

Hyundai Commercial Vehicle

SPECIFICATIONS



HYUNDAI
Drive your way™

TRUCK CARGO

MODEL	DRIVE SYSTEM
HD45	4 × 2
HD65	4 × 2
HD72	4 × 2
HD78	4 × 2
HD120	4 × 2
HD160 / HD170	4 × 2
HD250 / HD260	6 × 4
HD310 / HD320	8 × 4

DUMP

MODEL	DRIVE SYSTEM
HD65	4 × 2
HD72	4 × 2
HD120 / HD160	4 × 2
HD270 / HD370	6 × 4 / 8 × 4

TRACTOR & MIXER

MODEL	DRIVE SYSTEM
HD450 / HD500 / HD600	4 × 2
HD700 / HD1000	6 × 4
HD270 MIXER	6 × 4

BUS

MODEL	DRIVE SYSTEM
COUNTY	4 × 2
AERO TOWN	4 × 2
SUPER AERO CITY	4 × 2
UNIVERSE	4 × 2

BARE CHASSIS

MODEL	DRIVE SYSTEM
HD65	4 × 2
HD72	4 × 2
COUNTY	4 × 2
AERO TOWN	4 × 2
SUPER AERO CITY	4 × 2
AERO SPACE	4 × 2
AERO EXPRESS	4 × 2

APPENDIX

Engine Specification by Climate and Region

Notes

1. Hyundai Motor Company reserves the right to make changes in vehicle specifications, equipment and design or to discontinue models or options without notice at any time.
2. The specification information in this book is based on the general export models of Hyundai Commercial vehicles and is accurate as much as possible as of June, 2008.
3. For further information about the specification, please contact the commercial vehicle export teams of Hyundai Motor Company.

HYUNDAI CARGO TRUCK

1. Dimension, Weights

ITEM		MODEL	HD45 Narrow	
Cab	Width		Narrow	
	Length		Standard	
Deck Height			High	
Wheel Base			Short	Long
Drive System			4 x 2	
Application Engines			D4BB	
Dimensions		(mm)		
Wheel Base			2,550	2,810
Overall (Cargo)	Length		4,955	5,240
	Width		1,885	1,885
	Height		2,230	2,230
Overall (C/Cab)	Length		4,885	5,145
	Width		1,870	1,870
	Height		2,180	2,180
Wheel Tread	Front		1,475	
	Rear		1,435	
Overhang (Cargo)	Front		1,075	1,075
	Rear		1,330	1,355
Overhang (C/Cab)	Front		1,075	1,075
	Rear		1,260	1,260
Deck size (Cargo)	Length		3,175	3,460
	Width		1,790	1,790
	Height		400	400
	Floor Height		1,010	1,010
Body Offset			305	420
C.A (Cab to rear axle)			2,010	2,270
C.E (Cab to end of frame)			3,270	3,530
Min. Ground Clearance			190	190
Weight		(kg)		
Empty Vehicle Weight (Cargo)			2,180	2,230
	Front		1,260	1,290
	Rear		920	940
Curb Weight (Chassis & Cab)			1,870	1,880
	Front		1,225	1,230
	Rear		645	650
** Max Gross Vehicle Weight			4,500	
	Front		1,840	
	Rear		2,660	

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

2. Performance

ITEM		MODEL	HD45 Narrow	
Application Engines			D4BB	
Calculated Performance				
Max. Speed	km/h		114	
Max. Gradeability	tan θ		0.304	
Min. Turning Radius	m		5.4	5.9

3. Chassis

ITEM		MODEL	HD 45
Engine			
Model		D4BB	
Type		Turbo Charger Intercooler	
		4 stroke-cycle, water-cooled, direct-injection diesel engine	
Number of Cylinder		4 in-line	
Piston Displacement (cc)		2,607	
Bore x Stroke (mm)		91.1 x 100	
Compression Ratio		22.0:1 : 1	
Max. Power (ps/rpm)**	Euro 1	80 / 4000	
Max. Torque (kg.m/rpm)**	Euro 1	17 / 2200	
Cooling System	General	Water cooling type with thermostat, forced circulations by centrifugal pump	
	Cooling fan	Suction Type	
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank	
Electrical System	Battery	MF 12V- 100AH	
	Alternator	12 V-90A	
	Starter	12V-2.2KW	
Fuel System	Injection pump	Bosch distributor system	
	Governor	Mechanical type	
Oil System	Lubrication	Forced lubrication by gear pump	
	Oil grade	API classification service CF-4 or above	
Air cleaner		Cyclonic dry paper element	
Valve System		Single Overhead Cam , Two valves per cylinder	
Clutch			
Type		Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper	
Facing Material		Non-Asbestos	
Facing Size(mm); Outside dia. x Inside dia.		ø240 x ø150	
Transmission			
Model		RT-10	
Type		Floor Shift, 5 Speed Manual	
Gear Ratio	1st	5.192	
	2nd	2.621	
	3rd	1.536	
	4th	1.000	
	5th	0.865	
	Reverse	4.432	
Gear Oil		SAE 75W/85	
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control	
Propeller shaft			
Model		P2	
Type		Tubular, Forged steel ends without center bearing	
Size (diameter x Thickness)		Short : ø63.5 x 2.6 t / Long : ø76.2 x 2.6 t	

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

3. Chassis

ITEM		MODEL	HD 45
Engine			D4BB
Rear Axle			
Model			D2H
Type			Full floating type
Capacity (kg)			4,100
Final Reduction Gear	Type	Single Reduction , Hypoid gear	
	G/Ratio	5.714	
Gear Oil			API classification service GL-5 and SAE classification service 80W/90 (85W/140 : Tropical zones only)
Front Axle			
Type			Reverse Elliot type " I " beam
Capacity (kg)			2,300
Tire & Wheel			
Type			Single Front , Dual Rear
Tire	Front	6.50 x 16 - 10PR	
	Rear	(6.50R16-10 PR : OPT)	
Wheel	Front	5.50 F x 16 SDC-115	
	Rear		
Steering			
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column
Steering Wheel Diameter (mm)	Manual	430	
	Power	410	
Tilting Angle			55.5° ~62.2°
Telescopic Stroke (mm)			23.6
Overall Steering Gear Ratio	Manual	26.5~30	
	Power	22.6	
Turning Angle	Inner	44°	
	Outer	33.8°	
Brake			
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 75 x 10
		Rear	
	Vacuum reservoir		7 ℓ
	Total lining area		1,926 cm²
	Adjuster		Auto adjuster (OPT)
Parking Brake	Actuation		Internal expanding type on propellarshaft at the rear of transmission assy
	Size (mm)	Drum diameter x Lining width x Lining thickness	
		ø180 x 35 x 5	
Total lining area			132 cm²
Air intake system			
General			Snorkel type at the rear of cab (right side)
Air cleaner type			Dry Paper type
Air cleaner position			At the rear of cab (right side)

3. Chassis

ITEM		MODEL	HD 45
Engine			D4BB
Suspension			
Type	Front / Rear		Semi-elliptic , laminated leaf springs with front & rear shock absorber
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,200 x 70 x 10 t - 2, 11t-2
	Rear	Main	1,250 x 70 x 10 t - 2, 11t-2
		Helper	990 x 70 x 11 t - 3
Shock absorber			Hydraulic double acting telescopic type on the front & rear axle
Cooling system			
Radiator			Tube-and-Corrugated fin type
	Rows of tubes		1
	Core size (mm)		Width x Height x Thickness : 534.6 x 670 x 25.9
Cooling Fan			Fixed or Auto clutched type
Exhaust system			
General			Conventional (horizontal) type muffler
Tail pipe			Droptail type, blowing to chassis rearward
Fuel tank			
Capacity			65 Liter
Material			Steel
Frame			
Type			"H" type frame with channel sectional side rail & cross members ,
			side rail is reinforced with outer stiffeners
Main section side rail dimension (mm)			Depth x Flange x Thickness : 183 x 65 x 6 t

4. Electrical system

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
Meter	Speedometer with odometer & trip counter / Combined meter included fuel & water temperature gauges
Warning lamps & indicators	Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge Tell-tale lights for head light high beam / Turn signals / Door open(DLX Only) / Seat belt
Horn	Single , electric type

5. Body

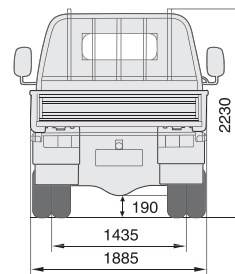
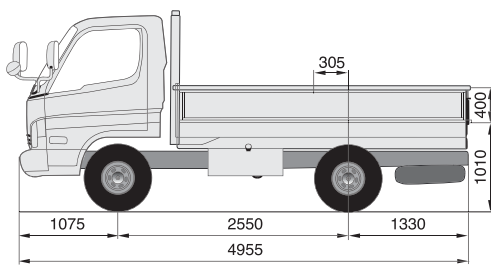
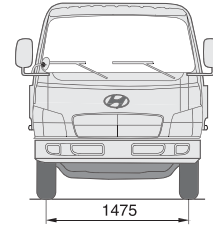
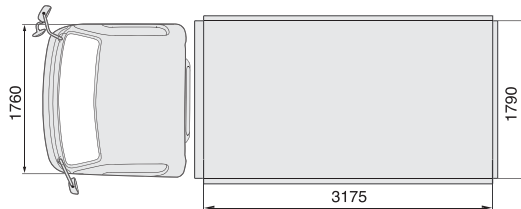
ITEM		MODEL	HD45
Cab			
Type		Tilt type with torsion bars, all steel welded construction with safety zone design	
Mounting		Rigid or Semi floating type	
Windshield		One piece type with laminated glass	
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer	
Driver's Seat		Urethane foam cushioned adjustable to the front & rear / reclining , semi cloth or simulated leather material	
Assistant's Seat		Bench seat , Semi cloth(DLX), Simulated leather material(STD)	
Body type			
General		Steel Body	
Floor	Cross sill	Steel square tube	
	Board	Steel Plate	
	Frame	Bended steel (Angle)	
Guard frame		Bended steel structure	
Side & Rear gate		Steel panel	

Annotations

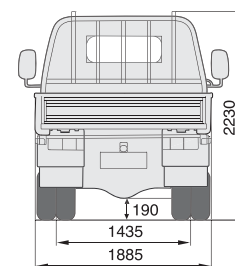
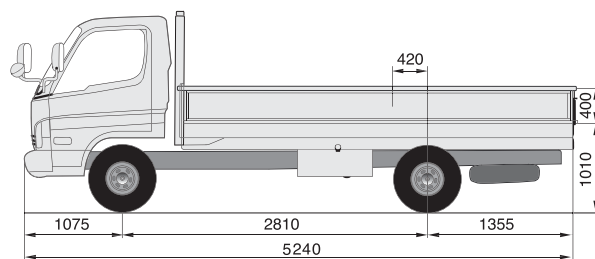
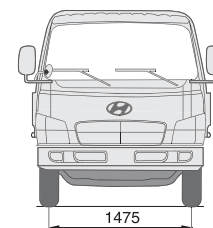
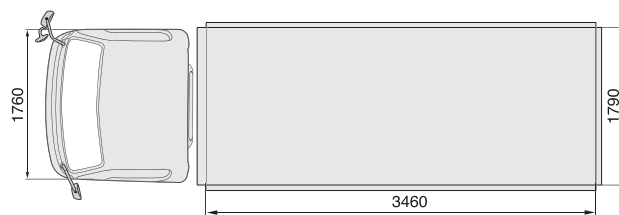
- 1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.
- 2) Empty vehicle weight and curb weight include weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set.
- 3) The vehicle specifications may differ per country.
- 4) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

6. Dimensions

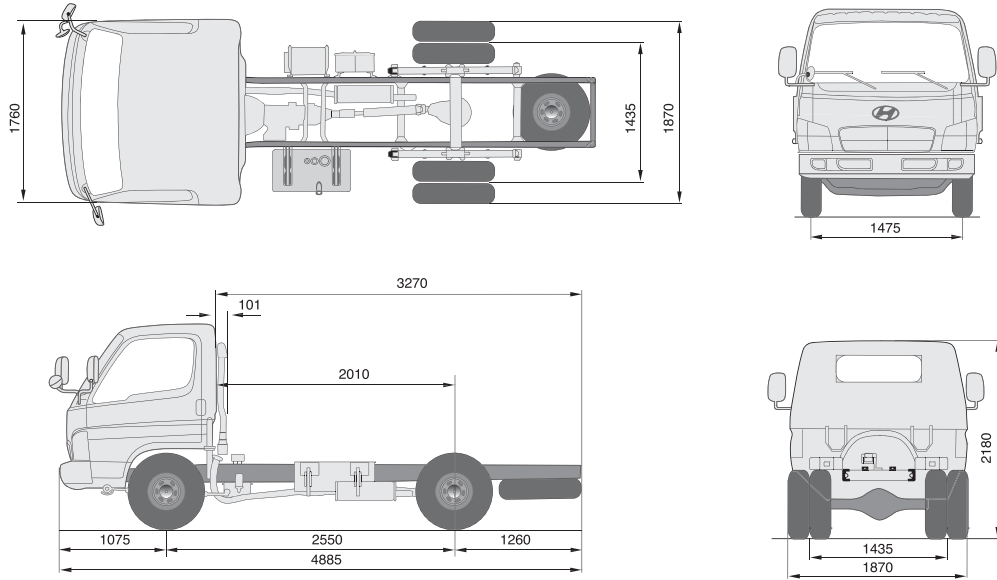
Short Wheelbase HD45 (D4BB)



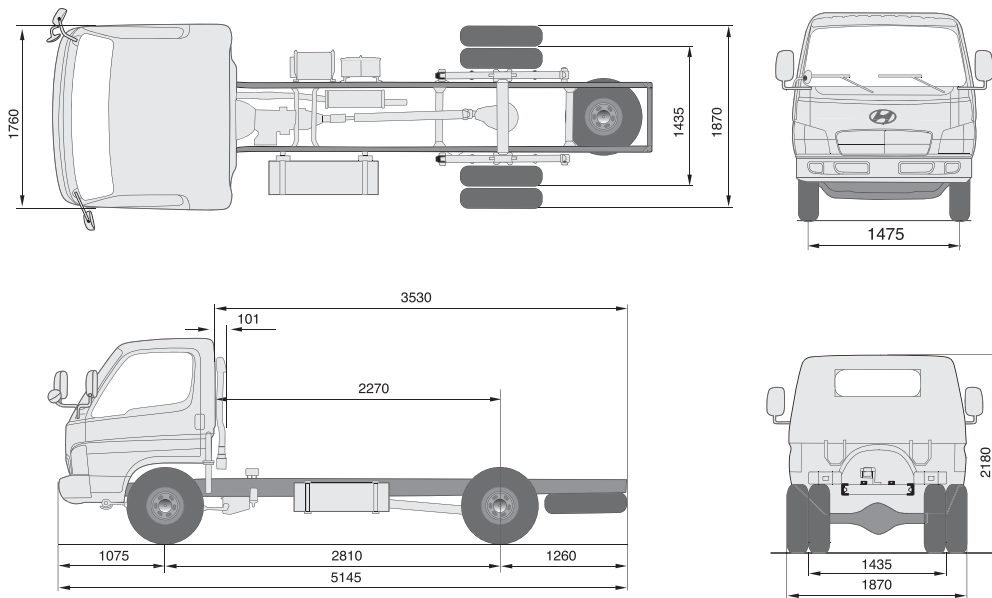
Long Wheelbase HD45 (D4BB)



Short Wheelbase HD45 (D4BB)



Long Wheelbase HD45 (D4BB)



➡ 1. Dimension, Weights

MODEL		HD65 Narrow		HD65 Wide							
ITEM											
Cab	Width	Narrow		Wide			Wide		Wide		
	Length	Standard		Standard			Super		Double		
Deck Height		High Deck		High Deck			High Deck		High Deck		
Wheel Base		Short	Long	Short		Long		Long		Long	
Drive System		4 x 2		4 x 2			4 x 2		4 x 2		
Application Engines		D4AF/D4AL/DB-d		D4AF/AL/DC/DB/DB-d	D4DD	D4AF/AL/DC/DB/DB-d	D4DD	D4AF/AL/DC/DB/DB-d	D4DD	D4AF/AL/DB-d	D4DD

Dimensions (mm)

