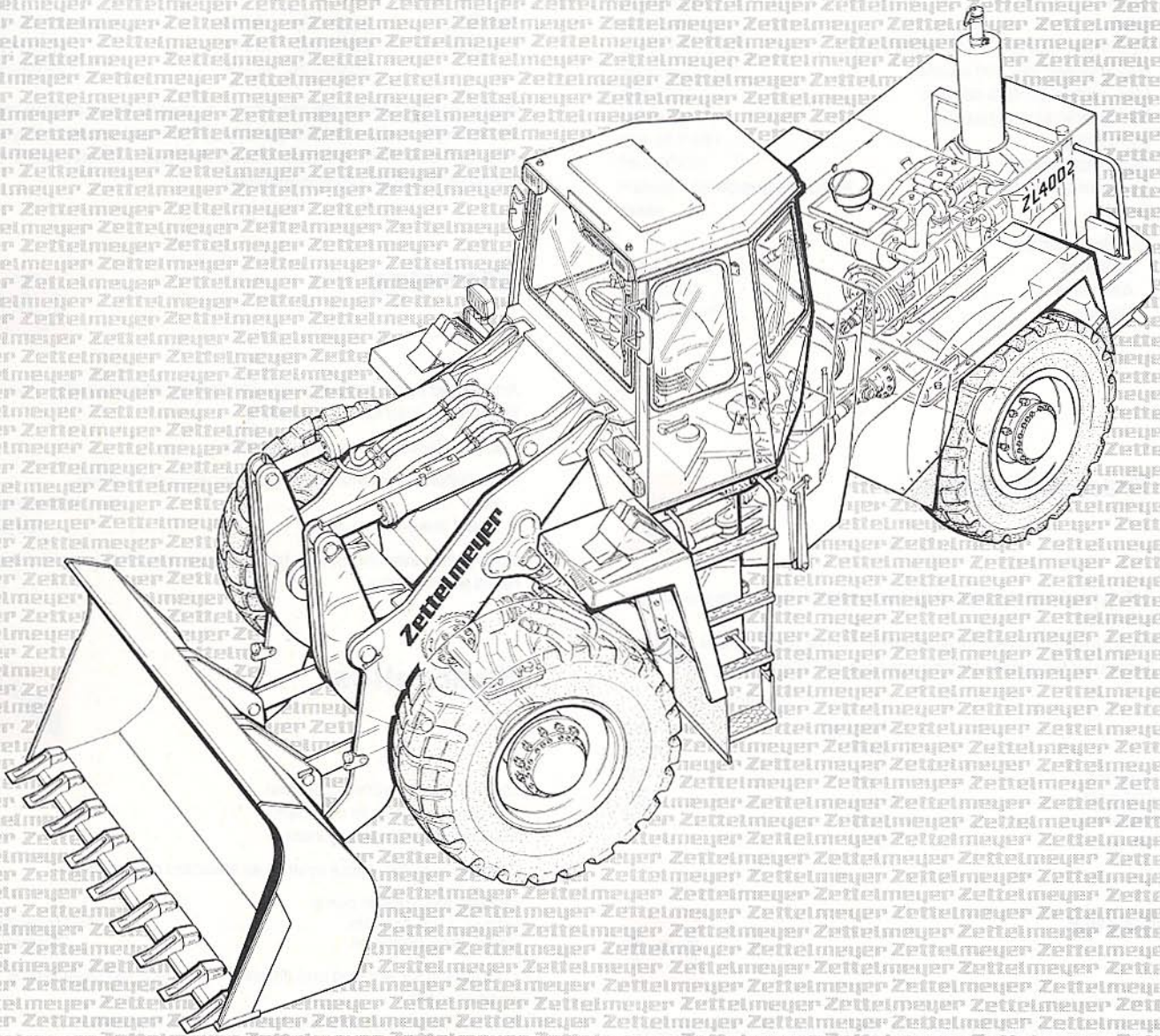


Zettelmeyer

made in W-Germany

ZL 4002

Wheel Loader – Technical Data



Basic Specifications

Operating Weights	21150 - 21900 kg
Gross Power	187 kW/240 hp
Maximum Speed	38.0 km/h
Tyres	26.5 - 25 PR
Bucket Capacities	3.0 - 6.0 m ³
Bucket Width	3000 mm

Wheel Loader ZL 4002

Engine



Make	Cummins
Type	LT 10-C 250
Net Power @ 2100 rev/min DIN 70020	176/240 kW/hp
Gross Power @ 2100 rev/min	187/250kW/hp
Max. torque @ 1300 rev/min	1008 Nm
No. cylinders/configuration	6/in-line
Bore/stroke	125/136 mm
Total displacement	10200 cm ³
Combustion system	turbocharged/direct injection
Cooling	water

Electrical system:

Batteries	2 x 12/143 V/Ah
Alternator	28/65 V/A
Starter	24/7,5 V/kW

Transmission



Full powershift countershaft transmission with integral torque converter.

