

Zettelmeyer LF 802

Rough Terrain Fork Lift for tough Applications

- *Automatic oscillation block* when lifting a load
- *Attachment Bracket FEM3*
- Optimum traction provided by **operator-selected 100% differential lock** and high ground clearance due to *portal axles*.
- **Hydrostatic drive** with significant advantages:
 - Easy to operate due to automatic drive facility
 - Advantageous hydrostatic brakes, wear-free and safe
- High-performance **low environmental impact diesel engine**: quiet, low emissions, economical fuel consumption.
- **Purpose designed cab comfort** for extra performance
Audio-visual warning system for monitoring operating systems



- **Gross Power:**
SAE J1995 58/79 kW/hp
- **Net Power:**
SAE J 1349 56/76 kW/hp
- **Operating Weight:**
7,5 t (16500 lb)
- **Payload 4,0 t (8800 lb)**

Zettelmeyer



ENGINE

Engine: in-line 4-cylinder, 4-stroke, direct injection diesel engine, with turbocharging, water cooled.

Three-stage air cleaning:

1. Pre-cleaner with ejector
2. Dry type air filter with indicator
3. Safety filter

| | | | | |
|------------------|--------------|-------|------|-------------------|
| Make | KHD | | | |
| Type | BF 4M 1012 E | | | |
| Gross power @ | 2100 | r/min | (35 | r/s) |
| SAE J1995 | 58 | kW | (78 | hp) |
| Net power @ | 2100 | r/min | (35 | r/s) |
| SAE J1349 | 56 | kW | (75 | hp) |
| DIN 70020 / 6271 | 56 | kW | (75 | hp) |
| Max torque @ | 1500 | r/min | (25 | r/s) |
| SAE J1349 netto | 300 | Nm | (221 | lbf ft) |
| DIN 70020 / 6271 | 300 | Nm | (221 | lbf ft) |
| No. cylinders | 4 | | | |
| Cubic capacity | 3,2 | l | (195 | in ³) |
| Bore | 94 | mm | (3,7 | in) |
| Stroke | 115 | mm | (4,5 | in) |

Electrical System

| | | | | |
|----------------------|---------|-----|------|-----|
| Rated voltage | 24 | V | | |
| Battery voltage | 2 x 12 | V | | |
| Battery capacity | 2 x 74 | Ah | | |
| Alternator rating | 1540/55 | W/A | | |
| Starter motor output | 4,0 | kW | (5,4 | hp) |



DRIVETRAIN

Transmission: hydrostatic transmission, full power shift under load, both when changing direction (forward and reverse) and between first and second range. Maximum drawbar force can be achieved in each range. Inch/brake pedal for variable machine speed control and power transfer to hydraulics at constant engine rpm.

Multi-function lever for change of direction, differential lock and use of the servo-control.

Axles: all-wheel drive by two portal axles.

Differential lock: hydraulically actuated 100% differential locks in both axles.

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

| | | | | |
|----------------------------|------|----|--------|-----|
| Oscillation at wheel, max. | 290 | mm | (11,4" | in) |
| Track | 1596 | mm | (62,4" | in) |
| Angle of oscillation | ± 10 | " | | |

| | | |
|----------------|------|----------|
| Standard tires | Size | 16/70-24 |
| | Rim | 13 x 24 |

| | | | | |
|-----------------|------|------|-------|---------|
| Speed, max. | | | | |
| 1st range | | | | |
| forward/reverse | 6,5 | km/h | (4,0 | mile/h) |
| 2nd range | | | | |
| forward/reverse | 20,0 | km/h | (12,4 | mile/h) |



SERVICE FILL CAPACITIES

| | | | | |
|---------------------------|-------|---|-------|---------|
| Engine | 9,0 | l | (2,4 | US gal) |
| Fuel tank | 100,0 | l | (26,5 | US gal) |
| Front axle, total | 8,7 | l | (2,3 | US gal) |
| Rear axle, incl. drop-box | 11,5 | l | (3,0 | US gal) |
| Hydraulic tank, | | | | |
| incl. hydraulic system | 110,0 | l | (29,1 | US gal) |



BRAKING SYSTEM

Service brake: reliable dual braking system, acting upon all four wheels.

