



Zettelmeyer ZL 801 B



Powerful small loader meeting performance of larger categories

- **High-performance, environmental friendly diesel engine.**
Quiet, low emissions, economical fuel consumption
- **Hydrostatic drive assembly** with many advantages:
 - Easy to operate due to automatic drive facility
 - Maintains high drain-bar pull even when working hydraulics are engaged under extreme conditions
 - Advantageous hydrostatic brakes, wear-free and safe
- **Powerful Z-bar-linkage** with 2 hub and 2 lifting cylinders for:
 - High breakout force and lifting capacity in bucket applications
 - Excellent loading fork lifting capacity
- Optimum traction, due to 100 % supplementally connectable **differential lock**
- Purpose designed **cab-comfort** for extra performance
Visual and audible warning system for monitoring the operation systems

- **Gross Power**
SAE J1349 52 kW (71 hp)
- **Operating Weight:**
5710 kg (12588 lb)
- **Bucket Capacities:**
1,0-2,0 m³ (1,3-2,6 yd³)

Zettelmeyer

ENGINE



Engine: 4-cylinder direct injection, 4-stroke diesel engine with turbo-charging

Make	Deutz		Deutz
Type	BF 4L 1011T		BF 4L 1011T
Gross power	2650	1/min	2650 (r/min)
SAE J1349 JUN 85	52	kW	71 (PS)
Net power	2650	1/min	2650 (r/min)
SAE J1349 JUN 85	51	kW	70 (PS)
DIN 70020 / 62 71	51	kW	70 (PS)
Max. torque at	1600	1/min	1600 (r/min)
SAE J1349 netto	215	Nm	215 (lbf ft)
DIN 70020 / 6271	215	Nm	215 (lbf ft)
No. cylinders / configuration	4 in-line		4 in-line
Total displacement	2,73	l	167 (in ³)
Bore	91	mm	3,6 (in)
Stroke	105	mm	4,1 (in)
Cooling	oil/air		oil/air

Air cleaning:

1. Paper filter with indicator
2. Safety filter

ELECTRICAL SYSTEM



Central alarm, audible and visible

1. Warning light and audible alarm for
 - Engine temperature
 - Engine oil pressure
 - Drive system oil temperature
 - Air filter restriction
2. Warning light for
 - Parking brake

Electrical specifications:

Rated voltage	12	V	12	(V)
Battery voltage	12	V	12	(V)
Battery capacity	120	Ah	120	(Ah)
Alternator rating	840/60	W/A	840/60	(W/A)
Starter motor output	2,2/3,0	kW/hp	2,2/3,0	(kW/hp)

SERVICE FILL CAPACITIES



Engine	10,5 l	2,8 (US gal)
Fuel tank	95,0 l	25,0 (US gal)
Front axle, total	8,7 l	2,3 (US gal)
Rear axle incl. transmission	11,0 l	2,9 (US gal)
Hydraulic tank incl. hydraulic system	75,0 l	19,7 (US gal)

DRIVETRAIN



Transmission: Hydrostatic transmission, full power shift under load, both when changing direction (forward and revers) and between work and travel range. Inch pedal for variable machine speed control and power transfer to bucket hydraulics at constant engine RPM.

Transmission, make Hurth, type 305

Axles: All-wheel drive by two rigid portal axles

Ground clearance	480 mm	15" (in)
Oscillation at wheel, max.	250 mm	10" (in)
Track with standard tyres	1382 mm	54" (in)
Front axle, make Hurth, type 141/58		
Rear axle, make Hurth, type 141		

Differential lock: 100% hydraulically operated differential locks in both axles. The differential locks are acting upon all four wheels. Actuation by simply lifing differential lock ring on the single lever control.

Frame: Solid front and rear frame, robot-welded. Articulating oscillating joint for optimum maneuverability and traction.

Angle of oscillation, max. $\pm 13^\circ$

Tyres:	Size	Make	Profile	Rim
Standard:	14.5-20	Dunlop	E 91	132G

Special tyres for specific job conditions available as an option.

For details see extra table overleaf.

