



T7042 Telehandlers



Technical Data

■ Standard engine data

Engine manufacturer	Perkins
Motor type	904J-E36TA
Cylinder	4
Drive output	100 kW
Drive output	136 PS
at max. rpm	2,200 U/min
Cylinder capacity	3,621 cm ³
Type of coolant	Water
Exhaust standard level	V
Exhaust aftertreatment	DOC/DPF/SCR
Average sound power level LwA (cabin)	105 dB(A)
Guaranteed sound power level LwA (cabin)	106 dB(A)
Specified sound pressure level LpA (cabin)	76 dB(A)

■ Electrical system

Operating voltage	12 V
Battery	185 Ah
Alternator	150 A

■ Weights

Payload (max.)	4,200 kg
Operating weight	7,650 kg

■ Driver's cab

Driver's cab	Cab
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■ Filling levels

Tank capacity for fuel	142 l
Tank capacity for hydraulic oil	90 l
Tank capacity for urea solution	19 l

■ Drive system

Type of drive	Hydrostatic (electronically regulated)
drive unit	universal joint shaft
Speed levels	3
Axle	PAL 1930
Travel speed Standard	0-20 km/h
Travel speed Option 1	0-40 km/h
Operating brake	Multi-disc brake on front axle acting on rear axle via universal joint shaft Electro-hydraulic multi-disc brake with spring suspension on the front axle, acting on rear axle via universal joint shaft
Parking brake	
Differential lock	100 % front axle (option)

■ Hydraulic system

Drive hydraulics working pressure (max.)	500 bar
Work hydraulics discharge volume (max.)	138,6 (187) l/min
Work hydraulics working pressure (max.)	261 bar

■ Kinematics

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

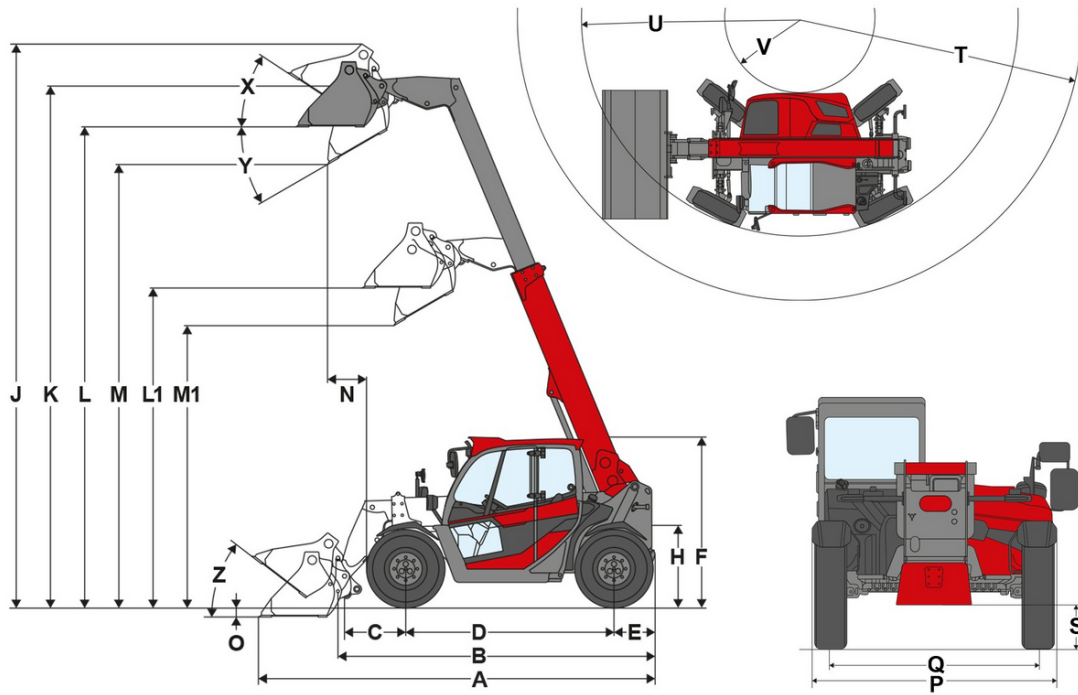
■ Steering

Steering type	Hydrostatic all-wheel steering with fully automatic synchronization
Steering cylinder	2
Steering angle max.	2x45 degree
Oscillating angle of the rear axle	± 10 degree

