

1.1 Technical Specifications

General Note

"Right" and "Left" are as seen from the driver's cabin.

Diesel Engine

- air-cooled Deutz Diesel engine : F2L511D,
- 2 cylinder, 4 stroke, direct injection,
- displacement : 1650 cm³,
- bore Ø 100 mm, stroke 105 mm,
- output 25,7 kW (35 HP) at 3000 RPM, as per DIN 6270B - continuous output,
- fuel consumption 225 g/kW/h,
- starter motor - 1,5 kW (2,0 HP), 12 V,
- dry air cleaner

Hydrostatic Drive System

- Diesel engine.
- Axial piston pump (variable displacement pump) flange-mounted to Diesel engine,
- High pressure hoses connect the piston pump to the hydrostatic piston motor.
- The hydrostatic motor is connected to the reduction gear in the rear with direct torque transmission from reduction gear to rear axle and via drive shaft to front axle.

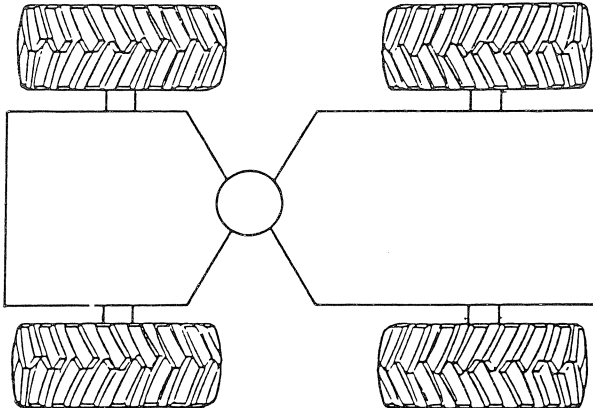
IMPORTANT

- The maximum speed of the hydrostatic motor has been fixed by the factory. Removing the seal can result in damage and loss of warranty.
- The front axle can be optionally equipped with a differential lock which can be switched on and off by the operator.
- The AL6 is equipped with 4 tires of equal size. The standard tire is 11,5/80 - 15,3/8PR/TL. See following table for optional tires and tire pressure.

TIRE PRESSURE

	with - Bucket		with - Bucket - Backhoe		with - Pallet Fork - Telescopic High-Lift	
Tire	Front bar	Rear bar	Front bar	Rear bar	Front bar	Rear bar
11,5/80-15,3/8PR/TL (Tubeless)	2,0	2,0	* 2,0	3,0	3,0	2,0
10,5-18 MPT/6PR/TL (Tubeless)	2,0	2,0	* 2,0	2,5	2,5	2,0
12,5-18 MPT/6PR	1,8	1,8	* 1,8	2,0	2,0	1,8
15,5/55-R18/14PR	1,8	1,8	* 1,8	2,0	2,0	1,8
LP 400-15,5/6PR	2,0	2,0	* 2,0	2,1	2,1	1,8

* Tires filled with water (+ anti-freeze)



Correct Tire Pattern

Operating Characteristics, Axle Loads, Weights

Operating Characteristics

- working speed : 0 - 9 km/h
- travel speed . 0 - 20 km/h (standard tires)

Noise insulation : conforms with current German regulations.

Pushing force 2400 daN
on dry, concrete surface

Gradeability 54%
with full payload (operating capacity)
without backhoe

Gradeability 45%
with backhoe + water-filled front tires

Minimum external turning radius 3800 mm
(with bucket)

Oscillation (forward chassis) $\pm 11^\circ$, 260 mm difference
in height of wheels
Articulation (forward chassis) 2 x 40°

Operating capacity (bucket) 1210 kg - Counterweights
may be used - subject to
manufacturer's approval -
to increase the capacity.

Axle Loads/Weights (Road Travel)

Front 1400 kg)
Rear 2100 kg) with empty bucket and without backhoe
Total weight 3500 kg)

Front 1050 kg)
Rear 3500 kg) with backhoe/rear grapple and with
Total Weight 4550 kg) empty bucket

Steering System

Servo-assisted hydrostatic steering system fed by a gear pump
which is flanged to the Diesel engine.

Maximum steering pressure : 160 bar.

Emergency Steering

It is possible to steer the machine in the event of an engine
failure, but without servo-assistance. The towing-speed should
not exceed 5 km/h

Braking System

Operating Brake-

There is a foot brake (inching pedal) located to the left of the steering column (illustration 8/32) which activates a valve in the hydrostatic pump via a Bowden cable. The operator can close the pump to slow down or stop the machine without having to adjust the speed of the engine.

Parking Brake -

Hand lever located to the right of the operator's seat which is connected to a drum brake in the reduction gear (rear axle) - (illustration 3/arrow).

