











			AH5	00-D
RATED PAYLOAD			45 400 kg (100 000 lb)	
BODY CAPACITY: HEAPED			28.2 m³ (36.9 yd³)	
ENGINE NET POWER			372 kW (499 HP)	
BODY	CAPACITY:	STRUCK	21.4 m³ (28.0 yd³ )	
		HEAPED: SAE 2:1	28.2 m <sup>3</sup> (36.9 yd <sup>3</sup> )	
	RATED PAYLOAD		45 400 kg (100 090 lb)	
	POWER DOWN TIME		9.9 seconds (60 degrees tip angle)	
	RAISE TIME		11.2 seconds (60 degrees tip angle)	
	TIPPING ANGLE		70 degrees standard or any lower angle programmable	
OPERATING WEIGHTS	EMPTY	FRONT	17 710 kg ( 39 000 lb)	
		MIDDLE	•	20 800 lb)
		REAR	9 010 kg ( 19 900 lb)	
	LADEN	TOTAL	36 153 kg ( 79 700 lb)	
	LADEN	FRONT	23 954 kg ( 52 800 lb) 29 011 kg ( 64 000 lb)	
		MIDDLE	29 011 kg ( 64 000 lb)  28 588 kg ( 63 000 lb)	
		TOTAL	81 553 kg (180 000 lb)	
ENCINE	MODEL		DaimlerChrysler MercedesBenz OM502LA	
ENGINE	CONFIGURATION		V-8 with Engine Valve Brake (EVB) and Exhaust butterfly Brake (EXB)	
	ASPIRATION		Turbocharged and intercooled	
	COOLING SYSTEM		Liquid cooled with single pass radiator as well as charge air cooler	
	GROSS POWER (SAE J1349)		380 kW (510 HP) @ 1 800 min <sup>-1</sup> (rpm)	
	NET POWER (SAE J1349)		372 kW (499 HP) @ 1 800 min <sup>-1</sup> (rpm)	
	NET. TORQUE		2 147 N·m (1 584 lbf·ft) @ 1 200 min <sup>-1</sup> (rpm)	
	DISPLACEMENT		15.93 L (972 in <sup>3</sup> )	
	FUEL TANK CAPACITY		640 L (169 US gal)	
ELECTRICAL SYSTEM	VOLTAGE		24V	
	BATTERY CAPACITY		2 x 105 Ah	
	ALTERNATOR RATING		28V 100A	
TRANSMISSION	MODEL		Allison HD4560R Full automatic planetary transmission with integral retarder	
	LAYOUT		Engine mounted with rear output	
	GEAR LAYOUT		Constant meshing planetary gears, clutch operated	
	CLUTCH TYPE		Hydraulically operated multiple disc	
	CONTROL TYPE		Electronic	
	TORQUE CONVERTER LAYOUT		Hydrodynamically with lock-up in all gears	
	VEHICLE SPEEDS:		Low range	High range
		1ST	5.5 km/h (3.4 mph)	7.5 km/h (4.7 mph)
		2ND	11.7 km/h (7.3 mph)	15.9 km/h (9.9 mph)
		3RD	16.9 km/h (10.5 mph)	23.0 km/h (14.3 mph)
		4TH	25.8 km/h (16.0 mph)	35.2 km/h (21.9 mph)
		5TH	33.8 km/h (21.0 mph)	46.0 km/h (28.6 mph)
		6TH	38.4 km/h (23.9 mph)	52.3 km/h (32.5 mph)
TRANSFER BOX  AXLES	OUTDUT DIFFEDE	REAR	4.7 km/h (2.9 mph)	-
	OUTPUT DIFFERENTIAL		AGR 17100 / Three in-line helical gears. Interaxle 33/67 proportional differential,  pneumatically / spring lockable whilst stationary or on the move	
	DIFFERENTIAL TYPE		27T / Two-speed spiral bevel type	
	FINAL DRIVE TYPE		Outboard heavy-duty planetary on all axles	
BRAKING SYSTEM	SERVICE BRAKE  PARK & EMERGENCY		Dual circuit, full hydraulic oil immersed wet multi-disc	
			brakes on all three axles	
			Spring applied, air released driveline mounted disc	
	AUXILIARY BRAKE		Engine Valve Brake (EVB) and Exhaust butterfly Brake (EXB)	
WHEELS	TIRE SIZE TYPE		875/65 R29	
			Radial Earthmover	
	MAX. GROUND PRESSURE (LADEN)		Middle : 161 kPa ( 1.23 kgf/cm <sup>2</sup> , 23 psi)	
SUSPENSION	FRONT TYPE		Semi-independent leading A-frame supported by nitrogen/oil struts	
	REAR TYPE		Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis	
			by a Tri-Link system of three rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint	
HYDRAULIC SYSTEM	PUMP TYPE		Variable displacement, loadsensing piston	
	APPLICATION		Steering, tippping, hydraulic brake charging, suspension and coolling fan drive	
STEERING SYSTEM	ANGLE		42° side to side	
Articulated with two double acting hydraulic cylinders	LOCK TO LOCK TURNS		4.2	
PNEUMATIC SYSTEM			Air drier with heater and integral unloader valve,	
			serving park brake an	d auxilliary functions

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#### STANDARD EQUIPMENT

#### CAB

- ROPS/FOPS certification 74dBA sound pressure
- Protective rear window guard
- Handrails on fenders
- Tilt cab for service access
- Gas strut supported door
- Tinted safety glass
- Sliding windows
- Rear view mirrors- regular and wide angle
- Electric adjust and heated mirrors (one per side)
- Wiper/washer with intermittent control
- Tilt and telescoping steering wheel
- Adjustable air suspension seat with retractable seat belt, adjustable damper & automatic height positioning
- Operator and trainer grab handles
- Fold-away trainer seat with retractable seat belt & adjustable damper
- HVAC climate control system with filtered and ducted air
- Air horn
- Overhead console for FM and 2-way radio, compartments for storage, electrical relays and circuit breakers and control & modules
- Toolbox
- Clothing hooks strap
- 12V power outlet/12V cigarette lighter
- Ashtrays
- Drinks holders
- Cooled/heated lunchbox
- Wheel spanner set

- Analogue gauges
- Engine coolant temperature
- Engine oil pressure
- System air pressure
- Transmission oil temperature
- Fuel
- Speedometer
- LCD Display
- Transmission gear selection
- Tachometer
- Battery voltage
- Hourmeter
- Odometer

## **BRAKES**

Spring applied air release park brake on rear driveshaft

### **OTHER**

- Automatic central lubrication system
- Body liners
- Sand/dust covers
- Work lights
- Artic reverse light
- Electrical horn

## **OPTIONAL EQUIPMENT**

(Factory and field installed)

- Exhaust body heating
- Autogate
- Tires (size, type & rating)

These specifications are subject to change without notice.
Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, go through Operator's Manual for proper operation.

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