

# Zettelmeyer

made in W-Germany

# ZL 801

## Wheel Loader



Progress is our Tradition



# Wheel Loader ZL 801



## Engine

Make	Deutz/diesel, 4 cycle
Type	F4L 912
Gross Power @ 2500 rev/min	55/74 kW/hp
Net Power @ 2500 rev/min Din 70020	51/70 kW/hp
Max. torque @ 1600 rev/min	222 Nm
No. cylinders/configuration	4/in-line
Bore/stroke	100/120 mm
Total displacement	3770 cm <sup>3</sup>
Combustion system	direct injection
Cooling	air

### Electrical system:

Battery	12/143 V/Ah
Alternator	14/65 V/A
Starter	12/2.7 V/kW



## Transmission

Hydrostatic transmission, full powershift under load, both when changing direction (forward and reverse) and between work and travel range.

Inching pedal for variable machine speed control whilst maintaining engine power.

	Speed	
	Forward km/h	Reverse km/h
Work range	8.5	8.5
Travel range	22.0	22.0



## Axles

All-wheel drive by two portal axles.  
100%, hydraulically operated differential lock in both axles.

Ground clearance	590 mm
Track	1584 mm
Oscillation at wheel, max.	390 mm
Angle of oscillation	± 13°



## Brakes

1. Normal retardation is effected by the braking capacity of the hydrostatic motor acting upon all four wheels.
2. Service brake: hydraulically actuated oil immersed multi-disc brakes in the rear axle.
3. Parking brake: mechanical actuation of the multi-disc brakes.



## Tyres

	Rim
Standard: 15.5 - 25 10 PR (L-2)	12.00 x 25
Optional: 14.5 - 20 10 PR	11 x 20
16/70 - 20 10 PR	13 x 20
16.5/75 R 20	13 x 20

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

Central articulating oscillating joint with damping effect.

Angle of articulation ..... ± 40°

Hydraulic steering via two double-acting steering cylinders.

### Gear-type pump

Flow @ 2500 rev/min	40 litres/min
Relief valve pressure	150 bar



## Hydraulics

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

Control valve three-spool system as standard equipment.

### Gear-type pump

Flow @ 2500 rev/min	80 litres/min
Relief valve pressure	200 bar

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

Thermostatically controlled oil circuit with integrated cooling system.

Filters can be changed without having to drain the tank.

### Automatic bucket leveller

Lift time (loaded)	6.0 sec
Lowering time (empty)	3.5 sec
Dump time	1.0 sec
Crowd time	1.0 sec



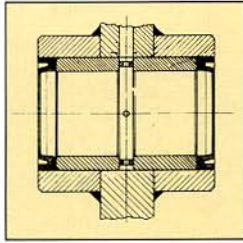
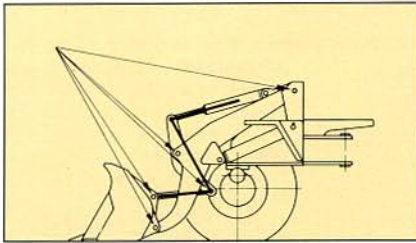
## Service Refill Capacities

Fuel tank	95.0 litres
Engine	11.5 litres
Hydraulic system incl. tank	75.0 litres
Front axle	8.7 litres
Rear axle incl. transmission	11.0 litres

## Low-Maintenance Loader Arms with Z-Bar Linkage

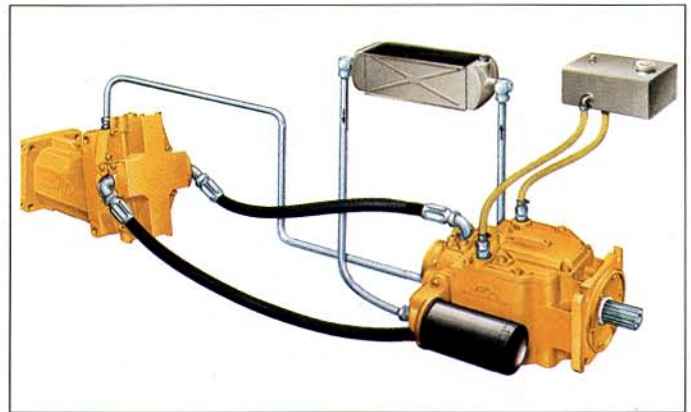
- excellent dump height and reach
- high breakout force
- fast bucket dump action
- good dump/roll back angles
- optimum bucket design
- very high bucket fill
- low-maintenance requirements due to sealed bearings