1. Wear-free, hydrostatic brake
2. Central disc brake, actuated via "inch/brake pedal".
First stage of pedal application actuates the inching facility, the last third of pedal application applies the central disc brake, which is mounted in the front axle.

Parking brake: wet inboard mounted multi-disc brakes in rear axle.



HYDRAULIC SYSTEM

Thermostatically controlled oil circuit with integrated cooling system.

Hydraulic control valve: servo-controlled three spool system, with primary and secondary pressure valves.

1. Lifting function
2. Tilting function
3. Additional function
Preparation for operating hydraulic attachments with this function is available as an option.

Hydraulic oil filter: main stream filter cartridge with a 10 µm filtration in the return-line. Suction filter for the drive assembly with a 10 µm filtration.

The filters can be replaced without emptying the tank.

Lifting frame: 2 Lift cylinders
2 Tilt cylinder

Automatic oscillation block

| | | | | |
|-----------------------|------|-------|-------|-------------|
| Hydraulic pump | | | | |
| Flow | 82 | l/min | (21,7 | US gal/min) |
| @ engine rpm | 2100 | r/min | (35 | r/s) |
| Relief valve pressure | 21 | MPa | (3045 | psi) |



STEERING

Hydrostatic steering. Central articulating joint with damping effect.

Steering pump: gear-type pump

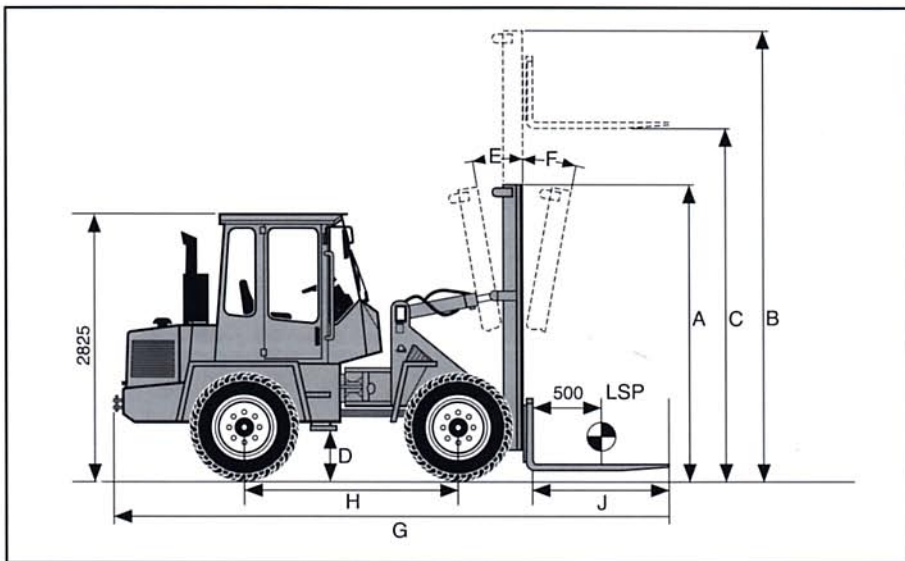
Steering cylinder: 2 double acting steering cylinders

| | | | | |
|-----------------------|------|-------|-------|-------------|
| Steering | | | | |
| Angle of articulation | ± 40 | " | | |
| Steering pump | | | | |
| Flow | 40 | l/min | (10,6 | US gal/min) |
| @ engine rpm | 2100 | r/min | (35 | r/s) |
| Relief valve pressure | 15 | MPa | (2176 | psi) |



DIMENSIONS*

| | |
|---|------------------|
| A Min. Height | 3100 mm (10' 2") |
| B Max. Height | 5560 mm (18' 3") |
| C Max. Loading Height (Lower edge of fork tines) | 4450 mm (14' 7") |
| D Ground Clearance | 310 mm (1' 0") |
| E Max. Tilt back | 8° |
| F Max. Tilt forward | 13° |
| G Total Length | 5300 mm (17' 5") |
| H Wheel Base | 2250 mm (7' 5") |
| J Tine Length | 1000 mm (3' 3") |
| Oscillation Block | 835 mm (2' 9") |
| Max. Payload at LSP 500 | 4000 kg (13' 1") |



