



Stable Powerful Economical

PERFORMANCE

High power and torque engines with the right torque curve characteristics are perfectly matched to smooth-shifting, efficient transmissions in a light, yet strong chassis, providing class leading power and payload to weight ratios, to maximize cycle speed and efficiency. The AH400-D's higher standard specification includes new wet disc, full-hydraulic activated brakes which boost braking force and decrease stopping distances, while providing unaffected performance in deep mud applications.

EVB(Engine Valve Brake) and exhaust brake as primary retarders are stronger and more efficient, and substantially contribute to strong downhill retardation. In addition, D-series has the transmission output retarder as main retarder.





PRODUCTIVITY

Hitachi machines feature high power to weight ratios, and now combined with larger payloads, more stopping power and comfortable cabs, operators will be able to produce faster cycle times, delivering more material throughout the longest shifts.



ECONOMY

Highly fuel-efficient, electronically managed diesel engines coupled to efficient planetary automatic transmissions in a light overall package deliver higher torque at lower revs where less fuel is burned. The transmission spends as much time as possible in lock-up mode to save fuel.



OFF-ROAD PERFORMANCE

Six-wheel drive ADT's perform best when they are built light, with evenly laden axles, equal torque split to each axle, high suspension travel and good ground clearance and approach angles.



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Better comfort and ease of operation boosts operator performance.

COMFORT

The all-new ROPS and FOPS steel framed operator cabins, have fewer pillars for excellent all-round vision. Inside, the soft touch, wrap around dashboard gives an automotive feel, and all controls are clustered and within easy reach.

A dedicated ADT instrument cluster provides all operational data, along with diagnostic displays and malfunction warnings.

The latest full-hydraulic orbital steering system provides smooth, low effort, vet direct steering.





SIMPLE, AUTOMATIC AND ABUSE-PROOF OPERATION

It is Hitachi's mission to provide the market with simple to operate machines, as skilled plant operators are hard to come by.

Starting with the fully automatic transmission with *touch pad shift control, automatic gear downshifts and retarder activation to the *abuse-proof CTD(Controlled Traction Diffs) differentials - operators are able to concentrate on the job at hand, while giving the owners

peace of mind from possible costly machine damage. *AH400-D / AH350-D



(AH400-D Mining Body)

LOW MAINTENANCE AND HIGH SERVICEABILITY

Extended service intervals and the use of modern, low maintenance bearing materials, long life synthetic transmission and transfer case oils have reduced the D-Series maintenance requirements.

The entire driveline, electric and hydraulic components as well as all electronics are fully accessible via easy to get to tilt bonnets and cabs, belly plates





