

HD320

DUMP TRUCKS



HD180-4

HD200-2

HD320-2

Gross horsepower	250 HP/2100 RPM	300 HP/2100 RPM	420 HP/2300 RPM
Net weight (unloaded)	16790 kg (37,020 lb)	18500 kg (40,780 lb)	27200 kg (59,970 lb)
Capacity:			
Struck	10.7 m ³ (14.0 cu.yd)	11.2 m ³ (14.6 cu.yd)	18 m ³ (23.5 cu.yd)
Heaped (30°)	14.2 m ³ (18.6 cu.yd)	15.2 m ³ (19.9 cu.yd)	24 m ³ (31.4 cu.yd)
Max. payload	20 U.S. tons— 18000 kg (39,680 lb)	22 U.S. tons— 20000 kg (44,090 lb)	35 U.S. tons— 32000 kg (70,550 lb)
Transmission/travel speeds	Direct Drive/F7 ~ R1	TORQFLOW/F6 ~ R1	TORQFLOW/F6 ~ R1
Turning radius	9 m (29.5 ft)	7 m (23 ft)	7 m (23 ft)
Service brakes	Air actuated, internal expanding	Air actuated, internal expanding	Air over hydraulic, internal expanding
Suspension	Leaf spring type with radius rod	Leaf spring type with radius rod and shock absorber	Hydropneumatic
Tires:			
Front	14.00-25-20 PR x 2 (tubeless)	16.00-25-24 PR x 2 (tubeless)	18.00-25-32 PR x 2
Rear	16.00-25-24 PR x 2 (tubeless)	16.00-25-24 PR x 4 (tubeless)	18.00-25-32 PR x 4
A Overall height	3300 mm (129.9")	3450 mm (135.8")	3950 mm (155.5")
B Wheelbase	4000 mm (157.5")	3750 mm (147.6")	3750 mm (147.6")
C Overall length	7295 mm (287.2")	7450 mm (293.3")	7800 mm (307.1")
Overall width	3000 mm (118.1")	3360 mm (132.3")	3670 mm (144.5")
D Loading height	2800 mm (110.2")	2650 mm (104.3")	2970 mm (116.9")
Dumping height	6100 mm (240.2")	6400 mm (252.0")	7060 mm (278.0")
E Body length	4025 mm (158.5")	4390 mm (172.8")	5020 mm (197.6")
Dumping angle	70°	65°	65°
Front tire tread	2010 mm (79.1")	2540 mm (100.0")	3150 mm (124.0")

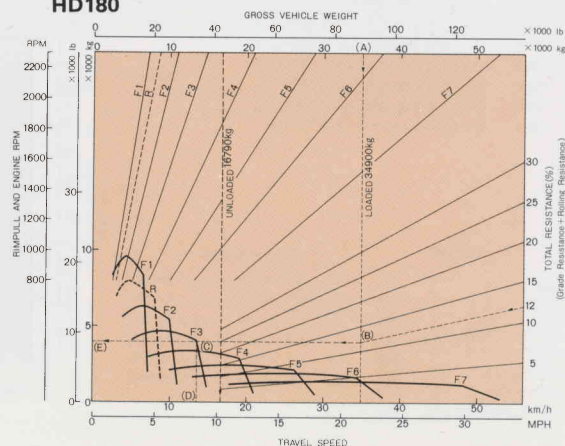
HD180

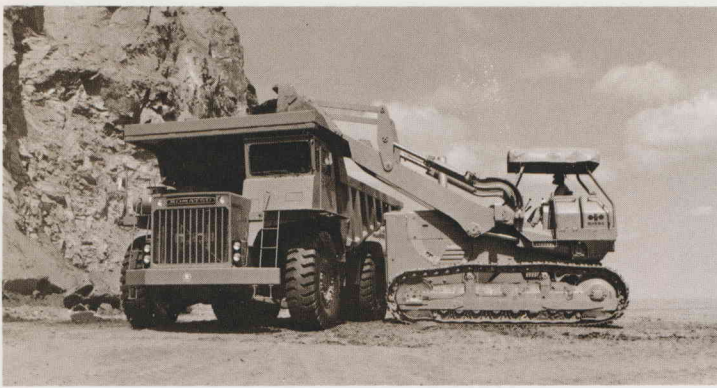
Travel Performance Curve

For assessing a vehicle's gradeability, travel speed and rimpull. To use, first draw a vertical line downward from gross vehicle weight (A) to the point (B) corresponding to total resistance (the sum of rolling resistance and grade resistance). Next, draw a horizontal line from (B) to where the line intersects the rimpull curve (C) and read (C) for rimpull. For maximum travel speed (D), draw a vertical line downward from (C) and read (D).