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 braking
- infinitely variable speed control over full speed range
- forward-reverse direction change under full load

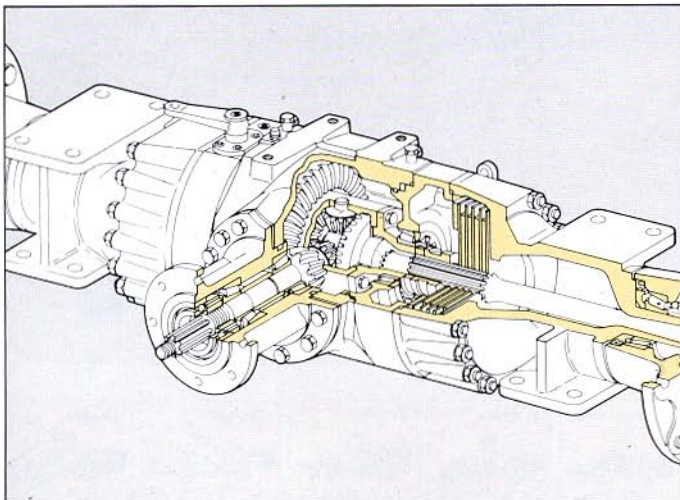


## Well Proven Design Provides Reliability, High Performance and Economical Operation

### Portal Axles with 100 % Selectable Differential Lock

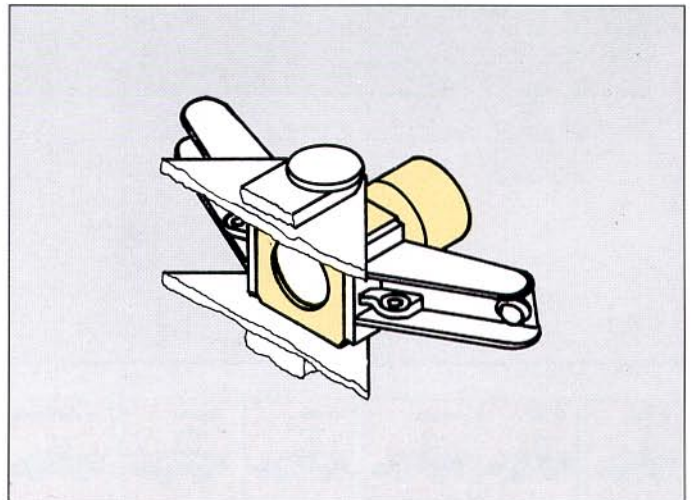
- 590 mm ground clearance
- optimum traction
- superb off-road capability
- enclosed oil immersed
- multi-disc brakes in the rear axle, supplement hydrostatic retardation
- portal reduction for maximum power transmission

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



### Hydrostatic Articulated Frame Steering with Articulating-Oscillating Joint

- Heavy duty large diameter articulation-oscillation pin for minimum surface pressure with dirt protection seal. The articulation-oscillation pin – as illustrated below – is designed to take the wiring harness and hydraulic hoses through the centre.
- smooth and reliable steering, full tracking capacity
- 40° steering angle to both sides
- short turning radius, excellent manoeuvrability
- rigid axle mounting for constantly balanced load distribution add to good stability



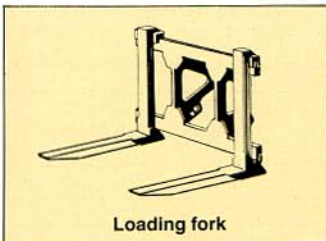


## Front-End »QC« Quick-Change System

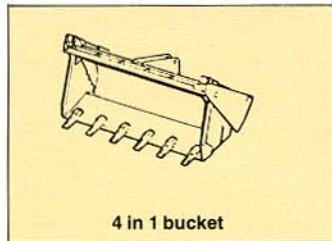


The Zettelmeyer »QC« quick-change system allows all direct mounted ZL 801 buckets and attachments to be also used as quick-change attachments.

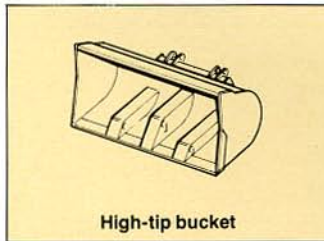
More than 40 different attachments are available for use in practically every branch of industry, for example with the QC loading fork.



