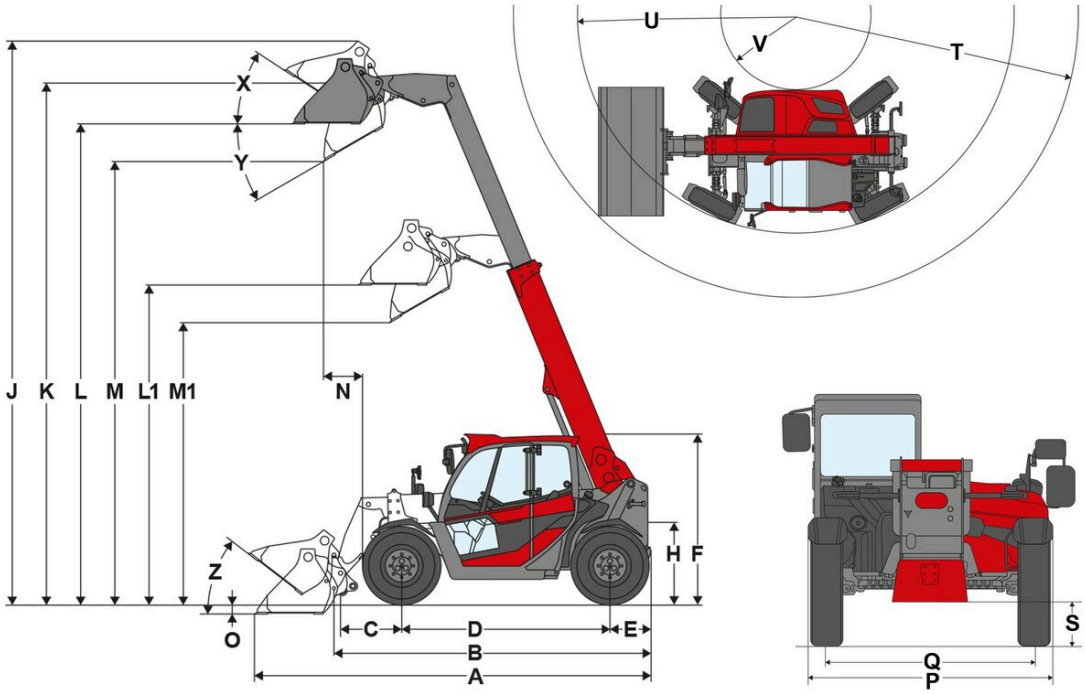
Dimensions



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	1,995 mm
H	Seat height	983 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
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 °

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Standard components

Drive system & Battery

- Battery (lithium-ion), 96 V, Battery capacity (gross) 18 kWh
- Battery charger On-board 3 kW, plug type 2, charger cable Schuko 230 V / 10 A
- Drive hydraulics motor (ECE R085) 33.1 kW
- Work hydraulics motor (ECE R085) 21.2 kW

Steering system

- Hydrostatic all-wheel steering with end position synchronization
- Steering angle max. 38°
- Oscillating angle of the rear axle 7°
- Steering cylinder: 2

Operator's cab

- Cabin with heater and ventilation ROPS/FOPS tested with VSG safety glass on the right side
- Front, roof and rear windshield wipers
- Home front windshield, right side windshield, and rear windshield
- Tilt indicator
- Armrest with storage compartment
- Sunblind
- 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 & Axles

- Axle: planetary steering axles PAL1165
- Drive system: electric drive, energy recuperation when decelerating, travel direction selectable on the joystick
- Battery: internal battery heater, charge time 20% to 80% SOC 1,8 hr, charge activation switch
- Speed: 15 km/h (optional 20 / 25)
- Speed levels: 2
- Operating brake: hydraulically operated disc brake on the front axle effective on the rear axle via the drive shaft
- Parking brake: electric parking brake with hill-hold function (the electric motor holds the machine when stopping on a hill)

Tires

- 10.0/ 75-15.3 (255/75-15.3) AS ET-40 Starco

Loading system

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

Hydraulics

- Mechanical, pilot-operated joystick with travel direction switch and proportional 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)

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Options

Operator's cab & Cabine

- Protective grating for windshield, removable
- Artificial leather seat; air cushioned
- Fabric seat; air cushioned
- Fabric seat; air cushioned; heated seat
- Roof heating panel
- Radio FM-ready (aerial, speaker)
- Radio DAB+-ready (aerial, speaker)
- Radio DAB+ complete
- Power socket 2x USB
- Adjustable steering column (inclination and height)

Lighting

- Lighting according to StVZO road regulations
- LED lighting according to StVZO road regulations
- LED work lights (1000 lm) on cabin roof, 2 front, 1 rear
- LED Performance work lights (2000 lm) on cabin roof, 2 front, 1 rear
- LED work lights (1000 lm) on telescopic arm, 1 front
- LED Performance work lights (2000 lm) on telescopic arm, 1 front
- LED rotating beacon (yellow), National regulations must be maintained!