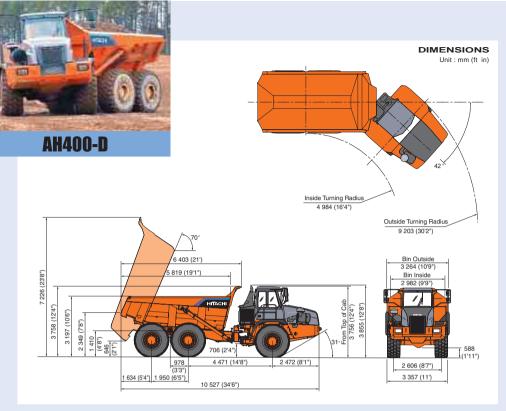


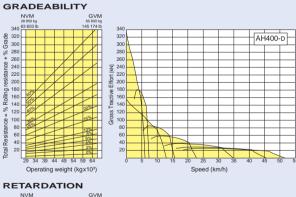


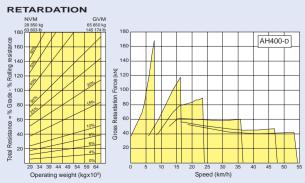


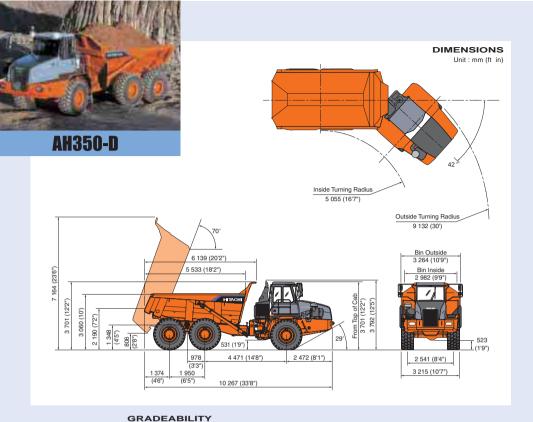


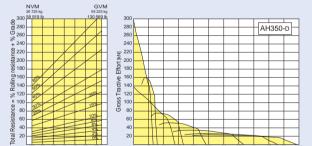


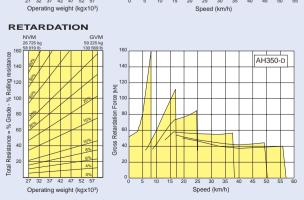


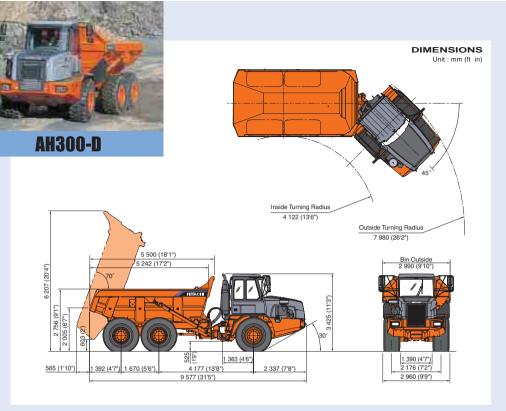


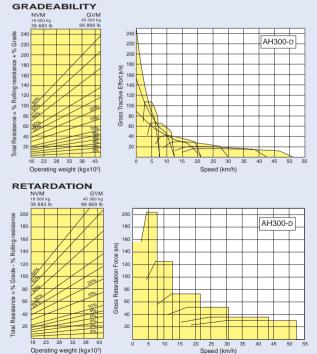


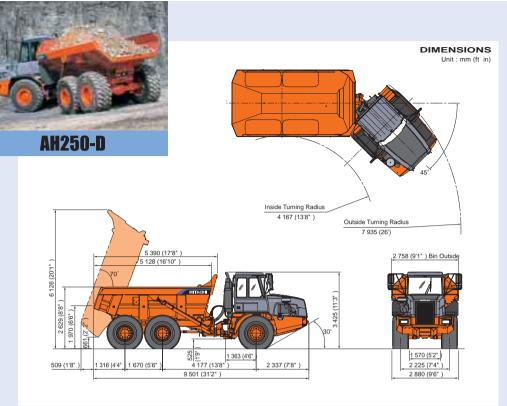


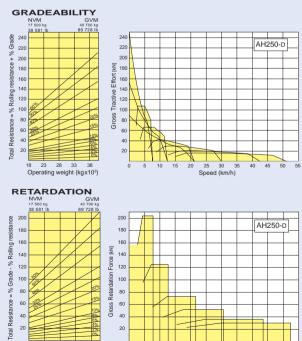












Speed (km/h)

Operating weight (kgx10³)