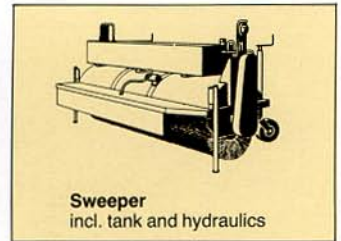
Loading fork



4 in 1 bucket

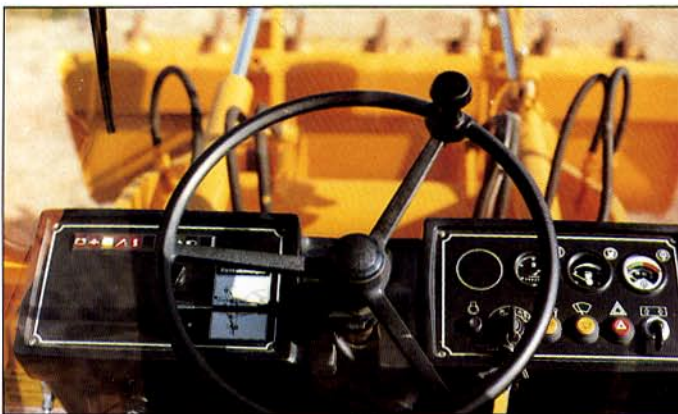


High-tip bucket



Sweeper  
incl. tank and hydraulics

## Simple – Functional – Efficient



### Operator's Compartment and Routine Maintenance

- The operators compartment designed for minimum noise and vibration, reduces operator fatigue and adds to the efficiency of operation.
- Conveniently located controls and gauges together with good all-round visibility from the spacious ROPS cab add to the safety of the unit. A central audi-visual warning device insures, that the operator is permanently in full control of engine temperature, engine oil pressure, oil temperature of drive system and air filter condition.
- Clear design and easy access to all components reduce maintenance and repair downtime.







## Operating Data

Buckets Dimensions and weights with standard tyres.		Bucket	Bucket	Bucket	Bucket	Bucket	4 in 1 Bucket	High-Tip Bucket
Material density, max.	t/m <sup>3</sup>	2.0	1.8	1.5	1.2	0.8	1.8	1.0
Capacity, heaped	m <sup>3</sup>	0.8	0.9	1.1	1.4	2.0	0.85	1.5
Capacity, struck	m <sup>3</sup>	0.65	0.75	0.9	1.2	1.75	0.75	1.3
Payload	kg	1600	1620	1650	1680	1400	1530	1350
Bucket weight with teeth	kg	400	380	400	430	500	550	600
Bucket teeth		7	7	7	7	7	7	-
Static tipping load, straight	kg	4350	4300	4250	4200	4000	4100	4000
Static tipping load at 40°	kg	3850	3800	3780	3700	3550	3600	3550
Breakout force	daN	6000	5680	4930	4100	3300	4900	4000
Hydraulic lifting capacity	daN	4930	4950	4860	4750	4600	4760	4500
Operating weight	kg	5950	5930	5950	5980	6050	6100	6150

