

HyundaiCommercialVehicle
SPECIFICATIONS
HYUNDAI CARGO TRUCK
HD120



HYUNDAI CARGO TRUCK**HD120****➡ 1. Dimension, Weights Specification**

ITEM \ MODEL	HD120							
Vehicle Type	Cargo							
Cab Type	Sleeper Cab							
Deck Height	High Deck							
Wheel Base	Short		Long			Extra Long		
Drive System	LHD , 4 x 2							
Application Engines	D6BR	D6DA19	D6BR	D6DA19	D6DA22	D6BR	D6DA19	D6DA22

Dimensions (mm)

Wheel Base		3,795		4,260		4,895		
Overall (Cargo)	Length	6,970		7,670		8,620		
	Width	2,400		2,400		2,400		
	Height	2,505		2,505		2,505		
Overall (C/Cab)	Length	6,660		7,360		8,310		
	Width	2,400		←		←		
	Height	2,430		←		←		
Wheel Tread	Front	1,795		1,795		1,795		
	Rear	1,660		1,660		1,660		
Overhang (Cargo)	Front	1,245		1,245		1,245		
	Rear	1,930		2,165		2,480		
Overhang (C/Cab)	Front	1,245		1,245		1,245		
	Rear	1,620		1,855		2,170		
Deck size (inner)	Length	4,600		5,300		6,250		
	Width	2,280		2,280		2,280		
	Height	400		400		400		
Body Offset		470		585		745		
Min. Ground Clearance		210		210		210		

Weight (kg)

Empty Vehicle Weight (Cargo)		4,300	4,545	4,715	4,980	5,010	4,790	5,100	5,130
	Front	2,420	2,535	2,555	2,690	2,705	2,605	2,770	2,785
	Rear	1,880	2,010	2,160	2,290	2,305	2,185	2,330	2,345
Chassis Cab Weight		3,570	3,815	3,715	3,980	4,010	3,760	4,070	4,100
	Front	2,270	2,385	2,375	2,510	2,525	2,435	2,600	2,615
	Rear	1,300	1,430	1,340	1,470	1,485	1,325	1,470	1,485
Max. Gross Vehicle Weight **		12,520							
	Front	3,720							
	Rear	8,800							

2. Performance Specification

ITEM	MODEL	HD120							
Application Engines		D6BR	D6DA19	D6BR	D6DA19	D6DA22	D6BR	D6DA19	D6DA22
Calculated Performance									
Max. Speed	km/h	117	123	117	123	132	117	123	132
Max. Gradeability	$\tan \theta$	0.475	0.406	0.457	0.392	0.364	0.447	0.385	0.364
Min. Turning Radius	m	6.3		7.3			8.2		

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

3. Chassis Specification

ITEM		MODEL	HD120	
Engine				
Model		D6BR	D6DA19	D6DA22
Type		Natural Aspiration	Turbo Charger Intercooler	
		4 stroke-cycle, water-cooled, direct-injection diesel engine		
Number of Cylinder		6 in-line		
Piston Displacement (cc)		7,545	6,606	
Bore x Stroke (mm)		118 x 115	109 x 118	
Compression Ratio		17.5 : 1	17.6:1	
Max. Power ** (ps/rpm)	General	185 / 2,900	-	
	Euro I	167 / 2,900	-	
	Euro II	-	196 / 2,500	-
	Euro III	-	-	225 / 2,500
Max. Torque ** (kg.m/rpm)	General	51 / 1,400	-	
	Euro I	46 / 1,400	-	
	Euro II	-	58 / 1,700	-
	Euro III	-	-	65 / 1,700
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, 90AH/120AH(Frigid) at 20 Hr rates		
	Alternator	24V-40A	24V-50A	
	Starter	24V-5.0kw	24V-5.5kw	
Fuel System	Injection pump	Bosch in-line type		
	Governor	All speed type		
	Fuel filter	Spin-on type		
Oil System	Lubrication	Forced lubrication by gear pump		
	Oil filter	Combination (Full flow and bypass) filter with paper element		
	Oil cooler	Water cooled , plate fin type	Shell-and-plate type	
	Oil grade	API service classification CC or above	API service classification CD or above	
Air cleaner		Cyclonic dry paper element		
Valve System		Single Overhead Valve , Two valves per cylinder		

HYUNDAI CARGO TRUCK | HD120

3. Chassis Specification

ITEM	MODEL	HD120		
Engine		D6BR	D6DA19	D6DA22
Clutch				
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.	ø354 x ø225		ø350 x ø220	

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

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) This 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.