Wheel Base		2,550	3,375	2,750	2,780	3,375	3,375	3,570	3,570	3,375	3,375
Overall (Cargo)	Length	4,940	6,130	5,245	5,275	6,175	6,175	6,465	6,465	6,175	6,175
	Width	1,900	1,900	2,030	2,030	2,030	2,030	2,030	2,030	2,030	2,030
	Height	2,275	2,275	2,335	2,335	2,335	2,335	2,335	2,335	2,335	2,335
Overall (C/Cab)	Length	4,885	5,925	5,165	5,195	5,970	6,075	6,270	6,270	5,970	6,075
	Width	1,870	1,870	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
	Height	2,195	2,195	2,195	2,250	2,195	2,250	2,195	2,250	2,195	2,250
Wheel Tread	Front	1,475	1,475	1,665	1,680	1,665	1,680	1,665	1,680	1,665	1,680
	Rear	1,435	1,435	1,495	1,495	1,495	1,495	1,495	1,495	1,495	1,495
Overhang (Cargo)	Front	1,075	1,075	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
	Rear	1,315	1,680	1,375	1,375	1,680	1,680	1,775	1,775	1,680	1,680
Overhang (C/Cab)	Front	1,075	1,075	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
	Rear	1,260	1,475	1,295	1,295	1,475	1,580	1,580	1,580	1,475	1,580
Deck size	Length	3,110	4,340	3,410	3,410	4,340	4,310	4,340	4,340	3,350	3,340
	Width	1,790	1,790	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920
	Height	380	380	380	380	380	380	380	380	380	380
	Floor Height	1,030	1,030	1,040	1,050	1,040	1,050	1,040	1,050	1,040	1,050
Body Offset		335	545	385	385	545	530	440	440	60	60
C.A (Cab to rear axle)		2,010	2,835	2,210	2,240	2,835	2,835	2,730	2,730	1,835	1,835
C.E (Cab to end of frame)		3,270	4,310	3,505	3,535	4,310	4,415	4,310	4,310	3,310	3,415
Min. Ground Clearance		200	200	200	200	200	200	200	200	200	200
Min. Turning Radius		5.4	7.0	5.0	5.0	6.1	6.1	6.5	6.5	6.1	6.1

Weight (kg)

Empty Vehicle Weight		2,585	2,700	2,740	2,845	2,780	2,880	2,875	2,945	2,880	3,070
(Cargo)	Front	1,490	1,520	1,590	1,665	1,570	1,620	1,625	1,680	1,625	1,745
	Rear	1,095	1,180	1,150	1,180	1,210	1,260	1,250	1,265	1,255	1,325
Curb Weight		2,230	2,280	2,320	2,410	2,355	2,450	2,405	2,500	2,560	2,655
(Chassis & Cab)	Front	1,430	1,460	1,515	1,580	1,525	1,590	1,575	1,650	1,630	1,725
	Rear	800	820	805	830	830	860	830	850	930	930
** Max Gross Vehicle		6,500									
Weight	Front	2,300									
	Rear	4,200									

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

2. Performance

ITEM \ MODEL	HD65					
Application Engines	D4AF	D4AL	D4DC	D4DBD	D4DB(RHD)	D4DD
Calculated Performance						
Max. Speed km/h	106	116	110	113	100	125
Max. Gradeability tan θ	0.40	0.31	0.35	0.42	0.47	0.42

3. Chassis

ITEM \ MODEL		HD65					
Engine							
Model		D4AF	D4AL	D4DB	D4DB-d	D4DC	D4DD
Type		Natural Aspiration	Turbo Charger Intercooler			Natural Aspiration	T.C.I
		4 stroke-cycle, water-cooled, direct-injection diesel engine					
Number of Cylinder		4 in-line					
Piston Displacement (cc)		3,568	3,298	3,907			
Bore x Stroke (mm)		104 x 105	100 x 105	104 x 115			
Compression Ratio		18.0 : 1	16.5 : 1	18 : 1	18 : 1	18.1 : 1	17.5 : 1
Max. Power** (ps/rpm)	General	100 / 3,400	-	-	-	-	-
	Euro I	-	115 / 3,400	-	-	120/3200	-
	Euro II	-	-	130 / 2,900	120/2900	-	-
	Euro III	-	-	-	-	-	140/2800
Max. Torque ** (kg.m/rpm)	General	24 / 2,000	-	-	-	-	-
	Euro I	-	29 / 2,000	-	-	30/2000	-
	Euro II	-	-	38 / 1,600	30/2000	-	-
	Euro III	-	-	-	-	-	38/1600
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling Forced circulation by centrifugal water pump					
	Cooling fan	Polyamid & Suction type					
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank					
Electrical System	Battery	MF 90AH (D4AF : MF 60AH)					
	Alternator	24V-40A (D4AF : 24V-25A)					24V-50A
	Starter	24V-5.0KW					
Fuel System	Injection pump	DooWon in-line					Denso common rail system
	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	Shell-and-tube type		Shell-and-plate type			
	Oil grade	API classification service CF-4 or above					
Air cleaner		Dry paper element	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.

3. Chassis

ITEM \ MODEL		HD65					
Engine		D4AF	D4AL	D4DB(RHD)	D4DB-d	D4DC	D4DD
Clutch							
Type		Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper (D4AF : Non Pre-Damper[STD], Pre Damper type [OPT])					
Facing Material		Non-Asbestos					
Facing Size (mm) Outside dia x Inside dia		ø275 x 175 (STD) ø275 x 180 (OPT)	ø275 x 180	ø300 x 190	ø275 x 180	ø275 x 180	ø300 x 190
Transmission							
Model		M2S5 (Over Drive)	M3S5 / CA5-38HA (Over Drive)	M035S5 / CA5-38HC (Over Drive)	M3S5 / CA5-38HA (Over Drive)	M3S5 / CA5-38HA (Over Drive)	M035S5 (Over Drive)
Type		5 forward and 1 reverse speed , 1st to 5th synchromesh, reverse constant-mesh gears (M2S5, M3S5 & M035S5) 2nd to 5th synchromesh, 1st & reverse constant-mesh gears(CA5-38HA & CA5-38HC)					
Gear Ratio	1st	5.494	5.181 / 5.591	5.380 / 5.591	5.181/ 5.591	5.181 / 5.591	5.380
	2nd	2.836	2.865 / 2.870	3.028 / 2.870	2.865 / 2.870	2.865 / 2.870	3.028
	3rd	1.592	1.593 / 1.607	1.700 / 1.607	1.593 / 1.607	1.593 / 1.607	1.700
	4th	1.000	1.000 / 1.000	1.000 / 1.000	1.000 / 1.000	1.000 / 1.000	1.000
	5th	0.746	0.739 / 0.742	0.722 / 0.742	0.739 / 0.742	0.739 / 0.742	0.722
	Reverse	5.494	5.181 / 5.045	5.380 / 5.045	5.181 / 5.045	5.181 / 5.045	5.380
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)					
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control					
Propellershaft							
Model		P2	P3				
Type		Tubular, Forged steel ends					
Size (diameter x Thickness)		ø63.5 x 2.6 t	ø76.2 x 2.6 t				
Rear Axle							
Model		D2H	D3H				
Type		Full floating type					
Capacity kg		4,200					4,400
Final Reduction Gear	Type	Single Reduction , Hypoid gear					
	G/Ratio	6.666 / 6.166	5.714 / 6.166	5.000	6.166	5.714 / 6.166	5.000
Gear Oil		API classification service GL-5 and SAE classification service 80W/90 (85W/140 : Tropical zones only)					
Front Axle							
Type		Reverse Elliot type " I " beam					
Capacity kg		2,600					
Tire & Wheel							
Type		Single Front , Dual Rear					
Tire	Front	7.00R x 16 - 10PR					
	Rear						
Wheel	Front	5.50 F x 16 SDC-115					
	Rear						

3. Chassis

ITEM \ MODEL		HD65					
Engine		D4AF	D4AL	D4DB(RHD)	D4DB-d	D4DC	D4DD
Steering							
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column					
Steering Wheel Diameter (mm)	Manual	410					
	Power	410					
Tilting Angle		55.5° ~ 62.2°					
Telescopic Stroke mm		23.6					
Overall Steering Gear Ratio	Manual	26.5~30					
	Power	22.6					
Turning Angle	Inner	38°(Narrow) / 44°(Wide)					
	Outer	29°(Narrow) / 34° (Wide)					
Brake							
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit				
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 85 x 10 (Narrow or D4AF Engine : ø320 x 75 x 10)				
		Rear					
	Vacuum reservoir		7 ℓ				9 ℓ
	Total lining area		1,926.8cm ²				2,183.8cm ²
Adjuster		Auto adjuster (OPT)					
Parking Brake	Actuation		Internal expanding type on propellarshaft at the rear of transmission assy				
	Size (mm)	Drum diameter x Lining width x Lining thickness					
		ø180 x 35 x 5			ø190 x 45 x 4		
Total lining area		132cm ²			187cm ²		
Exhaust Brake		Vacuum operated, butterfly valve type					
Suspension							
Type		Front / Rear		Semi-elliptic , laminated leaf springs with shock absorber			
Spring Size (Length x Width x Thickness- Number of leaves)	Front		Narrow:1,200 x 70 x 10t-1,11t-4(LH) & 1,200 x 70 x 10t-1,11t-3,5t-1(RH) / Wide:1,200 x 70 x 10t-5,11t-1				
	Rear	Main	Narrow:1,250 x 70 x 10 t-2,11t-3 / Wide:1,250 x 70 x 10 t-6				
		Helper	Narrow:990 x 70 x 13 t-3 / Wide:990 x 70 x 13 t-3				
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles					
Cooling system							
Radiator			Tube-and-Corrugated fin type				
	Rows of tubes		1 Row	2 Rows			
	Core size (mm)		Width x Height x Thickness :				
		534 x 570 x 25.9	534 x 570 x 42				
Cooling Fan		Fixed or Auto clutched type					
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		100 liter					
Material		Steel					
Frame							
Type		"H" type frame with channel sectional side rail & cross members , side rail is reinforced with outer stiffeners					
Main section side rail dimension (mm)		Depth x Flange x Thickness : 183 x 65 x 6t (Narrow) / 193 x 60 x 6 t (Wide)					

4. Electrical system

ITEM	MODEL	HD65
Electrical Equipments		
Head lamps		Semi sealed beam (Narrow Cab , RHD models) M.F.R Type (Wide Cab)
Front combination lamps		Turn signal / Hazard-Amber , Position - White
Fog lamps		Yellow(Narrow) / White(Wide)
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 & trip counter / Combined meter included fuel & water temperature gauges
Warning lamps & indicators		Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge Tell-tale lights for head light high beam / Turn signals / Door open(DLX Only) Exhaust Brake / Seat belt
Horn		Single , electric type

5. Body

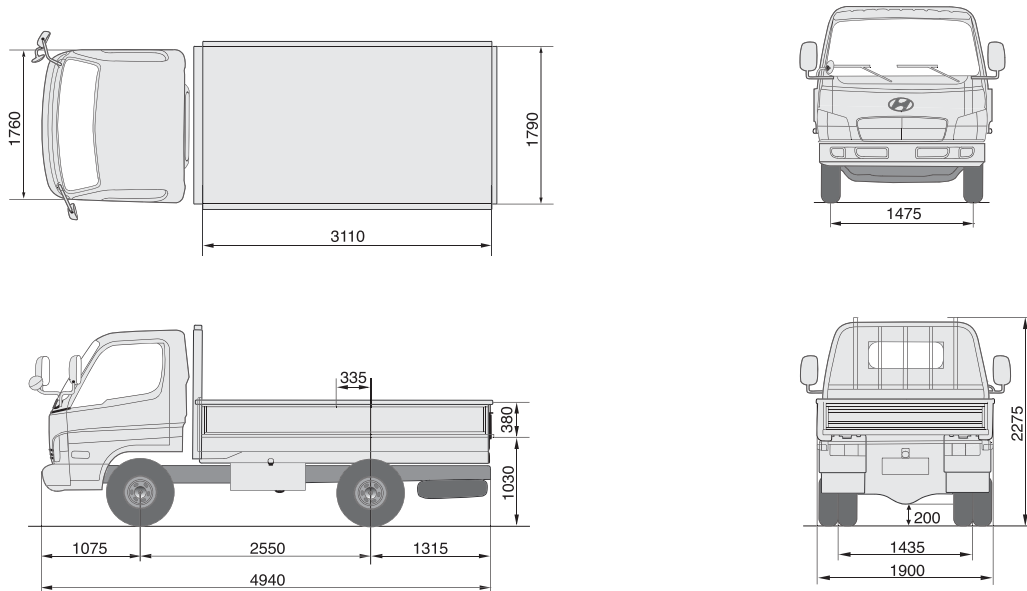
ITEM	MODEL	HD65
Cab		
Type		Tilt type with torsion bars, all steel welded construction with safety zone design
Mounting		Rigid or Semi floating type
Windshield		One piece type with laminated glass
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat		Urethane foam cushioned adjustable to the front & rear / reclining , semi cloth or simulated leather material
Assistant's Seat		Bench seat , Semi cloth(DLX), Simulated leather material(STD)
Body type		
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		Steel panel

Annotations

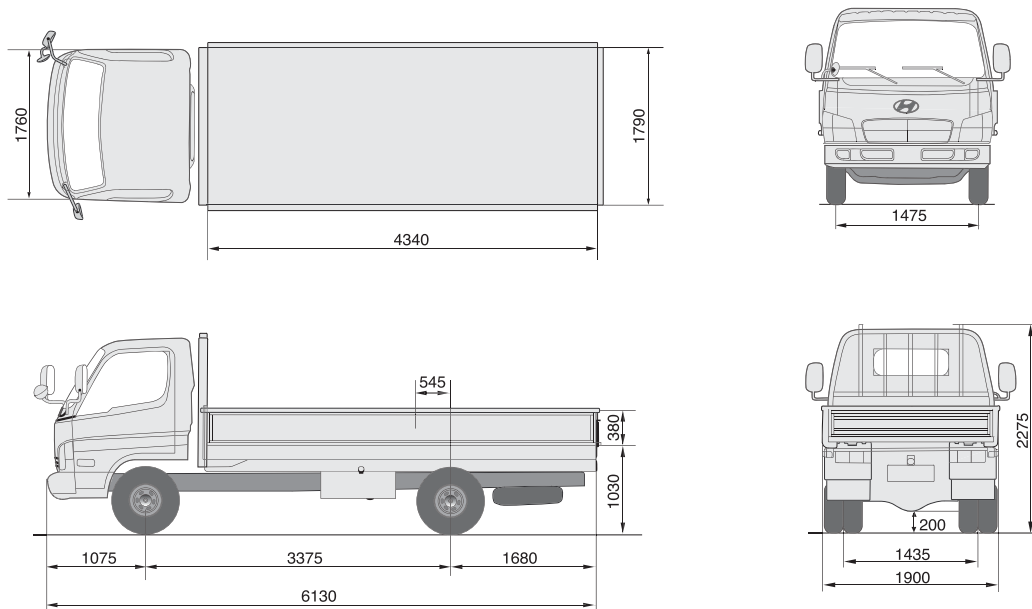
- 1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.
- 2) Empty vehicle weight and curb weight include weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set.
- 3) The vehicle specifications may differ per country.
- 4) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

6. Dimensions

Short Wheelbase HD65 Narrow (D4AF)

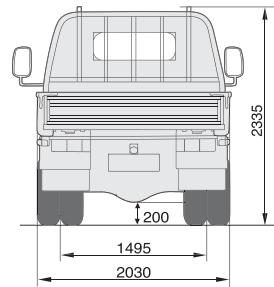
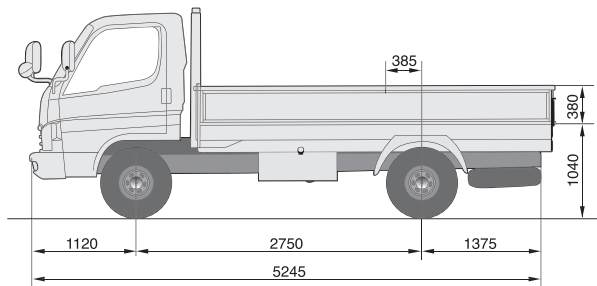
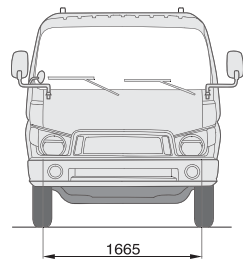
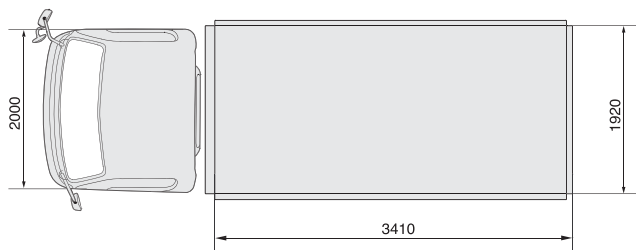