Example: the HD180-4 with 18-ton payload, when encountering a 12% rolling resistance, shows a rimpull of 4200 kg (9,260) and travel speed of 10 km/h (6.2 MPH) in forward 2nd gear.

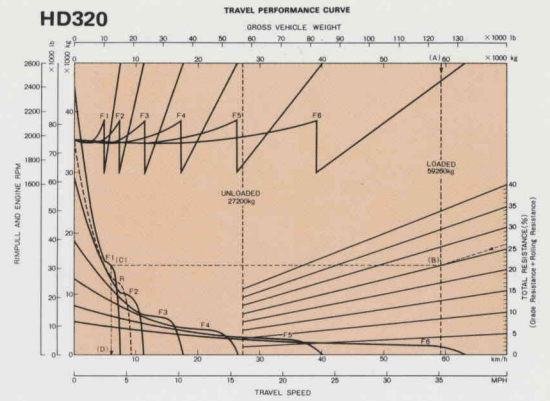
HD180



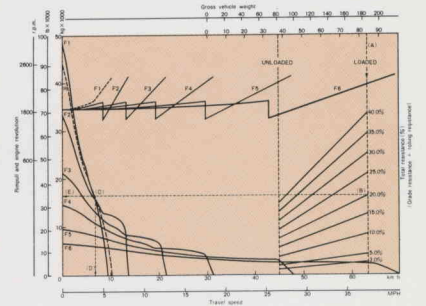


HD460

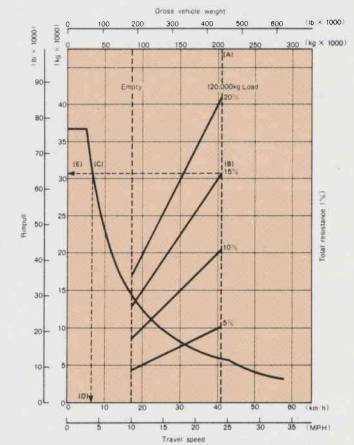
HD320



HD460



HD1200



HD460-1



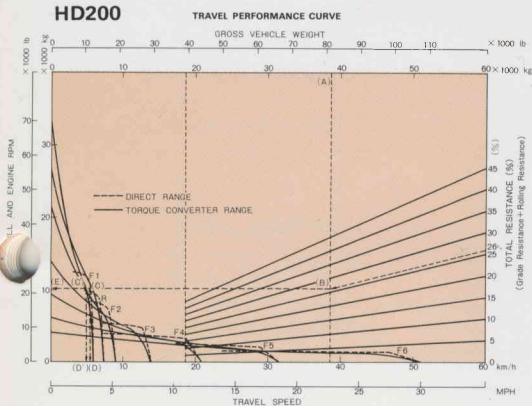
HD680-2



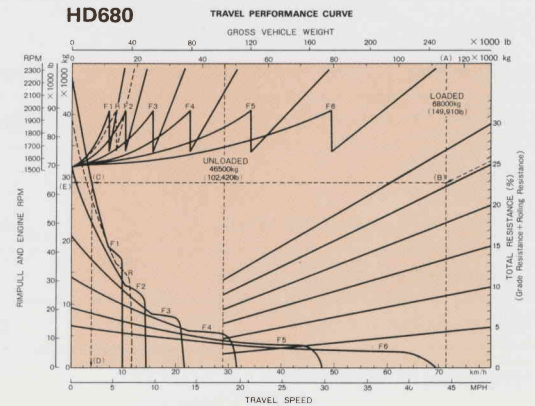
HD1200-1

HD460-1	HD680-2	HD1200-1
635 HP/2100 RPM	800 HP/2100 RPM	1200 HP/2100 RPM
37500 kg (82,690 lb)	46500 kg (102,420 lb)	84500 kg (186,300 lb)
24 m ³ (31.4 cu.yd)	32 m ³ (41.9 cu.yd)	46.1 m ³ (60.3 cu.yd)
32 m ³ (41.9 cu.yd)	44 m ³ (58 cu.yd)	70 m ³ (91.6 cu.yd)
51 U.S. tons— 46000 kg (101,430 lb)	75 U.S. tons— 68000 kg (150,000 lb)	132 U.S. tons— 120000 kg (264,000 lb)
TORQFLOW/F6 ~ R1	TORQFLOW/F6 ~ R1	Electric drive
8 m (26.2 ft)	8.8 m (28.9 ft)	10.3 m (33.8 ft)
Air over hydraulic, internal expanding	Air over hydraulic, internal expanding	Air over hydraulic, internal expanding
Hydropneumatic	Hydropneumatic	Hydropneumatic
21.00-35-32 PR x 2	24.00-35-42 PR x 2	30.00-51-46 PR x 2
21.00-35-32 PR x 2	24.00-35-42 PR x 4	30.00-51-46 PR x 4
3990 mm (157.1")	4535 mm (178.5")	4890 mm (192.5")
4260 mm (167.7")	4750 mm (187.0")	5400 mm (212.6")
8900 mm (350.4")	9790 mm (385.4")	10885 mm (428.5")
4050 mm (159.4")	4675 mm (184.1")	6300 mm (248.0")
3300 mm (129.9")	3690 mm (145.3")	4450 mm (175.2")
8260 mm (325.2")	8720 mm (343.3")	10440 mm (411.0")
6000 mm (236.2")	6600 mm (259.8")	7840 mm (308.7")
65°	65°	60.5°
3470 mm (136.6")	3840 mm (151.2")	4965 mm (195.5")