3. Chassis Specification

ITEM		MODEL	HD120		
Engine			D6BR	D6DA19	D6DA22
Transmission					
Model			M6S6 (Over Drive)	KH10 (Over Drive)	
Type			6 forward and 1 reverse speed , 2nd to 6th synchromesh , 1st & reverse constant-mesh gears		
Gear Ratio	1st		6.903	6.907	
	2nd		4.206	4.247	
	3rd		2.320	2.454	
	4th		1.414	1.471	
	5th		1.000	1.000	
	6th		0.747	0.769	
	Reverse		6.903	6.492	
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			P8		
Type			Tubular, Forged steel ends with center bearing		
Size (Tube diameter x Thickness)			ø 88.9 x 4.0 t		
Rear Axle					
Model			D4H	D4H/D050H	
Type			Full floating type		
Capacity (kg)			8,800		
Final Reduction Gear	Type		Single Reduction , Hypoid gear		
	G/Ratio		5.428/5.571	4.333/4.875/3.909	
Gear Oil			API service classification GL5 and service classification 80W/90 (85W/140 : Tropical zones only)		
Front Axle					
Type			Reverse Elliot type " I " beam		
Capacity (kg)			3,600(D4H) , 3,720(D050H)		
Tire & Wheel					
Type			Single Front , Dual Rear		
Tire	Front		8.25R16-16PR(STD) , 8.25R16-18PR(OPT)		
	Rear		9.5R17.5-16PR (OPT)		
Wheel	Front		8.25R16-16PR/18PR : 6.0GS x 16-137-11T , 8.25R16-18PR : 6.70 x 17.5		
	Rear				
Steering					
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column		
Steering Wheel Diameter (mm)			500		
Tilting Angle			9 °		
Telescopic Stroke (mm)			40		
Overall Steering Gear Ratio			21.6		
Turning Angle	Inner		49 °		
	Outer		36 °		

HYUNDAI CARGO TRUCK | HD120

3. Chassis Specification

ITEM		MODEL	HD120		
Engine			D6BR	D6DA19	D6DA22
Brake					
Service Brake	Actuation		Air Over Hydraulic With Dual circuit		
	Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ø 320 x 120 x 12.5		
		Rear	Drum dia. x Lining width x Lining thickness : ø 320 x 150 x 12.5		
	Compressed air reservoir		85 ℓ		
	Total lining area		3,456 cm²		
Parking Brake	Actuation		Internal expanding type on propellar shaft at the rear of transmission assy		
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø320 mm x 150 mm x 12.5 mm		
	Total lining area		1,926.8 cm²		
Exhaust Brake			Air operated, butterfly valve type		
Suspension					
Type	Front		Semi-elliptic , Laminated leaf springs with shackle link (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		1,300 x 70 x 11 t - 7		
	Rear	Main	1,300 x 70 x 11 t - 10		
		Helper	1,020 x 70 x 11 t - 6		
Shock absorber			Hydraulic double acting telescopic type on the front axle		
Cooling system					
Radiator			Corrugated fin type & condense tank		
	Rows of tubes		3		
	Core size (mm)		Width x Height x Thickness : 593.4 x 650 x 48		
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		Muffler With Diesel Oxidation Catalyst
Tail pipe			Droptail type, blowing to chassis rearward		←
Fuel tank					
Capacity			100 liter(Short W/B), 200 liter (Long and Extra Long W/B)		
Material			Steel (STD) , Aluminum (OPT)		
Frame					
Type			"H" type frame with channel sectional side rail & cross members		
Main side rail (mm)			Depth x Flange x Thickness : 240 x 80 x 7 t		

