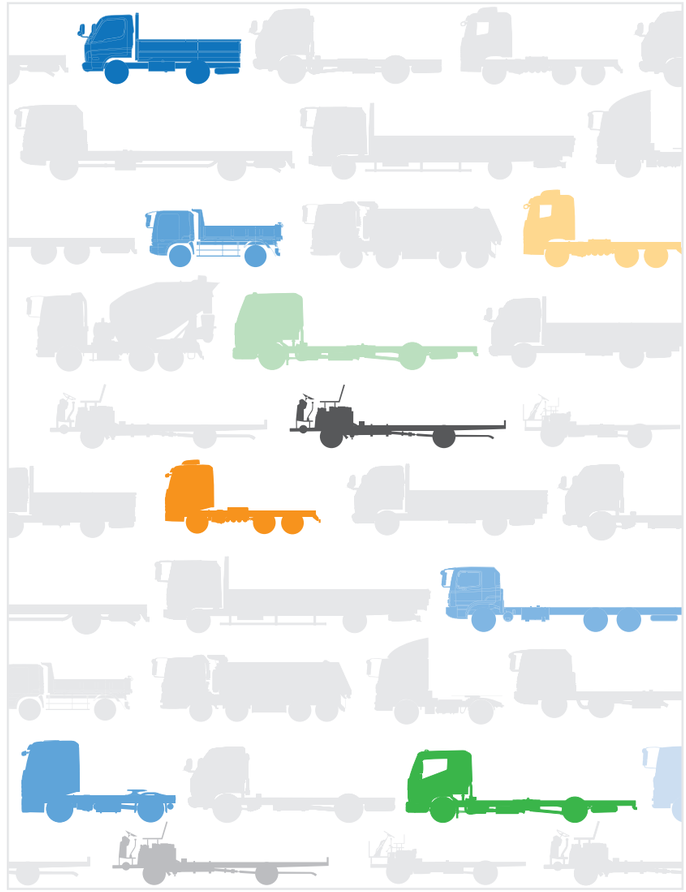


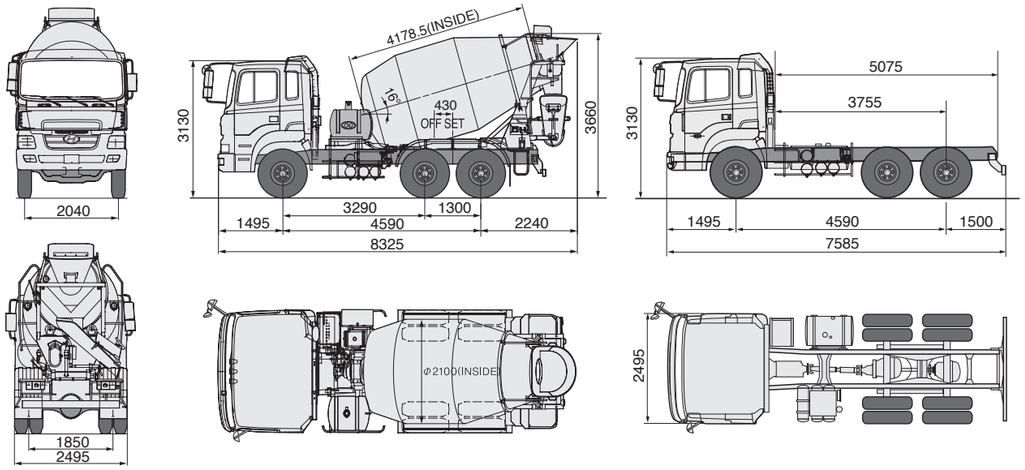
Hyundai Commercial Vehicle
SPECIFICATIONS

HYUNDAI

Hyundai Motor Company
http://worldwide.hyundai.com / 1612 ENG. /

HD270 Mixer Short Wheelbase

HYUNDAI HD Series

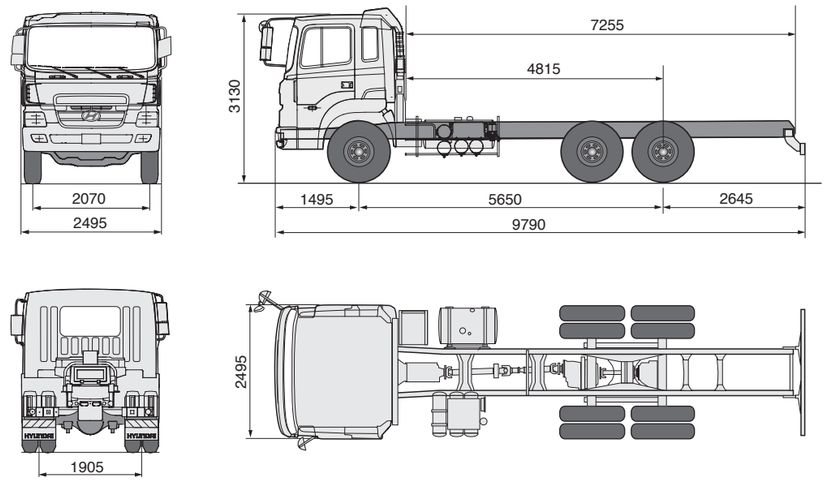


Model		HD270
Vehicle Type		Mixer
Cab Type		Sleeper Cab
Deck Height		High
Wheel Base		Short
Drive System		LHD, 6 x 4
Application Engines		**D6CA38**
Dimensions (mm)		
Wheel Base		4,590
Overall (Mixer)	Length	8,310
	Width	2,495
	Height	3,660
Wheel Tread	Front / Rear	2,040 / 1,850
Overhang (Mixer)	Front / Rear	1,495 / 2,240
Overhang (Chassis Cab)	Front / Rear	1,495 / 1,320
Drum	Length	4178.5
	Diameter	ø2,100
	Agitating Capacity	7㎥
Drum Offset		470
C.A (Cab to rear Axle)		3,755
C.E (Cab to end of frame)		5,075
Min. Ground Clearance		285
Min. Turning Radius	m	7.5
Weight (kg)		
Mixer Weight		11,640
	Front	4,445
	Rear	7,195
** 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 Mixer Short Wheelbase

