

3090

Wheel loaders

Technical data

Electrical system

Operating voltage	12 V
Battery	100 Ah
Alternator	120 A

Weights

Operating weight	5,320 - 5,940 kg
Thrusting force (max.)	5,000 - 5,200 daN
Thrust force (max.)	8,135 daN
Lift capacity (max.)	5,515 daN
Tipping load with bucket – machine straight, loading frame horizontal	3,380 - 4,370 kg
Tipping load with bucket – machine pivoted, loading frame horizontal	2,920 - 3,760 kg
Tipping load with bucket - machine straight, loading frame in lowest position	5,010 - 6,660 kg
Tipping load with bucket - machine pivoted, loading frame in lowest position	4,360 - 5,750 kg
Tipping load with pallet fork – machine straight, loading frame horizontal	2,850 - 3,600 kg
Tipping load with pallet fork – machine pivoted, loading frame horizontal	2,480 - 3,110 kg
Tipping load with pallet fork - machine straight, transport position	3,430 - 4,430 kg
Tipping load with pallet fork - machine pivoted, transport position	2,990 - 3,840 kg

Driver's cab

Driver's cab	Cab

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	Z
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	Rehlko

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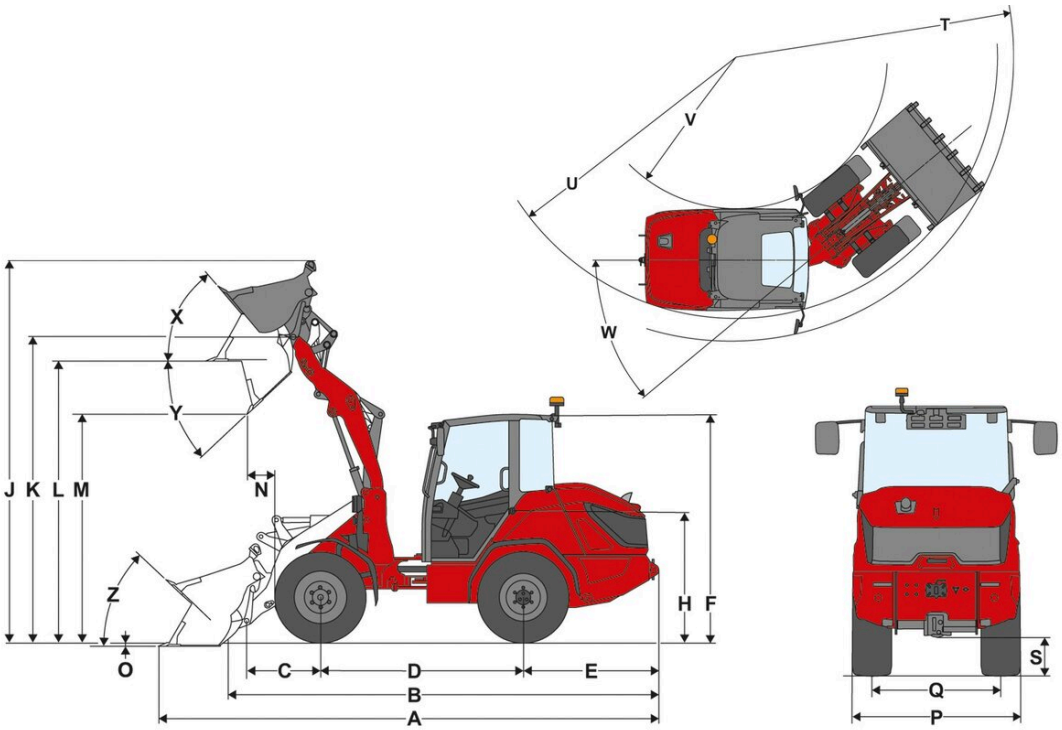
Motor type	KDI 2504 TCR
Cylinder	4
Drive output	55.4 kW
Drive output	75 PS
at max. rpm	2,300 U/min

Maximum torque	310 Nm
Cylinder capacity	2,482 cm^3
Type of coolant	Water
Exhaust standard level	V
Exhaust aftertreatment	DOC/DPF

