

AH500-D

HITACHI

AH500



ARTICULATED DUMP TRUCK

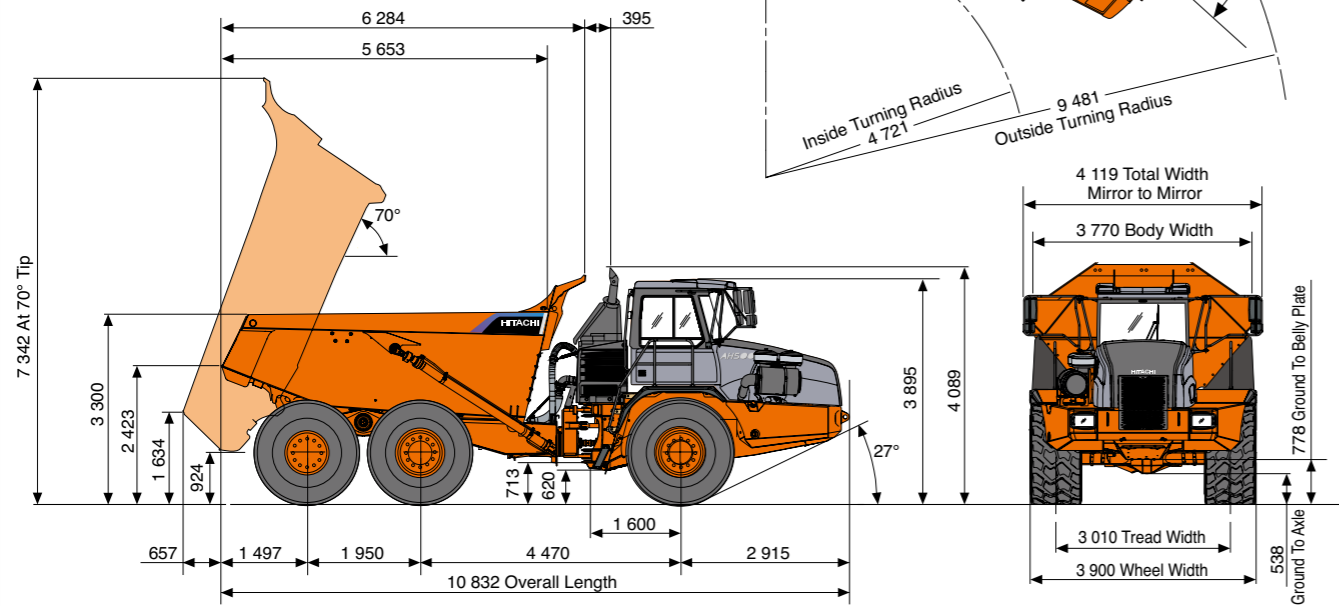
- Engine Net Power : 382 kW (512 HP)
- Rated Payload : 45 400 kg
- Gross Vehicle Weight : 79 920 kg
- Body Capacity : Heaped SAE 2:1 28.2 m³



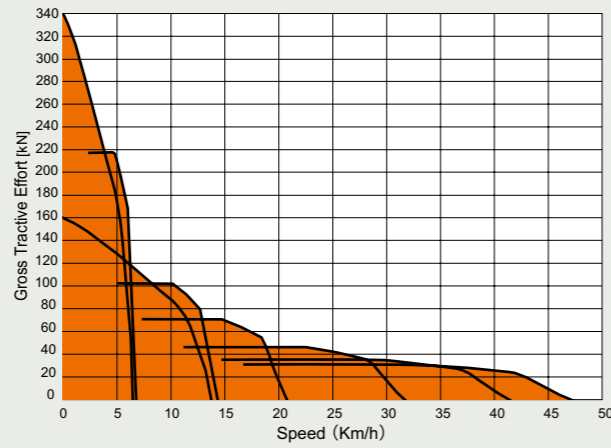
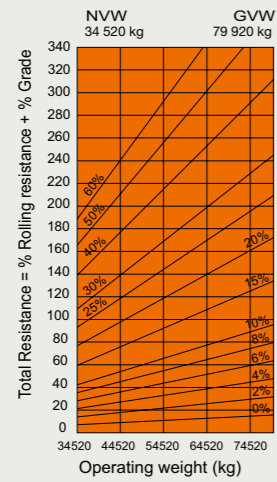
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DIMENSIONS