■ Other information

DPF = diesel particulate filter DOC = diesel oxidation catalyst SCR = selective catalytic reduction

Dimensions



	Standard components	Mitas 405/70 R24 MPT-01
A	Total length	6,035 mm
B	Total length without bucket	4,950 mm
C	Bucket pivot point (to center of axle)	871 mm
D	Wheel base	2,950 mm
E	Rear overhang	700 mm
F	Height with cab lowered	
	Height with cab	2,425 mm
	Height with cab raised	
H	Seat height	1,370 mm
J	Total working height	7,895 mm
K	Bucket pivot point (max. lift height)	7,305 mm
L1	Load-over height telescopic arm retracted	4,470 mm
L	Load-over height telescopic arm extended	6,770 mm
M1	Dumping height telescopic arm retracted	3,930 mm
M	Dumping height telescopic arm extended	6,230 mm
N	Reach (at M)	
O	Digging depth	185 mm
P	Total width	2,450 mm
Q	Track width	1,930 mm
S	Ground clearance	370 mm
T	Maximum radius	5,155 mm
U	Radius on the outer edge	3,700 mm
V	Inner radius	1,640 mm
X	Rollback angle at max. lift height	45 °
Y	Dumping angle	44 °
Z	Rollback angle on ground	46 °

Standard components

Engine

- Perkins 904J-E36TA, {100 kW (136 PS)}{100 kW (134.1 HP)}, (DOC/DPF/SCR), EU Stage V

Tires

- 405/70-24 Alliance 152B A323, tread AS

Steering system

- Hydrostatic all-wheel steering with end position synchronization
- Steering lock max. 2 x 45°
- Oscillating angle of the rear axle $\pm 10^\circ$
- 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 windshield wipers
- Heated rear windshield
- Adjustable steering column (tilt and height)
- Tilt display
- Sun shade
- Bottle holder
- Co-sprung armrest with joystick console mounted on seat
- 7" color display for all important machine information

Operator's seat

- Fully damped comfort seat with safety belt, weight, back and height adjustment

Lighting

- Lighting according to StVZO road regulations
- LED Basic work lights (1000 lm) on the roof, 1 front, 1 rear

Drive system

- Axle: Planetary steering axle
- Drive system: Hydrostatic all-wheel drive Power Drive 255, electronically controlled
- Speed: {20 km/h}{12.4 mph}
- Travel speeds: 2 | {7 km/h / 20 km/h (Optional 40)}{4.4 mph / 12.4 mph (Optional 24.9 mph)}
- Operating brake: Disc brake in front axle acting on rear axle via universal joint shaft
- Parking brake: Electro-hydraulic disc brakes with spring suspension in the front axle, also acting on the rear axle via the universal joint shaft
- Steering modes: 3 steering modes, electrically adjustable

Loading system

- Telescopic arm lift height {7305 mm}{287.6 in}
- Mechanical quick coupler system (Manitou System)
- Lifting cylinder: 1
- Tipping cylinder: 1

Hydraulics

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

Other

- Reverse alarm (acoustic)
- Document box

EquipCare (telematics)

- EquipCare 36 months (incl. App & Manager)

Options

Operator's cab

- Windscreen wiper right side
- Windshield heating right and rear
- Protective grille front windshield, removable
- Electrical mirror adjustment for right side
- Air conditioning system
- Automatic air conditioning
- Radio preparation DAB+ (antenna, loudspeaker)
- DAB+ Radio, Bluetooth / USB / AUX-IN
- 2 sockets: 12V / USB
- 3 sockets: 12V / USB / 3-pin
- 3 sockets: 12V / 12 V / 3-pin 40.0
- Cell phone holder

Operator's seat

- Fabric seat; air suspension
- Fabric seat; air suspension; heated seat

Lighting

Basic LED worklights (1000 lm)

- 2 basic additional front LED worklights
- 2 basic additional rear LED worklights
- 2 basic LED worklights on telescopic arm

Premium LED worklights (2000 lm)

- 2 premium additional front LED worklights
- 2 premium additional rear LED worklights
- 2 premium LED worklights on telescopic arm
- Rotating beacon LED (yellow), (The national regulations must be observed!)