Approval & Road traffic

- Individual operating permit < 25 km/h
- Front and rear license plate bracket
- Warning markings, The national regulations must be maintained!

Drive system & Axles

- Hand throttle
- Adjustable steering types

Axles

- Axle PA1165, electrical all-wheel drive with lock, transfer case, universal joint shaft, differential lock 100%

Travel speed

- 20 km/h (speed increase)
- 25 km/h (speed increase)

Tires

- 31x15.50-15 AS ET0 BKT TR-313 (tread AS, width 1,564 mm, height 1,992 mm)
- 31x15.50-15(400/ 50-15) AS ET0 Starco (tread AS, width 1,564 mm, height 1,997 mm)
- 270/65-16.5 EM Kenda PowerGr ET-40 (tread EM, width 1,564 mm, height 2,000 mm)
- 400/50-15 RP Starco Turf Tech ET0 (tread RP, width 1,564 mm, height 1,992 mm)
- 270/65-16.5 EM Kenda PowerGr ET-40 (tread SureTrax, width 1,564 mm, height 2,000 mm)
- 315/55 R16 ET-30 Continental MPT81 (tread MPT, width 1,564 mm, height 1,990 mm)

Loading system

Quick change plates

- 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

- Oil volume adjustment of 3rd control circuit
- Shell PANOLIN S4 HLP Synth 46 (Biohydraulic oil)
- Hydraulic oil - pre-warming

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Hydraulics in front

- 3rd control circuit proportional incl. continuous function via switch (operation: via control wheel at front on joystick)
- vls (vertical lift system) with additional manual mode
- Front, depressurized return line (1x flatface gr. 3 plug) incl. overflow oil line (1x flatface gr. 2 plug)
- Faster quick coupling 2-fold - on the machine
- Faster quick coupling 2-fold - on the machine + attachment
- Faster quick coupling 2x 2-fold - on the machine
- Faster quick coupling 2x 2-fold - on the machine + attachment
- Front switch valve on 3rd control circuit (3rd control circuit with 4 couplings, flatface gr. 2), (operation: selection via switch (0 - 1))
- Pressure release, 3rd control circuit front on telescopic arm

Hydraulics in rear

- Dual-acting, rear, hydraulic connection via switch valve (two couplings SVK gr. 3), (3rd control circuit front or rear), operation: Via switch (0 - 1) + 3rd control circuit

Electrical system

- Lithium-ion battery 28.0 kWh 96V
- On-board charger up to 6 kW (AC)

Charger cable (on the machine, type 2, multiple selection available)

- Protective contact mains plug (SchuKo) 230V/10A (is pre-selected, can be deselected is no charging cable or another charging cable is required)
- CEE, 3-pole 230V/16A (blue)
- CEE, 5-pole 400V/16A (red)
- Type 2 (IEC 62196)
- Adapter set EU (Schuko, CEE 3-pole, CEE 5-pole)

Battery charge level release

- Charge release lockable

front

- Socket front, 13-pole, (2x electrical functions E1/ E2 and lighting), operation: Using 2 keys on the joysticks; 1st function tentative, 2nd function resting
- Socket front, 13-pole, (2x electrical functions E1/ E2 and lighting), operation: Using 2 keys on the joysticks; 1st function tentative, 2nd function resting
- Socket front, 13-pole, (2x electrical functions E1/ E2 and lighting), operation: Using 2 keys on the joysticks; 1st function tentative, 2nd function resting
- Socket front, 13-pole, (2x electrical functions E1/ E2 and lighting), operation: Using 2 keys on the joysticks; 1st function tentative, 2nd function resting

rear

- Socket rear, 3-pole, (2x electrical functions E3/ E4, can be switched over to front socket), operation: Via switch; 1st function tentative, 2nd function resting
- Rear socket 7-pole for lighting rear attachments

Safety options

- Rear blue safety light
- KAT immobilizer, Operation: Via a coded ignition key

Custom-made paint finish

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

Other

- Large toolbox (charging cable compartment) incl. tool set and hand lever grease press
- Combination bag (warning triangle / first aid kit)
- Fully automatic central lubrication unit

Warranty extension

- 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-rescue device (not approved for trailer operation!)
- Railway coupling (not approved for trailer operation!)
- Ball hitch coupling K50
- Automatic trailer coupling
- Railway coupling + ball hitch coupling K50
- Automatic trailer coupling + ball hitch coupling K50

Self-propelled work machines with ball hitch

- Trailer hitch automatic

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