Four speeds forward three reverse. Single lever control. Softshift feature for full-power direction change in 1st and 2nd gear.

	Speed	
	Forward km/h	Reverse km/h
1st gear	6.0	6.0
2nd gear	12.0	12.0
3rd gear	23.0	23.0
4th gear	38.0	—

Axles



Spiral bevel pinion and ring gear differentials. All wheel drive by two rigid axles. Oscillating rear axle with central greasing point. Limited slip differentials with outboard mounted planetary final drives in both axles.

Ground clearance	490 mm
Track	2215 mm
Oscillation at wheel, max.	425 mm
Angle of oscillation	± 12°

Brakes



1. Service brake: hydraulically actuated oil immersed multi-disc brakes hub mounted on all four wheels. Dual circuit for front and rear axles. Automatic transmission declutch with brake pedal depression.
2. Parking brake: spring-applied oil released disc brake mounted at the transmission output shaft acting upon all four wheels.

Tyres



		Rim
Standard:	26.5-25 16 PR	22.00-25
Optional:	23.5-25 16 PR	19.50-25
	30/65-25 16 PR	22.00-25

NOTE: Under certain job conditions, a specific tread pattern may be required or, the t-km/h capability of standard or optional tyres may be exceeded. We recommend that tyre manufacturers be consulted for optimum tyre selection.

Steering



Articulated frame steering with 40° steering angle to both sides. Hydrostatic load-sensing steering.

Two double-acting steering cylinders.

Axial piston pump with pressure-compensation control

Flow	0-149 litres/min
Relief valve pressure	150 bar

Emergency steering pump: transmission mounted ground driven radial piston pump.

Hydraulics



Load-sensing-hydraulic system.

Two double-acting tilt cylinders.

Two double-acting lift cylinders.

Control valve-two spool system as standard equipment.

Tandem axial piston pump

Flow @ 2100 rev/min.	2 x 149 litres/min
Relief valve pressure	230 bar

Common tank for working and steering hydraulics safeguarded by a breather valve.

Filters can be changed without having to drain the tank.

Automatic bucket leveller

Lift time (loaded)	6.5 sec.
Lowering time (empty)	4.6 sec.
Dump time	1.7 sec.
Crowd time	1.3 sec.
Gear pump for servo control and brake	
Flow @ 2100 rev/min	33,6 sec.

Service Refill Capacities



Fuel tank	360.0 litres
Engine with filter	26.5 litres
Hydraulic system incl. tank	230.0 litres
Front axle	42.0 litres
Rear axle	31.0 litres
Transmission	28.0 litres

Operating Data



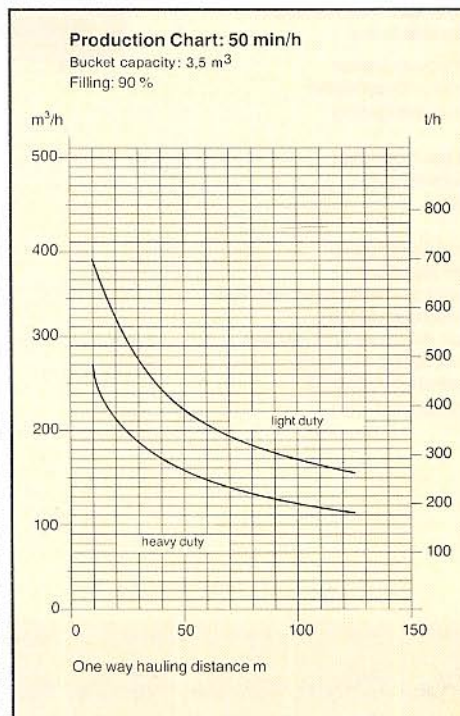
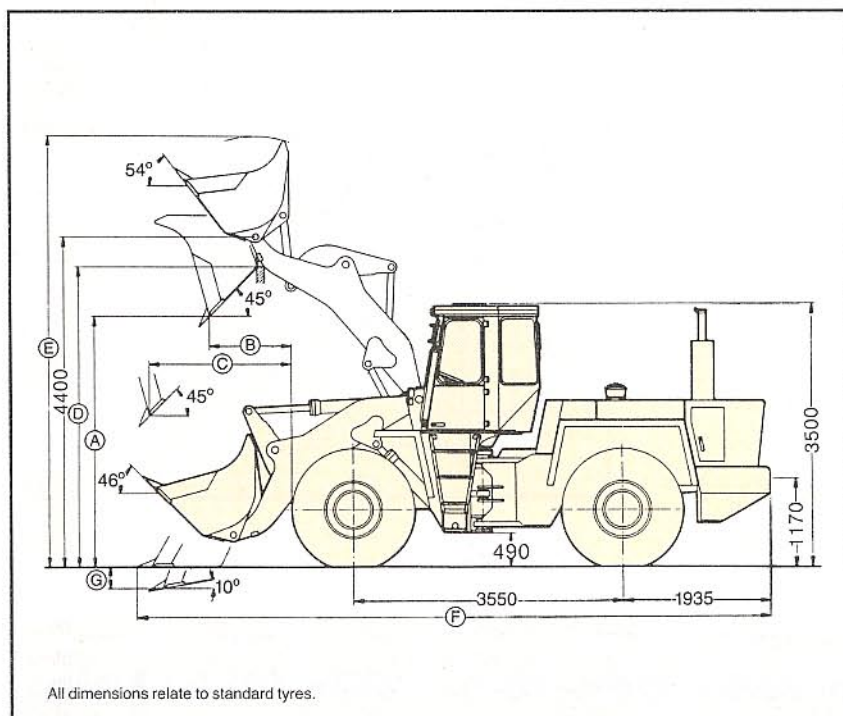
Buckets Dimensions and weights with standards tyres. and 900 kg standard counterweight	Bucket	Rock Bucket Spade Nose	Bucket	Bucket	Bucket	Bucket	Bucket	
Capacity, heaped	m ³	3,1	3,5	3,5	3,9	4,6	5,0	6,0
Capacity, struck	m ³	2,6	3,0	3,0	3,5	3,9	4,5	5,2
Bucket weight with teeth	kg	1700	2450	1850	2000	2100	2200	2300
Bucket teeth		9	8	9	9	9	9	9
Static tipping load, straight	kg	17700	16600	17200	17000	16700	16500	16000
Static tipping load at 40°	kg	15500	14600	15100	14900	14700	14500	14100
Breakout force	daN	25500	19000	22500	21000	18500	16300	15000
Hydraulic lifting capacity	daN	20800	19000	20000	19500	18800	18500	18000
Operating weight	kg	21150	21900	21300	21450	21550	21650	21750