Approval & Road traffic

- EC Tractor Approval (CoC) (International)
- EC Tractor Approval (CoC) + Data Confirmation for Germany
- License plate holder front and rear

Drive system & Axles

Drive

- Diesel engine Perkins 100 kW / 136 hp torque 550 Nm
- Reversing fan
- Engine preheating (cooling water) 230 V
- Engine preheating (cooling water) + hydraulic oil preheating 230 V
- Maintenance access radiator

Axles

- Differential lock 100% in front axle

Driving mode

- Driving mode Auto / Eco mode

Driving speed

- Speed limiter proportional (slow speed device) incl. hand throttle
- 30 km/h (speed increase)
- 40 km/h Power Drive 255 (speed increase)

Tires

- Firestone 460/70 R24 Duraforce, tread MPT, width 2450 mm, height 2440 mm
- Michelin 460/70 R24 XMCL, tread AS, width 2450 mm, height 2440 mm
- Michelin 460/70 R24 Bibload, tread Bibload, width 2450 mm, height 2440 mm
- 460/70R24 Trelleborg TH500, tread MPT, width 2450 mm, height 2440 mm

Loading system

Quick change plates

- Manitou hydraulic
- Kramer mechanical
- Kramer hydraulic
- JCB (Q-Fit) hydraulic
- Matbro hydraulic
- Dirt scraper telescopic arm
- Loading swing arm damping & tipping cylinder lock
- Loading swing arm damping, floating position & tipping cylinder lock

Bio-hydraulic oil

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

Hydraulics in front

- Large pump (187 l/min)
- Switching valve at the front of the 3rd Control circuit (3rd Control circuit with 4 couplings)
- Pressure release, 3rd Control circuit on telescopic arm
- One hydraulic connection at the rear double-acting (two couplings) + tipper connection at the rear single-acting (one coupling)

Electrical connections in front

- Socket front 13-pin (2x electric functions E1/ E2 and lighting), (Operation: Via 2 buttons on the joystick; 1st Function push-button, 2nd Function latching)
- Socket front 13-pin (2x electric functions E1/ E2 and lighting), (Operation: Via 2 buttons on the joystick; 1st Function latching, 2nd Function push-button)
- Socket front 13-pin (2x electric functions E1/ E2 and lighting), (Operation: Via 2 buttons on the joystick; 1st Function push-button, 2nd Function push-button)
- Socket front 13-pin (2x electric functions E1/ E2 and lighting), (Operation: Via 2 buttons on the joystick; 1st Function latching, 2nd Function latching, 2nd)

Electrical connections in rear

- Rear socket 7-pole for lighting of rear attachments

Safety options

- Immobilizer KAT, operation: Via coded ignition key
- Panoramic mirror inside
- Rear view camera
- Front camera incl. additional display

Other

- Toolbox, including tool set and hand lever grease press
- Fully automatic central lubrication unit
- Service valve engine-oil change
- Center tunnel cover

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

- Mirror for trailer hitch
- Railway coupling (not approved for trailer operation!)
- Auto hitch
- Bearing block for attachment coupling
- Automatic attachment coupling, height-adjustable for bearing block
- Ball hitch attachment coupling K80, height-adjustable for bearing block
- Ball hitch attachment coupling K50, height-adjustable for bearing block
- Ball hitch attachment coupling K50 long, height-adjustable for bearing block
- Piton-Fix attachment coupling, height-adjustable for bearing block
- Mechanical 32mm attachment coupling
- Attachment coupling 32mm mechanical, height-adjustable for bearing block
- Hydraulic attachment brake
- Dual-line, pressure air-brake system

Approval as tractor

- EC tractor approval (CoC) (International)
- EC tractor approval (CoC) + data confirmation for Germany