SPECIFICATIONS

		AH400-D	AH350-D	
		37 000 kg (81 570 lb)	32 500 kg (71 650 lb)	
D		22.5 m ³ (29.4 yd ³)	20.0 m ³ (26.2 yd ³)	
		308 kW (413 HP)	283 kW (380 HP)	
Capacity:	Struck	16.9 m ³ (22.1 yd ³)	15.2 m ³ (19.9 yd ³)	
	Heaped: SAE 2:1	22.5 m ³ (29.4 yd ³)	20.0 m ³ (26.2 yd ³)	
Rated payload		37 000 kg (81 570 lb)	32 500 kg (71 650 lb)	
Power down time		7.6 seconds		
Raise time		13 seconds		
Tipping angle		70 degrees		
		14 615 kg (32 220 lb)	13 600 kg (29 990 lb)	
	Middle	7 280 kg (16 050 lb)	6 565 kg (14 480 lb)	
	Rear	6 955 kg (15 340 lb)	6 560 kg (14 470 lb)	
	Total	28 850 kg (63 600 lb)	26 725 kg (58 920 lb)	
Laden	Front		18 510 kg (40 810 lb)	
	Middle	23 390 kg (51 570 lb)	20 360 kg (44 890 lb)	
		, , ,	20 355 kg (44 880 lb)	
			59 225 kg (130 570 lb)	
Model	Total			
		-		
	E 11340)	1 2 2	290 kW (389 HP) @ 1 800 min ⁻¹ (rpm)	
		, , , , , , , , , , , , , , , , , , , ,		
- '	1349)		283 kW (379 HP) @ 1 800 min ⁻¹ (rpm)	
			1 824 N·m (1 345 lbf·ft) @ 1 080 min ⁻¹ (rpm)	
· ·		11.95 L (730 in ³)		
	'	·		
		24V		
		2 x 105 Ah		
Alternator rating		28V 80A		
Model		Allison HD4560 with integral retarder		
Layout		Engine mounted box with rear output		
Gear layout				
Clutch type		Hydraulically operated multiple disc		
Control type		Elect	ronic	
Torque converter	layout	Hydrodynamically wi	th lock-up in all gears	
Vehicle speeds:	1st	7.4 (4.6)	7.8 (4.9)	
km/h (mph)	2nd	15.7 (9.8)	16.5 (10.3)	
	3rd	22.8 (14.3)	24.0 (15.0)	
	4th	34.8 (21.8)	36.6 (22.8)	
	5th	45.6 (28.5)	47.9 (29.9)	
	6th	52.0 (32.5)	54.4 (34.0)	
	Rear	6.3 (3.9)	6.6 (4.1)	
Output differentia		VGR 17000 / Three in-line gears. Into	eraxle 33/67 proportional differential,	
		pneumatically lockable whilst stationary or on the move.		
Differential type		25T / Spiral bevel type with 0	Controlled Traction Diffs(CTD)	
Final drive type		Outboard heavy	-duty planetary	
Service brake		Dual circuit, full hydraulic actuation oil-cooled wet disc	Dual circuit, full hydraulic actuation caliper brake:	
		brakes on front and center axle.	on all wheels.	
Park & Emergency		Spring applied, air released driveline mounted disc.		
Auxiliary brake			ust brake and Engine Valve Brake (EVB)	
	Size		26.5R25	
Max. ground pressure (laden)		Middle : 156 kPa (1.59 kqf/cm², 23 psi)		
Front type	()	Semi-independent leading A-frame supported by nitrogen/oil struts.		
		Pivoting walking beams equalize the load on each axle with laminated suspension blocks.		
Rear type		Variable displacement, loadsensing piston		
Rear type		Variable displacemen	t Inadeoneing nieton	
Pump type				
Pump type Application		Steering, tipping, hydraulic brak	e charging and cooling fan drive	
Pump type Application Angle		Steering, tipping, hydraulic brak 42° side	e charging and cooling fan drive to side	
Pump type Application	S	Steering, tipping, hydraulic brak 42° side	e charging and cooling fan drive to side .7	
	Capacity: Rated payload Power down time Raise time Tipping angle Empty Laden Model Configuration Aspiration Cooling system Gross power (SAE J Net torque Displacement Fuel tank capacity Voltage Battery capacity Alternator rating Model Layout Clutch type Control type Torque converter Vehicle speeds: km/h (mph) Output differential Differential type Final drive type Service brake Park & Emergenc Auxillary brake Tire	Capacity : Struck	Capacity Struck	

