



3090T

Telescopic wheel loaders

Technical data

■ Electrical system

Operating voltage	12 V
Battery	100 Ah
Alternator	120 A

■ Weights

Operating weight	5,730 - 5,980 kg
Thrusting force (max.)	5,000 - 5,200 daN
Thrust force (max.)	4,470 daN
Lift capacity (max.)	4,620 daN
Tipping load with bucket – machine straight, loading frame horizontal	3,450 - 3,610 kg
Tipping load with bucket – machine pivoted, loading frame horizontal	3,010 - 3,170 kg
Tipping load with bucket – machine straight (extended)	1,910 - 2,010 kg
Tipping load with bucket – machine pivoted (extended)	1,650 - 1,750 kg
Tipping load with bucket - machine straight, loading frame in lowest position	4,630 - 4,840 kg
Tipping load with bucket - machine pivoted, loading frame in lowest position	4,050 - 4,260 kg
Tipping load with pallet fork – machine straight, loading frame horizontal	3,110 - 3,250 kg
Tipping load with pallet fork – machine pivoted, loading frame horizontal	2,730 - 2,870 kg
Tipping load with pallet fork – machine straight (extended)	1,870 - 1,960 kg
Tipping load with pallet fork – machine pivoted (extended)	1,630 - 1,720 kg
Tipping load with pallet fork - machine straight, transport position	3,650 - 3,810 kg
Tipping load with pallet fork - machine pivoted, transport position	3,210 - 3,360 kg

■ Driver's cab

Driver's cab	Cab
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■ Filling levels

Tank capacity for fuel	80 l
Tank capacity for hydraulic oil	32 l

■ Drive system

Type of drive	ecDrive (Electronic Controlled Drive)
drive unit	hydrostatic via the transfer box and the drive shaft
Speed levels	2
Axle	PA 1422
Travel speed Standard	0-20 km/h
Travel speed Option 1	0-30 km/h
Travel speed Option 2	0-40 km/h
Operating brake	Drum brake (option: multi-disc brakes)
Parking brake	Drum brake (option: multi-disc brakes)
Differential lock	100 % front axle + rear axle

■ Hydraulic system

Drive hydraulics working pressure (max.)	500 bar
Work hydraulics discharge volume (max.)	93 (95-101) l/min
Work hydraulics working pressure (max.)	235 bar

■ Kinematics

Kinematics type	Teleskoparm (Z-Kinematik)
Lifting cylinder	1
Tipping cylinder	1
Quick change system	hydraulic

■ Steering

Steering type	hydraulically activated articulated pendulum steering
Steering cylinder	1
Oscillating angle	± 10 degree

■ Noise characteristic values

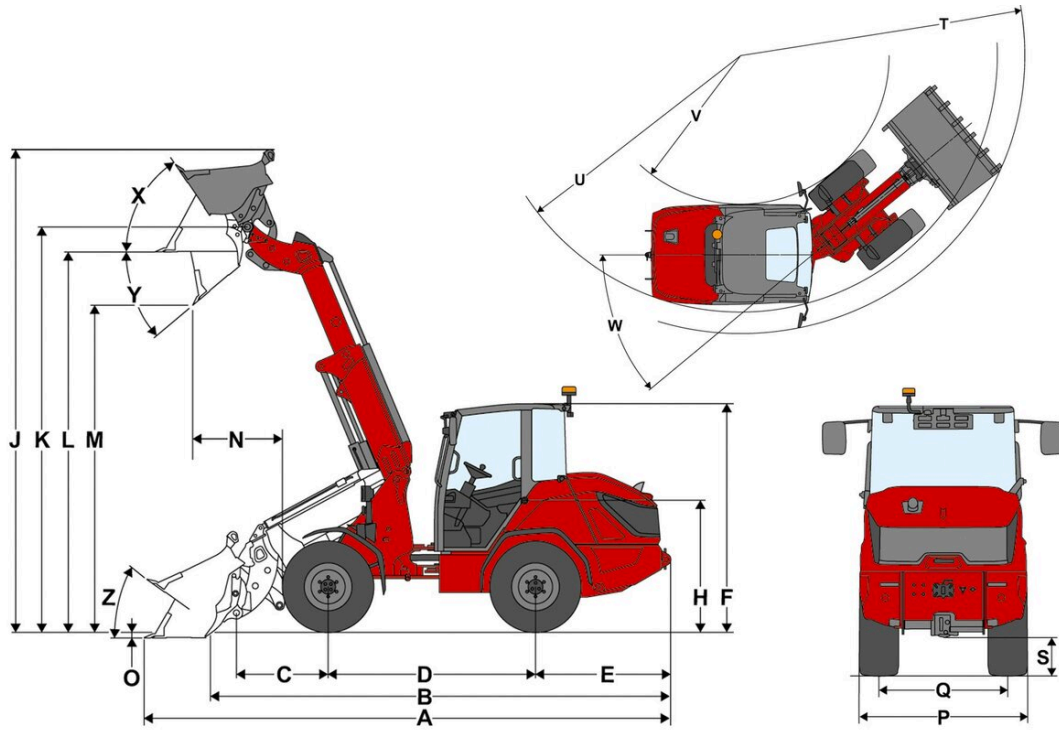
Average sound power level LwA (cabin)	99.5 dB(A)
Guaranteed sound power level LwA (cabin)	101 dB(A)
Specified sound pressure level LpA (cabin)	71 dB(A)