Speed:

2 speeds forward/reverse, full gear shifting under load

	Speed, max.	km/h	(mile/h)
Work range	forward/reverse	7,5	(4,7)
Travel range	forward/reverse	20	(12,5)

BRAKE SYSTEM



Service brake:

1. Wear-free, hydrostatic Inching-Brake acting upon all four wheels.
2. Hydraulically actuated oil-immersed multi-disk brakes in the rear axle.

Parking brake: Mechanical actuation of the multi-disc brakes.

STEERING



Hydrostatic steering.
Central articulating oscillating joint with damping effect.
Angle of articulation 40°.

Steering pump: Gear type tandem pump

Flow	42 l/min	11 (US gal/min)
@ engine RPM	2650 1/min	2650 (r/min)
Relieve	150 bar	2250 (psi)

Steering cylinder: 1 double acting steering cylinder

Diameter	63 mm	2,5 (in)
Piston rod diameter	32 mm	1,25 (in)
Stroke	300 mm	11,8 (in)

OPERATOR'S CAB



Safety cab tested and approved according to regulations for ROPS (ISO 3471-1989, SAE J1040 APR 88), "Schutzdach für Gabelstapler" (ISO 6055-1981) and Operator Restraint System (SAE J386 JUN 85).

Safety and comfort: The driver's cab can be detached and is accessible from both sides via comfortable entrances. It has sound attenuation and vibration cushioning, runs on 4 rubber elements and is padded with soundproofing material on the inside. Maximum acoustic sound level in the cab (in accordance with EG guidelines) dB(A) 80.

The generously dimensioned glazing offers an excellent allround view. The tinted front windscreen made of laminated glass allows glarefree working. All operating levers and fittings are arranged clearly and ergonomically. Operation is further simplified by the symbolic markings and lighting elements, plus an audible warning system.

Heating: Separate heating independent of engine
Type: Eberspächer D1L
Output: 1,5 kW

Driver's seat: The sprung, individually adjustable driver's seat with comfortable upholstery is an important component of the cab. A lap belt is fitted for the driver's safety. It dissipates absorbed energy via the seat rails.

HYDRAULIC SYSTEM



Thermostatically controlled oil circuit with integrated cooling system and electrically switched fan. Common tank for working, drive and steering hydraulics safeguarded by a breather valve.

Hydraulic pump: Gear-type tandem pump

Flow	85 l/min	22 (US gal/min)
@ engine RPM	2650 1/min	2200 (r/min)
Relieve valve pressure	210 bar	3150 (psi)

Hydraulic steering valve: Double acting control valve three spool system.

1. Lifting function: The valve has four positions:
Lifting - neutral - lowering floating.
2. Tilting function: The valve has three positions:
rollback - neutral - forward tilting.

Cylinders: each of them double acting

2 Lifting cylinders

Diameter	100 mm	4" (in)
Piston rod diameter	50 mm	2" (in)
Stroke	510 mm	20" (in)

2 Tilt cylinders

Diameter	75 mm	3" (in)
Piston rod diameter	40 mm	1,57" (in)
Stroke	440 mm	17,3" (in)

Hydraulic oil filter: Main stream filter cartridge with a 10 µm degree of fineness in the return.

Suction filter for the drive assy, with a 10 µm degree of fineness.

The filters can be replaced without emptying the tank.

Lifting frame: Z-bar linkage for extremely high breakout forces, plus excellent reach and dump height. Material losses during transport is reduced, due to the wide tip-back angle. Wide dump angles ensure that the shovel is thoroughly emptied.

The lifting cylinders are arranged in alignment with the lifting arms. The tilt cylinder is located centrally between the lifting arms.

