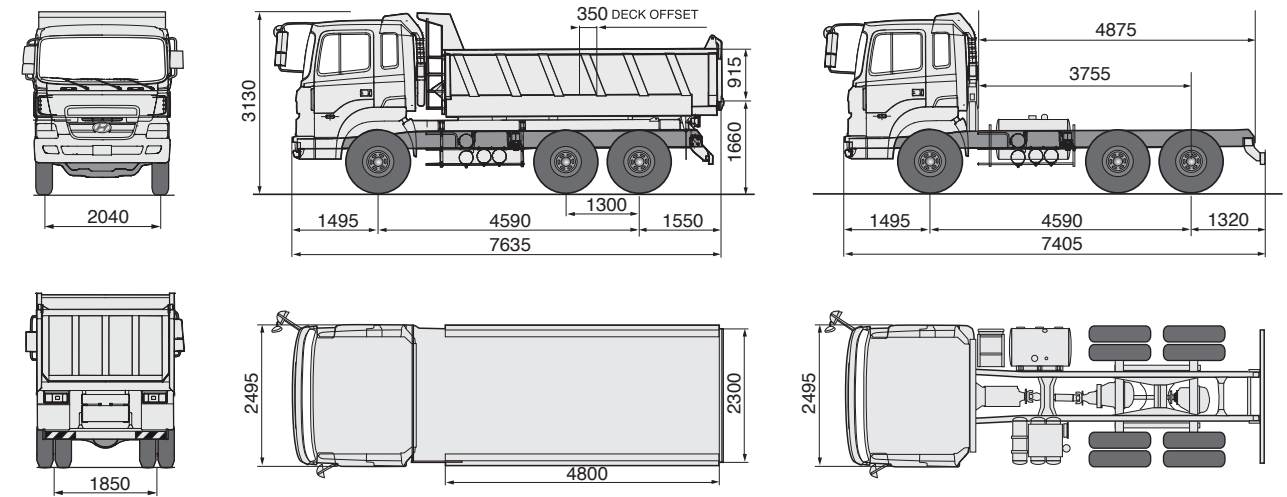


# Hyundai Commercial Vehicle **SPECIFICATIONS**



# HD270 Dump Short Wheelbase

HYUNDAI HD Series



Model	HD270	
Vehicle Type	Dump	
Cab Type	Sleeper Cab	
Deck Height	High	
Wheel Base	Short	
Drive System	LHD, 6 x 4	
Application Engines	D6AC	D6CA38

### Dimensions (mm)

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
Overhang (Chassis Cab)	Front	1,495
	Rear (Frame)	1,120
Deck size (inner)	Length	4,840
	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

### Weight (kg)

Chassis Cab Weight	8,660 (11,060)		8,840 (11,240)	
(Dump Weight)	Front	4,560 (4,815)	4,760 (5,015)	
	Rear	4,100 (6,245)	4,780 (6,225)	
** 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

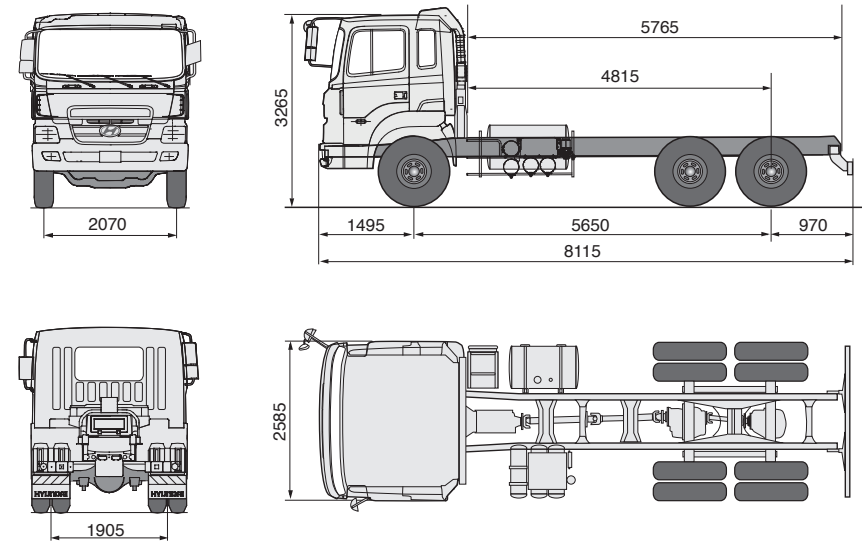
Cargo

Dump(HD270/370S)

Mixer

Tractor

BareChassis



Model	HD370S	
Vehicle Type	Dump	
Cab Type	Sleeper Cab	
Deck Height	High	
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)	
C.A (Cab to rear Axle)	Front	1,495
	Rear (Frame)	950
C.E (Cab to end of frame)	4,815	
Min. Ground Clearance	5,765	
Min. Turning Radius	m	325
		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.

