### TRANSMISSION

Make	HYDROMATIK
Туре	Hydrostatic closed circuit
Pump	
Hydrostatic motor	Double displacement

## AXLES

Front	Rigid
Rear	Oscillating
Total oscillation	
Total reduction	19,5 : 1
Differential	
Final reduction gears	Epicyclic

## LOADER HYDRAULIC SYSTEM

Loader gear lift hydraulic cylind	ers N° 2
Stroke	
Double action	Yes
Loader dump hydraulic cylinder	
Stroke	
Double action	Yes
Loader steering cylinder	
Bore	
Stroke	
Double action	Yes
Loader hydraulic distributor	Modular type
Sections	
Loader hydraulic pump type	Gear pump
Flow-rate at 2.200 r.p.m.	
Return oil filter	Total filtration
Steering system	Hydraulic power steering
Service brake	Disk brake in oil on the four tires
With	Double circuit
	By means of accumulator
Hydraulic control	Servo controlled
Parking brake	Block-type on manually operated transfer box

#### Problem **Possible cause** Solution Not enough water in radiato Top up Contact your Ahlmann Distributor Limescale deposits in radiator Alternator belt loose Set correct belt tension The engine overheats Water pump faulty Contact your Ahlmann Distributor Radiator cap valve stuck Replace cap Water temperature probe Contact your Ahlmann Distributor malfunctioning Flat battery Charge or replace battery Battery cable terminals loose or Check them over, clean, and coat corroded with Vaseline Eliminate air intrusion source and The engine fails to | Air in fuel line bleed start Starter motor will not turn Contact your Ahlmann Distributor Drain fuel, clean tank, replace with Water in fuel new fuel Warm up engine for 5 - 10 minutes Engine cold at 1100 - 1200 r.p.m. Engine exhaust fumes white Injectors faulty Contact your Ahlmann Distributor Delayed injection Air filter clogged Clean air filter **Engine exhaust** Timing off Contact your Ahlmann Distributor fumes black Faulty injector **Engine exhaust** Abnormal oil infiltration into Contact your Ahlmann Distributor fumes blue combustion chamber Fuel filter dirty Sostituire il filtro The engine lacks Insufficient fuel delivery power Contact your Ahlmann Distributor Delayed injection Timing off The engine knocks Contact your Ahlmann DistributorI Faulty injectors

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TROUBLESHOOTING

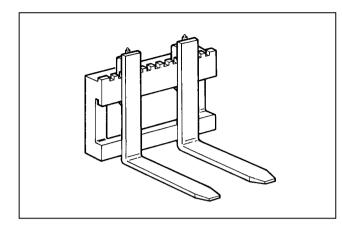
Problem	Possible cause	Solution	
	Air inlet filter clogged	Replace filter	
The vehicle moves neither forwards nor backwards, or	Abundant foam formation, or oil level too low	Check oil state and level: change if necessary	
	Inlet pipe broken or twisted	_	
	Elastic diesel engine - pump coupling faulty	Contact your Ahlmann Distributor	
it moves with a certain delay	Supercharger faulty		
	Drive direction selection solenoid valve fails to operate		
	Maximum pressure valves dirty or faulty		
	Faulty hydrostatic motor		
Engine vibration	Engine mountings faulty		
	Faulty injectors	Contact your Ahlmann Distributor	
	Fan broken		
	Faulty injector pump		
	Engine breakdown		
Insufficient tractive force in both directions	Engine fails to max r.p.m. or is heavily overloaded		
	Supercharger feed pressure is too low	Contact your Ahlmann Distributor	
	Maximum working pressure valve set too low		
	In-tank hydraulic oil temperature too high		
	Faulty hydrostatic motor		
Insufficient tractive force in first gear in both directions	Hydrostatic motor fails to maintain maximum displacement	Contact your Ahlmann Distributor	
The vehicle decelerates erratically	Temporary magnet power supply interruption	Contact your Ahlmann Distributor	

Problem	Possible cause	Solution	
Extreme in-tank oil overheating	Oil level too low or wrong oil type	Check level or change oil	
	Oil draw piping not airtight	Check draw piping	
	Pump faulty check working pressure		
	Hydrostatic motor faulty: check oil draw flow-rate	Contact your Ahlmann Distributor	
	Inefficient oil-water exchanger		
	Air inlet valve clogged	Replace it	
The vehicle does not reach max	Max rated r.p.m. unattainable	Check diesel engine r.p.m.	
speed	Second gear insertion magnet on hydrostatic motor not working	Contact your Ahlmann Distributor	
Oil leaks at engine or draw pump drive shaft	Sealing ring faulty or hardened	Contact your Ahlmann Distributor	
Reduced hydraulic cylinder force	Hydraulic circuit pressure too low	Contact your Ahlmann Distributor	
Reduced working manoeuvre speed	Low-performance loader hydraulic pump.	Contact your Ahlmann Distributor	
* • • • •	Low-performance loader hydraulic pump		
Loader hydraulic oil overheating	Incorrect hydraulic circuit pressure	Contact your Ahlmann Distributor	
	Oil draw in the cylinder pistons		
Noisy hydraulic pump	Oil level too low		
	Air present in drawing	Contact your Ahlmann Distributor	
	Faulty pump		
Hydraulic system whistles	Air in hydraulic circuit	Contact your Ahlmann Distributor	
Oil leakage at cylinders between cylinder head and piston	O-Ring seals worn	Contact your Ahlmann Distributor	

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Problem	Possible cause	Solution
Oil leakage at cylinders between rod and piston	O-Ring seals worn	Contact your Ahlmann Distributor

## **UNIVERSAL FORKS**



The **universal forks** are fitted on the front part.

The coupling may be of the pin type with quick mechanical coupling or with a quick hydraulic coupling.

For fork attachment see the "Dismantling the equipment" chapter.

Note: Since this is an equipment item that has no hydraulic movement there is no hose disassembly stage.



When the vehicle is equipped with universal forks the load must be at a maximum above-ground of 500 mm when the vehicle is moved.

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Transfer speed must not exceed 15 km/h when loaded.

The load barycentre must not be more than 500 mm from either the horizontal or vertical fork teeth plane.

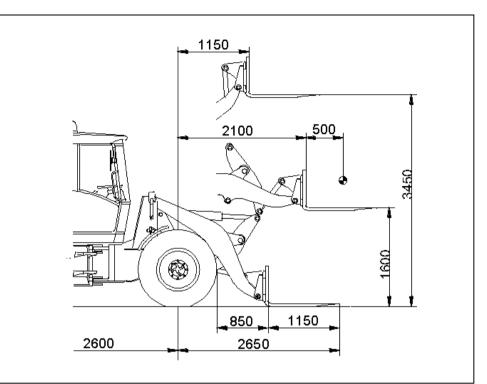
The indicated load values must not be exceeded.



\* The load marked with this symbol is for the machine use on not even ground (60% of articulated tipping load).

\*\* The load marked with this symbol is for the machine use on an even hard surface (80% of articulated tipping load).

# OVERALL DIMENSIONS WITH FORKS (without quick coupling) Load with forks - Load centre at 500 mm



Load 2,600 kg. (with quick coupling 2,400 kg)
Load 3,500 kg. (with quick coupling 3,300 kg)

NOTES	]
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Technical office, July 2002