			AH300-D	AH250-D	
RATED PAYLOAD			27 300 kg (60 190 lb)	23 200 kg(51 150 lb)	
BODY CAPACITY: HEAPED			16.5 m ³ (21.6 yd ³)	13.8m ³ (18.1 yd ³)	
ENGINE NET POWER			198 kW (266 HP)	198 kW (266 HP)	
BODY	Capacity:	Struck	12.6 m ³ (16.5 yd ³)	10.5 m ³ (13.7 yd ³)	
		Heaped: SAE 2:1	16.5 m ³ (21.6 yd ³)	13.8m ³ (18.1 yd ³)	
	Rated payload		27 300 kg (60 190 lb)	23 200 kg (51 150 lb)	
	Power down time		6.0 seconds		
	Raise time		12.0 seconds		
	Tipping angle		70 de	grees	
PERATING WEIGHTS	Empty	Front	9 550 kg (21 050 lb)	9 350 kg (20 620 lb)	
		Middle	4 300 kg (9 480 lb)	4 150 kg (9 150 lb)	
		Rear	4 150 kg (9 150 lb)	4 000 kg (8 820 lb)	
		Total	18 000 kg (39 690 lb)	17 500 kg (38 580 lb)	
	Laden	Front	13 200 kg (29 100 lb)	12 400 kg (27 340 lb)	
		Middle	16 125 kg (35 550 lb)	14 225 kg (31 360 lb)	
		Rear	15 975 kg (35 220 lb)	14 075 kg (31 030 lb)	
		Total	45 300 kg (99 870 lb)	40 700 kg (89 730 lb)	
NGINE	Model		· · · · · · · · · · · · · · · · · · ·	cedesBenz OM906LA	
	Configuration		I-6 with exhaust brake and	I Engine Valve Brake (EVB)	
	Aspiration			and intercooled	
	Cooling system		Liquid cooled with single pass ra		
	Gross power (SA	E J1349)	<u> </u>	2 200 min ⁻¹ (rpm)	
	Net power (SAE			2 200 min ⁻¹ (rpm)	
	Net torque	,	1 070 N·m (788 lbf·ft) @ 1 200 - 1 600 min ⁻¹ (rpm)	970 N·m (714 lbf·ft) @ 1 050 - 1 850 min ⁻¹ (rpm)	
	Displacement		6.37 L (, , , , , , , ,	
	Fuel tank capacity	,	340 L (90 US gal)		
LECTRICAL SYSTEM	Voltage	<i>'</i>		4V	
	Battery capacity		2 x 105Ah		
	Alternator rating		28V 80A		
RANSMISSION	Model		ZF 6HP592C with integral retarder		
	Layout		Engine mounted box with rear output		
	Gear layout		Constant meshing planetary gears, clutch operated		
	Clutch type		Hydraulically operated multi disc		
	Control type		Electronic		
	Torque converter	lavout	Hydrodynamic, with lock-up in all gears		
	Vehicle speeds: 1st			(5)	
	km/h (mph)	2nd			
	KIII/II (IIIpii)	3rd	13 (8) 22 (14)		
		4th	31 (19)		
		5th		44 (27)	
		6th		(33)	
		Rear		(5)	
RANSFER BOX	Output differentia		VGR 13 100 / Three in-line helical gears,		
	output unioi oritic		pneumatically lockable while		
XLES	Differential type		18T/ Spiral bevel type with Limited Slip	15T/Spiral bevel type with Limited Slip	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Final drive type		Outboard heavy-duty planetary		
BRAKING SYSTEM	Service brake			tion caliper brakes on all wheels	
	Dork & Emorgonou				
	Park & Emergency		Spring applied, air released driveline mounted disc.		
/LIFEL C	Auxiliary brake		Transmission retarder, automatic exhaust brake and Engine Valve Brake (EVB) 23.5R25		
/HEELS	Tire	Size	23.5 Radial Ea		
	Many many d	Type			
	Max. ground pressure (laden)		Middle : 145 kPa (1.48 kgf/cm², 21 psi) Middle : 135 kPa (1.38 kgf/cm², 19.6 psi)		
LICDENCION	Front type		Semi-independent leading arm type linkages supported by nitrogen/oil struts		
USPENSION	Rear type		Pivoting walking beams equalize the load on each axle with laminated suspension blocks.		
			Variable displacement, loadsensing piston		
	Pump type		· · · · · · · · · · · · · · · · · · ·		
YDRAULIC SYSTEM	Pump type Application		Steering, tipping, hydraulic brak	e charging and cooling fan drive	
IYDRAULIC SYSTEM	Pump type Application Angle		Steering, tipping, hydraulic brak 45° side	e charging and cooling fan drive	
SUSPENSION HYDRAULIC SYSTEM STEERING SYSTEM riticulated with two double citing hydraulic cylinders PNEUMATIC SYSTEM	Pump type Application	ls	Steering, tipping, hydraulic brak	e charging and cooling fan drive t o side	

