

AH500-D

HITACHI

# AH500



## ARTICULATED DUMP TRUCK

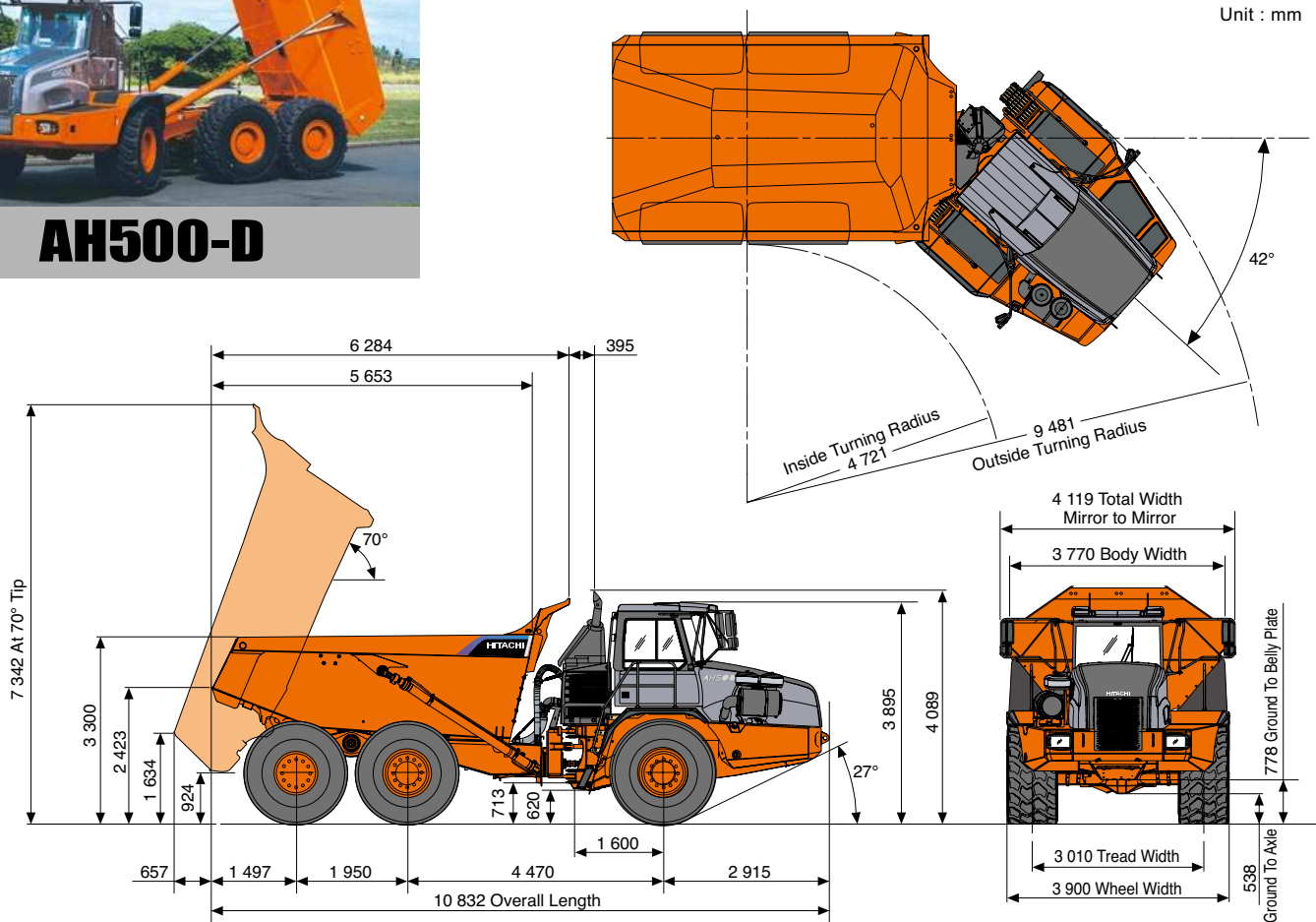
- Engine Net Power : 382 kW (512 HP)
- Rated Payload : 45 400 kg
- Gross Vehicle Weight : 79 920 kg
- Body Capacity : Heaped SAE 2:1 28.2 m<sup>3</sup>