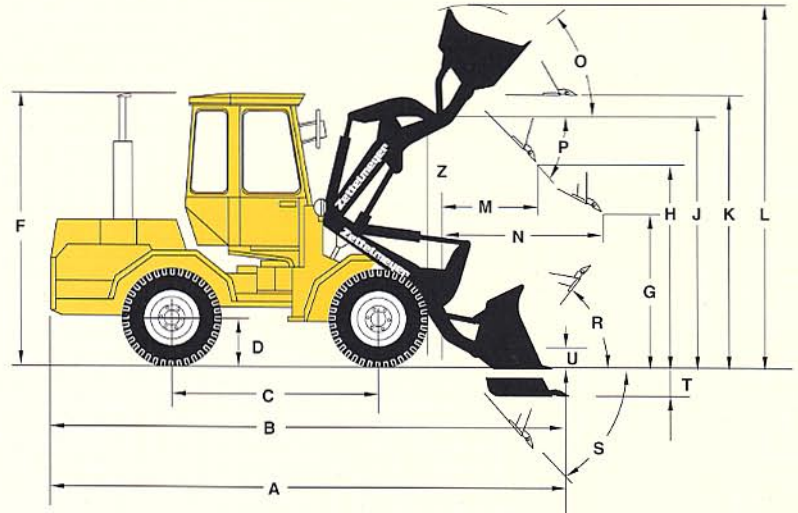
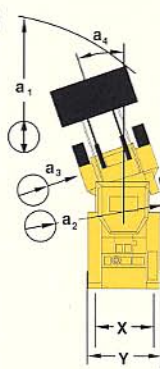
Lift time (loaded)	6,0 s
Lowering time (empty)	3,5 s
Dump time	1,0 s
Crowd time	1,0 s

DIMENSIONAL DATA ZETTELMEYER ZL 801B

(Bucket 1,0 m³ / 1,3 yd³ quick-change mounting standard equipment)
Tyres: 14.5-20 10 PR

All technical data and dimensions - as far as applicable - according to regulations ISO 7131, SAE J732 FEB 80, ISO 7546, SAE J742 FEB 85, ISO 5998, SAE J818 MAI 87.

C	2100 mm	6' 11"	(ft in)
D	520 mm	1' 8"	(ft in)
F	2930 mm	9' 7"	(ft in)
G	960 mm	3' 2"	(ft in)
J	3050 mm	10"	(ft in)
K	3200 mm	10' 6"	(ft in)
O	50 °		
P	45 °		
R	50 °		
S	141 °		
U	345 mm	1' 5"	(ft in)
X	1556 mm	5' 1"	(ft in)
Y	1916 mm	6' 3"	(ft in)
Z	2960 mm	9' 8"	(ft in)
a ₂	1892 mm	6' 2"	(ft in)
a ₃	3805 mm	12' 6"	(ft in)
a ₄	± 40 °		