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Articulated Dump Truck D-Series



①: Standard equipment

O: Optional equipment

N/A: With no set up

STANDARD & OPTIONAL EQUIPMENT

	AH400-D	AH350-D	AH300-D	AH250-D
WHEELS AND TYRES	7	7000 2	7000	7.11.12.00
23.5 R25	N/A	N/A	0	0
26.5 R25	N/A	0	N/A	N/A
29.5 R25	0	N/A	N/A	N/A
Tyre valve guards	0	0	0	0
DRIVELINE				
Control traction differential	0	0	N/A	N/A
Limited slip differential	N/A	N/A	0	0
Inter axle differential lock	0	0	0	0
Engine valve brake (EVB)	0	0	0	0
Engine exhaust brake	0	0	0	0
Transmission Retarder	0	0	0	0
Wet disc brakes	0	N/A	N/A	N/A
Dry disc brakes	N/A	0	0	0
CHASSIS AND LOAD BODY				
STD wheel base	0	0	0	0
Mining body without liners	0	0	N/A	N/A
Body without liners	0	0	0	0
Body liners	0	0	0	0
OPERATORS STATION				
Air suspension seat	0	0	0	0
Arm Rests for Operators Seat	0	0	0	0
Lockable doors	0	0	0	0
Door hold open strut	0	0	0	0
Tinted safety glass windows	0	0	0	0
Electric rear view mirror	0	0	0	0
Seat belts ISO tested	0	0	0	0
Document pocket	0	0	0	0
Ash trays	0	0	0	0
Drinks holder	0	0	0	0
Sun visor	0	0	0	0
ROPS cab - air conditioner	0	0	0	0
Air cooled compartment	0	0	0	0
Trainer seat (ISO tested)	0	0	0	0
Cigar lighter/power point 12V	0	0	0	0
Tilt /telescopic steering column	0	0	0	0

	AH400-D	AH350-D	AH300-D	AH250-D
FUNCTION READOUTS				
Tachometer and speedo	0	0	0	0
Engine coolant temp	0	0	0	0
Engine oil press	0	0	0	0
Fuel level	0	0	0	0
Trans oil temp	0	0	0	0
Hour meter reading	0	0	0	0
Air pressure guage	0	0	0	0
Current gear readout	0	0	0	0
Trip time (min)	0	0	0	0
Trip distance (km)	0	0	0	0
Bin tip counter	0	0	0	0
Odometer	0	0	0	0
Trans lock up status	0	0	0	0
Throttle position	0	0	0	0
Retarder oil temp	0	0	0	0
Bin position	0	0	0	0
Hydraulic oil temp	0	0	0	0
Wet brake oil temp	0	N/A	N/A	N/A
GENERAL				
Antenna mounting bracket	0	0	0	0
Rear tow pin	0	0	0	0
Auto grease system	0	0	N/A	N/A
Two extra batteries	0	0	0	0
Work lights	0	0	0	0
Fuel heater	0	0	0	0
Tailgate mechanical (Auto gate)	0	0	0	0
Bin heating connection	0	0	0	0
Head light guard	0	0	0	0
CE Mark	0	0	0	0
Air horn	0	0	0	0
Emergency steering (Ground)	0	0	0	0
S/brake caliper mud scrapers	N/A	0	0	0
S/Brake caliper mud covers	N/A	0	0	0
EPA emission certified	0	0	0	0

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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