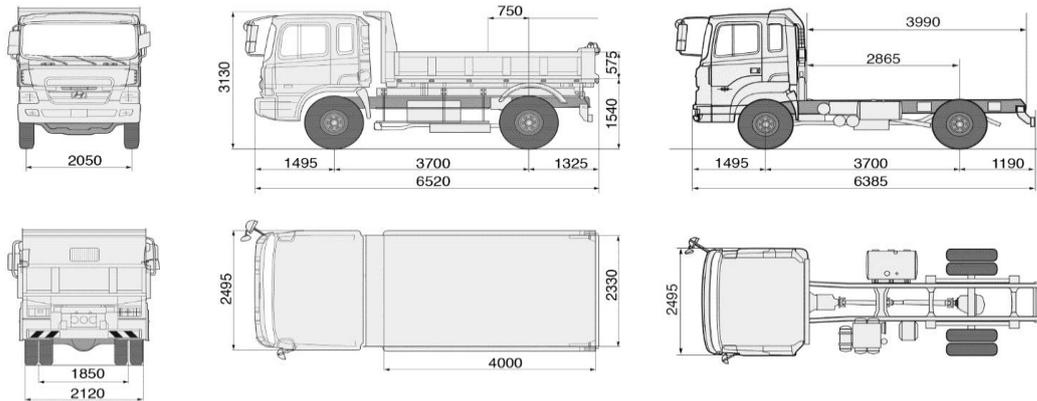


# HD170 Dump Short Wheelbase

HYUNDAI HD Series



Model	<b>HD170</b>
Vehicle Type	Dump
Cab Type	Sleeper Cab
Wheel Base	Short
Drive System	LHD, 4 x 2
Application Engines	<b>D6AV</b>

## Dimensions (mm)

Wheel Base		3,700
Overall (Dump)	Length	6,520
	Width	2,495
	Height	3,130
Wheel Tread	Front / Rear	2,050 / 1,850
Overhang (Chassis Cab)	Front	1,495
	Rear (Frame)	1,125
Deck size (inner)	Length	4,000
	Width	2,330
	Height	575
C.A (Cab to rear Axle)		2,865
C.E (Cab to end of frame)		3,990
Min. Ground Clearance		255
Min. Turning Radius	m	6.2

## Weight (kg)

Dump Weight	Front	7,510
	Rear	3,980
** Max Gross Vehicle Weight	Front	3,530
	Rear	18,800
	Front	7,000
	Rear	11,800**

\*\* Max. GVW includes the front & rear axle loads based on the tubless radial tires permissible load.

## Chassis Specifications

### Engine

Engine		<b>D6AV</b>
Type		Natural Aspiration 4 stroke-cycle, water-cooled, direct-injection diesel engine
Number of Cylinder		6 in-line
Piston Displacement (cc)		11,149
Bore x Stroke (mm)		130 x 140
Compression Ratio		17.5 : 1
Max. Power** (ps/rpm)	Eurol	220 / 2,200
Max. Torque ** (kg.m/rpm)	Eurol	75 / 1,400
Cooling System	General	Pressure type with thermostat , Forced circulation by centrifugal water pump
	Radiator	Corrugated fin type with pressure cap and condenser tank
	Battery	12V x 2, 150 AH at 20 Hr rates
Electrical System	Alternator	24V-60A
	Starter	24V-5.5kW
	Injection pump	in-line type
Fuel System	Governor	Min-max Speed(RFD)
	Fuel filter	Spin-on type
	Lubrication	Forced lubrication by gear pump
Oil System	Oil filter	Combination (Full flow and bypass) filter with paper element
	Oil cooler	Water cooled, plate fin type
	Oil grade	API service classification CF-4 or above
Air cleaner		Cyclonic dry paper element
Valve System		Single Overhead Valve, Two valves per cylinder

\*\* Max. Power and Torque of engine may vary according to each country.

### Clutch

Engine		<b>D6AV</b>
Type		Hydraulic control with Air pressure assistance, Coil spring, Single dry plate, Pre-Damper
Facing Material		Non-Asbestos
Facing Size (mm) : Outside dia x Inside dia		ø410x ø250

**HYUNDAI HD Series\_HD170 Dump**

**Transmission**

Model		D6AV
Type		M855 (Direct Drive)
		5 forward and 1 reverse speed 2nd to 5th synchromesh 1st & reverse constant-mesh gears
	1st	5.431
	2nd	3.436
	3rd	1.747
Gear Ratio	4th	1.000
	5th	0.741
	6th	-
	Reverse	5.677
Gear Oil		API service classification GL-4 or SAE service classification 80W (90 ;Tropical zones only)
T.G.S. (Transmission Gear Shift)		Floor shift, Mechanical remote control

