### ZL 401 / 401 MP Series B

# Zettelmeyer

Wheel Loader



Progress Is Our Tradition

### Wheel Loaders ZL 401/401 MP



### **Engine**

Make         Deutz/diesel, 4 cycle           Type         F2L 511           Gross Power @ 3000 rev/min         28/38 kW/hp
Net Power @ 3000 rev/min Din 70020 26/35 kW/hp
Max. torque @ 2200 rev/min
No. cylinders/configuration 2/in-line
Bore/stroke
Total displacement
Combustion system direct injection
Coolingair
Electrical system:
Battery
Alternator
Starter



### **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.

			S	p	e	90	i			
	Forward km/h								_	verse km/h
Work range	11.0		٠							11.0
Travel range										20.0



#### Axles

All-wheel drive by two rigid axles with planetary hub reduction. 100%, hydraulically operated differential lock in both axles.

Ground clearance .								 										305 mm
Track								 	٠.	٠.								1340 mm
Oscillation at wheel,	n	าล	ìX		9			 										295 mm
Angle of oscillation				•	•	•		 										. ± 12.5°



#### Brakes

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



### **Tyres**

	Rim
Standard: 10.5 - 18 119 G	9 x 18
Optional: 15.5/55-R 18 134 E	11 x 18
12.5 - 18 125 G	11 x 18

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 ± 4	0°
Hydraulic steering via one double-acting steering cylinder.	
Gear-type pump   Flow @ 3000 rev/min	



### **Hydraulics**

One double-acting tilt cylinder One double-acting lift cylinder

Control valve three-spool system as standard equipment

Filters can be changed without having to drain the tank.

Control valve tillee-spool system as standard equipment.
Gear-type pump
Flow @ 3000 rev./min
Relief valve pressure 200 bar
Common tank for working, drive and steering hydraulics safe- guarded by a breather valve. Thermostatically controlled oil circuit with integrated cooling
system.

Lift time (loaded)	6.0 sec
Lowering time (empty)	3.5 sec
Dump time	
Crowd time	1.2 sec

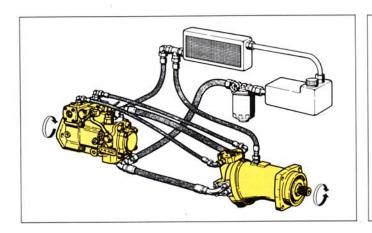


### **Service Refill Capacities**

Fuel tank	:	45,0 litres
Engine		3,5 litres
Hydraulic system incl. tank		45,0 litres
Front axle		
Rear axle incl. transmission		6.0 litres

### Series B

### **Cost Effective 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
- simple forward-reverse direction change under full load

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



Flexibly mounted ROPS safety cab with good all-round visibility. Easy to enter and leave from both sides.



Clearly arranged dashboard and low effort control levers.



For coping with extreme operating conditions

– a low maintenance articulating oscillating



Powerful, air-cooled diesel engine - with easy access for maintenance.

### Maintenance Free and Low Wear Service Brake in Rear Axle

- closed service braking system integrated in the axle, providing protection against dirt and humidity
- hydraulically operated, oil-immersed multi-disc brakes
- easy service access
- separate parking drum brake, mounted in drive line

### With More than 40 Different Attachments Available the ZL 401 **Demostrates Unrivalled Versatility in a Wide Range of Applications.**

### The ZL 401 with Quick-Change Attachment Carrier on the Lift Arms

The Zettelmeyer »QC« quick-change system allows all direct mounted ZL 401 buckets and attachments to be also used as guick-change attachments. The system is well proven and very simple in operation.



A combination of the ZL 401 and the comprehensive range of »QC« attachments provides a versatile materials handling system, which can make one man a workforce.





Loading fork



The ZL 401 MP - a Multi-Purpose System

Fork-lift mast 1.5 t payload with 3.25 m lifting height\*
0.6 t payload with 5.05 m lifting height\*



Dumper unit, 1.2 m3 capacity



Zettelmeyer »MP« system - with the loader frame removed, the ZL 401 can be converted to a vertical mast fork-lift or forward tip dumper, self-contained salt spreader, high lift loader, or sweeper. Changing to or from any of these attachments requires the removal of only one pin and connection of the hydraulics by quick release couplings. Its off-road capability and high tipping load permit safe and reliable operation in many difficult applications. For added versatility the loader

frame can also be equipped with the Zettelmeyer »QC« system.