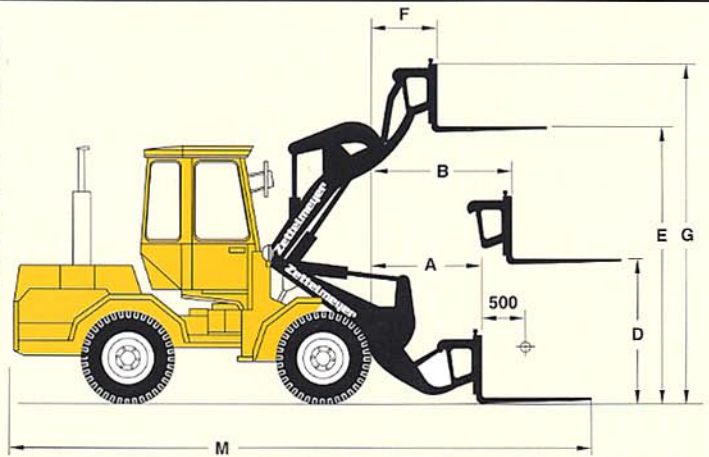
OPERATING DATA

Order N° Mounting R (quick-change mounting standard equipment) Bucket Type with/without teeth	R Straight Bucket w/wo	R Straight Bucket w/wo	R Light Mate- rial bucket wo	R Light Mate- rial Bucket wo	R 4 in 1 Bucket w/wo	R High-Tip Bucket wo
Capacity, heaped	1,0	1,1	1,4	2,0	0,85	1,5
	(1,3)	(1,4)	(1,8)	(2,6)	(1,1)	(2,0)
Material density	1800	1600	1200	800	1800	1100
	(3000)	(2700)	(1950)	(1300)	(3000)	(1780)
Static tipping load, straight	4160	4120	4060	3890	3960	3880
	(9171)	(9083)	(8950)	(8576)	(8730)	(8554)
Static tipping load, full turn	3700	3660	3600	3450	3520	3450
	(8157)	(8069)	(7937)	(7606)	(7760)	(7606)
Hydraulic lifting capacity, max.	53,5	52,3	51,1	49,5	51,2	48,5
	(12027)	(11757)	(11488)	(11128)	(11510)	(10903)
Breakout force	60,0	51,7	43,0	34,6	51,4	42,0
	(13488)	(11623)	(9667)	(7778)	(11555)	(9442)
A Total length	5400	5500	5650	5840	5450	5680
	(17' 8")	(18' 0")	(18' 6")	(19' 2")	(17' 10")	(18' 8")
L Lift height, max.	4070	4160	4300	4420	4180	4900
	(13' 4")	(13' 8")	(14' 1")	(14' 6")	(13' 8")	(16' 1")
V Bucket width	2050	2050	2050	2250	2050	2050
	(6' 9")	(6' 9")	(6' 9")	(7' 4")	(6' 9")	(6' 9")
a ₁ Clearance circle	8570	8640	8720	9000	8600	8800
	(28' 1")	(28' 4")	(28' 7")	(29' 6")	(28' 2")	(28' 10")
T Digging depth, max.	100	100	100	150	100	100
	(4")	(4")	(4")	(5' 9")	(4")	(4")
H Dump height	2545	2480	2370	2230	2515	3685
	(8' 4")	(8' 2")	(7' 1")	(7' 4")	(8' 3")	(12' 1")
M Reach at max. height	780	840	950	1020	810	1110
	(2' 7")	(2' 9")	(3' 1")	(3' 4")	(2' 8")	(3' 8")
N Reach, max.	1480	1540	1650	1720	1510	2100
	(4' 10")	(5' 1")	(5' 5")	(5' 8")	(4' 11")	(6' 11")
Weight distribution, front (empty, transport position)	2330	2360	2408	2519	2594	2641
	(5137)	(5203)	(5308)	(5553)	(5719)	(5822)
Weight distribution, rear (empty, transport position)	3380	3370	3352	3311	3286	3269
	(7451)	(7429)	(7390)	(7300)	(7244)	(7207)
Operating weight	5710	5730	5760	5830	5880	5910
	(12588)	(12632)	(12698)	(12853)	(12963)	(13029)

LOADING FORK (quick change mounting)

Dimensions

Variable opening width, min.	130 mm	5' 1" (ft in)
Variable opening width, max.	1330 mm	4' 4" (ft in)
Length of tynes	1000 mm	3' 3" (ft in)
A	860 mm	2' 2" (ft in)
B	1340 mm	4' 5" (ft in)
D	1400 mm	4' 7" (ft in)
E	3030 mm	9' 11" (ft in)
F	640 mm	2' 1" (ft in)
G	3815 mm	12' 61" (ft in)



Tipping Load

Tipping load, full turn without counterweight	2500 kg	5512 (lb)	Tipping load, full turn with counterweight	2900 kg	6393 (lb)
Rated payload acc. to 55 3462 at centre of gravity and operating weight of machine	2000 kg	4409 (lb)	Rated payload acc. to 55 3462 at centre of gravity and operating weight of machine	2300 kg	5070 (lb)
	500 mm	1'7" (ft in)		500 mm	1'7" (ft in)
	5730 kg	12632 (lb)		6030 kg	13294 (lb)

Weight alternations with counterweight

Counterweight	Static tipping load straight	Static tipping load full turn	Operating weight	Counterweight only to be mounted in combination with loading fork.
300 kg 661 (lb)	+ 460 kg (+ 1040) (lb)	+ 410 kg (+ 904) (lb)	+ 300 kg (+ 661) (lb)	

ATTACHMENTS

Buckets

Straight bucket of various sizes 1,0-2,0 m³ (1,3-2,6 yd³) with or without teeth

Wide range of bucket types, e.g.:

- Light material bucket w/wo teeth
- High-tip bucket w teeth
- 4 in 1 bucket w/wo teeth
- Side-tip bucket w/wo teeth
- Brick bucket
- Horti cultural bucket
- Bolt-on cutting edge

Further buckets and attachments available on request.