Dimensions



Ⓐ Dump height	mm	3380	3120	3270	3190	3110	3030	2870
Ⓑ Reach at max. height	mm	960	1200	1060	1070	1220	1290	1460
Ⓒ Reach max.	mm	1860	2100	1960	1970	2120	2190	2360
Ⓓ Load over height	mm	4020	4020	4020	4000	4020	4020	4020
Ⓔ Lift height max.	mm	5740	6030	5740	5930	5980	6100	6200
Ⓕ Total length	mm	8210	8640	8360	8450	8590	8690	8920
Ⓖ Digging depth at 10°	mm	230	290	250	310	300	310	350
Turning radius, outside bucket	mm	6870	6960	6910	6930	6980	7050	7100
Bucket width	mm	3000	3000	3000	3000	3000	3000	3000

Operating data in accordance with SAE standards. All technical data relate to the standard version. For selection of buckets size diagram overleaf.



Standard Equipment

Comfort ROPS + FOPS Cab

Detachable cab, with flexible mountings, located on the front frame for better sound and thermal insulation whilst providing excellent all-round visibility on the job.

Insulation and acoustic lining
Lockable doors

4-way adjustable driver's seat
Passenger's seat
Seat belts

Steering wheel spinner knob
Neutral start switch

Gauges:

Fuel gauge
Hour meter
Speedometer
Transmission temp. gauge
Transmission shift press. gauge
Hydraulic pressure gauge
Engine temperature gauge
Engine oil pressure gauge

Indicator lamps for:

Direction indicator
Main beam
Battery charging
Transmission declutch

Warning lights for:

Air filter restriction
Hydraulic filter restriction
Parking brake
Service brake
Emergency steering pump
Cooling water

Central audible alarm for:

Engine temperature
Engine oil pressure
Air filter restriction
Hydraulic filter restriction
Service brake

24 V power socket
Heater with defroster
Instrument lighting

Tool box (lockable)
Interior lighting
Radio

Tinted safety glass (windscreen)

Windscreen wiper front and rear
Windscreen washer
Hinge out upper door section with sliding windows
Hinge-out out skylight
Pressurized cab

General

Diesel engine with direct injection and turbocharging

Alternator 65A
Dry-type air filter
Cold start aid

Transmission declutch
Single lever control
Automatic bucket leveller
Front working floodlights

Fenders and service platforms
Hoodsides
Lockable engine hood
Vertical exhaust
Towing device

External rear view mirrors
Security kit
Reversing lights
Counterweight

Complete system in accordance with German Road Traffic Regulation

Sound insulation in accordance with stringent German Code U.V.V.-VBG 121

Safety equipment in accordance with stringent German Code U.V.V.-VBG 40

Certified for safe working by German Excavation Trade Association



Optional Equipment

Exhaust ejector

Air conditioning
Heating independent of engine

Auxiliary hydraulics, front
Extended lift arms
ZLS suspension of frame
Lifting eyes

»QC« Quick-change attachment carrier, mechanical /hydraulic

Attachments:

Loading fork

Tree transplanting bucket
Log grapple

Wide range of bucket sizes and types with or without teeth
Silo bucket
Extra-wide bucket
Brick bucket
4 in 1 bucket
High-tip bucket
Side-tip bucket
Bolt-on cutting edge

Snow plow
Snow blower
Front winch

Hydraulic breaker