## Series B



### Operating Data

Buckets Dimensions and weights with standard tyres and 160 kg standard count	erweight.	Bucket	Bucket	Bucket	Bucket	Bucket	4 in 1 Bucket	High-Tip Bucket
Material density max	t/m³	2.3	1.8	1.5	1.2	0.8	1.8	1.0
Capacity, heaped	m <sup>3</sup>	0.4	0.5	0.6	0.75	1.0	0.45	0.75
Capacity, struck	m <sup>3</sup>	0.33	0.44	0.52	0.67	0.87	0.35	0.65
Payload	kg	920	900	900	900	800	810	750
Bucket weight with teeth	kg	190	205	235	250	295	380	450
Bucket teeth		6	6	6	6	6	6	
Static tipping load, straight	kg	2440	2430	2380	2330	2 2 3 0	2 170	2 120
Static tipping load at 40°	kg	2 160	2 140	2 100	2060	1970	1920	1870
Breakout force	daN	2600	2200	2000	1700	1400	2 100	1400
Hydraulic lifting capacity, max.	daN	1930	1900	1850	1800	1750	1650	1600
Operating weight	kg	3 235	3 2 5 0	3 280	3 295	3340	3 4 2 5	3 4 9 5

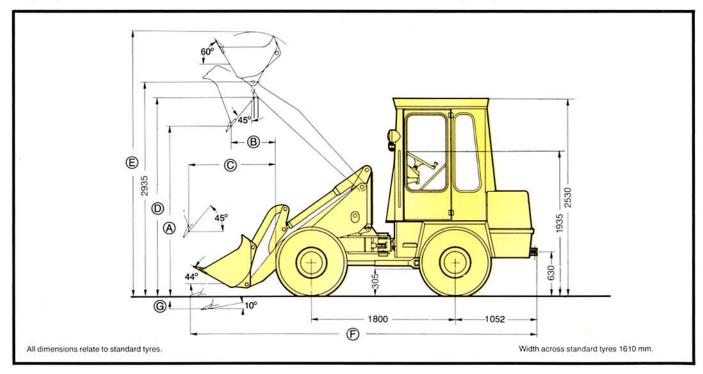


### **Dimensions**

Adjustments for tyres	Tipping	Operating	Vertical
	Load at 40°	Weight	Dimensions
	kg	kg	mm
12.5-18	+ 30	+ 60	+ 30

Dump height	mm	2405	2330	2300	2 2 0 5	2 105	2305	3 4 0 5
B Reach at max. height	mm	665	735	770	865	965	720	910
Reach max.	mm	1330	1400	1435	1530	1630	1385	1925
Load over height	mm	2710	2710	2710	2710	2710	2730	3 430
E Lift height max.	mm	3 5 5 0	3 630	3730	3810	3940	3720	4510
F Total length	mm	4620	4720	4770	4900	5040	4750	4 920
G Digging depth at 10°	mm	200	210	220	240	265	240	270
Turning radius, outside bucket	mm	3 640	3660	3 680	3720	3760	3 680	3740
Bucket width	mm	1650	1650	1650	1650	1650	1650	1650

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

Walk-through cab with flexible mountings Insulation and acoustic lining Lockable doors Single lever control

3-way adjustable driver's seat Seat belt

Steering wheel spinner knob Neutral start switch

Fuel gauge Hour meter

Indicator lamps for: Direction indicator Main beam Battery charging

Warning lights for: Engine oil pressure Drive system oil temperature Air filter restriction

Central audible alarm for: Engine temperature Drive system oil temperature

12 V power socket Heater with defroster Instrument lighting

Storage compartment in the door Tool box (lockable)

Tinted safety glass (windscreen) Windscreen wiper front and rear Sliding windows in the doors

#### General

Alternator 65 A Dry-type air filter

Auxialary hydraulics, front Single lever control Extended lift arms

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

External rear view mirrors Safety kit





### Optional Equipment

Cold start aid Dual air filtration

Dashboard cover

Auxiliary hydraulics, rear PTO (hydraulic)

Wide range of bucket sizes and types with or without teeth Silo bucket Extra-wide bucket Brick bucket Bolt-on cutting edge

Optional high-speed version (work range 15 km/h, travel range 30 km/h)

Windscreen washer

Lifting eyes Hinge-out cab roof hatch FOPS guard FOPS plate

»QC« Quick-change attachment carrier, mechanical

Attachments: Loading fork

Hook and tackle Barrel clamp Pusher plate Angle dozer blade Sweeper

Manure fork Tree transplanter Tree transplanting bucket

»MP« multi purpose system

MP units:

MP loader unit

Snow plow

Salt and sand spreader

Front winch Rock clamp Ground auger Hydraulic breaker

Front scarifier

MP fork lift mast MP dumper unit MP sweeper unit MP dozer unit

3470	220
	\$ 500

	Without counterweight (valid for all tyres)	With 160 kg counterweight (valid for all tyres)
Tipping load kg articulated (DIN 24094)	1400	1580
Lifting Force daN	1500	1500
Payload (acc. TBG) smooth ground kg rough ground kg	1120 700	1260 790

Data only applicable to Zettelmeyer Loading Fork Code 9323 and Centre of Gravity Distance 500 mm.

401/401 MP Series B 6 91 · Subject to change in design, weights and dimensions without notice