Long Wheelbase HD65 Narrow (D4AF)



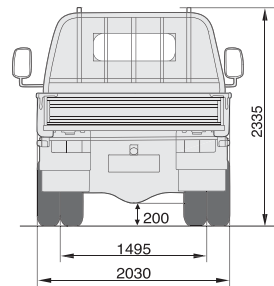
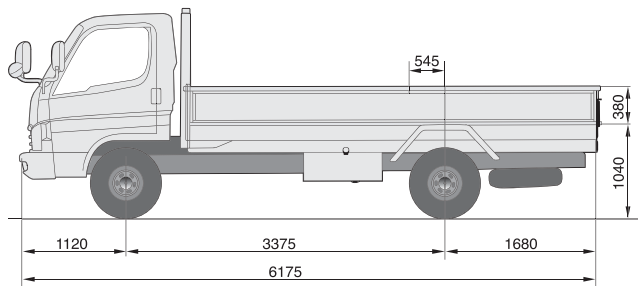
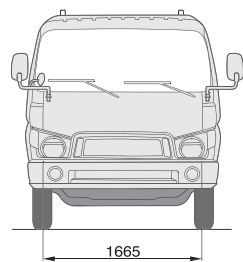
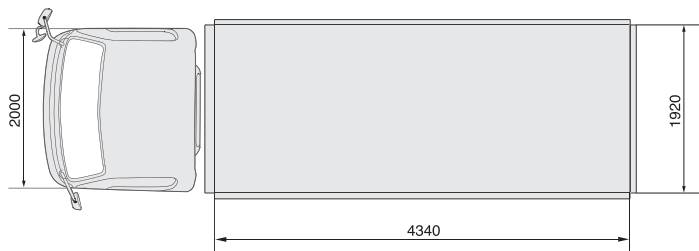
Short Wheelbase

HD65 Wide (D4AF)

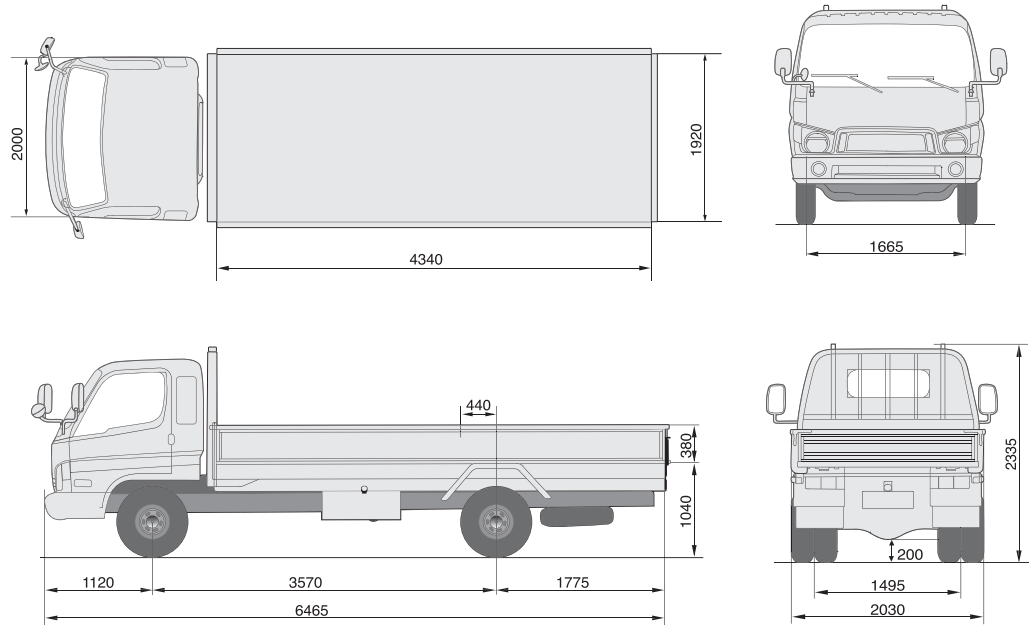


Long Wheelbase

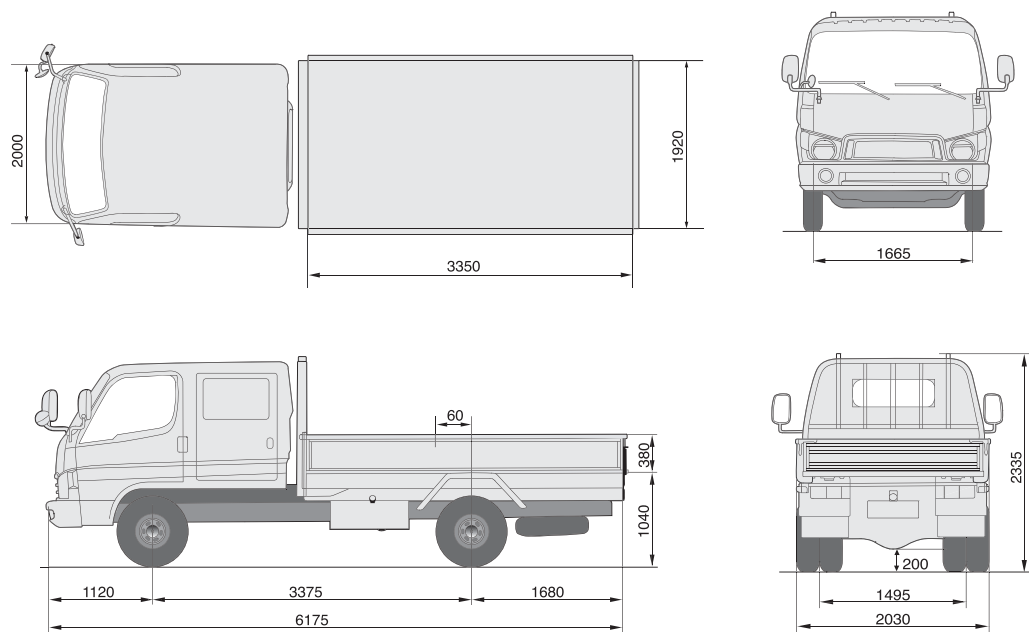
HD65 Wide (D4AF)



Long Wheelbase HD65 Super Cab (D4AF)

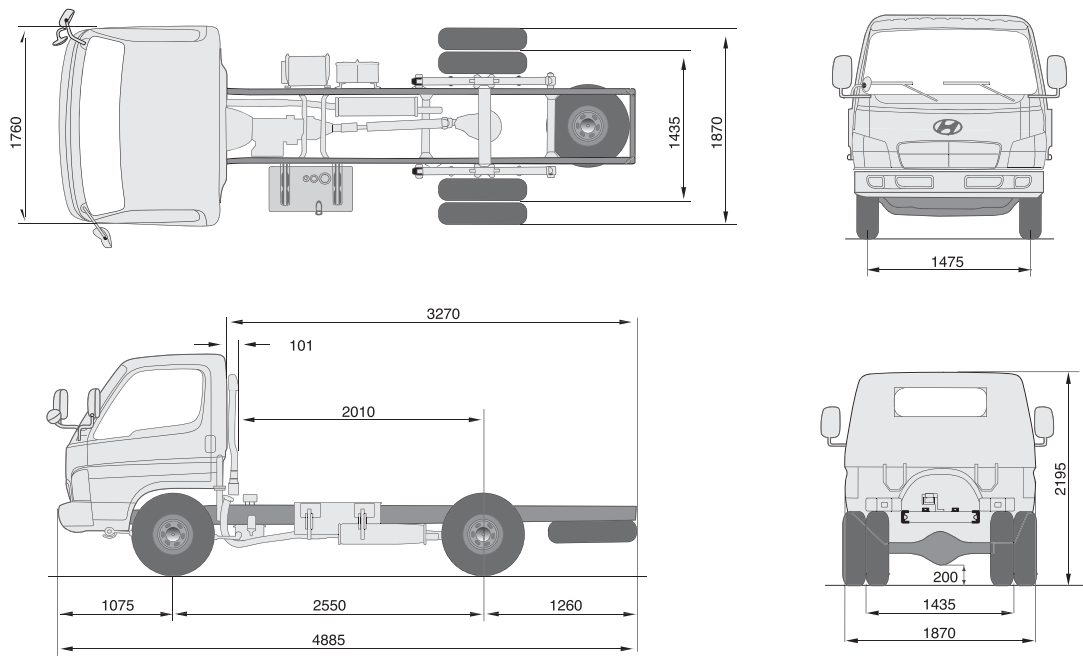


Long Wheelbase HD65 Double Cab (D4AF)



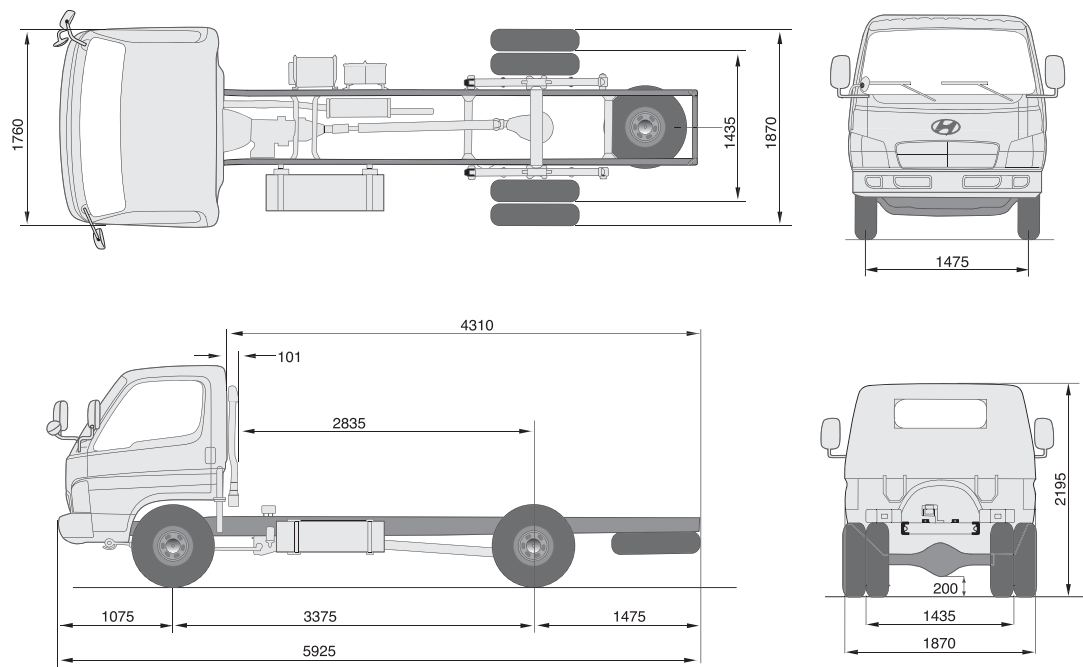
Short Wheelbase

HD65 Narrow (D4AF)

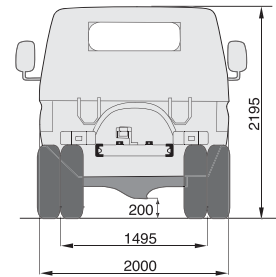
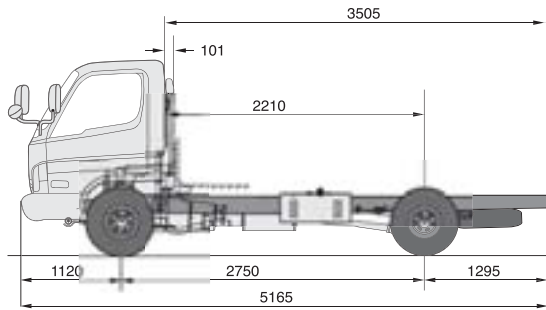
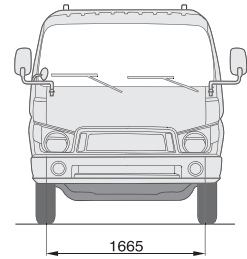
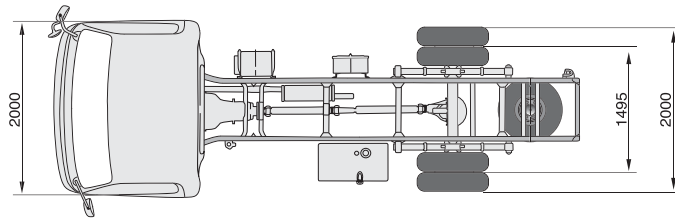


Long Wheelbase

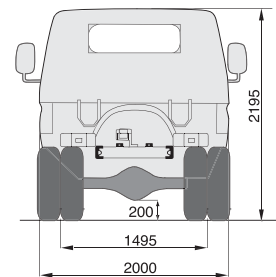
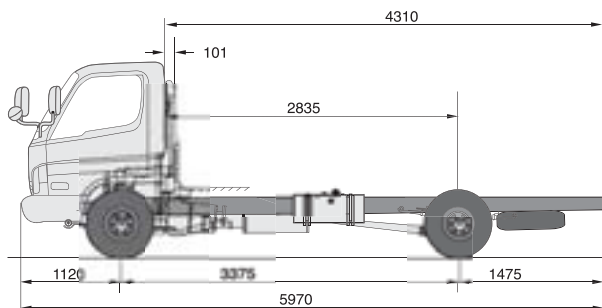
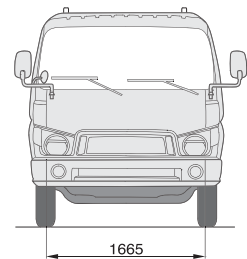
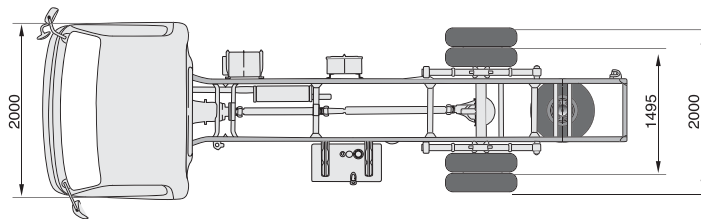
HD65 Narrow (D4AF)



Short Wheelbase HD65 Wide (D4AF)

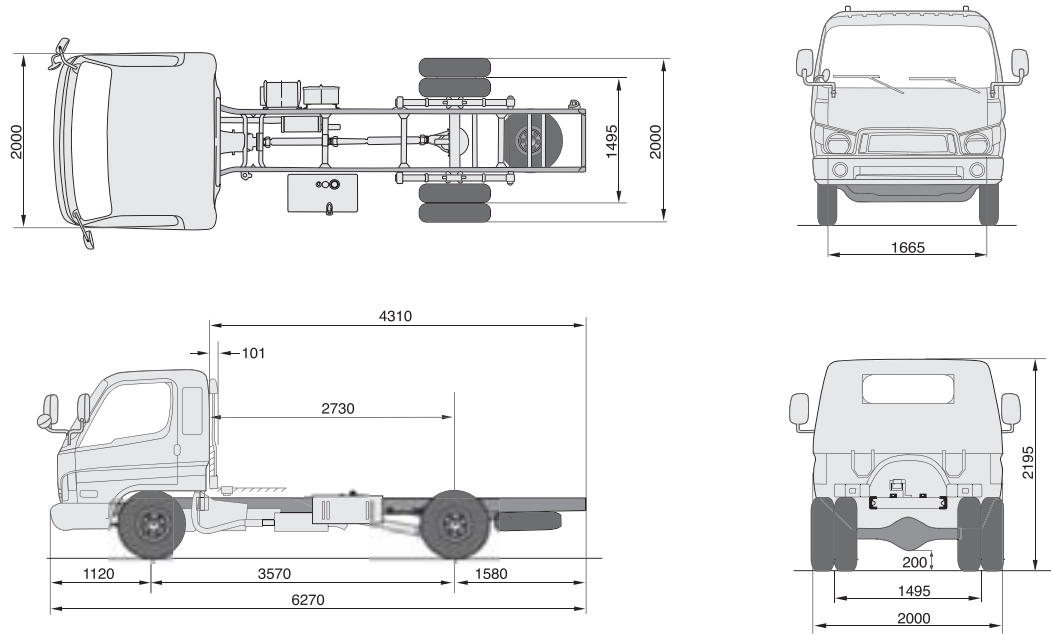


Long Wheelbase HD65 Wide (D4AF)