4. Electrical system Specification

ITEM	MODEL	HD120
Electrical Equipments		
Head lamps		Semi sealed beam
Front combination lamps		Turn signal / Hazard-Amber , Position-White
Fog lamps		Yellow
Rear combination lamps		Turn Signal / Hazard-Amber , Tail / Stop- Red
License plate lamp		White
Back-up lamp		White
Instruments		
Meter Cluster		Fixed type
Meters		Speedometer with odometer / Air / 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		Single , electric flat type

5. Body

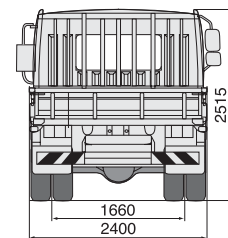
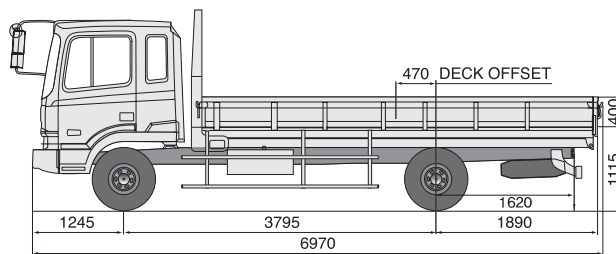
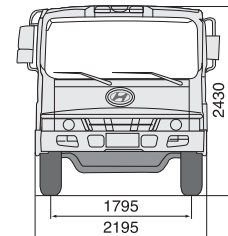
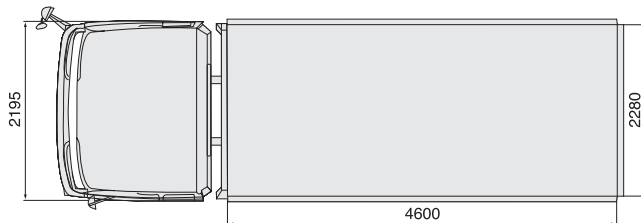
ITEM	MODEL	HD120
Cab		
Type		Manual cab tilting with torsion bar , all steel welded construction with safety zone design
Mounting		Semi-Floating Cab
Windshield		One piece type with laminated glass
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat		Spring & Urethane foam cushioned / reclining , sliding & height adjuster at the front & rear , Vinyl material
Assistant's Seat		Spring & Urethane foam cushioned, Vinyl material
Deck (Option)		
General		Wooden body reinforced by steel structure
Floor	Cross sill	Steel square tube
	Board	Wood plate (Apiton)
	Frame	Bended steel (Angle)
Guard frame		Bended steel structure
Side & Rear gate		Wood plate reinforced with Steel plate

HYUNDAI CARGO TRUCK | HD120

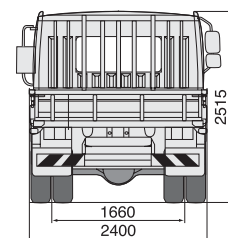
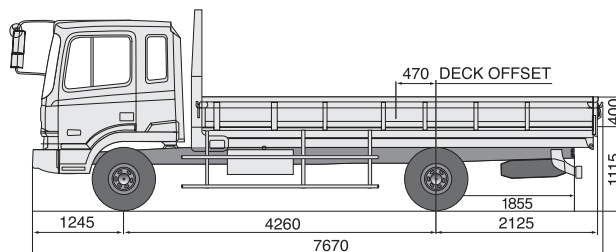
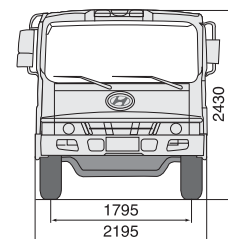
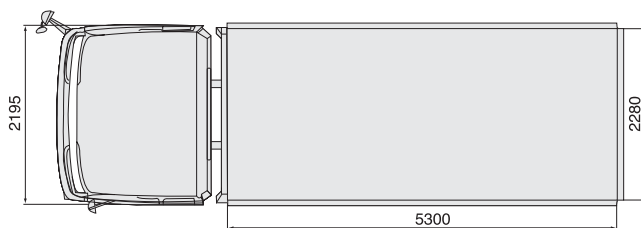
6. Dimensions

CARGO

Short Wheelbase HD120 (D6DA)



Long Wheelbase HD120 (D6DA)



HYUNDAI CARGO TRUCK | HD120

CARGO

Extra - Long Wheelbase HD120 (D6DA)