Selection of further attachments, e.g. for:

Timber industry:

- Log grapple
- Loading fork with log grapple

Road building/industry:

- Loading fork with various teeth length
- Hook and tackle

Communal location:

- Angle dozer blade
- Sweeper
- Snow plow

Horticultural and agricultural field:

- Hay/manure fork

TYRES

Tyres:	Size	Make	Profile	Bearing Index	Rim	Track		Width across tyres		Adjustment in weight		Adjustment in vertical dimensions	
						mm	(in)	mm	(in)	kg	(lb)	mm	(in)
Standard	14.5-20	Dunlop	E91	132 G	11x20	1556	(61,3")	1916	(75,4")	-	-	-	-
Optional	405/70 R24	Dunlop	SPT9	158 A2	W 13x24	1596	(62,8")	2012	(79,2")			+ 30	(1,2")
	405/70 R20	Dunlop	SPT9	155 A2	13x20	1596	(62,8")	2019	(79,4")			- 16	(0,6")
	15.5/25	Dunlop	E91-2	163 A2	12.00x25	1584	(62,4")	1989	(78,3")	+ 220	(485)	+ 80	(3,1")
	375/75 R20	Michelin	XM27	136 G	11x20	1556	(61,3")	1918	(75,5")	- 28	(62)	- 30	(1,2")
	425/75 R20	Michelin	XM27	148 G	13x20	1596	(62,8")	2021	(79,6")	+ 116	(255)	-	
15.5 R25	Michelin	XHA			12.00x25	1584	(62,4")	1981	(78")	+ 332	(732)	+ 80	(3,1")

STANDARD

Cab, exterior

Removable cab with flexible mountings

Walk-through cab
Lockable doors

Tinted safety glass (windscreen)
Windscreen wiper front and rear
Hinged upper door sections
Hinge-out skylight
Two external rear view mirrors
Door stops

Cab, interior

4-way adjustable driver's seat with seat belt
Sun-visor
Heater independent of engine with defroster
Cab ventilation
Cab lighting
Storage box in the cab
Tool box

Instrument panel

with symbols
Instrument lighting
12 V power socket
Horn
Safety start

Gauges:

Fuel gauge
Hour meter
Drive system oil temperature

Indicator lamps for:

Direction indicator
Parking brake
Main beam
Battery charging
Differential locks
Hazard warning flashers

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

Exterior lighting:

Main head lights
full/dipped beam /asymmetrical
Parking lights
Rear lights
Brake lights
Direction indicators
Hazard warning lights

Aggregates

Diesel engine with direct fuel injection
Cold start aid
Dry-type air filter
Alternator 60 A

Hydrostatic drive
100 % lockable differential lock

Tyres 14.5-20

Gear-type tandem pump
Control valve three spool system

Working equipment

Single lever control
Automatic bucket leveller

Carriage body

Fenders and mudguards, front and rear
Lockable engine hood
Lockable fuel tank cap
Vertical exhaust
Rain cap for exhaust
Towing device

OPTIONAL EQUIPMENT

Cab

Air condition
Radio

Windscreen washer, front and rear

Service and maintenance

Tool kit
Wheel nut wrench

Safety

FOPS-guard
Protecting guards for main head lights (front) working lights (rear) rear lights
Rotating beacon with collapsible mounting
Audible reversal alarm
Warning triangle
Counterweight - 300 kg

Aggregates

Pre-heater
Catalysator
Extra fuel filter

Working equipment

Working lights, front, single (Halogen)
ZLS-Load Stabilizer
Extended lift arms
Towing hitch

PTO

3rd hydraulic circuit
Extra hydraulics, rear
Additional hydraulics for attachment carrier
4th hydraulic circuit with cables
Hydraulic circuit with additional pump

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Under our policy of continuous product improvement, we reserve the right to change specifications and design without prior notice.

The illustrations do not necessarily show the standard version of the machine.