Zettelmeyer made in W-Germany

Wheel Loader



Progress is our Tradition

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Wheel Loader ZL 4001



Engine

Make	Deutz/diesel, 4 cycle
Type	F 10L 413F
Gross Power @ 2200 rev/min	222/302 kW/hp
Net Power @ 2200 rev/min Din	
Max. torque @ 1400 rev/min	1015 Nm
No. cylinders/configuration	
Bore/stroke	125/130 mm
Total displacement	
Combustion system	
Cooling	
Electrical system:	
Batteries	2x12/143 V/Ah
Alternator	
Starter	



Transmission

Full powershift planetary-type transmission with integral torque converter.

Four speeds forward/reverse. Soft-shift feature for full-power direction change in 1st and 2nd gear.

															5	Pθ	e	a			
													Forward							R	everse
													km/h								km/h
1st gear	ř.	٠		×				ž,	•			¥.	5.5	٠		٠	٠				5.5
2nd gear														*							11.5
3rd gear	Ų					٠		÷		्र	2	ě	25.0								
4th gear	*	٠	e Oğ		10	٠		•	•	Œ.	٠	*3	40.0	*				٠	•	•	40.0



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 hub mounted planetary final drives in both axles.

Ground clearance					7							. 5	30 mm
Track													
Oscillation at wheel,	n	na	x.		٠						٠	. 4	150 mm
Angle of oscillation													



Brakes

- Service brake: air over hydraulic actuated oil immersed multidisc brakes hub mounted on all four wheels. Dual circuit for front and rear axles.
- Parking brake: spring applied air released disc brake mounted at the transmission output shaft acting upon all four wheels.



Tyres

		HII	n
Standard:	26.5-25	20 PR (L-2) 22.00-2	5
Optional:		20 PR (L-2) (L-3) (L-4) (L-5) . 19.50-2	
	26.5-25	20 PR (L-3) (L-4) (L-5) 22.00-2	5

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. Semi integral power steering.

Two double-acting steering cylinders.

Axial- piston pump with constant flow rate and pressure-compensation control.

Variable flow control				2	1			٠	1	1	00) I	tres/min
Relief valve pressure		٠		•									170 bar

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



Hydraulics

Two double-acting tilt cylinders. Two double-acting lift cylinders.

Control valve - two spool system as standard equipment.

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

Filters can be changed without having to drain the tank.

Automatic bud	k	et	le	ve	lle	er											
Lift time						o e						٠		*	٠	٠	6.8 sec
Lowering time																	
Dump time .																	
Crowd time .						773		1000									1.3 sec



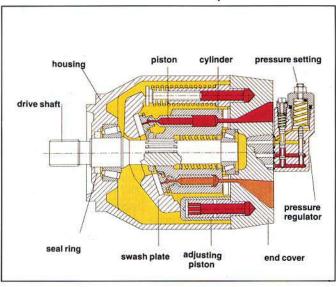
Service Refill Capacities

Fuel tank	Ţ,			Ţ		V.		ï	4		٠		٠	÷				420.0 litres
Engine .	(i)	*	014	360			::::		·	*		200	*	•		*	**	. 28.0 litres
																		460.0 litres
Front axle			•		•		::::::::::::::::::::::::::::::::::::::		S.	200 240		200		•	•			. 42.0 litres
																		. 42.0 litres
Transmiss	io	n					50. 51.			8						4	0.	0 + 7.0 litres

Series B

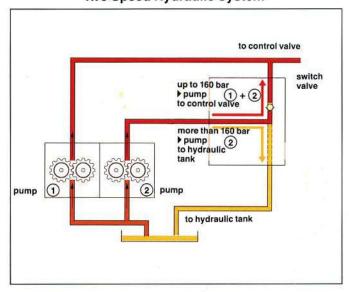
Maximum Economy with Optimum Power Utilization

Axial Piston Pump



- high economy due to reduced operating costs (fuel savings, less oil circulating)
- simplified installation due to elimination of pressure limiting and flow control valve
- variable flow provides power on demand
- reduction in oil temperature
- increase in overall efficiency of machine

Two Speed Hydraulic System



- two pumps/combined flow for fast loading
- automatic single pump for hard digging
- maximum power with good fuel economy
- manual switching to single pump for precise levelling

Well Proven Design Provides Reliability, High Performance and Economical Operation

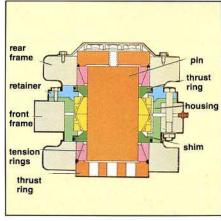
Zettelmeyer-Z-bar linkage enables high breakout force to be achieved in hard digging conditions, and fast bucket dumping action.

Articulated frame steering; widely spaced pivot points incorporate large castings enclosing the heavy duty pivot bearings, which are adjustable and need minimum maintenance during their long service life even in tough operating conditions.

Heavy-duty axles designed for construction equipment applications, planetary reduction gears and standard limited slip differentials.

Fully enclosed oil immersed multidisc brakes mounted at the hub on all four wheels give long life and are maintenance free.







Easy Access for Maintenance Reduces Service-Time and Costs



Well matched high quality components ensure long life and minimum downtime.

A comprehensive distributor network provides worldwide parts and service support.