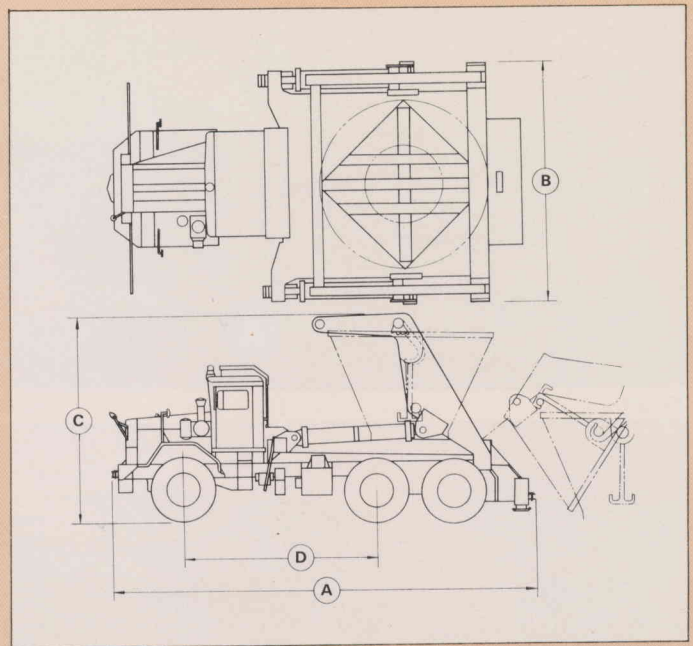
HD200



HD680



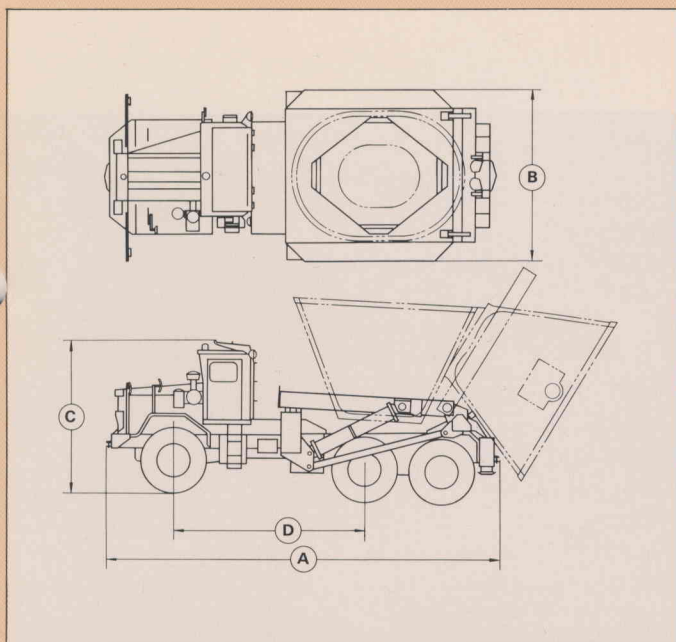
SLAG DUMP TRUCKS



Self-loading type

	HS100S	HS100N
Type	Self-loading	Crane loading
Flywheel horsepower	210 HP/2100 RPM	210 HP/2100 RPM
Net weight (unloaded)	21150 kg (46,630 lb)	17540 kg (38,670 lb)
Max. payload	20000 kg (44,090 lb)	18000 kg (39,680 lb)
Slag container capacity	5 m ³ (6.5 cu.yd)	5.5 m ³ (7.2 cu.yd)
Transmission/travel speeds	Direct Drive/F5 ~ R1	Direct Drive/F5 ~ R1
Max. travel speed	40 km/h (24.8 MPH)	40 km/h (24.8 MPH)
Turning radius	9000 mm (354.3 in)	9000 mm (354.3 in)
Dumping speed	90 sec.	90 sec.
Steering system	Power steering	Power steering
Tires:		
Front	14.00-24-20 PR x 2	14.00-24-20 PR x 2
Rear	14.00-24-20 PR x 2	14.00-24-20 PR x 4
Idle	—	—
A Overall length	7095 mm (279.3")	7095 mm (279.3")
B Overall width	4265 mm (167.9")	3050 mm (120.1")
C Overall height	3900 mm (153.5")	3200 mm (126.0")
Tread:		
Front	2000 mm (78.7")	2000 mm (78.7")
Rear	2100 mm (82.7")	2100 mm (82.7")
Wheelbase:		
D Between front and rear wheels	4000 mm (157.5")	4000 mm (157.5")
Between rear and idle wheels	—	—
Ground clearance	385 mm (15.2")	385 mm (15.2")