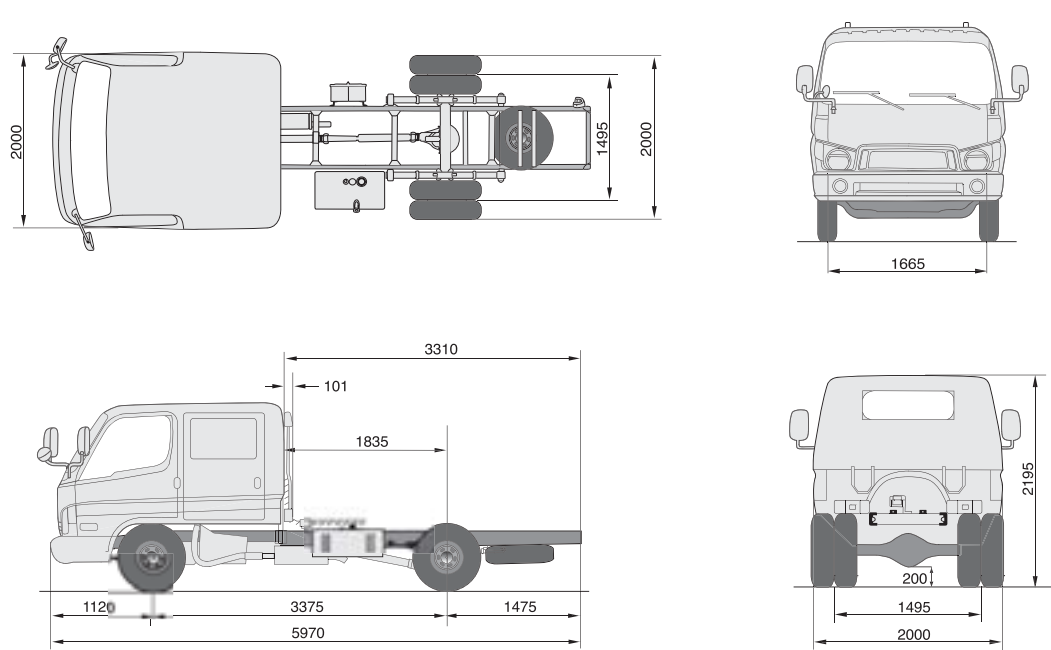
Long Wheelbase

HD65 Super Cab (D4AF)



Long Wheelbase

HD65 Double Cab (D4AF)



1. Dimension, Weights

ITEM		MODEL		HD72									
Cab	Width	Wide								Wide			
	Length	Standard								Super			
Deck Height		High Deck								High Deck			
Wheel Base		Short				Long				Long			
Drive System		4 x 2								4 x 2			
Application Engines		D4AL	D4DC	D4DB-d	D4DB	D4AL	D4DC	D4DB-d	D4DB	D4AL	D4DC	D4DB-d	D4DB
Dimensions (mm)													
Wheel Base		2,750				3,735				3,735			
Overall (Cargo)	Length	5,245				6,715				6,715			
	Width	2,030				2,170				2,170			
	Height	2,335				2,355				2,355			
Overall (C/Cab)	Length	5,165				6,520				6,520			
	Width	2,000				2,000				2,000			
	Height	2,215				2,215				2,215			
Wheel Tread	Front	1,650				1,650				1,650			
	Rear	1,495				1,495				1,495			
Overhang (Cargo)	Front	1,120				1,120				1,120			
	Rear	1,375				1,860				1,860			
Overhang (C/Cab)	Front	1,120				1,120				1,120			
	Rear	1,295				1,665				1,665			
Deck size	Length	3,410				4,880				4,580			
	Width	1,920				2,060				2,060			
	Height	380				380				380			
	Floor Height	1,060				1,060				1,060			
Body Offset		385				635				485			
C.A (Cab to rear axle)		2,210				3,195				2,895			
C.E (Cab to end of frame)		3,505				4,860				4,560			
Min. Ground Clearance		235				235				235			
Weight (kg)													
Empty Vehicle Weight (Cargo)		2,900		2,955		3,060		3,115		3,055		3,110	
	Front	1,620		1,655		1,695		1,730		1,665		1,700	
	Rear	1,280		1,300		1,365		1,385		1,390		1,410	
Curb Weight (Chassis & Cab)		2,450		2,495		2,475		2,520		2,495		2,540	
	Front	1,540		1,570		1,590		1,620		1,590		1,620	
	Rear	910		925		885		900		905		920	
** Max. Gross Vehicle Weight		7,200											
	Front	2,600											
	Rear	4,600											

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

2. Performance

ITEM	MODEL	HD72 (LHD/RHD)											
Application Engines		D4AL	D4DC	D4DB-d	D4DB	D4AL	D4DC	D4DB-d	D4DB	D4AL	D4DC	D4DB-d	D4DB
Calculated Performance													
Max. Speed	km/h	105	103	110	128	105	103	110	113	105	103	110	128
Max. Gradeability	tan θ	0.35	0.32	0.36	0.37	0.35	0.32	0.36	0.37	0.35	0.32	0.36	0.37
Min. Turning Radius	m	5.0				7.3				7.3			

3. Chassis

ITEM		MODEL	HD72			
Engine						
Model		D4DC	D4AL	D4DB-d	D4DB	
Type		Natural Aspiration	Turbo Charger Intercooler			
		4 stroke-cycle, water-cooled, direct-injection diesel engine				
Number of Cylinder		4 in-line				
Piston Displacement (cc)		3,907	3,298	3,907		
Bore x Stroke (mm)		104 x 115	100 x 105	104 x 115		
Compression Ratio		18.1 : 1	16.5 : 1	18 : 1	18 : 1	
Max. Power** (ps/rpm)	General	-	-	-	-	
	Euro I	120/3200	115 / 3,400	-	155(Gen).130(Tropic/Cold)/2,900	
	Euro II	-	-	120 / 2,900	130 / 2,900	
Max. Torque** (kg.m/rpm)	General	-	-	-	-	
	Euro I	30/2000	29 / 2,000	-	38 / 1,800	
	Euro II	-	-	30 / 2,000	38 / 1,800	
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling , Forced circulation by centrifugal water pump				
	Cooling fan	Polyamid & Suction type				
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank				
Electrical System	Battery	MF 90AH				
	Alternator	24V-40A				
	Starter	24V-5.0KW				
Fuel System	Injection pump	DooWon 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	Shell-and-plate type	Shell-and-tube type	Shell-and-plate type		
	Oil grade	API classification service 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.

3. Chassis

ITEM \ MODEL		HD72			
Engine		D4DC	D4AL	D4DB-d	D4DB
Clutch					
Type		Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper			
Facing material		Non-Asbestos			
Facing Size (mm); Outside dia x Inside dia.		ø275 x ø180			ø300 x ø190
Transmission					
Model		M3S5 / CA5-38HA (Over Drive)			M035S5 / CA5-38HC (Over Drive)
Type		5 forward and 1 reverse speed , 1st to 5th synchromesh, reverse constant-mesh gears (M3S5 & M035S5) 2nd to 5th synchromesh, 1st & reverse constant-mesh gears (CA5-38HA & CA5-38HC)			
Gear Ratio	1st	5.181 / 5.591			5.380 / 5.591
	2nd	2.865 / 2.870			3.208 / 2.870
	3rd	1.593 / 1.607			1.700 / 1.607
	4th	1.000 / 1.000			1.000 / 1.000
	5th	0.739 / 0.742			0.722 / 0.742
	Reverse	5.181 / 5.045			5.380 / 5.045
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)			
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control			
Propellershaft					
Model		P3			
Type		Tubular, Forged steel ends			
Size (Tube diameter x Thickness)		ø76.2 x 2.6 t			
Rear Axle					
Model		D3H			D033H
Type		Full floating type			
Capacity	kg	4,600			
Final Reduction Gear	Type	Single Reduction , Hypoid gear			
	G/Ratio	5.714/6.166/6.666	6.666/6.166		5.428
Gear Oil		API classification service GL-5 and SAE classification service 80W/90 (85W/140 ;Tropical zones only)			
Front Axle					
Type		Reverse Elliot type " I " beam			
Capacity	kg	2,600			
Tire & Wheel					
Type		Single Front , Dual Rear			
Tire	Front	7.50R x 16 - 12 PR / (OPT:14 PR)			
	Rear				
Wheel	Front	6.00 GS x 16 SDC-127			
	Rear				

3. Chassis

ITEM		MODEL	HD72	
Steering				
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column		
Steering Wheel Diameter (mm)	Manual		410	
	Power		410	
Tilting Angle		55.5°~ 62.2°		
Telescopic Stroke		(mm)	23.6	
Overall Steering Gear Ratio	Manual		26.5 ~ 30	
	Power		22.6	
Turning Angle	Inner		43°	
	Outer		32°	
Brake				
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit	
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 85 x 10 (ø320 x 110 x 11 : OPT)	
		Rear		
	Vacuum reservoir		7 ℓ	
Adjuster		Auto adjuster (OPT)		
Parking Brake	Actuation		Internal expanding type on propellarshaft at the rear of transmission assy	
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø180 x 35 x 5 (D4AL, D4DC) 	

4. Electrical system

ITEM	MODEL	HD72
Electrical Equipments		
Head lamps		MFR Type (Semi-Sealed Type for RHD models)
Front combination lamps		Turn signal / Hazard-Amber , Position - White
Fog lamps		White (Yellow : RHD)
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 & trip counter /
		Combined meter included fuel & water temperature gauges
Warning lamps & indicators		Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge
		Tell-tale lights for head light high beam / Turn signals / Door open(DLX Only)
		Exhaust Brake / Seat belt
Horn		Single , electric type

5. Body

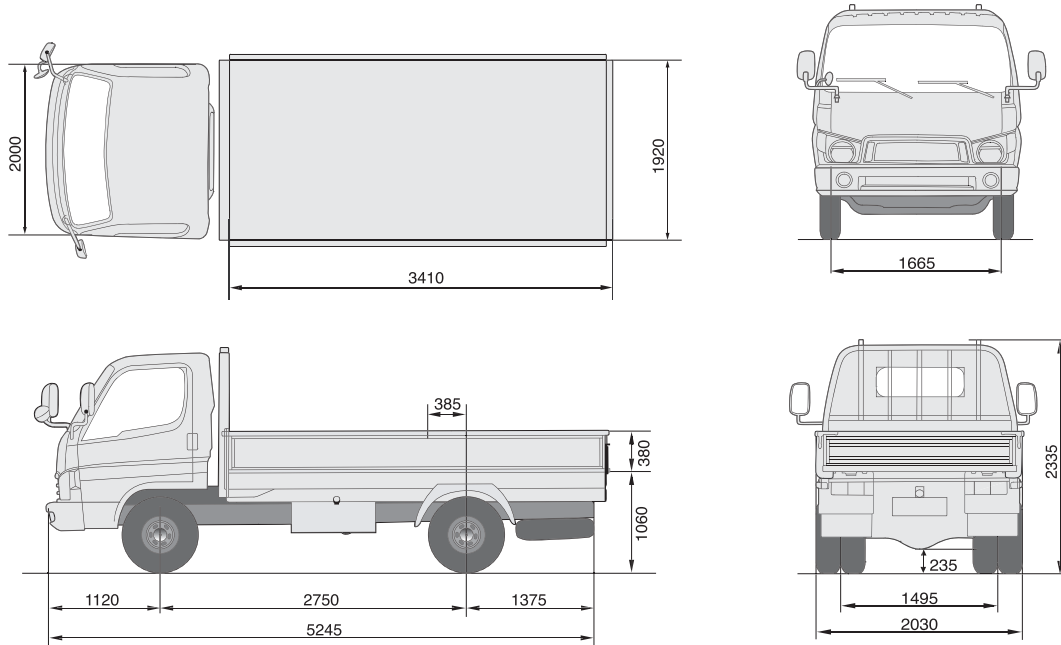
ITEM	MODEL	HD72
Cab		
Type		Tilt type with torsion bars, all steel welded construction with safety zone design
Mounting		Rigid or Semi floating type
Windshield		One piece type with laminated glass
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat		Urethane foam cushioned adjustable to the front & rear / reclining , semi cloth or simulated leather material
Assistant's Seat		Bench seat , Semi cloth(DLX), Simulated leather material(STD)
Body type		
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		Steel panel

Annotations

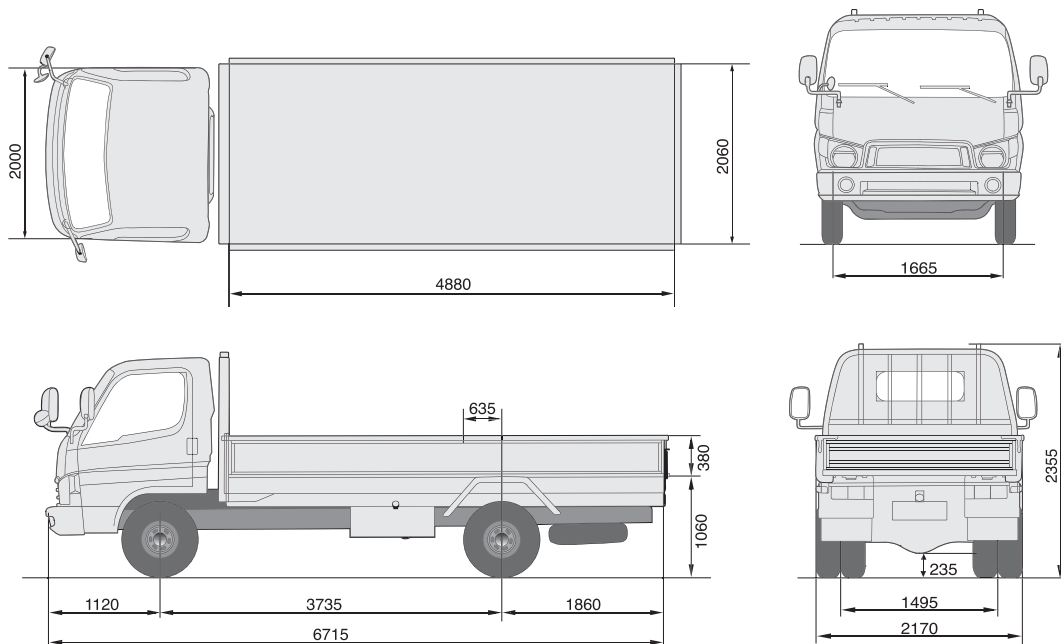
- 1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.
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- 3) The vehicle specifications may differ per country.
- 4) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