HYUNDAI HD Series



Model		HD370S
Vehicle Type		Mixer
Cab Type		Sleeper Cab
Deck Height		High
Wheel Base		Short
Drive System		LHD, 6 x 4
Application Engines		**D6CA38**
Dimensions (mm)		
Wheel Base		5,650
Overall	Length	8,115
	Width	2,585
	Height	3,265
Wheel Tread	Front	2,070
	Rear	1,905
Overhang (Chassis Cab)	Front	1,420
	Rear (Frame)	2,440
C.A (Cab to rear Axle)		4,815
C.E (Cab to end of frame)		7,255
Min. Ground Clearance		325
Min. Turning Radius	m	9.6
Weight (kg)		
Chassis Cab Weight		9,630
	Front	4,480
	Rear	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		D6CA38	
Max. Speed	km/h	101	115 / 99(ZF)
Max. Gradeability	tanΘ	0.267	0.339 / 0.657

Chassis Specifications

Engine

Model		HD270	HD370S
Engine		D6CA38	
Type		Turbo Charger Intercooler	
		4 stroke-cycle, water-cooled, direct-injection diesel engine	
Number of Cylinder		6 in-line	
Piston Displacement (cc)		12,920	
Bore x Stroke (mm)		133 x 155	
Compression Ratio		17 : 1	
Max. Power** (ps/rpm)	Euro II	380 / 1,900	
	Euro III	-	
	Euro IV	-	
Max. Torque ** (kg.m/rpm)	Euro II	148 / 1,500	
	Euro III	-	
	Euro IV	-	
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-80A	
	Starter	24V-6.0kW	
Fuel System	Injection pump	Delphi EUI system	
	Governor	Electronic Control	
	Fuel filter	Spin-on type	
Oil System	Lubrication	Forced lubrication by gear pump	
	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

	HD270	HD370S
Engine	D6CA38	
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

Model		HD270	HD370S
Application Engines		D6CA38	
T/M Application ●: STD ○: OPT	M12S26	●	●
	H160S 2X5	○	
	ZF16S151		○

Model		M12S6 (Over Drive)	H160S 2x5	ZF16S151
Type		6 forward and 1 reverse speed, 2nd to 6th synchromesh, 1st & reverse constant-mesh gears	10 forward and 2 reverse speed, 2nd to 10th synchromesh, 1st & reverse constant-mesh gears	16 forward and 2 reverse speed, 1nd to 16th synchromesh, reverse constant-mesh gears
Gear Ratio	1st (High / Low)	7.213	9.153 / 7.145	13.8 / 11.54
	2nd (High / Low)	4.178	4.783 / 3.733	9.49 / 7.93
	3rd (High / Low)	2.587	2.765 / 2.158	6.35 / 5.46
	4th (High / Low)	1.621	1.666 / 1.301	4.57 / 3.82
	5th (High / Low)	1.000	1.000 / 0.780	3.02 / 2.53
	6th (High / Low)	0.702	-	2.08 / 1.74
	7th (High / Low)	-	-	1.43 / 1.20
	8th (High / Low)	-	-	1.000 / 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

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

Rear Axle

Model		D10HT	THR20ST
Type		Full floating type	
Capacity	kg	11,800 x 2	15,000 x 2
Final Reduction Gear	Type	Single Reduction, Hypoid gear	HUB Reduction, Hypoid gear
	G/Ratio	5.571	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 °
Turning Angle Outer	35 °

Service Brake

Model		HD270	HD370S
Engine		D6CA38	
Actuation		Full Air, Dual circuit fixed S cam with spring loaded chambers	
Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ø410 x 156 x 19	
	Rear	Drum dia. x Lining width x Lining thickness : ø410 x 220 x 19	
Compressed air reservoir		120ℓ	
Total lining area		9,639㎠	

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	7,166㎠

Exhaust Brake

Type	Air operated, butterfly valve type

Jake brake (Optional)

Type	Injection Cam operated type

Suspension

Type			Semi-elliptic, laminated leaf springs	Multi-Leaf
	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	1,500 x 90 x 13 t - 11
	Rear	Main	1,480 x 90 x (20 t - 3 & 18t - 8)	1,480 x 90 x 22 t - 12
Shock absorber			Hydraulic double acting telescopic type on the front axle	

Cooling system

Radiator		Corrugated fin type & condense tank	
	Rows of tubes	3	4
	Core size (mm)	Width x Height x Thickness : 730 x 810 x 66	729.5 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	200 liter	300, 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)	
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	

Instruments

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	Turn signals & Hazard / Parking brake / Oil Pressure with buzzer / Door opening / Charging / Main Tili Lock with buzzer / Seat belt / Exhaust brake / Preheating Overheat, Coolant level with buzzer / Brake air with buzzer
Horn	Dual, electric flat type	Dual-electric type, Single-air type(opt)

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		Direct drive, conical drum with dual spring blades
Total Volume of drum		11.0㎥
Slope angle of drum		16 °
Rotation speed of drum	Agitating	2 ~ 4 rpm
	Discharging	1 ~ 14 rpm
Power Take Off device		Fly wheel PTO

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.