**Rear Axle**

Type		Full floating type
Capacity	kg	11,800
Final Reduction Gear	Type	Single Reduction, Hypoid gear
	G/Ratio	6.166

**Front Axle**

Type		Reverse Elliot type " I " beam
Capacity	kg	7

**Tire & Wheel**

Type		Single Front, Dual Rear
Tire	Front / Rear	12R 22.5 - 16PR
Wheel	Front / Rear	8.25T x 22.5-165

**Steering**

Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column
Tilting Angle		9 °
Turning Angle	Inner	49 °
	Outer	39 °

**Suspension**

Type	Front	Taper leaf
	Rear	Semi-elliptic , laminated leaf springs with shackle link (Multi leaf spring)
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles

## HYUNDAI HD Series\_HD170 Dump

### Service Brake

Engine		<b>D6AV</b>
Actuation		Full Air, Dual circuit fixed S camwith spring loaded chambers
Size (mm)	Front	ø410 x 156 x 19
	Rear	ø410 x 220 x 19
Total lining area		6,081cm <sup>2</sup>

### Parking Brake

Actuation		Spring loaded type chamber on the rear wheel
Size (mm)		Drum diameter x Lining width x Lining thickness : ø410 x 220 x 19
Total lining area		3,558cm <sup>2</sup>

### Exhaust Brake

Type		Air operated, butterfly valve type
------	--	------------------------------------

### Exhaust system

General		Conventional (horizontal) type muffler
Tail pipe		Droptail type, blowing to chassis rearward

### Fuel tank

Capacity		200 liter
Material		Steel (STD), Aluminum (OPT)

### Frame

Type		"H" type frame with channel sectional side rail & cross members
Main section side rail dimension (mm)		302 x 90 x 8t

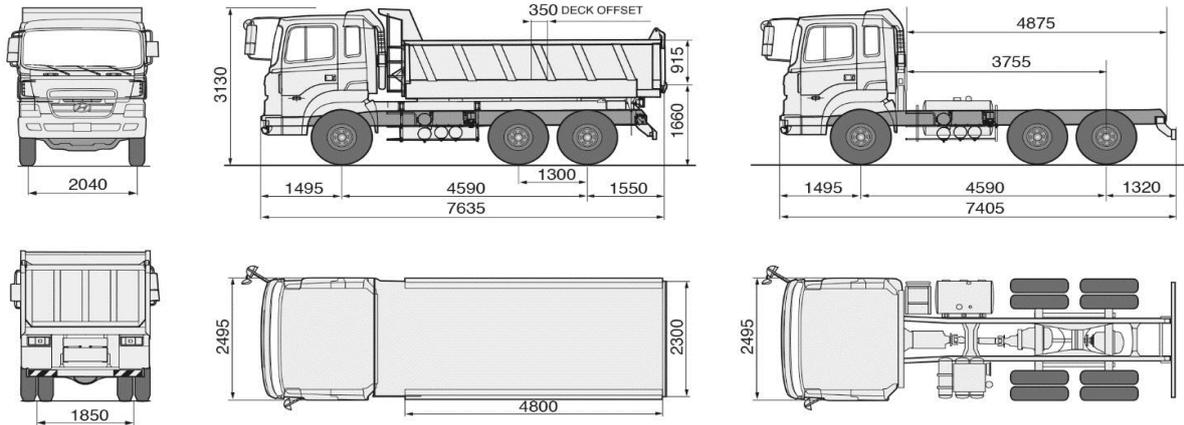
## Annotations

- 1) Empty vehicle weight shown are to 3.5% variation to allow for production tolerance.
- 2) Empty vehicle weight includes weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set
- 3) The vehicle specifications may differ per country.
- 4) For further information please contact the commercial vehicle export teams of HMC.
- 5) In order that product improvement may be introduced at any time, specifications are subject to change without prior notice.

