

AH350

ARTICULATED DUMP TRUCK

- **Maximum payload**
32 500 kg (71 650 lb)
- **Body capacity**
Heaped: 20.0 m³ (26.2 yd³)
- **Engine net power**
283 kW (380 hp)



Note: Photo includes optional equipment.

BODY

Capacity:	Struck	15.2 m ³ (19.9 yd ³)
	Heaped: SAE 2:1	20 m ³ (26.2 yd ³)
Maximum payload		32 500 kg (71 650 lb)
Raise time		14 seconds
Power down time		7.6 seconds
Tipping angle		70 degrees

OPERATING WEIGHTS

Empty:	Front	13 600 kg (29 990 lb)
	Middle	6 565 kg (14 480 lb)
	Rear	6 560 kg (14 470 lb)
	Total	26 725 kg (58 940 lb)
Laden:	Front	18 510 kg (40 820 lb)
	Middle	20 360 kg (44 890 lb)
	Rear	20 355 kg (44 880 lb)
	Total	59 225 kg (130 590 lb)

ENGINE

Configuration	Mercedes Benz OM501LA
Aspiration	V6 with exhaust brake and engine valve brake (EVB)
Cooling System	Turbocharged and intercooled
Net Power (SAE J1349)	Liquid cooled with single pass radiator
Max. Net Torque	283 kW (380 hp) @ 1 800 min ⁻¹ (rpm)
Displacement	1 824 N·m (1 343 lbf·ft) @ 1 800 min ⁻¹ (rpm)
Fuel tank capacity	11.95 L (730 in ³)
	485 L (128 US gal)

ELECTRICAL SYSTEM

Voltage	24V
Battery capacity	2 x 105 Ah
Alternator rating	28V 80A

TRANSMISSION

Layout	Allison HD4560 with integral retarder
Gear layout	Engine mounted box with rear output
	Constant meshing planetary gears, clutch operated.
Clutch type	Hydraulically operated, multi disc
Control type	Electronic
Torque converter layout	Hydrodynamic, with lock-up in all gears
Vehicle speeds	1st 2nd 3rd 4th 5th 6th R
	7.8 16.5 24 36.6 47.9 54.4 6.6 km/h
	(4.9)(10.3)(15)(22.8)(29.9)(34) (4.1)(mph)

TRANSFER CASE

Output differential	VGR 17000
	Three in-line helical gears. Interaxle 33/67 proportional differential, pneumatically lockable whilst stationary or on the move.

AXLES

Differential type	25T
	Spiral bevel gear with Controlled Traction
Final drive type	Diff(CTD)
	Outboard heavy-duty planetary

BRAKING SYSTEM

Service Brake	Dual circuit, full hydraulic actuation caliper brakes on all wheels.
Park & Emergency	Spring applied, air released drive-line mounted disc.
Auxiliary Brakes	Transmission retarder, Automatic exhaust brake and Engine Valve Brake (EVB)

WHEELS

Tire	Size	26.5R25
	Type	Radial Earthmover
Max ground pressure	Middle:	156 kPa (1.59 kgf/cm ² , 23 psi)
	(laden)	

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.

HYDRAULIC SYSTEM

Pump type	Full load sensing system serving the prioritized steering, body tipping and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system
Application	Variable displacement, loadsensing piston Steering, tipping, hydraulic brake charging and cooling fan drive

STEERING SYSTEM

Angle	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump
Lock to lock turns	42° side to side
	4.7

PNEUMATIC SYSTEM

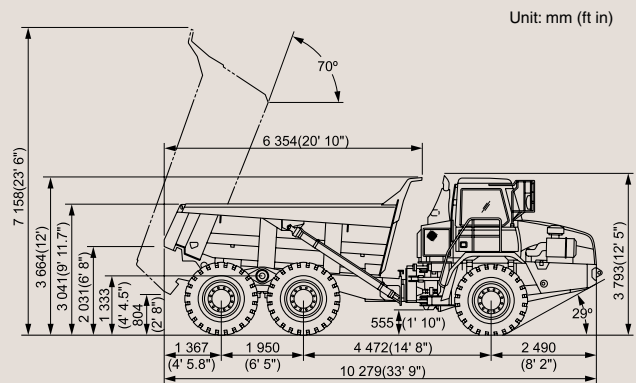
Air drier with heater and integral unloader valve, serving park brake and auxiliary functions

STANDARD EQUIPMENT

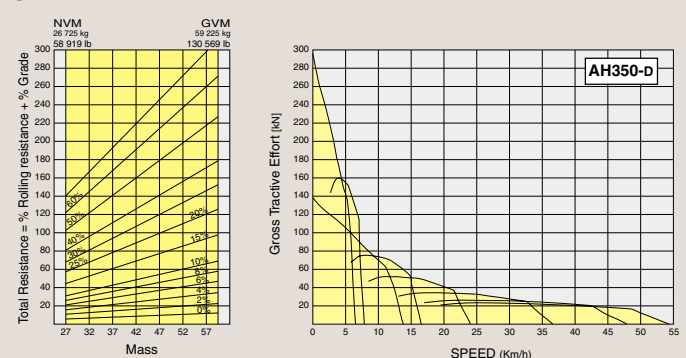
- ROPS and FOPS certified
- EPA Emission certified
- CE Mark
- Air conditioner
- Folding trainer seat
- Electric rear view mirror
- Tilt cab for service access
- Head light guard
- Tilt/telescopic steering column
- Windshield washer/wiper & defogger
- S/brake caliper mud scraper & mud cover
- Transmission retarder
- Engine exhaust brake
- Engine valve brake(EVB)
- Emergency steering
- Body ducted for heating
- Cold weather starting aid
- Rear tow pin
- Antenna mounting bracket
- Ciger lighter/Power point 12V

OPTIONAL EQUIPMENT

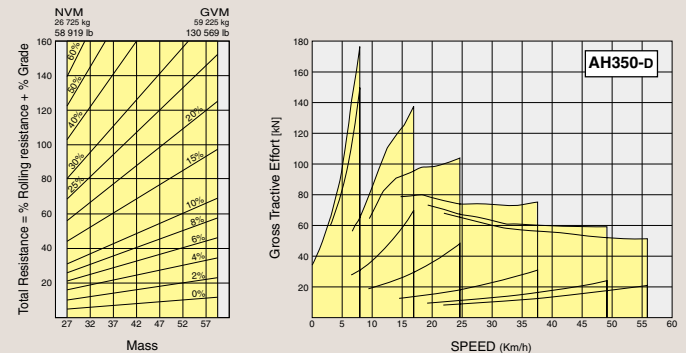
- Automatic tailgate
- Body heating connection
- Two extra batteries
- Orange rotating beacon
- Artic reverse light
- Body liners
- Auto grease system
- Electric horn
- Work light
- Fuel heater



GRADEABILITY



RETARDATION



All dimensions are shown in millimeters, unless otherwise stated between brackets.
Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice.
Photographs featured in this brochure may include optional equipment.

Hitachi Construction Machinery Co., Ltd.

Head Office : 5-1, Koraku 2-chome, Bunkyo-ku,
Tokyo 112-8563, Japan

Telephone : Tokyo (03) 3830-8050

Facsimile : Tokyo (03) 3830-8202

These specifications are subject to change without notice