Zettelmeuer made in W.-Germany

Wheel Loader ZL 18 D

Standard Bucket capacity 0.9 m³



Germany's only wheel loader manufacturer with a complete performance range



Wheel Loader ZL 18 D



Engine

Make/system Deutz/Diesel 4-stroke
Type
Net power @ 2500 rev/min
Max. torque
at engine speed
No. cylinders/configuration
Displacement
Combustion system direct injection
Cooling Air
Electrical system
battery 12 V/143 Ah
battery 12 V/143 Ah alternator 14 V/33 A
starter 3kW/12V



Transmission

Hydrostatic transmission, gear selection for work/travel range. Inching pedal for continuously variable speed control.

Speeds (standard tyres)

	forward	reverse
	km/h	km/h
Work range	7.5	7.5
Travel range	20.0	20.0



Axles

All-wheel drive with 2 Hurth portal axles with hydraulically operated differential lock (100% effective) in both axles.

Ground clearance							•		 											520 mm
Track	 •		•				•													1556 mm
Max. wheel lift .				٠	٠							•			٠			٠	•	390 mm
Reduction ratios:																				
Gearbox		٠.						v:									٠			2.71:1
Axles													-							12.02:1
Total						v.												٠		32.6 :1



Brakes

- Service brake: Normal retardation is effected by the braking capacity of the hydrostatic motor acting on all four wheels.
- 2. Secondary brake: hydraulically actuated, multi wet disc brake in rear axle.
- 3. Parking brake: mechanical actuation of multi wet disc brake.



Tvres

												rim
Standard: 14.5 - 20			٧.									 11.00 x 20
Optional: 15.5 - 25 .			 									 12.00 x 25
16/70 — 20												 13.00 x 20
16.5/75 R 20												 13.00 x 20

NOTE: Under certain job conditions 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

Central articulating oscillating joint
$ \begin{array}{cccc} \text{Central articulation} & & \pm 40^{\circ} \\ \text{Oscillation} & & \pm 13^{\circ} \end{array} $
Hydraulic steering via 2 double-acting steering cylinders bore/stroke 60/300 mm
Pump: gear-type capacity at 2500 rpm
Relief valve pressure



Hydraulics

2 double-acting tilt cylinders bore/stroke	75/440 mm
2 double-acting lift cylinders bore/stroke	100/510 mm
capacity at 2500 rpm	
The common tank for the working hydraul hydraulics is pressurized (0.3 bar). Thermostat controlled oil circuit with integr Filters can be changed without having to d	ated cooling system.
Lifting time (loaded) Drop time (empty) Dump time Roll back time	1.0 sec.



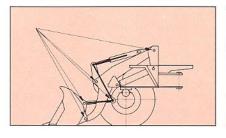
Service Data

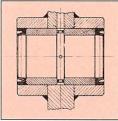
Fuel tank															×	,		٠		+		95 litr	е
Engine .													×								1	1.5 litr	е
Hydraulic																							
Front axle								,											+		1	3.7 litr	е
Rear axle		•								٠											1	1.0 litr	е
Brakes .										٠		٠										1.0 litr	е

Low-maintenance boom arm with Z-Bar linkage

- excellent dump height and reach
- highest breakout force
- fast bucket dump action
- good dump/roll back angles
- optimum bucket design
- very high bucket fill
- low-maintenance requirements due to sealed bearings

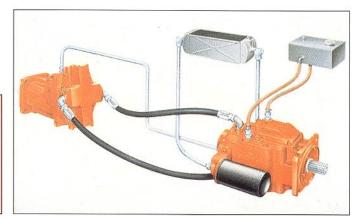
High quality seals protect the bearings from dirt.





Hydrostatic transmission

- maximum torque even at low engine speed
- low fuel consumption
- better efficiency on the job
- wear-free hydrostatic brakes
- infinitely variable speed control over full speed range
- forward-reverse direction change under full load

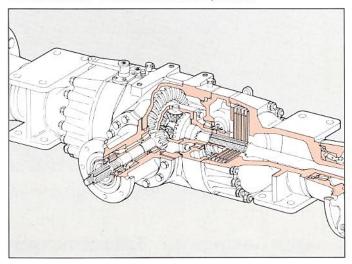


Engineered with a proven record of success for optimum performance and economy

Portal axles with 100% selectable differential lock

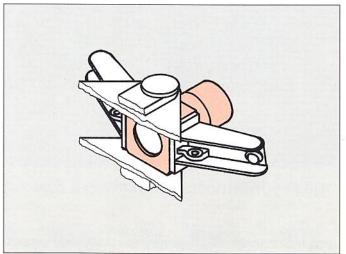
- 520 mm ground clearance
- optimum traction
- superb off-road capability
- integral multi disc brakes (rear axle only) supplement hydrostatic retardation
- Portal reduction for maximum power transmission

Rugged compact axle with multi-disc brakes running in oil bath for maintenance-free, minimum wear operation.



Hydrostatic articulated frame steering with combined oscillating-articulating joint

- Newly designed articulation-oscillation pin for minimum surface pressure including dirt protected bearings. The articulation-oscillation pin — as illustrated below — in drilled to take up the wire harness and all hoses of the hydraulic system.
- smooth and reliable steering, full tracking capacity
- 40° steering angle to both sides
- short turning radius, excellent manoeuverability
- rigid axle mounting for constantly balanced load distribution add to good stability

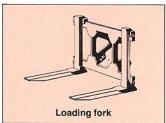


Front end quick-change system — fast and easy

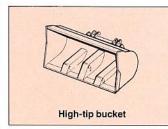


The new quick-change system allows all directly mounted attachments to be also used as quick-change attachments.

More than 40 variants for hydraulic or mechanical operation are available for use in practically every branch of industry all year







round.