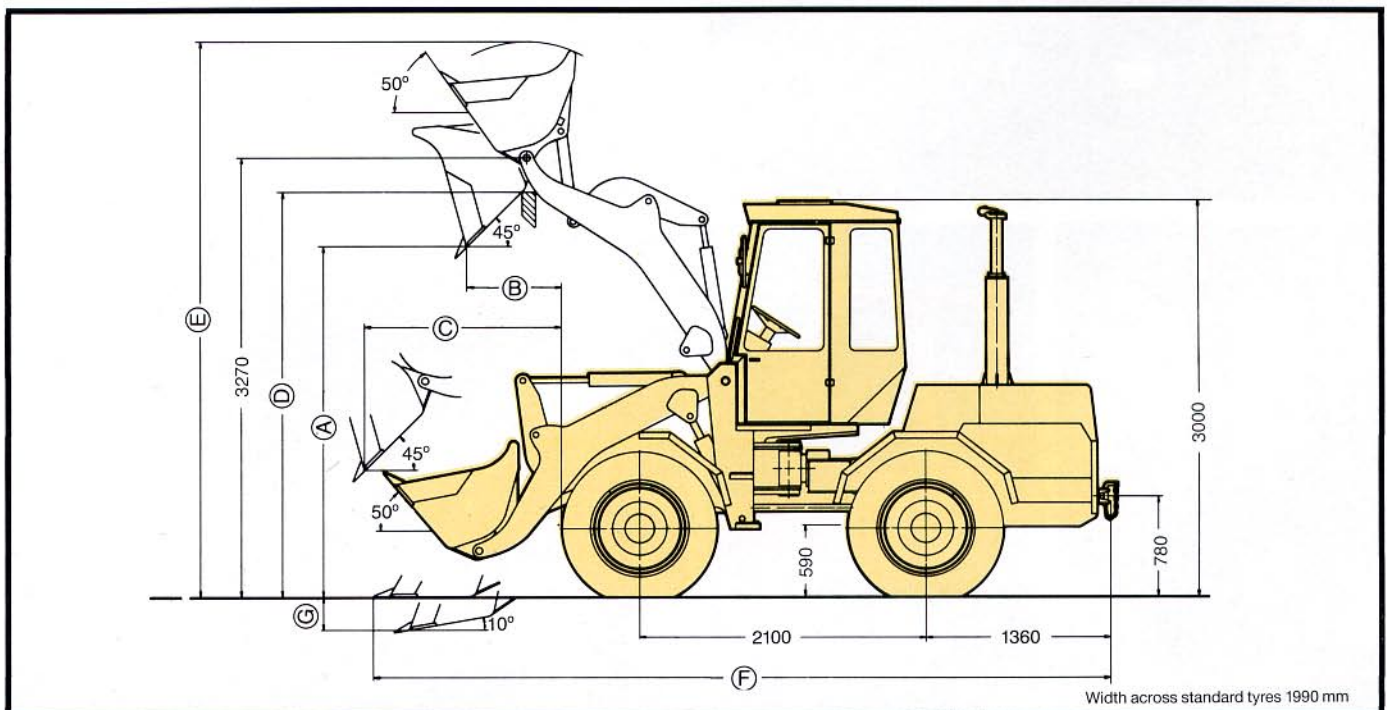


## Dimensions

Adjustments for Tyres	Tipping Load at 40° kg	Operating Weight kg	Vertical Dimensions mm
14.5-20 (L-2)	-125	-220	-70

(A) Dump height	mm	2650	2615	2550	2440	2300	2585	3755
(B) Reach at max. height	mm	670	710	770	880	950	740	1040
(C) Reach, max.	mm	1370	1410	1470	1580	1650	1440	2030
(D) Load over height	mm	3030	3030	3030	3030	3010	3050	3800
(E) Lift height max.	mm	4110	4140	4230	4370	4490	4250	4970
(F) Total length	mm	5355	5400	5500	5650	5840	5450	5750
(G) Digging depth at 10°	mm	165	170	185	210	290	175	235
Turning radius, outside bucket	mm	4260	4285	4320	4360	4500	4300	4400
Bucket width	mm	2050	2050	2050	2050	2250	2050	2050

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 all-round visibility on the job.

Insulation and acoustic lining  
Lockable doors

4-way adjustable driver's seat  
Seat belt

Steering wheel spinner knob  
Neutral start switch

#### Gauges:

Fuel gauge  
Hour meter  
Drive system oil temperature

#### Indicator lamps for:

Direction indicator  
Main beam  
Battery charging

#### Warning lights for:

Engine temperature  
Engine oil pressure  
Drive system oil temperature  
Air filter restriction

#### Central audible alarm for:

Engine temperature  
Engine oil pressure

Drive system oil temperature  
Air filter restriction

12 V power socket  
Heater with defroster  
Instrument lighting

Storage compartment in the door  
Tool box (lockable)  
Interior lighting

Tinted safety glass (windscreen)  
Windscreen wiper front and rear  
Windscreen washer  
Hinge out upper door section  
Hinge-out cab roof hatch

#### General

Alternator 65 A  
Dry-type air filter  
Cold start aid

Automatic bucket leveller  
Front working floodlights

Fenders and service platforms  
Lockable engine hood  
Lockable fuel-tank cap  
Vertical exhaust  
Towing device

External rear view mirrors  
Safety kit



## Optional Equipment

Dual air filtration

Dashboard cover  
Air conditioning

Single lever control  
Auxiliary hydraulics, front  
Auxiliary hydraulics, rear  
Three-point linkage with PTO shaft  
PTO (hydraulic)  
Extended lift arms  
Rear backhoe mounting plate

Lifting eyes  
FOPS plate  
Stacker guard  
Roll bar  
ROPS canopy

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

Attachments:  
Loading fork  
Hook and tackle  
Barrel clamp  
Pusher plate  
Angle dozer blade  
Sweeper

Manure fork  
Tree transplanter  
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

Rear mounted backhoe  
Rear scarifier  
Rotary hoe

Snow plow  
Salt and sand spreader  
Front winch  
Rock clamp  
Ground auger  
Hydraulic breaker  
Front scarifier

