

2090

Wheel loaders

Technical data

Electrical system

Operating voltage	12 V
Battery	100 Ah
Alternator	120 A

Weights

Operating weight	3,970 - 4,390 kg
Thrusting force (max.)	3,050 - 3,500 daN
Thrust force (max.)	4,320 daN
Lift capacity (max.)	3,925 daN
Tipping load with bucket – machine straight, loading frame horizontal	3,230 - 3,710 kg
Tipping load with bucket – machine pivoted, loading frame horizontal	2,820 - 3,260 kg
Tipping load with bucket - machine straight, loading frame in lowest position	4,890 - 5,620 kg
Tipping load with bucket - machine pivoted, loading frame in lowest position	4,300 - 4,920 kg
Tipping load with pallet fork – machine straight, loading frame horizontal	2,660 - 3,060 kg
Tipping load with pallet fork – machine pivoted, loading frame horizontal	2,330 - 2,690 kg
Tipping load with pallet fork - machine straight, transport position	3,180 - 3,660 kg
Tipping load with pallet fork - machine pivoted, transport position	2,810 - 3,210 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 1200
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.)	85 l/min
Work hydraulics working pressure (max.)	235 bar

Kinematics

Kinematics type	PZ
Lifting cylinder	2
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)	99.4 dB(A)
Guaranteed sound power level LwA (cabin)	101 dB(A)
Specified sound pressure level LpA (cabin)	70 dB(A)

Standard engine data

Engine manufacturer	Rehlko

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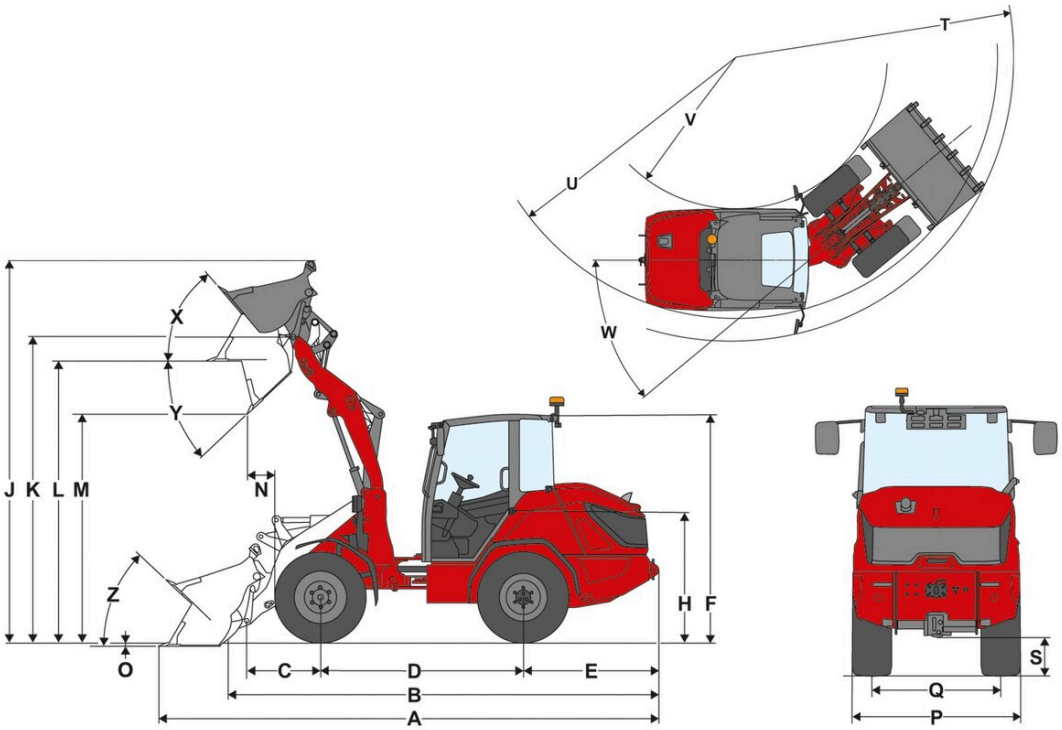
Motor type	KDI 1903 TCR
Cylinder	3
Drive output	50 kW
Drive output	68 PS
at max. rpm	2,600 U/min

Maximum torque	250 Nm
Cylinder capacity	1,861 cm^3
Type of coolant	Coolant/water
Exhaust standard level	V
Exhaust aftertreatment	DOC/DPF

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Dimensions



A	Total length	5,295 mm
B	Total length without bucket	4,480 mm
C	Bucket pivot point (to center of axle)	785 mm
D	Wheel base	2,150 mm
E	Rear overhang	1,435 mm
F	Height with cab	2,485 mm
H	Seat height	1,460 mm
J	Total working height	4,065 mm
K	Bucket pivot point (max. lift height)	3,240 mm
L	Load-over height	2,980 mm
M	Dumping height	2,415 mm
N	Reach (at M)	290 mm
O	Digging depth	35 mm
P	Total width	1,520 mm
Q	Track width	1,160 mm
S	Ground clearance	345 mm
T	Maximum external radius	4,125 mm
U	Radius on the outer edge	3,850 mm
V	Inner radius	2,225 mm
W	Articulation angle	40 °
X	Rollback angle at max. lift height	50 °
Y	Dumping angle maximal	44 °
Z	Rollback angle on ground	43 °

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Standard components

Engine

- Rehlko KDI 1903 TCR, 50 kW / 68 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 PA1200
- 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
- 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 ET20

Loading system

- Loader unit LS937
- Hydraulic quickhitch facility (Weidemann HV / HT - C) hydraulic
- Kinematics: PZ
- Lift cylinder: 2
- 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 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

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Options

Operator's cab & Cabine

- Two-piece cab door
- 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
- 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; National regulations must be observed!

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

- 400 / 70 R 18 Trelleborg TH400 ET0, tread AS, width 1603 mm, height 2506 mm, 20/30/40 km/h
- 425 / 55 R 17 Alliance 570 ET-15, tread AS, width 1655 mm, height 2445 mm, 20/30 km/h
- 440 / 50 R 17 BKT TracSuper ET-15, tread RP, width 1671 mm, height 2436 mm, 20/30 km/h
- 340 / 80 R 18 Alliance 585 ET15, tread MPT, width 1515 mm, height 2501 mm, 20/30/40 km/h
- 405 / 70 R 18 Alliance 608 ET0, tread MPT, width 1608 mm, height 2513 mm, 20/30/40 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/HT - C - ECS (hydraulic - easy coupler system)
- Euro (hydraulic - ISO23206 EURO HV) (incl. 2x SVK size 3)

Hydraulics

- Shell Panolin S4 HLP Synth46 (biodegradable hydraulic oil)

Hydraulics in front

- 3rd + 4th flow-sharing control circuit, operation: via control wheel on the joystick
- 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)

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Hydraulics in rear

- Rear hydro connection double-acting (2x SVK size 3), operation: via switch (0 - 1)
- 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 2 keys on the joystick

Electrical connections in rear

- Rear 3-pin socket, operation: via switch; 1st function latching, 2nd function latching
- Rear 7-pin socket for lighting rear attachments

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

- 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

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

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