### **81 \_Hyundai Commercial Vehicle SPECIFICATIONS**

# HD270 Dump Short Wheelbase

HYUNDAI HD Series

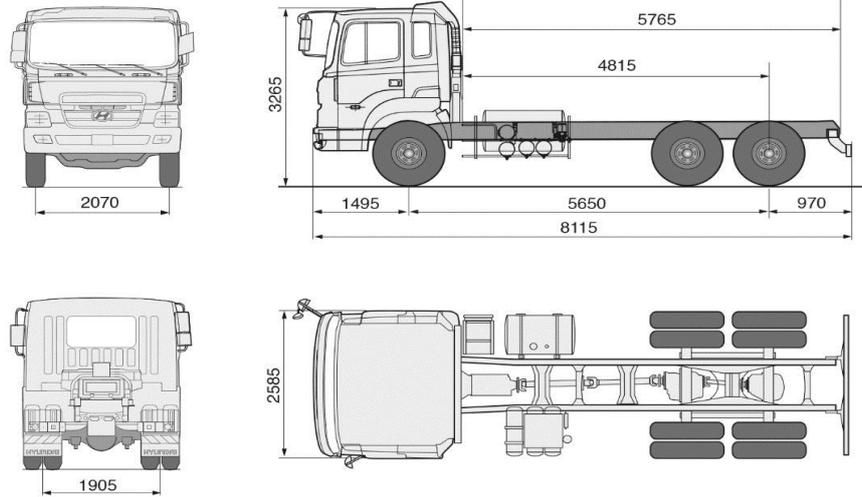


Model		HD270	
Vehicle Type		Dump	
Cab Type		Sleeper Cab	
Wheel Base		Short	
Drive System		LHD, 6 x 4	
Application Engines		D6AC	D6CA38
<b>Dimensions (mm)</b>			
Wheel Base		4,590 (3,290 + 1,300)	
Overall (Dump)	Length	7,635	
	Width	2,495	
	Height	3,130	
Wheel Tread	Front / Rear	2,040 / 1,850	
	Front	1,495	
Overhang (Chassis Cab)	Rear (Frame)	1,120	
	Length	4,840	
Deck size (inner)	Width	2,300	
	Height	905	
	C.A (Cab to rear Axle)	3,755	
C.E (Cab to end of frame)		4,875	
Min. Ground Clearance		260	
Min. Turning Radius	m	7.5	
<b>Weight (kg)</b>			
Chassis Cab Weight (Dump Weight)	Front	8,660 (11,060)	8,840 (11,240)
	Rear	4,560 (4,815)	4,760 (5,015)
** Max Gross Vehicle Weight			32,200
	Front		7,000
	Rear		25,200

\*\* Max. GVW includes the front & rear axle loads based on the permissible tire load.

# HD370S Dump Short Wheelbase

HYUNDAI HD Series



		HD370S	
Model		HD370S	
Vehicle Type		Dump	
Cab Type		Sleeper Cab	
Wheel Base		Short	
Drive System		LHD, 6 x 4	
Application Engines		D6AC	D6CA41
Dimensions (mm)			
Wheel Base		5,650 (4,350 + 1,300)	
Overall (Chassis Cab)	Length	8,115	
	Width	2,585	
	Height	3,265	
Wheel Tread	Front/ Rear	2,070 / 1,905	
Overhang (Chassis Cab)	Front	1,495	
	Rear (Frame)	950	
C.A (Cab to rear Axle)		4,815	
C.E (Cab to end of frame)		5,765	
Min. Ground Clearance		325	
Min. Turning Radius		m 9.6	
Weight (kg)			
Chassis Cab Weight		9,630	9,735
(Dump Weight)	Front	4,480	4,585
	Rear	5,150	5,150
** Max Gross Vehicle Weight		38,000	
		Front	8,000
		Rear	30,000

\*\* Max. GVW includes the front & rear axle loads based on the permissible tire load.

**Chassis Specifications**

**Engine**

Engine		D6AC	D6CA38	D6CA41
Type		4 stroke-cycle, water-cooled, direct-injection diesel engine		
Number of Cylinder			Turbo Charger Intercooler 6 in-line	
Piston Displacement (cc)		11,149		12,920
Bore x Stroke (mm)		130 x 140		133 x 155
Compression Ratio		16.5 : 1		17 : 1
Max. Power** (ps/rpm)	EuroI	340 / 2,200		-
Max. Torque ** (kg.m/rpm)	EuroII	320 / 2,000	380 / 1,900	410 / 1,900
	EuroI	140 / 1,400	-	-
	EuroII	137 / 1,400	148 / 1,500	188 / 1,500
Cooling System	General	Pressure type with thermostat, Forced circulation by centrifugal water pump		
	Radiator	Corrugated fin type with pressure cap and condenser tank		
	Battery	12V x 2, 150 AH at 20 Hr rates		
Electrical System	Alternator	24V-60A		24V-80A
	Starter	24V-5.5kW		24V-6.0kW
	Injection pump	in-line type		EUI system
Fuel System	Governor	All Speed type		Electronic Control
	Fuel filter		Spin-on type	
	Lubrication		Forced lubrication by gear pump	
Oil System	Oil filter		Full flow and bypass type with paper element	
	Oil cooler		Water cooled, plate fin type	
	Oil grade		API service classification CF-4 or above	
Valve System			Single Overhead Valve, Two valves per cylinder	

\*\* Max. Power and Torque of engine may vary according to each country.