Note: Slag container is optional.



Crane loading type

HS150S	HS150N	HS450S
Self-loading	Crane loading	Self-loading
210 HP/2100 RPM	210 HP/2100 RPM	280 HP/2100 RPM
31650 kg (69,780 lb)	25670 kg (56,590 lb)	39500 kg (87,080 lb)
35000 kg (77,160 lb)	31000 kg (68,340 lb)	45000 kg (99,210 lb)
10.3 m ³ (13.5 cu.yd)	11 m ³ (14.4 cu.yd)	10 m ³ (13.1 cu.yd)
TORQFLOW/F1 ~ R1	TORQFLOW/F1 ~ R1	TORQFLOW/F6 ~ R1
30 km/h (18.6 MPH)	30 km/h (18.6 MPH)	45 km/h (27.9 MPH)
11000 mm (433.1 in)	11000 mm (433.1 in)	10000 mm (393.7 in)
90 sec.	90 sec.	90 sec.
Power steering	Power steering	Power steering
14.00-25-24 PR x 2	14.00-25-20 PR x 2	16.00-25-24 PR x 2
14.00-25-24 PR x 4	14.00-25-20 PR x 4	16.00-25-24 PR x 4
14.00-25-24 PR x 4	14.00-25-20 PR x 4	16.00-25-24 PR x 4
8590 mm (338.2")	8235 mm (324.2")	8800 mm (346.5")
4900 mm (192.9")	3600 mm (141.7")	3950 mm (155.5")
4300 mm (169.3")	3200 mm (126.0")	4650 mm (183.1")
2000 mm (78.7")	2000 mm (78.7")	2540 mm (99.9")
2100 mm (82.7")	2100 mm (82.7")	2030 mm (79.9")
4000 mm (157.5")	4000 mm (157.5")	3750 mm (147.6")
1600 mm (63.0")	1600 mm (63.0")	1700 mm (66.9")
380 mm (15.0")	380 mm (15.0")	350 mm (14.0")