Operators compartment and routine maintenance



- The operators compartment designed for minimum noise and vibration, reduces operator fatigue and adds to the efficiency of the operation.
- Conveniently located controls and gauges together with good all-round visiblity from the spacious ROPS cab add to the safety of the unit.
- Clear design and easy access to all components reduce maintenance and repair downtime.











Operating Data Rated payload with GP Bucket 1.7 tonne.

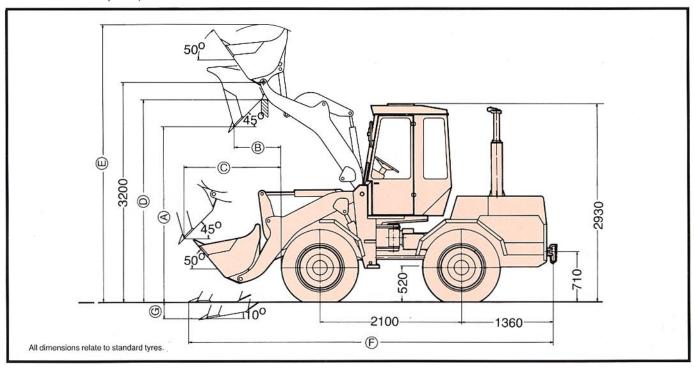
Buckets dimensions and weights with 14.5 – 20 tyres		High- density bucket	High- density bucket	GP bucket	Light Mat. bucket	Light Mat. bucket	Light Mat. bucket	Clam bucket 4 in 1)	High- tip bucket
Material density max.	t/m ³	2.4	2.0	1.8	1.5	1.2	0.7	1.8	0.9
Capacity, heaped	m ³	0.7	0.8	0.9	1.1	1.4	2.0	0.85	1.5
Capacity, struck	m ³	0.6	0.65	0.72	0.9	1.1	1.7	0.7	1.1
Bucket weight	kg	400	400	380	400	430	500	550	600
Bucket teeth		7	7	7	7	7	7	7	-
Tipping load, straight	kg	4 000	4000	4000	3950	3900	3750	3850	3600
Tipping load full turn	kg	3400	3400	3400	3 3 5 0	3 300	3 150	3 250	3000
Breakout force	daN	6000	6000	5 680	4930	4 100	3 3 0 0	4900	4000
Hydraulic lifting capacity	daN	4930	4930	4950	4860	4750	4 600	4760	4500
Operating weight	kg	5 730	5730	5710	5730	5760	5830	5880	5910



Dimensions

Dump height	mm	2580	2580	2545	2480	2370	2 230	2515	3 600
Reach at max. height	mm	740	740	780	840	950	1020	810	1030
Reach at 1.6 m height	mm	1440	1440	1480	1540	1650	1720	1510	2050
D Load over height	mm	2960	2960	2960	2960	2960	2940	2980	3650
E Lift height max.	mm	4000	4 040	4070	4 160	4 300	4420	4 180	4850
F Total length	mm	5 355	5 3 5 5	5400	5 500	5 650	5840	5 450	5 6 2 0
G Digging depth at 10°	mm	235	235	245	270	290	360	260	290
Turning radius, outside bucket	mm	4 260	4 260	4 285	4320	4 3 6 0	4 500	4300	4 400
Bucket width	mm	2050	2050	2050	2050	2050	2 250	2050	2050

Machine illustrations may show optional features.



Equipment

Comfort ROPS cab

The cab is mounted on the front frame for better noise and thermal insulation whilst presenting the driver with excellent all-round visibility on the job.

Easily accessible walk through

cab

Lockable doors Driver seat, 4-way adjustable Seat belts

Indicators:

Warning lamps Hour meter Engine temperature Engine oil pressure Battery charging

Transmission temperature Fuel

Air filter

Warning buzzer for: Engine temperature Engine oil pressure Transmission oil temperature Air filter

12 V power socket Noise insulation in accordance with German regulations Heating with defroster nozzle Tinted safety glass Windscreen wiper front and rear

Windscreen washer (front) Tool box

Cab skylight

Hinge-up side windows Storage compartment in door

General Dry type air cleaner Alternator (33 Amp.) Ether cold start Automatic bucket positioner Load holding valve Tow hook Lockable fuel tank cap Lockable engine hood Upswept exhaust Safety equipment in accordance with German Code U.V.V.-

VBG 40 Fully equipped to comply with German Road Traffic Regulations

Certified for safe working by German excavation trade association





Optional Equipment

Auger

Various bucket sizes with/without teeth Loading fork Attachment carrier mech. (for permanent mounting system) Sweeper Log clamp

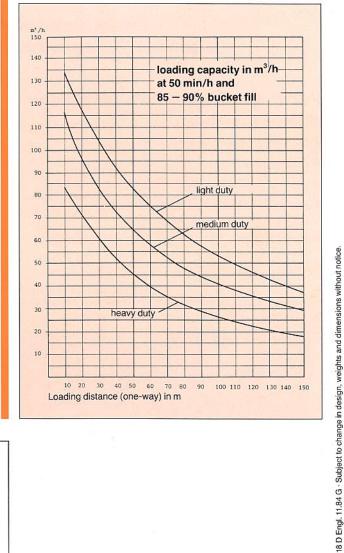
Front ripper tooth
Tree planting shovel Snow plow Hydraulic hammer

Barrel clamp
Tree transplanting bucket (hydr.) Front winch

Clamp fork

Optional hydraulics front Backhoe preparations

Double filter Single lever control Air-conditioning system Security kit FOPS grille Stacker protektive grille Roll over protection bar FOPS plate Extended boom arm Backhoe Underscrew blade ROPS sun roof Silo bucket High tip bucket Clamp bucket (4 in 1) Rock bucket Side dump bucket PTO



THP ZL 1