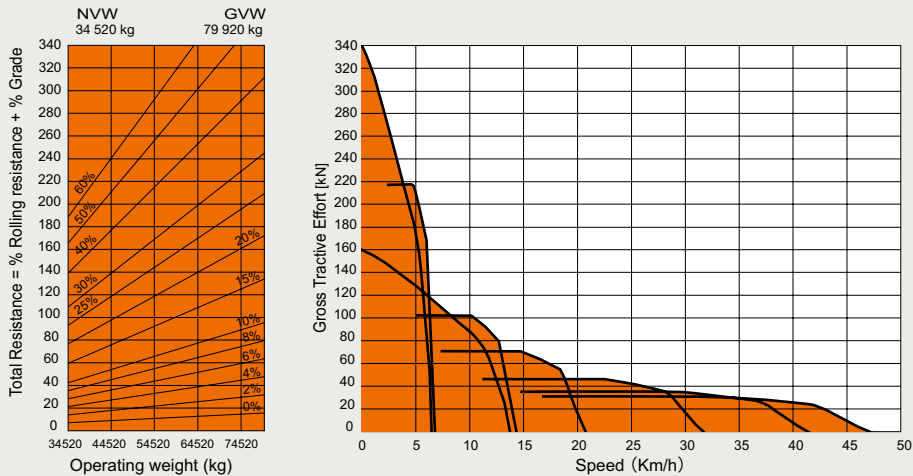
AH500-D

DIMENSIONS

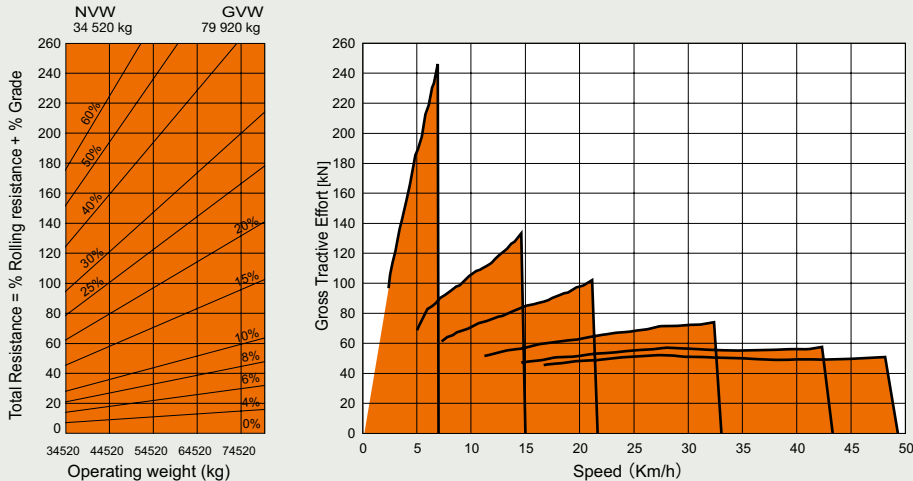
Unit : mm



GRADEABILITY



RETARDATION



			AH500-D
RATED PAYLOAD			45 400 kg
BODY CAPACITY: HEAPED			28.2 m³
ENGINE NET POWER			382 kW (512 HP)
BODY	CAPACITY:	STRUCK	21.4 m³
		HEAPED: SAE 2:1	28.2 m³
	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 <sup>-1</sup> (rpm)
	NET POWER		382 kW (512 HP) @ 1 800 min <sup>-1</sup> (rpm)
	NET. TORQUE		2 147 N·m @ 1 300 min <sup>-1</sup> (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.