■ Standard engine data

Engine manufacturer	Rehiko
Motor type	KDI 2504 TCR
Cylinder	4

Drive output	55.4 kW
Drive output	75 PS
at max. rpm	2,300 U/min
Maximum torque	310 Nm
Cylinder capacity	2,482 cm ³
Type of coolant	Water
Exhaust standard level	V
Exhaust aftertreatment	DOC/DPF

Dimensions



A	Total length	6,030 mm
B	Total length without bucket	5,160 mm
C	Bucket pivot point (to center of axle)	1,210 mm
D	Wheel base	2,325 mm
E	Rear overhang	1,435 mm
F	Height with cab	2,545 mm
H	Seat height	1,520 mm
J	Total working height	5,875 mm
K	Bucket pivot point (max. lift height)	4,985 mm
L	Load-over height	4,695 mm
M	Dumping height	4,085 mm
N	Reach (at M)	960 mm
O	Digging depth	110 mm
P	Total width	1,800 mm
Q	Track width	1,440 mm
S	Ground clearance	335 mm
T	Maximum external radius	4,675 mm
U	Radius on the outer edge	4,235 mm
V	Inner radius	2,295 mm
W	Articulation angle	40 °
X	Rollback angle at max. lift height	56 °
Y	Dumping angle maximal	40 °
Z	Rollback angle on ground	39 °

Standard components

Engine

- Rehlko KDI 2504 TCR, 55,4 kW / 75 PS (DOC/DPF), EU: Stage V

Steering system

- Hydraulic articulated pendulum steering
- Steering cylinder: 1

Operator's cab

- 1-door cabin, incl. heating and ventilation
- Generous amount of space in all driver's cabs
- Rearview mirrors (left and right)
- Ergonomically designed spacious entry
- 7-inch display incl. operation via Jog-Dial
- Adjustable steering column (tilt and height)
- Right armrest
- Heated rear windshield
- 1 socket: 3-pin 12V

Operator's seat

- Fabric seat, with mechanical suspension, safety belt, weight, backrest, and longitudinal adjustment

Lighting

- Lighting (halogen) compliant with StVZO road traffic regulations
- LED rear lights
- LED work lights, 2 front, 2 rear (1000 lm)

Drive system & Axles

- Axle: planetary axle PA1422
- Drive: Hydrostatic all-wheel drive, electronically controlled, ecDrive (Electronic Controlled Drive)
- Drive modes: Auto mode; ECO mode (reduction of engine speed when reaching the set speed)
- Differential lock: 100 %, electro-hydraulically controlled on the front and rear axles
- Speed: 20 km/h
- Speed stages: 2 | 10 km/h / 20 km/h
- Operating brake: Drum brake on front axle acting on rear axle via the driveshaft
- Parking brake: Drum brake - actuated using hand brake lever on the front axle, acting on the rear axle via the driveshaft

Tires

- 365 / 70 R 18 BKT Multimax MP 513 ET-10

Loading system

- Telescopic - loader unit LS999
- Hydraulic quickhitch facility (Weidemann HV / HT - C) hydraulic
- Kinematics: Z
- Lift cylinder: 1
- Tipping cylinder: 1
- Float position for lift cylinder

Hydraulics

- Electrically pilot-operated joystick with direction switch and integrated button for differential lock and proportional telescopic function
- 3rd front control circuit, electrically proportional (flow-sharing) via joystick, incl. continuous function
- Oil flow adjustment 3rd control circuit via Jog-Dial on the display
- Pressure release, 3rd front control circuit on the loader unit
- Joystick curve adjustment (loader unit sensitivity adjustable in 3 stages) via Jog-Dial on the display
- Hydraulic oil cooler

Other

- Exterior battery cut-off switch - mechanically isolating
- Fuel filler neck, right side in direction of travel

EquipCare (telematics)

- EquipCare 36 months

Options

Operator's cab & Cabine

- Two-piece cab door
- Wide-angle rearview mirrors (left and right)
- Wide-angle rearview mirrors (left and right) electrically adjustable + heated
- Fabric seat; air suspension; MSG297A/722
- Fabric seat; air suspension; seat heating; seat ventilation MSG297A/722 Premium
- Armrest, right and left
- Headrest - operator's seat
- Air-conditioning system
- DAB+ radio-ready (aerial, speaker)
- Complete DAB+ radio
- 2 sockets: 2x USB / 3-pin
- Interior panoramic mirror
- Sunblind

Lighting

- LED lighting compliant with StVZO road traffic regulations
- LED Performance work lights (2000 lm) on roof, 2 front, 2 rear, on the telescopic arm, 2 front
- Active work lighting
- LED rotating beacon (orange), National regulations must be observed!