**Clutch**

Type	Hydraulic control with Air pressure assistance, Diaphragm spring, Single dry plate, Pre-Damper
Facing Material	Non-Asbestos
Facing Size (mm) Outside dia x Inside dia	ø430 x ø242

**HYUNDAI HD Series\_HD270/370S Dump**

**Transmission**

Application Engines		D6AC	D6CA38	D6CA41	
T/M Application	M12S6	•	•		
• : STD	H160S6				
o : OPT	H160S 2X5 ZF 16S151	o		•	
Model type		<b>M12S6</b>	<b>H160S6</b>	<b>H160S6 2X5</b>	<b>ZF16S151</b>
Type		6 forward and 1 reverse speed 2nd to 6th synchromes 1st & reverse constant-mesh gears		10 forward and 2 reverse speed, 1st to 16th synchromesh, reverse constant-mesh gears	16 forward and 2 reverse speed, 1st to 16th synchromesh, reverse constant-mesh gears
Gear Ratio	1st		7.213	9.153 / 7.145	13.8 / 11.54
	2nd		4.178	4.783 / 3.733	9.49 / 7.93
	3rd		2.587	4.765 / 2.158	6.35 / 5.46
	4th		1.621	1.666 / 1.301	4.57 / 3.82
	5th		1.000	1.000 / 0.780	3.02 / 2.53
	6th		0.702	-	2.08 / 1.74
	7th		-	-	1.43 / 1.20
	8th		-	-	1.00 / 0.84
	Reverse		7.081	8.105 / 6.327	12.92 / 10.80
Gear Oil		API service classification GL-4 or SAE service classification 80W (90 ; Tropical zones only)			
T.G.S. (Transmission Gear Shift)		Floor shift, Mechanical remote control			

**Rear Axle**

Type		Full floating type		
Capacity	kg	13,000 x 2	11,800 x 2	15,000 x 2
Final Reduction Gear	Type	Single Reduction, Hypoid gear		HUB Reduction, Hypoid gear
	G/Ratio	6.166		6.676

**Front Axle**

Type		Reverse Elliot type "I" beam	
Capacity	kg	7,000	8,000

**Tire & Wheel**

Type		Single Front, Dual Rear	
Tire	Front / Rear	12R 22.5 - 16PR	12.00R24-20PR
Wheel	Front / Rear	8.25T x 22.5-165	8.5V x 24-158 / 8.5V x 24-180

**Steering**

Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column	
Tilting Angle		9 °	
Turning Angle	Inner	49 °	
	Outer	39 °	

HYUNDAI HD Series\_HD270/370S Dump

**Service Brake**

Engine	D6AC	D6CA38	D6CA41
Actuation	Full Air, Dual circuit fixed S cam with spring loaded chambers		
Size (mm)	Front	ø410 x 156 x 19	
	Rear	ø410 x 220 x 19	
Total lining area	9,639cm <sup>2</sup>		

**Parking Brake**

Actuation	Spring loaded type chamber on the rear wheel		
Size (mm)	Front	Drum diameter x Lining width x Lining thickness : 0410 x 156 x 19	
	Rear forward	Drum diameter x Lining width x Lining thickness : 0410 x 220 x 19	
	Rear backward	Drum diameter x Lining width x Lining thickness : 0410 x 220 x 19	
Total lining area	7,116cm <sup>2</sup>	9.639cm <sup>2</sup>	

**Exhaust Brake**

Type	Air operated, butterfly valve type
------	------------------------------------

**Jake brake**

Type	-	Injection Cam operated type
------	---	-----------------------------

**Suspension**

Type	Front	Semi-elliptic, parabolic leaf springs with shackle link (Multi/Taper leaf spring)
	Rear	Semi-elliptic, laminated leaf springs with shackle link (Multi leaf spring)
Shock absorber	Hydraulic double acting telescopic type on the front axle	

**Exhaust system**

General	Conventional (horizontal) type muffler
Tail pipe	Droptail type, blowing to chassis rearward

**Fuel tank**

Capacity	400 liter (STD), 380 liter (OPT)
Material	Steel (STD), Aluminum (OPT)

**Frame**

Type	"H" type frame with channel sectional side rail & cross members, side rail is reinforced with outer stiffeners	
Main side rail (mm)	Depth x Flange x Thickness : 302 x 90 x 8t	
Outer Stiffener (mm)	Depth x Flange x Thickness : 316 x 97 x 7t	

## Annotations

- 1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.
- 2) Empty vehicle weight and curb weight include weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set.
- 3) The vehicle specifications may differ per country.
- 4) For further information please contact the commercial vehicle export teams of HMC.
- 5) In order that product improvement may be introduced at any time, specifications are subject to change without prior notice.