6. Dimensions

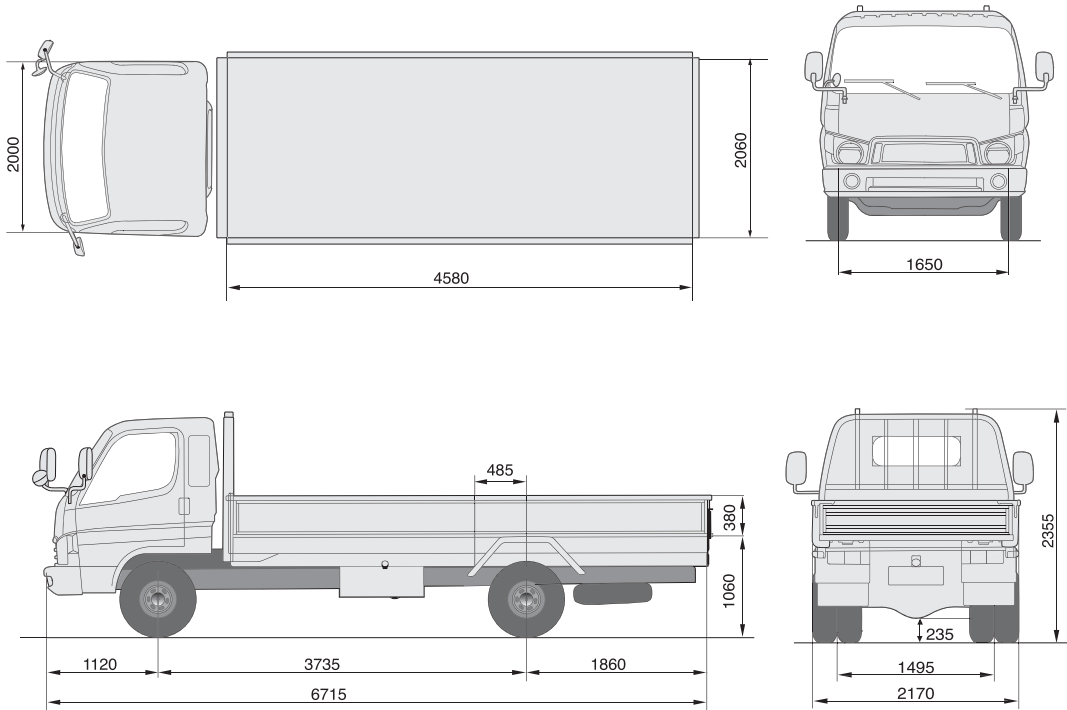
Short Wheelbase HD72 Wide (D4DC)



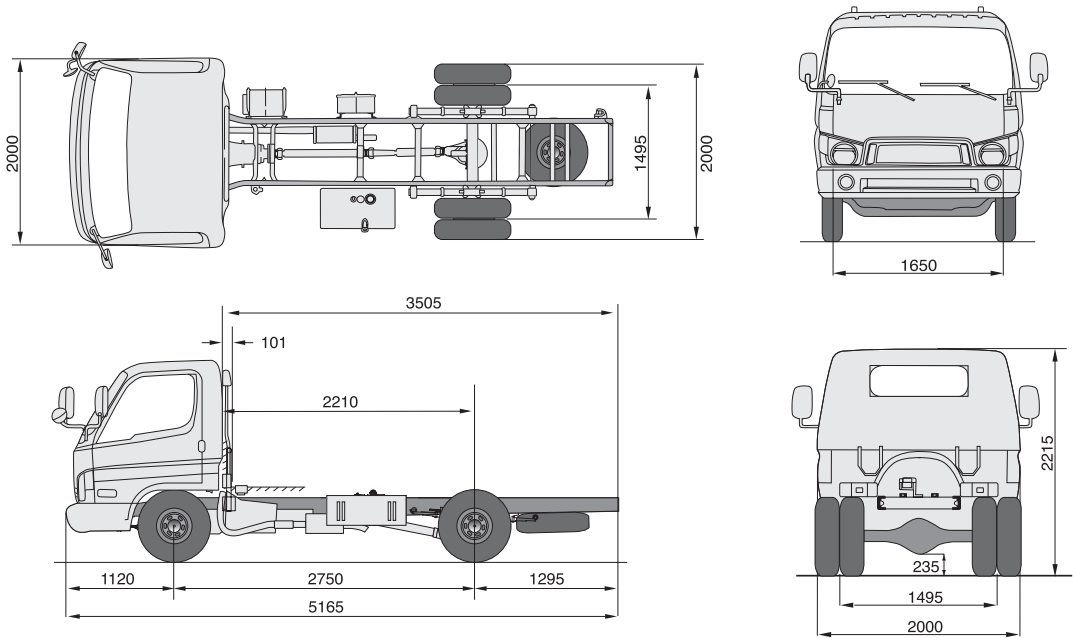
Long Wheelbase HD72 Wide (D4DC)



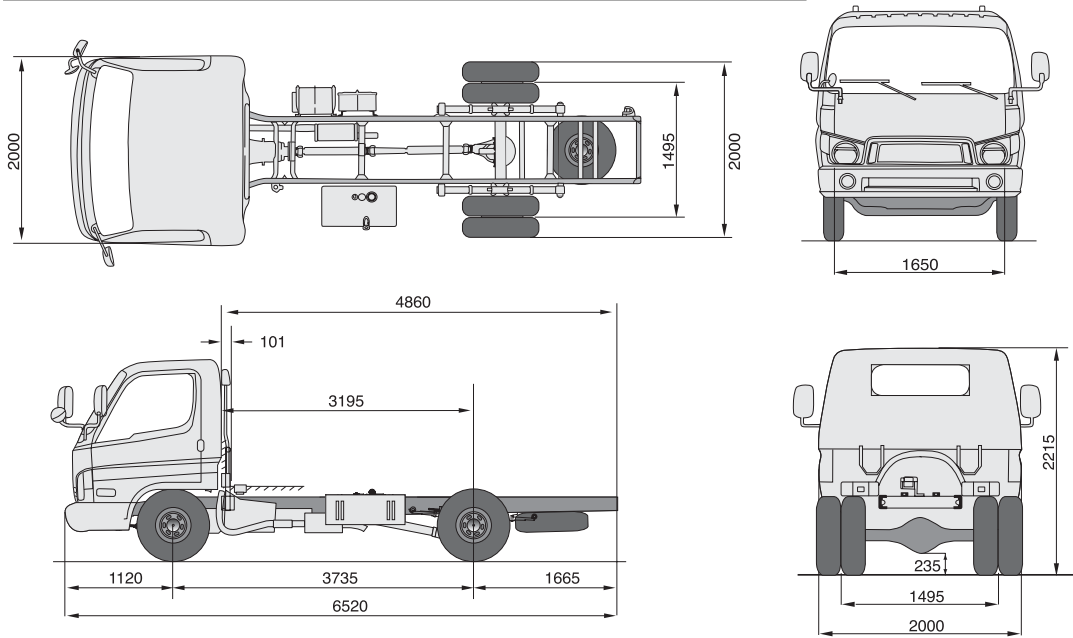
Long Wheelbase **HD72 Super Cab (D4DC)**



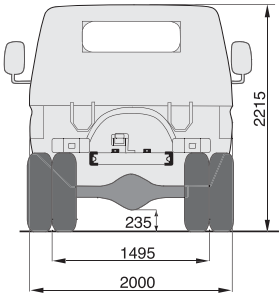
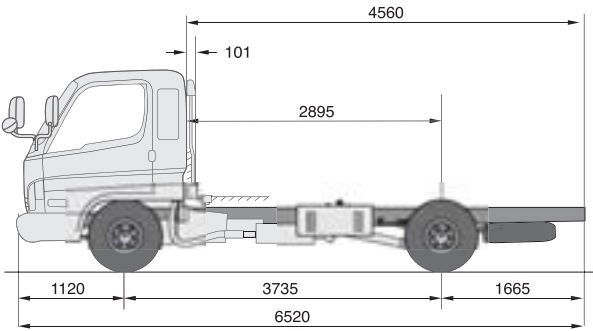
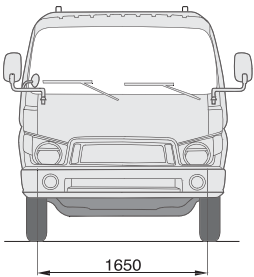
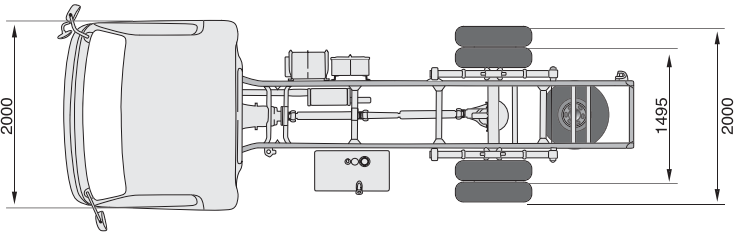
Short Wheelbase HD72 Wide (D4DC)



Long Wheelbase HD72 Wide (D4DC)



Long Wheelbase **HD72 Super Cub (D4DC)**



1. Dimension, Weights

ITEM		MODEL	HD78						
Cab	Width	Wide	Wide			Wide			
	Length	Standard	Standard			Super			
Deck Height		High	High			High			
Wheel Base		Short	Long			Long			
Drive System		4 x 2							
Application Engines		D4DD	D4DC	D4DB	D4DD	D4DC	D4DB	D4DD	
Dimensions (mm)									
Wheel Base		2,780	3,735		3,735	3,735		3,735	
Overall (Cargo)	Length	5,275	6,715		6,715	6,715		6,715	
	Width	2,030	2,170		2,170	2,170		2,170	
	Height	2,355	2,355		2,355	2,355		2,355	
Overall (C/Cab)	Length	5,195	6,520		6,515	6,520		6,515	
	Width	2,000	2,000		2,000	2,000		2,000	
	Height	2,270	2,215		2,270	2,215		2,270	
Wheel Tread	Front	1,667	1,650		1,667	1,650		1,667	
	Rear	1,495	1,495		1,495	1,495		1,495	
Overhang (Cargo)	Front	1,120	1,120		1,120	1,120		1,120	
	Rear	1,375	1,860		1,860	1,860		1,860	
Overhang (C/Cab)	Front	1,120	1,120		1,120	1,120		1,120	
	Rear	1,295	1,665		1,660	1,665		1,660	
Deck size	Length	3,410	4,880		4,850	4,580		4,580	
	Width	1,920	2,060		2,060	2,060		2,060	
	Height	380	380		380	380		380	
	Floor Height	1,070	1,060		1,070	1,060		1,070	
Body Offset		385	635		620	485		485	
C.A (Cab to rear axle)		2,240	3,195		3,195	2,895		2,895	
C.E (Cab to end of frame)		3,535	4,860		4,855	4,560		4,555	
Min. Ground Clearance		235	235		235	235		235	
Weight (kg)									
Empty Vehicle Weight (Cargo)			3,005	3,110	3,165	3,165	3,375	3,180	3,160
		Front	1,685	1,725	1,760	1,760	1,965	1,730	1,730
		Rear	1,320	1,385	1,405	1,405	1,410	1,450	1,430
Curb Weight (Chassis & Cab)			2550	2,525	2,570	2,575	2,545	2,590	2,595
		Front	1605	1,620	1,650	1,660	1,620	1,650	1,665
		Rear	945	905	920	915	925	940	930
** Max. Gross Vehicle Weight			7,800						
		Front	3,100						
		Rear	4,700						

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

2. Performance

ITEM		MODEL						
		HD78						
Application Engines		D4DD	D4DC	D4DB	D4DD	D4DC	D4DB	D4DD
Calculated Performance								
Max. Speed	km/h	119	109/103	116	119	109/103	116	119
Max. Gradeability	tan θ	0.322	0.260	0.312	0.322	0.260	0.312	0.322
Min. Turning Radius	m	5.2	7.3			7.3		

3. Chassis

ITEM		MODEL	HD78		
Engine					
Model		D4DC	D4DB	D4DD	
Type		Natural Aspiration	Turbo Charger Intercooler		
		4 stroke-cycle, water-cooled, direct-injection diesel engine			
Number of Cylinde		4 in-line			
Piston Displacement (cc)		3,907	3,907		
Bore x Stroke (mm)		104 x 115	04 x 115		
Compression Rati		18.1 : 1	18 : 1	17.5 : 1	
Max. Power (ps/rpm)**	General	-	-	-	
	Euro I	120/3200	155(Gen).130(Tropic/Cold)/2,900		-
	Euro II	-	130 / 2,900		-
	Euro III	-	-	140/2800	
Max. Torque (kg.m/rpm)**	General	-	-	-	
	Euro I	30/2000	38 / 1,800		-
	Euro II	-	38 / 1,800		-
	Euro III	-	-	38/1600	
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling , Forced circulation by centrifugal water pump			
	Cooling fan	Polyamid & Suction type			
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank			
Electrical Syste	Battery	MF 90AH			
	Alternator	24V-40A		24V-50A	
	Starter	24V-5.0KW		24V-5.0KW	
Fuel System	Injection pump	DooWon in-line type		Denso common rail system	
	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	Shell-and-plate type			
	Oil grade	API classification service CF-4 or above			
Air cleane		Cyclonic dry paper element			
Valve System		Single Overhead Valve , Two valves per cylinder			
Clutch					
Type		Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper			
Facing material		Non-Asbestos			
Facing Size (mm) ; Outside dia. ×Inside dia.		ø300 x ø190			
Transmission					
Model		M035S5 (Over Drive)			
Type		5 forward and 1 reverse speed , 1st to 5th synchromesh, reverse constant-mesh gears			
Gear Ratio	1st	5.380			
	2nd	3.028			
	2nd	1.700			
	4th	1.000			
	5th	0.722			
	Reverse	5.380			
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)			
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control			

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

3. Chassis

ITEM		MODEL	HD78		
Engine			D4DC	D4DB	D4DD
Propellershaft					
Model			P3		
Type			Tubular, Forged steel ends with center bearing		
Size (Tube diameter x Thickness)			ø 76.2 x 2.6 t		
Rear Axle					
Model			D3H	D033H	
Type			Full floating type		
Capacity		kg	4,700		
Final Reduction Gear	Type	Single Reduction , Hypoid gear			
	G/Ratio	6.166/6.666		5.428	
Gear Oil			API classification service GL-5 and SAE classification service 80W/90 (85W/140 ;Tropical zones only)		
Front Axle					
Type			Reverse Elliot type " I " beam		
Capacity		kg	3,100		
Tire & Wheel					
Type			Single Front , Dual Rear		
Tire	Front	7.50R x 16 - 12 PR / (OPT: 14 PR)			
	Rear				
Wheel	Front	6.00 GS x 16 SDC-127			
	Rear				
Steering					
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column		
Steering Wheel Diameter (mm)	Manual	-			
	Power	410			
Tilting Angle			55.5° ~ 62.2°		
Telescopic Stroke		mm	23.6		
Overall Steering Gear Ratio	Manual	-			
	Power	22.6			
Turning Angle	Inner	44.5 °			
	Outer	32 °			
Brake					
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit		
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 110 x 11		
		Rear			
	Vacuum reservoir		7 ℓ (D4DD: 9 ℓ)		
Adjuster		Auto adjuster (OPT)			
Parking Brake	Actuation		Internal expanding type on propellarshaft at the rear of transmission assy		
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø180 x 35 x 5 (D4DC) ø190 x 45 x 4 (D4DB-d, D4DB, D4DD)		
Exhaust Brake			Vacuum operated, butterfly valve type		

3. Chassis

ITEM		MODEL		HD78		
Engine				D4DC	D4DB	D4DD
Suspension						
Type		Front / Rear		Semi-elliptic , laminated leaf springs with shock absorber		
Spring Size (Length x Width x Thickness- Number of leaves)		Front		1,200 x 70 x 11t-2,10t-4(LH) & 1,200 x 70 x 11t-3,10t-3(RH)		
		Rear	Main	1,250 x 70 x 10 t-1 + 11t-5		
			Helper	990 x 70 x 11 t - 2, 12t-2		
Shock absorber				Hydraulic double acting telescopic type on the front & rear axles		
Cooling system						
Radiator				Tube-and-Corrugated fin type		
		Rows of tubes		2		
		Core size (mm)		Width x Height x Thickness ; 534 x 570 x 42		
Cooling Fan				Fixed or Auto clutched type		
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				100 liter		
Material				Steel		
Frame						
Type				"H" type frame with channel sectional side rail & cross members ,		
				side rail is reinforced with outer stiffeners		
Main section side rail dimension		mm		Depth x Flange x Thickness : 193 x 60 x 6 t		

4. Electrical system

ITEM		MODEL	HD78
Electrical Equipments			
Head lamps			M.F.R Type
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
Meter			Speedometer with odometer & trip counter /
			Combined meter included fuel & water temperature gauges
Warning lamps & indicators			Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge
			Tell-tale lights for head light high beam / Turn signals / Door open(DLX Only)
			Exhaust BrakeSeat belt
Horn			Single , electric type