## Calculated Performance

Model		HD270		HD370S	
Application Engines		D6AC	D6CA38	D6AC	D6CA41
Max. Speed	km/h	100	90	113	86
Max. Gradeability	tanθ	0.248	0.286	0.265	0.335

## Chassis Specifications

### Engine

Engine		D6AC	D6CA38	D6CA41
Type	Turbo Charger Intercooler 4 stroke-cycle, water-cooled, direct-injection diesel engine			
Number of Cylinder	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)	Euro I	340 / 2,200		-
	Euro II	320 / 2,000		380 / 1,900
Max. Torque ** (kg.m/rpm)	Euro I	140 / 1,400		-
	Euro II	137 / 1,400		148 / 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		
Electrical System	Battery	12V x 2, 150 AH at 20 Hr rates		
	Alternator	24V-60A		24V-80A
Fuel System	Starter	24V-5.5kW		24V-6.0kW
	Injection pump	in-line type		EUI system
	Governor	All Speed type		Electronic Control
Oil System	Fuel filter	Spin-on type		
	Lubrication	Forced lubrication by gear pump		
	Oil filter	Full flow and bypass type with paper element		
	Oil cooler	Water cooled, plate fin type		
Valve System	API service classification CF-4 or above			
	Single Overhead Valve, Two valves per cylinder			

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

### Clutch

Engine		D6AC	D6CA38	D6CA41
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			

### Transmission

Application Engines		D6AC	D6CA38	D6CA41
T/M Application ●: STD ○: OPT	M12S6	●		
	H160S6		●	
	H160S 2X5	○		
	ZF 16S151			●

Model type		M12S6	H160S6	H160S6 2X5	ZF16S151
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			

### Propellershaft

		D6AC	D6CA38	D6CA41
Model		S1810	UJ250	
Type		Tubular, Forged steel ends		
Size (Tube diameter x Thickness)		ø114.3 x 6.6t	ø120 x 6.6t	

### Rear Axle

Model		D12HT	D10HT- II	THR20ST
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
Gear Oil		API service classification GL5 and SAE service classification 80W/90 (85W/140 : Tropical zones only)		

### 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	
Steering Wheel Diameter (mm)		500	
Tilting Angle		9 °	
Telescopic Stroke (mm)		50	
Overall Steering Gear Ratio		20.2	
Turning Angle	Inner	49 °	
	Outer	39 °	

### 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		
Compressed air reservoir		120 ℓ		
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 : ø410 x 156 x 19 Rear forward : Drum diameter x Lining width x Lining thickness : ø410 x 220 x 19 Rear backWard : Drum diameter x Lining width x Lining thickness : ø410 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	
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### Jake brake

Type	-	Injection Cam operated type
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### 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)	
Spring Size (Length x Width x Thickness- Number of leaves)	Front	1,500 x 90 x 13t-9	
	Rear	Main	1,480 x 90 x (20t-3 & 18t-8)
		Helper	-
Shock absorber		Hydraulic double acting telescopic type on the front axle	

### Cooling system

Radiator		Corrugated fin type & condense tank	
Rows of tubes	3		2
	Core size (mm)		730 x 810 x 66
Cooling Fan		Auto clutched type viscos fan	

### Air intake system

General		Snorkel type at the rear of cab (right or left side)	
Air cleaner type		Dry Paper type	
Air cleaner position		At the rear of cab (right or left side)	

### 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	

## Electrical system

### Electrical Equipments

Model	HD270	HD370S
Head lamps	Semi sealed beam (Projection beam : D6CB Engine)	
Front combination lamps	Turn signal / Hazard-Amber, Position-White	
Fog lamps	Yellow / White(D6CB)	
Rear combination lamps	Turn Signal / Hazard-Amber, Tail / Stop- Red	
License plate lamp	White	
Back-up lamp	White	

### Electrical system

Meter Cluster	Fixed type
Meter	Speedometer with odometer / Air & Oil Pressure / Voltage / Tachometer / Fuel / Water temperature gauges
Warning lamps & indicators	Turn signals & Hazard / Parking brake / Oil pressure with buzzer / Door opening / Charging / Main Beam / Cab Tilt Lock with buzzer / Seat Belt / Exhaust Brake / Preheating / Overheat, Coolant level with buzzer / Brake air with buzzer
Horn	Dual, electric flat type

## Body

### Cab

Type	Manual-Hydraulic type cab tilting (Electric-Hydraulic type : OPT), all steel welded construction with safety zone design
Mounting	Coil Spring type Full Floating cab (Air Spring type : OPT)
Windshield	One piece type with laminated glass
Windshield Wipers	Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat	Spring & Urethane foam cushioned / reclining, sliding & height adjuster at the front & rear, Vinyl material
Passenger's seat	Spring & Urethane foam cushioned, Vinyl material

### Body type

General	Steel structure
Dump Volume	10m <sup>3</sup> (Length x Width x Height : 4,840 x 2,300 x 906)
Dumping Mechanism	Original Marrel
Dumping Angle	53 °

## 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.