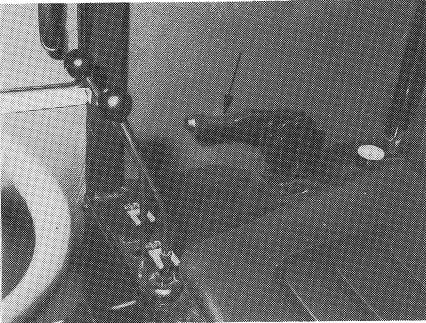


Illustration 3

Electrical Installation

Voltage : 12 V
Battery : 66 A/h 12 V standard, (125 A/h on request)
Alternator : 14 V / 33 A
Starter : 1,5 kW 12 V
Fuel Gauge
Hourmeter
2 Headlights
Emergency Flashers
Direction Indicators
Taillamps

Lights comply with German road travel regulations.

The battery should be kept dry and clean. Terminals should be covered with a thin layer of acid-free grease which must not touch the acid. Top up fluid level with distilled water.

ATTENTION

Never add any acid.

The density of the acid should be checked each month.

	Normal	Tropical Conditions	Freezing Point
Fully loaded battery	1,28 g/cm ³	1,23 g/cm ³	- 65° C
Semi-loaded battery	1,20 g/cm ³	1,16 g/cm ³	- 27° C
Empty battery	1,18 g/cm ³	1,08 g/cm ³	- 11° C

Electrical welding equipment may only be used on the loader, after the battery terminals have been disconnected.

Fuel Supply

The fuel tank (40 litres) is positioned to the left under the cabin. The level can be checked on a gauge which is inside the cabin. The inlet is on the left-hand side of the machine (illustration 5/arrow).

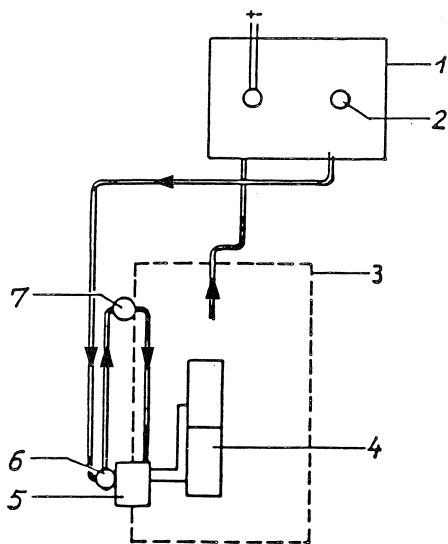


Illustration 4

- | | | |
|-------------------|---|------------|
| 1. Fuel Tank |) | |
| 2. Inlet |) | |
| 3. Engine |) | |
| 4. Fuel Injector |) | Illustrat. |
| 5. Injection Pump |) | |
| 6. Supply Pump |) | |
| 7. Fuel Filter |) | |

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Illustration 5

Loader Hydraulics

Gear pump flanged to the engine with a pump capacity of 19 cm³/Rev (or 57 l/m at 3000 RPM) which feeds via a control valve :

- the lift cylinder Ø 90/55 mm)
- the tilt cylinder Ø 80/45 mm) double-acting

Maximum relief pressure : 180 bar (ca. 2600 PSI)

The lift and tilt functions and the speed of these operations are controlled by a single lever (illustration 8/21) which is linked to the control valve. Operation is smooth and easy to regulate. Both loader functions can be carried out simultaneously.

Bucket Angle

- Backward tilt : 45°
- Dumping : 55° (bucket raised to full height)

Loader Performance :

- Lift capacity	2540 daN max.
- Operating capacity (German safety regulations)	1210 kg
- Break-out force (bucket edge)	3420 daN
- Pushing force on dry, concrete ground	2400 daN
- Tipping load - standard bucket, straight	2750 kg
- fully articulated	2420 kg

Cycle Times :

- Lifting : 3,8 s
- Lowering : 2,5 s
- Dumping : 2,8 s
- Tilting : 2,0 s

Equipment

- Comfortable seat : with shock absorber and weight adjustment; mounted on sliding rails; adjustable back-rest; can be turned 180° for backhoe operation (optional).
- Well arranged dash-board : Hourmeter, fuel gauge, 12 V socket, pull switch for emergency flashers.
- Cabin : steel roll-over protective cabin, lockable side door, easy access, windscreen wipers, sun shield, defroster for windscreen, excellent all-round visibility, heating.
- Set of tools,
- Articulation lock,
- Wheel chock - for loaders equipped with rear-mounted attachments with total weight in excess of 4 t.
- Extras : all-round lighting
radio
auxiliary heating

ATTENTION

The standard equipment as supplied by the factory is in line with the norm in Germany. Local regulations in Germany and elsewhere may require the installation of additional equipment. It is the user's/distributor's responsibility to ensure that this equipment is added.

In accordance with transport regulations, the loader is supplied with a minimum amount of fuel.