5. Body

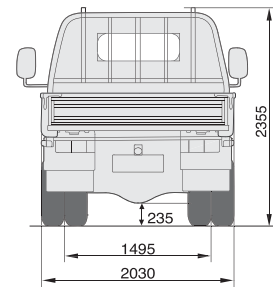
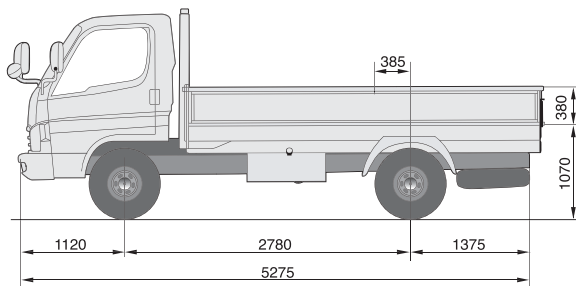
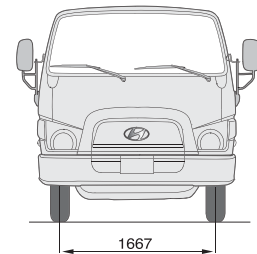
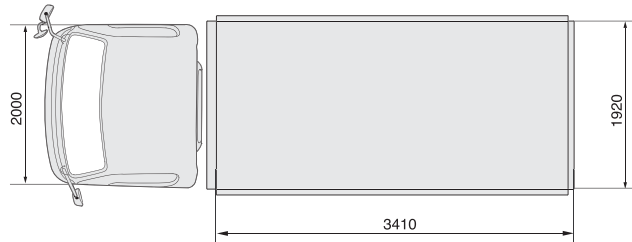
ITEM		MODEL	HD78
Cab			
Type		Tilt type with torsion bars, all steel welded construction with safety zone design	
Mounting		Rigid or Semi floating type	
Windshield		One piece type with laminated glass	
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer	
Driver's Seat		Urethane foam cushioned adjustable to the front & rear / reclining , semi cloth or simulated leather material	
Assistant's Seat		Bench seat , Semi cloth(DLX), Simulated leather material(STD)	
Body type			
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		Steel panel	

Annotations

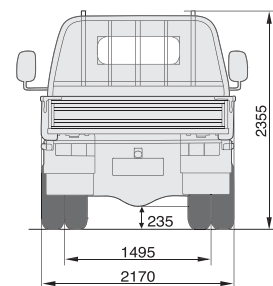
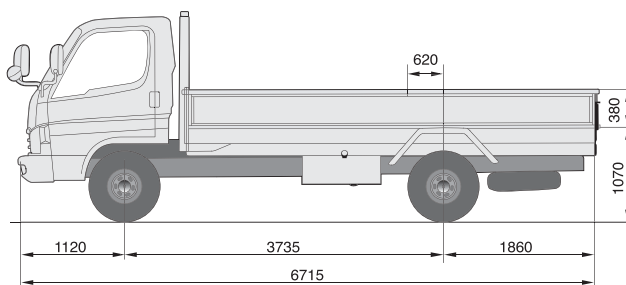
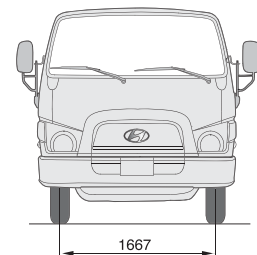
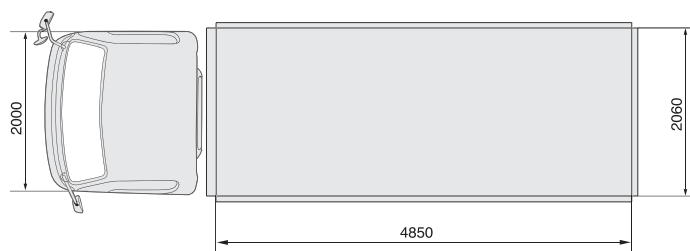
- 1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.
- 2) Empty vehicle weight and curb weight include weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set.
- 3) The vehicle specifications may differ per country.
- 4) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

6. Dimensions

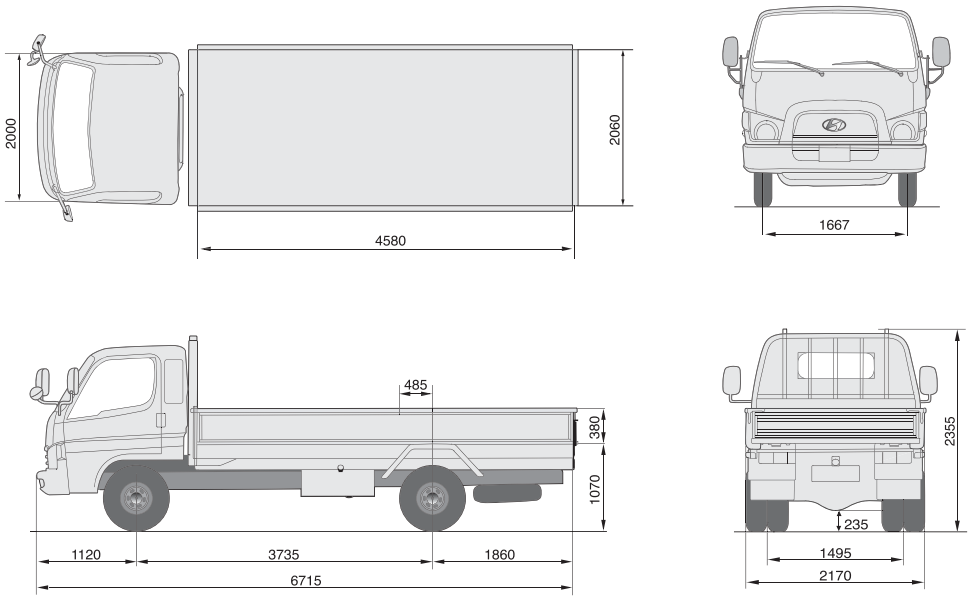
Short Wheelbase HD78 (D4DD)



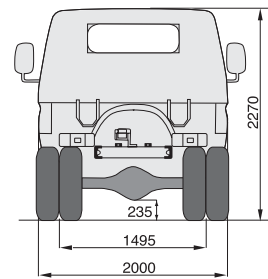
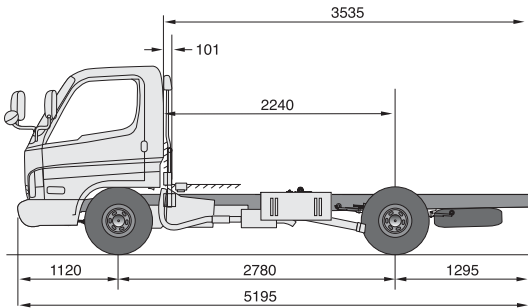
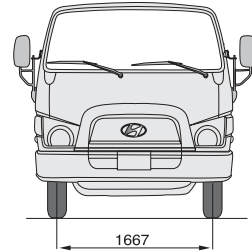
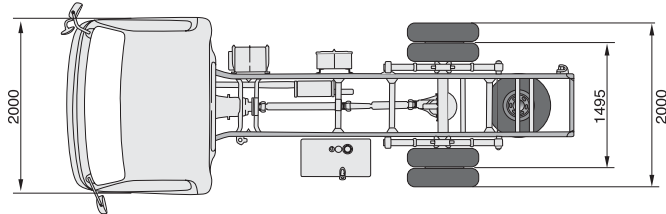
Long Wheelbase HD78 (D4DD)



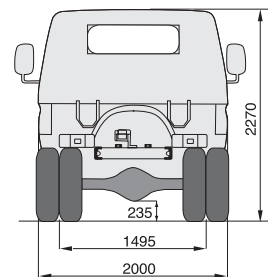
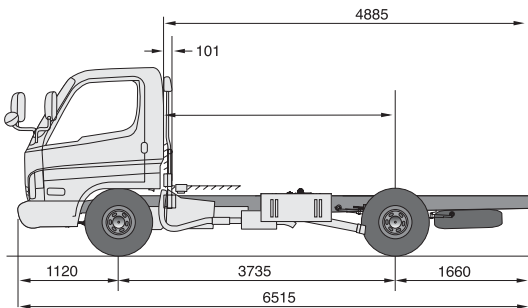
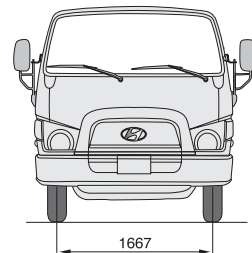
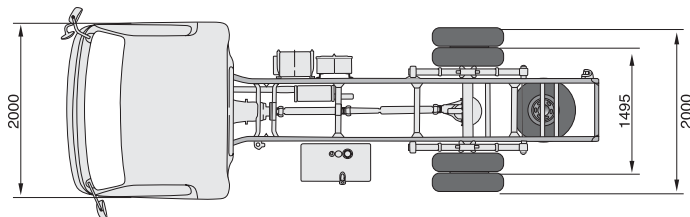
Long Wheelbase **HD78 Super Cub (D4DD)**



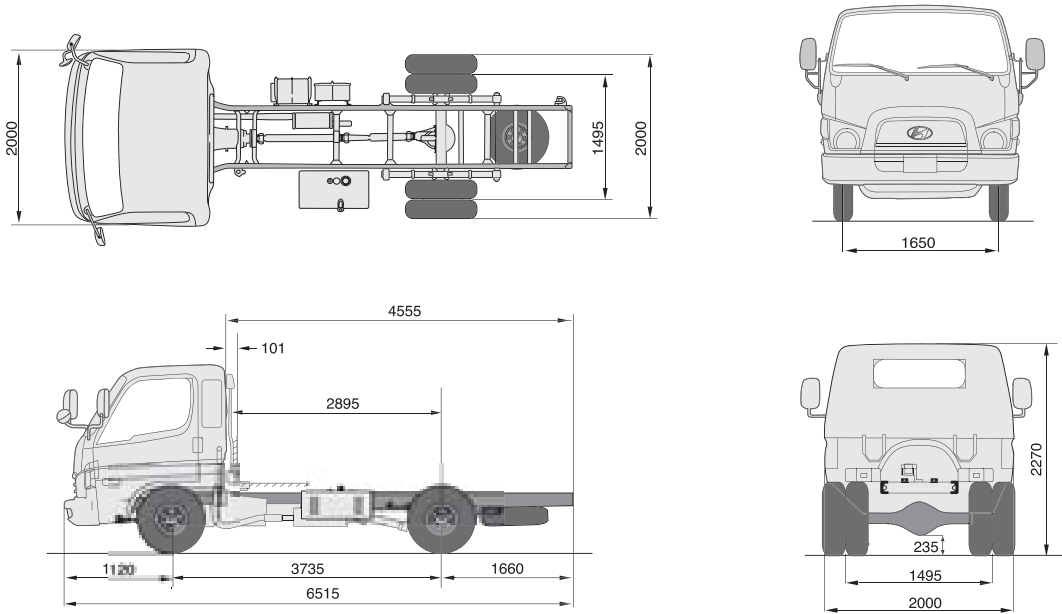
Short Wheelbase HD78 Wide (D4DD)



Long Wheelbase HD78 Wide (D4DD)



Long Wheelbase **HD78 Super Cab (D4DD)**



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							

CARGO

2. Performance Specification

ITEM \ MODEL	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			

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 °		

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

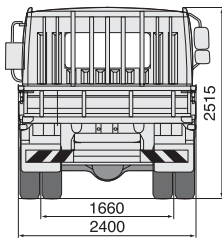
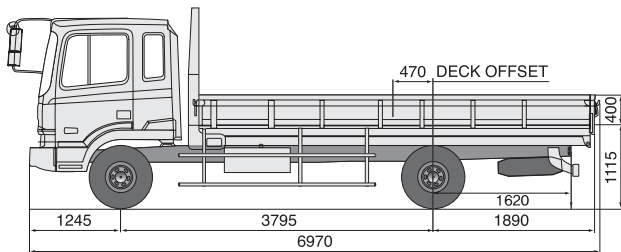
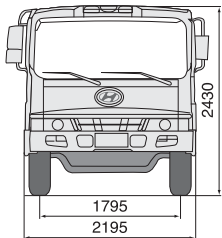
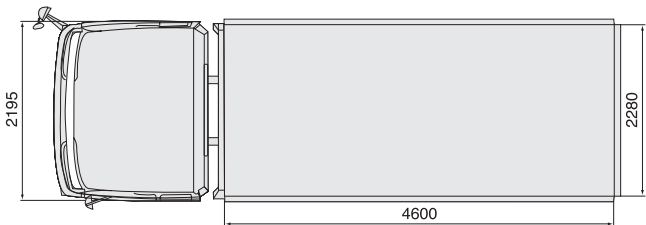
ITEM	MODEL	HD120
Electrical Equipments		
Head lamps		Semi sealed beam
Front combination lamps		Turn signal / Hazard-Amber , Position-White
Fog lamps		Yellow
Rear combination lamps		Turn Signal / Hazard-Amber , Tail / Stop- Red
License plate lamp		White
Back-up lamp		White
Instruments		
Meter Cluster		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

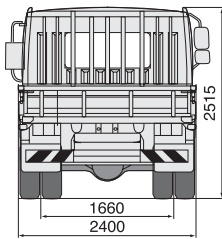
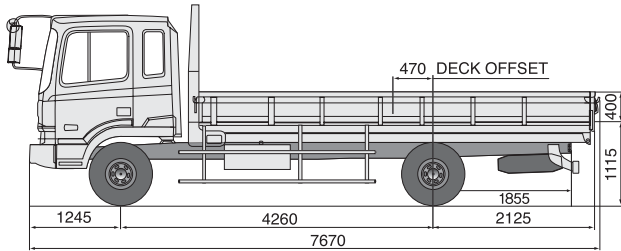
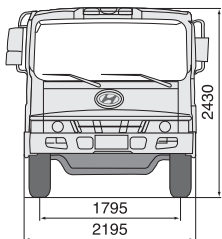
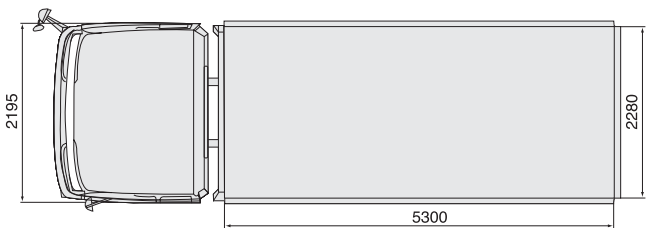
ITEM	MODEL	HD120
Cab		
Type		Manual cab tilting with torsion bar , all steel welded construction with safety zone design
Mounting		Semi-Floating Cab
Windshield		One piece type with laminated glass
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat		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

6. Dimensions

Short Wheelbase HD120 (D6DA)

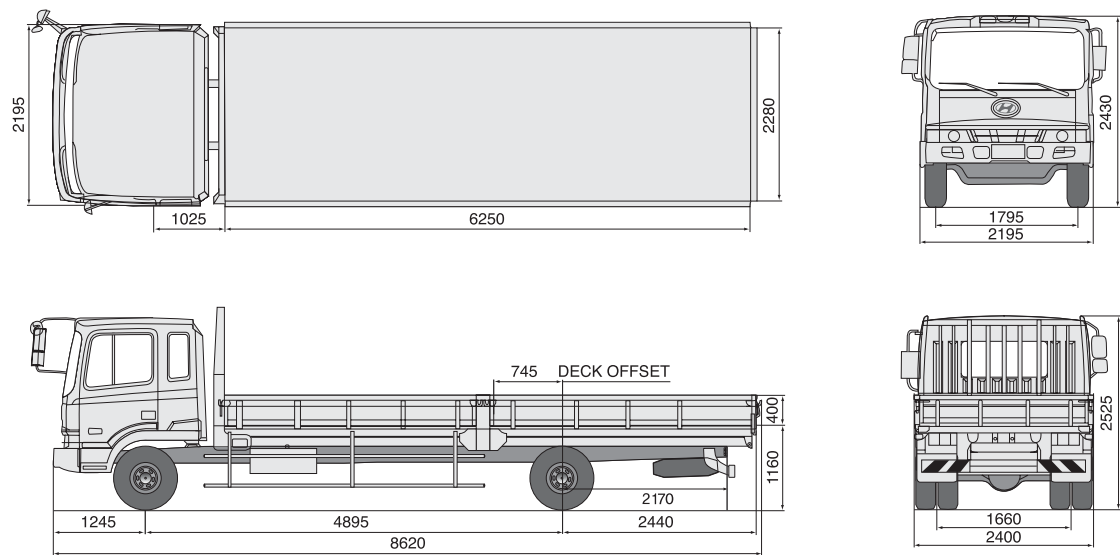


Long Wheelbase HD120 (D6DA)