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Dimensions



A	Total length	5,590 mm
B	Total length without bucket	4,880 mm
C	Bucket pivot point (to center of axle)	1,120 mm
D	Wheel base	2,150 mm
E	Rear overhang	1,435 mm
F	Height with cab	2,545 mm
H	Seat height	1,520 mm
J	Total working height	4,215 mm
K	Bucket pivot point (max. lift height)	3,395 mm
L	Load-over height	3,140 mm
M	Dumping height	2,590 mm
N	Reach (at M)	820 mm
O	Digging depth	145 mm
P	Total width	1,800 mm
Q	Track width	1,440 mm
S	Ground clearance	335 mm
T	Maximum external radius	4,385 mm
U	Radius on the outer edge	3,975 mm
V	Inner radius	2,085 mm
W	Articulation angle	40 °
X	Rollback angle at max. lift height	65 °
Y	Dumping angle maximal	45 °
Z	Rollback angle on ground	45 °

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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

- Loader unit LS960
- Z-HV quickhitch facility (hydraulic)
- Kinematics: Z
- Lift cylinder: 1
- Tipping cylinder: 1
- Bucket status indicator
- Float position for lift cylinder

Hydraulics

- Electrically pilot-operated joystick with direction switch and integrated button for differential lock
- 3rd front control circuit, electrically proportional (flow-sharing) via joystick, incl. continuous function
- Oil flow adjustment 3rd control circuit via Jog-Dial through 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

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Options

Operator's cab & Cabine

- Two-piece cabin door
- Wide-angle rearview mirrors (left and right)
- Wide-angle rearview mirrors (left and right), power-adjustable and heated
- Seat fabric; air suspension; MSG297A/722
- Seat fabric; air suspension; heated seats; ventilated seats MSG297A/722 Premium
- Right and left armrests
- Headrest - Driver's seat
- Air conditioning
- DAB+ radio preparation (antenna, speakers)
- Full DAB+ Radio
- 2 outlets: 2xUSB / 3-pin
- Interior panoramic mirror
- Roman shade

Lighting

- LED lighting compliant with StVZO road traffic regulations
- LED Performance work lights (2000 lm) on roof, 2 front, 2 rear
- 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
- Preheating: Coolant, hydraulic oil; 115 V, Type B plug
- Preheating: Cooling water, hydraulic oil; 230 V, Type E/F plug
- Preheating: Coolant, hydraulic oil; 230 V, Type J plug (Country: (CH)

Driving mode

- Driving Mode: Auto / Eco / Attachments
- Driving modes: Auto / Eco / M-Drive

Travel speed

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

Braking system

- Electro-hydraulic multi-disc brake, Spring-loaded actuator in the front axle, acting on the rear axle via a driveshaft, including hill-hold function

Tires

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

Loading system

- Lowering brake valve (lift and tipping cylinder hose burst protection)
- Load arm damping
- Bucket level indicator
- Loader unit assistance package (automatic bucket retraction, lift height limit, shake function, Tilt-in-Assist)

Quick-change plates

- Weidemann HV/WL - L (hydraulic) (4080 / 5080)
- Euro (hydraulic - ISO23206 EURO HV) (incl. 2x SVK size 3)

Hydraulics

- Shell Panolin S4 HLP Synth46 (biohydraulic oil)

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Hydraulics in front

- 3rd + 4th flow-sharing control circuit, operation: via control wheel at front on joystick
- 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 (1 - 0 - 2)
- 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 front

- Front 13-pin socket, programmable function; E1 / E2; Lighting, Operation: Using the two buttons on the joystick

Electrical connections in rear

- 3-pin rear power outlet, Operation: Via switch; 1. Locking function, 2. Locking function
- 7-pin rear socket for lighting on rear-mounted equipment

Electrical system

Battery disconnect switch
- Battery disconnect switch in the driver's compartment - relay-operated
- Battery isolator with 2 circuits (Disconnects the vehicle electrical system and the alternator from the battery via 2 separate circuits)

Safety options

- Rear cross-traffic alert (audible)
- Rear Area Monitoring
- Seat belt monitoring
- Rearview camera
- Immobilizer ignition key, Operation: About coded ignition keys

Custom-made paint finish

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

Other

- Ballast weight base plate (200 kg)
- 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

- Towing device 38 mm, automatic
- Shunting coupling (Not approved for use with trailers!)

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