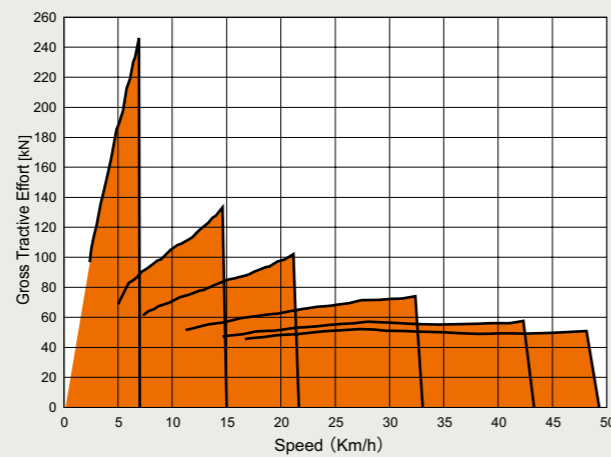
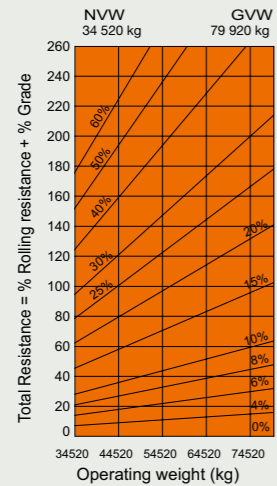
Unit : mm



GRADEABILITY



RETARDATION



		AH500-D
RATED PAYLOAD		45 400 kg
BODY CAPACITY: HEAPED		28.2 m ³
ENGINE NET POWER		382 kW (512 HP)
BODY	CAPACITY: STRUCK	21.4 m ³
	HEAPED: SAE 2:1	28.2 m ³
	RATED PAYLOAD	45 400 kg
	LOWERING 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	17 550 kg
	MIDDLE	8 500 kg
	REAR	8 470 kg
	TOTAL	34 520 kg
	LADEN FRONT	23 440 kg
	MIDDLE	28 260 kg
REAR	28 220 kg	
TOTAL	79 920 kg	
ENGINE	MODEL	MercedesBenz OM502LA
	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)	390 kW (523 HP) @ 1 800 min ⁻¹ (rpm)
	NET POWER	382 kW (512 HP) @ 1 800 min ⁻¹ (rpm)
	NET. TORQUE	2 147 N·m @ 1 300 min ⁻¹ (rpm)
	DISPLACEMENT	15.93 L
	CERTIFICATION	Meets EU Tier 3 ratings
	FUEL TANK CAPACITY	640 L
ELECTRICAL SYSTEM	VOLTAGE	24V
	BATTERY CAPACITY	2 x 105 Ah
	ALTERNATOR RATING	28V 100A
TRANSMISSION	MODEL	Allison HD4500R ORS 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:	1ST 6.9 km/h
	2ND	14.6 km/h
	3RD	21.2 km/h
	4TH	32.4 km/h
5TH	42.4 km/h	
6TH	48.2 km/h	
REAR	5.7 km/h	
TRANSFER BOX	OUTPUT DIFFERENTIAL	VGR 17100 / Three in-line helical gears. Interaxle 33/67 proportional differential, pneumatically / spring lockable whilst stationary or on the move
AXLES	DIFFERENTIAL TYPE	30T / High strength steel fabricated with spiral bevel type
	FINAL DRIVE TYPE	Outboard heavy-duty planetary on all axles
BRAKING SYSTEM	SERVICE BRAKE	Dual circuit, full hydraulic oil immersed wet multi-disc brakes on all three axles
	PARK & EMERGENCY	Spring applied, air released driveline mounted disc
	AUXILIARY BRAKE	Engine Valve Brake (EVB) and Exhaust butterfly Brake (EXB)
WHEELS	TIRE SIZE	875/65 R29
	TYPE	Radial Earthmover
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, tipping, hydraulic brake charging, suspension and cooling fan drive
STEERING SYSTEM Articulated with two double acting hydraulic cylinders	ANGLE	42° side to side
	LOCK TO LOCK TURNS	4.2
PNEUMATIC SYSTEM	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions	



STANDARD

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, fore/aft isolator & automatic height positioning system
- Operator and trainer grab handles
- Fold-away trainer seat with retractable seat belt
- HVAC climate control system with filtered and ducted air
- Air horn
- Clothing hooks strap
- 12V power outlet/12V cigarette lighter
- Ashtray
- Drinks holder
- Cooled/heated lunchbox
- Document pocket
- Emergency exit hammer
- Sun visor
- Bottle holder
- Analogue gauges
Coolant temperature gauge
Speedometer
Engine revolution meter
Fuel gauge
Transmission oil temperature gauge

- LCD Display
Selected gear
Odometer
Hourmeter
Body tip count
Trip fuel
Trip time
- Warning/Indicator lights
Cold start
Coolant level
Engine fault
Emergency steering
Engine over speed
Park brake
Brake pressure
Brake temperature
High hydraulic fluid temperature
Body raised

OTHER

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

OPTIONAL EQUIPMENT

(Factory and field installed)

- Body liners
- Exhaust body heating
- Autogate

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, read and understand the Operator's Manual for proper operation.