Extra - Long Wheelbase

HD120 (D6DA)



1. Dimension, Weights Specification

ITEM \ MODEL		HD160		HD170			
Vehicle Type		Cargo					
Cab Type		Sleeper Cab					
Deck Height		High Deck					
Wheel Base		Short	Long	Short		Long	
Drive System		LHD , 4 x 2					
Application Engines		D6BR		D6AV	D6AB-D	D6AV	D6AB-D
Dimensions (mm)							
Wheel Base		4,395	5,850	4,395		5,850	
Overall (C/Cab)	Length	7,850	9,525	7,850		9,525	
	Width	2,495	2,495	2,495		2,495	
	Height	3,130	3,130	3,130		3,130	
Wheel Tread	Front	2,040	2,040	2,040		2,040	
	Rear	1,850	1,850	1,850		1,850	
Overhang (C/Cab)	Front	1,495	←	←		←	
	Rear	1,960	2,180	1,960		2,180	
Min. Ground Clearance		285	275	285		285	
Weight (kg)							
Chassis Cab Weight		5,830	5,940	6,200	6,330	6,310	6,440
	Front	3,490	3,560	3,850	3,960	3,920	4,030
	Rear	2,340	2,380	2,350	2,370	2,390	2,410
Max. Gross Vehicle Weight **		17,350					
	Front	6,550					
	Rear	10,800					

2. Performance Specification

ITEM \ MODEL		HD160		HD170			
Application Engines		D6BR		D6AV	D6AB-D	D6AV	D6AB-D
Calculated Performance							
Max. Speed	km/h	109	103	99	120	99	120
Max. Gradeability	tan θ	0.193	0.195	0.278	0.341	0.274	0.332
Min. Turning Radius	m	7.5	9.9	7.5		10.1	

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

HYUNDAI CARGO TRUCK | HD160 / HD170

CARGO

3. Chassis Specification

ITEM		MODEL	HD160	HD170	
Engine					
Mode			D6BR	D6AV	D6AB-D
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	11,149	
Bore x Stroke (mm)			118 x 115	130 x 140	
Compression Ratio			17.5 : 1	17 : 1(General), 17.5 : 1 (Euro I)	17 : 1
Max. Power ** (ps/rpm)	General		185 / 2,900	235 / 2,200	-
	Euro I		167 / 2,900	220 / 2,200	-
	Euro II/ III		-	-	290 / 2,000
Max. Torque ** (kg.m/rpm)	General		51 / 1,400	78 / 1,400	-
	Euro I		46 / 1,400	75 / 1,400	-
	Euro II/III		-	-	110 / 1,200
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-40A	24V-60A	
	Starter		24V-5.0kw	24V-5.5kw	
Fuel System	Injection pump		Bosch in-line type	DPICO in-line type	Bosch in-line type
	Governor		All speed type	Min-Max Speed(RFD)	All Speed Type(RLD-J)
	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		
	Oil grade		API service classification CF-4 or above		
Air cleaner			Cyclonic dry paper element	Single Overhead Valve , Two valves per cylinder	
Valve System			Single Overhead Valve , Two valves per cylinder		
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.			ø380 x ø240	ø410 x ø250	ø430 x ø250

** 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.

HYUNDAI CARGO TRUCK | HD160 / HD170

3. Chassis Specification

ITEM		MODEL	HD160	HD170	
Engine			D6BR	D6AV	D6AB-D
Transmission					
Model			M8S5 (Direct Drive)	M8S5 (Over Drive)	M10S6 (Over Drive)
Type			5 forward and 1 reverse speed , 2nd to 5th synchromesh , 1st & reverse constant-mesh gears		6 forward and 1 reverse speed , 2nd to 6th synchromesh , 1st & reverse constant-mesh gears
Gear Ratio	1st		6.552	5.431	6.552
	2nd		4.178	3.436	4.178
	3rd		2.415	1.747	2.415
	4th		1.397	1.000	1.621
	5th		1.000	0.741	1.000
	6th		-	-	0.758
	Reverse		6.849	5.677	6.849
Gear Oil			API service classification GL-5 and SAE service classification 80W/90(85W/140 ;Tropical zones only)		
T.G.S. (Transmission Gear Shift)			Floor shift , Mechanical remote control		
Propellershaft					
Model			P9	P10	P12
Type			Tubular, Forged steel ends with center bearing		
Size (Tube diameter x Thickness)			ø88.9 x 4.0 t	ø88.9 x 4.0 t	ø 101.6 x 5.0 t
Rear Axle					
Model			D10H		
Type			Full floating type		
Capacity (kg)			11,500		
Final Reduction Gear	Type		Single Reduction , Hypoid gear		
	G/Ratio		6.166		4.333
Gear Oil			SAE service classification 80W / 90W (80W / 140W : Tropical zones only)		
Front Axle					
Type			Reverse Elliot type " I " beam		
Capacity (kg)			7,000		
Tire & Wheel					
Type			Single Front , Dual Rear		
Tire	Front	11.00 x 20 - 14PR/16PR	11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)		
	Rear				
Wheel	Front	7.5V x 20 - 165	7.5V x 20 - 165 (STD) , 8.25T x 22.5-165 (OPT)		
	Rear				
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			22.2		
Turning Angle	Inner		49 °		
	Outer		39 °		

HYUNDAI CARGO TRUCK | HD160 / HD170

3. Chassis Specification

ITEM		MODEL	HD160		HD170	
Engine			D6BR		D6AV	D6AB-D
Brake						
Service Brake	Actuation		Full Air, Dual circuit fixed S cam with spring loaded chambers			
	Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ø 410 x 156 x 19			
		Rear	Drum dia. x Lining width x Lining thickness : ø 410 x 220 x 19			
	Compressed air reservoir		85 ℓ			
	Total lining area		6,081 cm²			
Parking Brake	Actuation		Spring loaded type chamber on the rear wheels			
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø410 mm x 220 mm x 19 mm			
	Total lining area		3,558 cm²			
Exhaust Brake			Air operated, butterfly valve type			
Suspension						
Type	Front		Semi-elliptic , parabolic leaf springs with shackle link (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 23 t - 3			
	Rear	Main	1,600 x 90 x 13 t - 9			
		Helper	1,190 x 90 x 12 t - 8	1,190 x 90 x 12 t - 9		
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)		730 x 700 x 49		730 x 810 x 49	
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(For D6AB-D for Euro3 Emssion)			
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 side rail (mm)			Depth x Flange x Thickness : 302 x 90 x 8 t			

4. Electrical system Specification

ITEM	MODEL	HD160	HD170
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 Meters		Fixed type	
		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	

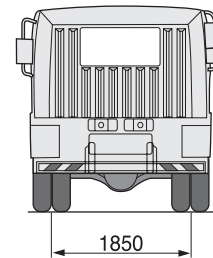
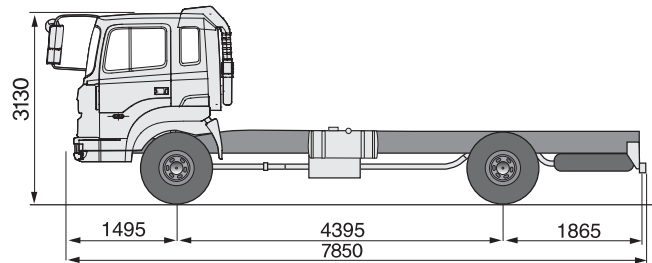
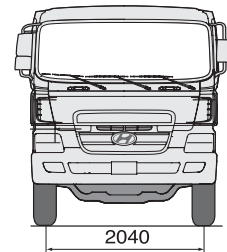
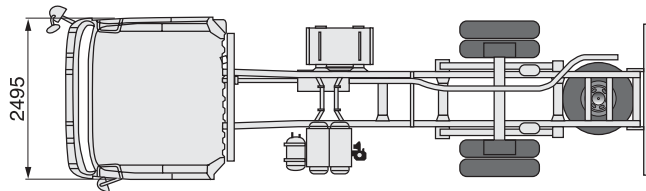
5. Body

ITEM	MODEL	HD160	HD170
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	
Assistant's Seat		Spring & Urethane foam cushioned, Vinyl material	

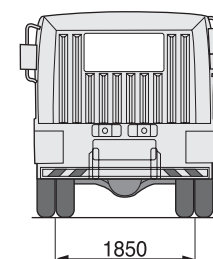
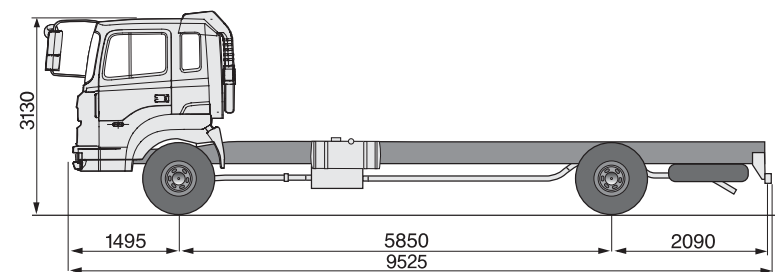
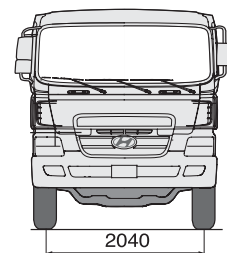
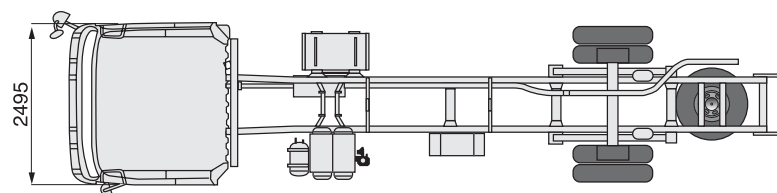
HYUNDAI CARGO TRUCK | HD160 / HD170

6. Dimensions

Short Wheelbase HD160 (D6BR)

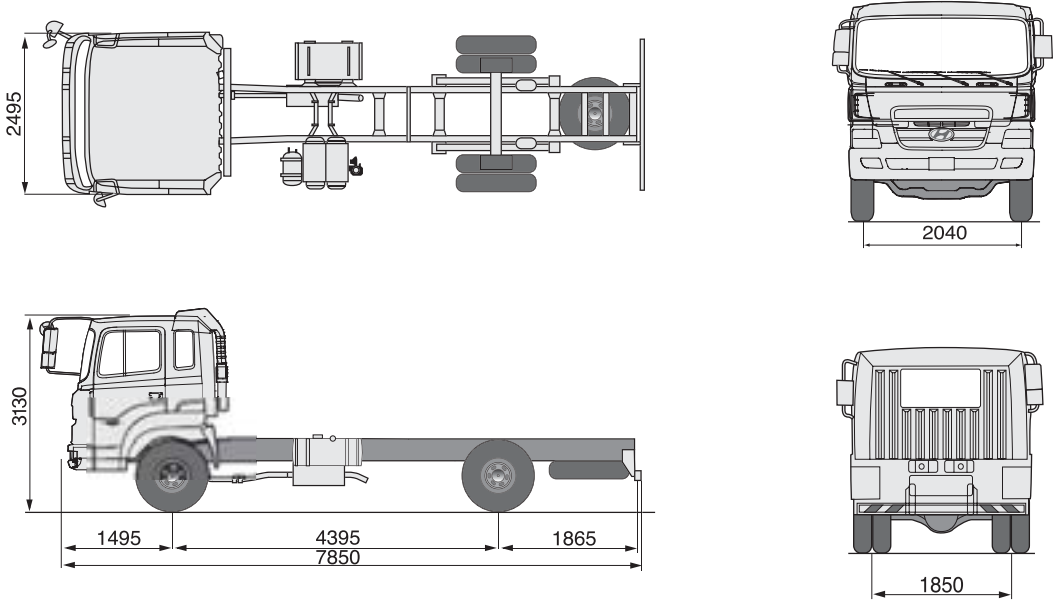


Long Wheelbase HD160 (D6BR)



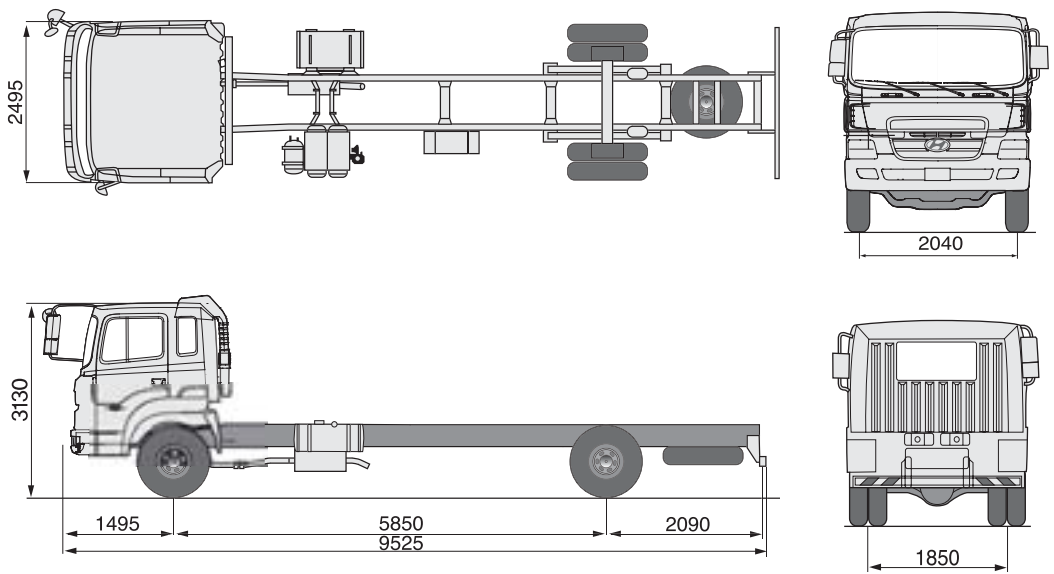
Short Wheelbase

HD170 (D6AV, D6AB-d)



Long Wheelbase

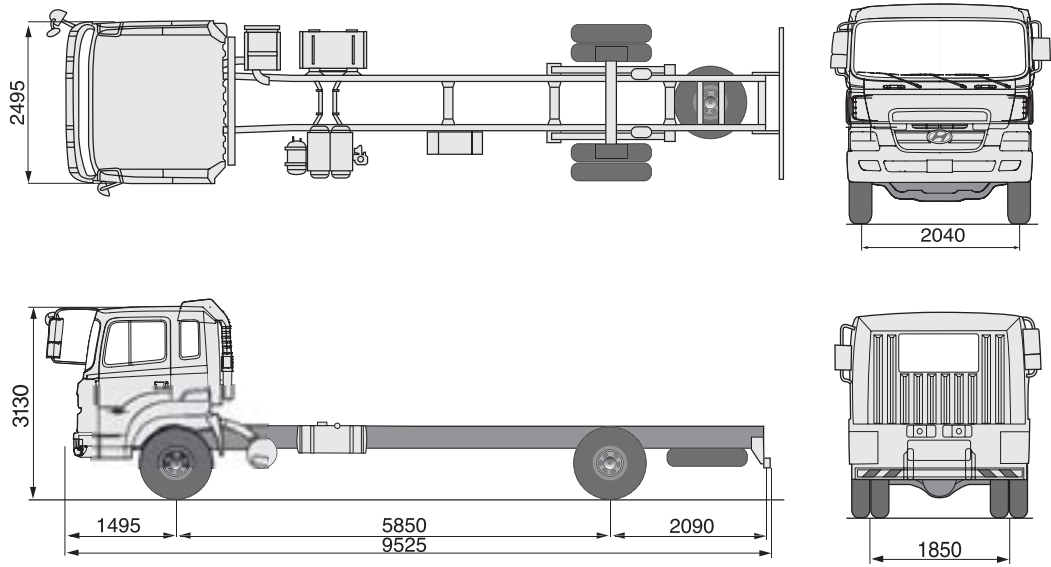
HD170 (D6AV)



HYUNDAI CARGO TRUCK | HD160 / HD170

CARGO

Long Wheelbase HD170 (D6AB-D)