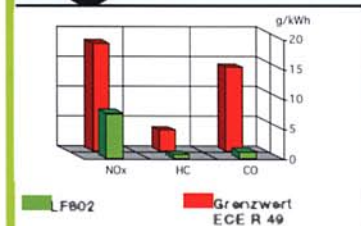
OPERATION

Exemplary low environmental impact



Interior 77 dB (A)
Exterior 100 dB (A)

...reduced noise emission, economic fuel consumption and low exhaust emissions



Low level exhaust emissions far below EU regulations



...so comfortable

The roomy cab offers a high level of operator comfort which makes operation fun: well laid out cockpit, individually adjustable, comfortable operator seat, variable ventilation and heating. Fantastic panoramic view for precise control of machine. Simplified operation using the dual inch/brake pedal and the multi-function lever.

New: control direction of travel, neutral and differential lock by simply pressing a button on the multi-function lever or conventionally using the direction lever on the steering column.



STANDARD EQUIPMENT

Cab, Exterior

Detachable ROPS/FOPS-cab
with flexible mountings
Walk-through cab
Lockable doors
Tinted safety glass (windscreen)
Windscreen wiper, front and rear
Windscreen washer, front and rear
Sliding window in the left door
Door stops
External rear view mirrors (right and left)

Cab, Interior

4-way adjustable driver's seat
Seat belt
Sunblind
Heater with air-filter and defroster
Cab ventilation
Cab lighting
Heated rear windscreen
Storage box in the cab
Tool box

Instrument Panel

with symbols:
Instrument lighting
24 V power socket
Horn
Safety start
Gauges:
Engine temperature
Fuel gauge
Hour meter
Drive system oil temperature
Indicator lamps for:
Indicators (left/right)
Parking brake
Main beam
Pre-heater
Battery charging
Differential locks
Hazard warning flashers
Direction (forward/reverse)
Central audio-visual alarm for:
Engine temperature
Engine oil pressure
Drive system oil temperature
Air filter restriction
Parking brake

Exterior Lighting

Main head lights (Halogen):
full/dipped/asymmetrical
Parking lights
Rear lights
Brake lights
Direction indicators
Hazard warning lights

Powertrain

Diesel engine with direct fuel injection
Cold start aid
Dry-type, three-stage air filter
Pre-cleaner with ejector
Alternator 55 A
Hydrostatic drive
Operator-selected 100% differential lock
Tires 16.70-24
Hydraulic System
Gear-type pumps
Control valve three-spool system
Third hydraulic circuit

Service and Maintenance

Tool kit

Working Equipment

Working lights, front
Multi-function lever
Attachment bracket FEM3

Carriage Body

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

Sound insulation acc. to EU-guidelines
Safety standards according to EU-Directive 89/392/EEC
CE Certification

OPTIONAL EQUIPMENT

Cab

Handthrottle
Hand control inch valve
Heating independent of engine
Radio
Sliding window in the right door

ROPS-Bar

Safety

Protective guards for
Main head lights
Working lights
Rear lights

Rotating beacon
Audible reverse alarm (std USA)
Counterweight

Powertrain

Pre-heater
Catalytic converter
Extra fuel filter (std USA)
Two-stage air filter (with oil bath)

Service and Maintenance

Wheel nut wrench

Working Equipment

Working lights (rear)
Additional hydraulics for attachment mast
4th hydraulic circuit

**...so mobile**

Difficult terrain? No problem as every Fork Lift has operator-selected 100% differential lock standard in both axles. And, in addition, portal axles with high ground clearance. Optimum manoeuvrability is ensured even on twisty, narrow sites due to the articulating-oscillating joint and the machines' special design: no single element protrudes beyond the width defined by the wheel rim - even the doors stop open within this contour.

Selection of Attachments

| | |
|-------------------------|--|
| Loading Fork (Standard) | Bale Clamp (several versions available) |
| Roll Clamp | Barrel Clamp (several versions available) |
| Stone Clamp | |

AS well as all usual Fork-Lift Attachments

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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.

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