Approval & Road traffic

- Individual operating permit < 25 km/h
- Individual operating permit > 25 km/h
- Front and rear license plate bracket
- Triangular warning sign

Drive system & Axles

- Hand throttle
- Pre-heating: Coolant, hydraulic oil; 115 V, plug type B
- Pre-heating: Coolant, hydraulic oil; 230 V, plug type E/F
- Pre-heating: Coolant, hydraulic oil; 230 V, plug type J (country: CH)

Drive mode

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

Driving speed

- 30 km/h
- 40 km/h Power Drive
- Proportional speed limiter (slow speed device)
- Thrust force limitation

Braking system

- Electro-hydraulic multi-disc brake, spring-applied on the front axle, acting on rear axle via the driveshaft, incl. hill-hold function

Tires

- 405 / 70 R 20 BKT Multimax MP 513 ET30, tread AS, width 1767 mm, height 2599 mm, 20/30/40 km/h
- 400 / 70 R 20 Trelleborg TH400 ET0, tread AS, width 1844 mm, height 2593 mm, 20/30/40 km/h
- 550 / 45 - 22.5 Alliance 331 ET-50, tread AS, width 2070 mm, height 2596 mm, 20/30/40 km/h
- 400 / 70 R 18 Alliance 585 ET0, tread EM, width 1824 mm, height 2569 mm, 20/30 km/h
- 445 / 70 R 19.5 Alliance 624 ET0, tread EM, width 1865 mm, height 2613 mm, 20/30/40 km/h
- 440 / 50 R 17 BKT TracSuper ET0, tread RP, width 1861 mm, height 2496 mm, 20 km/h

Loading system

- Load arm damping
- Loader unit assistance package (automatic bucket retraction, lift height limit, shake function, Tilt-in-Assist)
- Tipping cylinder lock and lowering throttle (working platform)

Quick-change plates

- Euro (hydraulic - ISO23206 EURO HV) (incl. 2x SVK size 3)
- SMS HV (hydraulic)
- Matbro (hydraulic)

Hydraulics

- Shell Panolin S4 HLP Synth46 (biodegradable hydraulic oil)

Hydraulics in front

- Front switch valve on 3rd control circuit (3rd control circuit with 4 couplings)
- Load Sensing - high-performance hydraulics 45 ccm (101 l/min)
- High Flow - high-performance hydraulics, single-acting (101 l/min)
- Unpressurized return line, front (1x Flatface size 3, plug) incl. overflow oil line (1x Flatface size 2, plug)
- Front quick coupling on 4th control circuit (Flatface size 2)
- Front quick coupling on 3rd control circuit (SVK size 3)
- Front quick coupling on 4th control circuit (SVK size 3)

Hydraulics in rear

- Rear hydro connection double-acting (2x SVK size 3), operation: via switch (0 - 1) + 3rd control circuit
- Rear hydro connection double-acting via switch valve (2x SVK size 3), operation: via switch (0 - 1) + 3rd control circuit
- Rear hydro connection double-acting (2x SVK size 3) + double-acting via switch valve (2x SVK size 3)
- Unpressurized return line, rear (1x SVK size 3, plug) incl. overflow oil line (1x Flatface size 2, plug)

Electrical connections in rear

- Rear 3-pin socket, operation: via switch; 1st function latching, 2nd function latching

Electrical system

Battery cut-off switch

- Driver's cab battery cut-off switch - relay isolating
- 2-circuit battery cut-off switch (isolation of the onboard electrical system and alternator from the battery via 2 switching paths)

Safety options

- Reverse alarm (acoustic)
- Rear area monitoring
- Seat belt monitoring
- Rearview camera
- Immobilizer via ignition key, operation: via coded ignition key

Custom-made paint finish

- Special single-color RAL paint - instead of Weidemann red
- Special multicolor RAL paint

Other

- Toolbox incl. tool kit
- Combination bag (warning triangle / first aid kit)
- Fully automatic central lubrication system

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

- Trailer hitch 38 mm, automatic
- Towing hitch (not approved for trailer use!)