Ergonomically Designed Safety Cab for Optimum Driver Comfort



Large walk-through two man ROPS cab is front mounted and provides excellent visibility.

Low effort servo loader controls allow fatiguefree operation and clearly arranged instrumentation enables vital functions to be easily monitored.

Safe and convenient access from both sides.



Optimally adjustable driver's seat.



Flexibly mounted cab.



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Series B



Operating Data

Buckets Dimensions and weights with standard tyres and 1300 kg standard counterweight.		Bucket	Rock Bucket Spade Nose	Bucket	Rock Bucket Straight Edge	Bucket	Bucket
Material density max.	t/m³	2.1	2.0	1.8	1.7	1.5	1.0
Capacity, heaped	m ³	3.5	3.5	4.0	4.0	4.5	6.0
Capacity, struck	m ³	3.0	3.0	3.5	3.5	3.9	5.2
Bucket weight with teeth	kg	1750	2450	2000	2600	2100	2300
Bucket teeth		9	8	9	8	9	9
Static tipping load, straight	kg	19600	18900	19400	18700	19000	18300
Static tipping load at 40°	kg	17300	16700	17100	16500	16800	16100
Breakout force	daN	20300	16800	19000	18600	17000	13500
Hydraulic lifting capacity	daN	19600	19000	19500	18900	19000	18000
Operating weight	kg	23550	24250	23800	24400	23900	24100

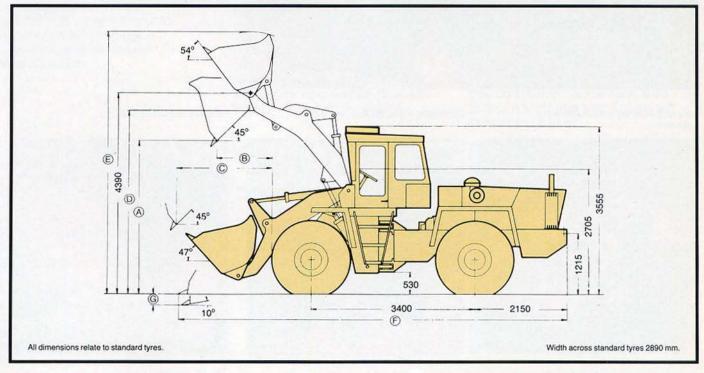


Dimensions

Adjustments for Tyres	Tipping Load at 40° kg	Operating Weight kg	Vertical Dimensions mm
26.5-25 (L3)	+ 50	+ 100	± 0
26.5-25 (L 4)	+ 350	+ 700	+ 25
26.5-25 (L 5)	+ 650	+ 1200	+ 25

A Dump height	mm	3260	3070	3180	3160	3090	2860
B Reach at max. height	mm	1065	1180	1070	1100	1230	1460
Reach max.	mm	1955	2070	1960	1990	2120	2350
D Load over height	mm	4000	3980	3980	3980	4000	4000
E Lift height max.	mm	5700	6020	5850	6020	5960	6190
Total length	mm	8520	8800	8600	8650	8750	9070
G Digging depth at 10°	mm	255	340	315	320	290	350
Turning radius, outside bucket	mm	6880	6870	6900	6900	6970	7070
Bucket width	mm	3000	3100	3000	3100	3000	3000

Operating data in accordance with SAE standards. All technical data relate to the standard version. Machine illustrations may show optional features.





Standard Equipment

Comfort-ROPS cab

Detachable
walk-through cab
with flexible mountings
located on the front frame
for better sound and
thermal insulation whilst
providing excellent allround 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 (km/h)
Transmission temp. gauge
Transmission shift press.
gauge
Hydraulic-pressure gauge
Dual air pressure gauge
Engine temperature gauge
Engine oil pressure gauge

Indicator lamps for:
Direction indicator
Main beam
Battery charging
Hydraulic pump (2nd speed)

Warning lights for:
Air filter restriction
Hydraulic filter restriction
Parking brake
Brake fluid
Emergency steering pump

24 V power socket Heater with defroster Instrument lighting

Storage compartment in the cab Tool box Interior lighting Radio

Tinted safety glass (windscreen) Windscreen wiper front and rear Windscreen washer Sliding windows in the doors Hinge-out cab roof hatch

General

Automatic drainage of air system Alcohol evaporator Tyre inflation kit Alternator 55 A Dry-type air filter with safety cartridge Cold start aid

Transmission declutch Automatic bucket leveller Front working floodlights

Fenders and service platforms Hoodsides Lockable fuel-tank cab Vertical exhaust Towing device

External rear view mirrors Safety kit Counterweight Reversing lights



Optional Equipment

Dual air filtration

Dashboard cover Air conditioning

Single lever control Auxiliary hydraulics, front Extended lift arms

Lifting eyes FOPS guard FOPS plate Wide range of bucket sizes and types with or without teeth Silo bucket

Silo bucket
Extra-wide bucket
Brick bucket
4 in 1 bucket
High-tip bucket
Bolt-on cutting edge

»QC« Quick change attachment carrier, mechanical or hydraulic

Attachments: Loading fork

Hook and tackle

Tree transplanting bucket Log grapple Snow plow Snow blower Front winch

Hydraulic breaker