1. Dimension, Weights Specification

ITEM		MODEL	HD250		HD260							
Vehicle Type			Cargo									
Cab Type			Sleeper Cab									
Deck Height			High Deck									
Wheel Base			Long	Short	Medium							
Drive System			LHD , 6 x 4									
Application Engines			D6AC / D6CB3H	D6AC	D6CB3H	D6AC	D6CA38 / D6CB3H					
Dimensions (mm)												
Wheel Base			6,950 (5,650 + 1,300)		5,650 (4,350 + 1,300)		6,100 (4,800 + 1,300)					
Overall (C/Cab)	Length		11,610		9,635		10,310					
	Width		2,495		2,495		2,495					
	Height		3,130		3,130		3,130					
Wheel Tread	Front		2,040		2,040		2,040					
	Rear		1,850		1,850		1,850					
Overhangl (C/Cab)	Front		1,495		←		←					
	Rear		3,165		2,490		2,715					
Min. Ground Clearance			285		285		285					
Weight (kg)												
Chassis Cab Weight			8,840		8,350		8,450		8,795			
			Front		4,275		4,190		4,230		4,445	
			Rear		4,565		4,160		4,220		4,350	
Max. Gross Vehicle Weight **					28,150							
			Front		6,550							
			Rear		10,800 x 2							

2. Performance

ITEM		MODEL	HD250	HD260		
Application Engines			D6AC / D6CB3H	D6AC	D6CB3H	D6CA38 / D6CB3H
Calculated Performance						
Max. Speed	km/h		120	118	115	128
Max. Gradeability	tan θ		0.353	0.327	0.333	0.333
Min. Turning Radius	m		10.4	8.1	8.8	8.8

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

3. Chassis Specification

ITEM		MODEL	HD250 / HD260		
Engine					
Model		D6AC	D6CA38	D6CB3H	
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	12,300	
Bore x Stroke (mm)		130 x 140	133 x 155	130 x 155	
Compression Ratio		16.5 : 1 (Euro1) , 17 : 1 (Euro2)	17 : 1	←	
Max. Power ** (ps/rpm)	General	-	-		
	Euro I	340 / 2,200	-		
	Euro II	340 / 2,000	380 / 1,900	-	
	Euro III	-	-	380 / 1,900	
Max. Torque ** (kg.m/rpm)	General	-	-		
	Euro I	140 / 1,400	-		
	Euro II	148 / 1,200	148 / 1,500	-	
	Euro III	-	-	160 / 1,200	
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		
	Starter	24V-5.5kw	24V-6.0kw		
Fuel System	Injection pump	DPICO in-line type (Euro1)	Delphi EUI system		
		Bosch in-line type (Euro2)			
	Governor	All Speed type (RLD-J)	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 CD or above			
Valve System		Single Overhead Valve , Two valves per cylinder			
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			

** 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.

HYUNDAI CARGO TRUCK | HD250 / HD260

3. Chassis Specification

ITEM		MODEL	HD250			HD260			
Engine			D6AC		D6CB3H	D6AC		D6CA38	D6CB3H
Transmission									
Model			M12S6 (Over Drive)	H160S6 (Over Drive)		M12S6 (Over Drive)			H160S6 (Over Drive)
			Euro1	Euro2	Euro3	Euro1	Euro2	Euro2	Euro3
Type			6 forward and 1 reverse speed , 2nd to 6th synchromesh , 1st & reverse constant-mesh gears						
Gear Ratio	1st		7.213			→	6.814		7,213
	2nd		4.178			→	3.948		4,178
	3rd		2.587			→	2.444		2,587
	4th		1.621			→	1.531		1.621
	5th		1.000			→	1.000		1,000
	6th		0.702			→	0.664		0,702
	Reverse		7.081			→	6.690		7.081
Gear Oil			API service classification GL-5 and SAE service classification 80W/90 (85W/140 : Tropical zones only)						
T.G.S. (Transmission Gear Shift)			Floor shift , Mechanical remote control						
Propellershaft									
Model			S1810						
Type			Tubular, Forged steel ends with center bearing						
Size (Tube diameter x Thickness)			ø 114.3 x 6.6 t						
Rear Axle									
Model			D10HT						
Type			Full floating type						
Capacity (kg)			23,000 (11,500 x 2)						
Final Reduction Gear	Type		Single Reduction , Hypoid gear						
	G/Ratio		5.571	5.143	4,875	5.571 / 6.166		5.571	5,143
Gear Oil			SAE service classification 80W / 90W (80W / 140W : Tropical zones only)						
Front Axle									
Type			Reverse Elliot type " I " beam						
Capacity (kg)			7,000						
Tire & Wheel									
Type			Single Front , Dual Rear						
Tire	Front		11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)						
	Rear								
Wheel	Front		7.5V x 20 - 16S (STD) , 8.25T x 22.5-16S (OPT)						
	Rear								
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 °						

HYUNDAI CARGO TRUCK | HD250 / HD260

3. Chassis Specification

ITEM		MODEL	HD250	HD260	
Engine			D6AC / D6CB3H	D6AC	D6CA38 / D6CB3H
Brake					
Service Brake	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 : ø 410 x 220 x 19		
	Compressed air reservoir		120 ℓ		
	Total lining area		9,639 cm²		
Parking Brake	Actuation		Spring loaded type chamber on the front wheel and the 1st rear wheel		
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø410 mm x 156 mm x 19 mm		
			Drum diameter x Lining width x Lining thickness : ø410 mm x 220 mm x 19 mm		
Total lining area		7,116 cm²			
Exhaust Brake			Air operated, butterfly valve type		-
Jake Brake			-		Injection Cam operated type
Suspension					
Type	Front		Semi-elliptic , parabolic leaf springs with shackle link (Taper leaf spring)		
	Rear		Semi-elliptic , laminated leaf springs with shackle link (Multi leaf spring)		
Spring Size	Front		1,500 x 90 x 23 t - 3		
(Length x Width x Thickness-	Rear	Main	1,480 x 90 x (20 t - 3 & 18t - 8)		
Number of leaves)		Helper	-		
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)		730 x 810 x 49	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, 380 liter	200 liter, 400 liter, 380 liter	
Material			Steel , Aluminum		
Frame					
Type			"H" type frame with channel sectional side rail & cross members		
Main side rail (mm)			Depth x Flange x Thickness : 302 x 90 x 8 t		

4. Electrical system Specification

ITEM	MODEL	HD250	HD260
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 & 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	

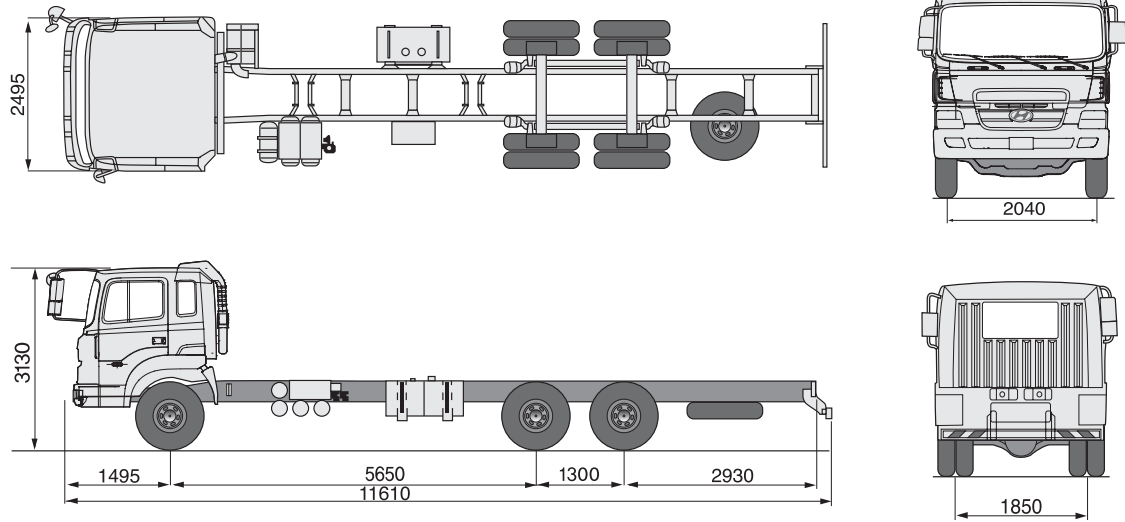
5. Body

ITEM	MODEL	HD250	HD260
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	
Assistant's Seat		Spring & Urethane foam cushioned, Vinyl material	

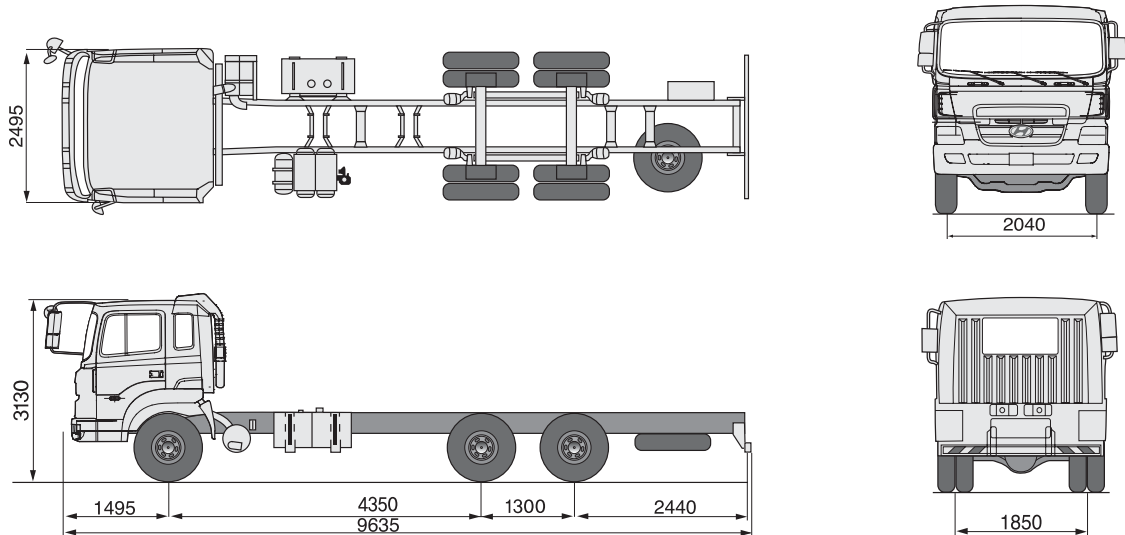
HYUNDAI CARGO TRUCK | HD250 / HD260

6. Dimensions

Long Wheelbase HD250(D6AC, D6CB3H)

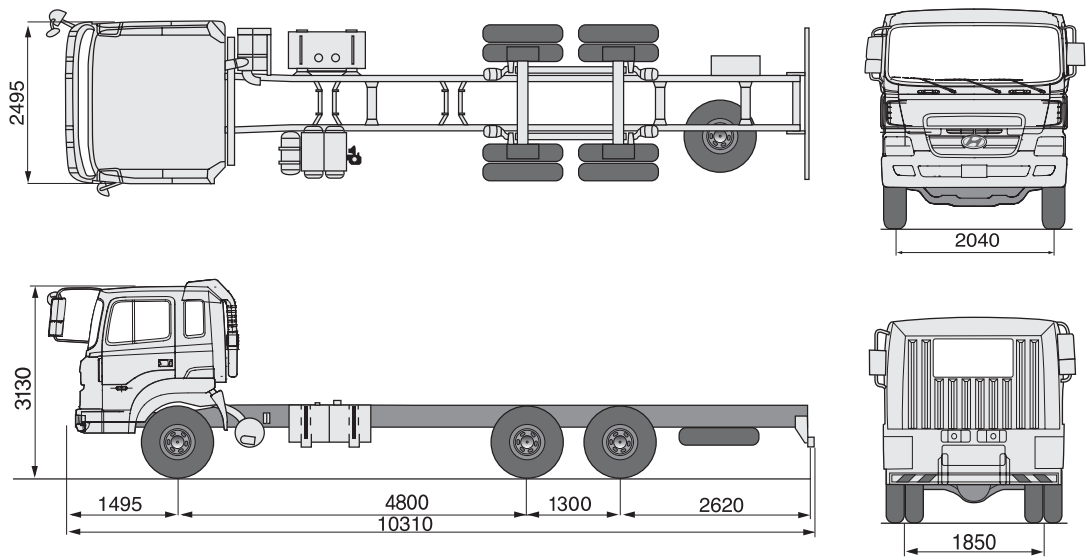


Short Wheelbase HD260 (D6AC, D6CA38, D6CB3H)



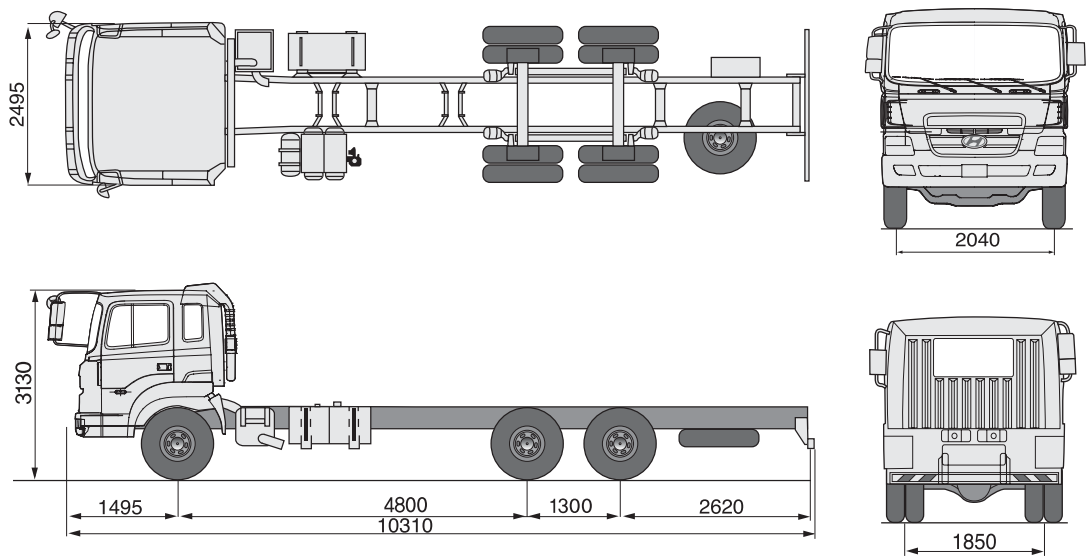
Medium Wheelbase

HD260 (D6AC)



Medium Wheelbase

HD260 (D6CA38, D6CB3H)



➡ 1. Dimension, Weights Specification

ITEM		MODEL		HD310		HD320			
Vehicle Type				Cargo					
Cab Type				Sleeper Cab					
Deck Height				High Deck					
Wheel Base				Short		Extra Long			
Drive System				LHD , 8 x 4					
Application Engines				D6AC	D6CA3H	D6CB3H	D6AC	D6CA3H	D6CB3H/D6CB410
Dimensions (mm)									
Wheel Base				7,040 (1,700 + 4,040 + 1,300)			7,850 (1,700 + 4,850 + 1,300)		
Overall (C/Cab)	Length			11,395			12,245		12,245/12,000(China)
	Width			2,495			2,495		
	Height			3,140			3,140		
Wheel Tread	Front			2,040			2,040		
	Rear			1,850			1,850		
Overhang (C/Cab)	Front			1,925			1,925		
	Rear			2,430			2,470 / 2,225(China)		
Min. Ground Clearance				275			275		
Weight (kg)									
Chassis Cab Weight				10,020	10,310		10,220	10,510	
Front				6,070	6,320		6,225	6,475	
Rear				3,950	3,990		3,995	4,035	
Max. Gross Vehicle Weight **				36,700					
Front				13,000					
Rear				11,800 x 2**					

➡ 2. Performance Specification

ITEM \ MODEL		HD310			HD320			
Application Engines		D6AC	D6CA3H	D6CB3H	D6AC	D6CA3H	D6CB3H	D6CB410
Calculated Performance								
Max. Speed	km/h	94	114	119	94	104	116	135
Max. Gradeability	tan θ	0.456	0.589	0.446	0.346	0.422	0.33	0.443
Min. Turning Radius	m	10.8			11.7			

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

HYUNDAI CARGO TRUCK | HD310 / HD320

3. Chassis Specification

ITEM		MODEL		HD310			HD320		
Engine									
Model		D6AC	D6CA3H	D6CB3H	D6AC	D6CA3H	D6CB3H	D6CB410	
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	12,300	11,149	12,920	12,300		
Bore x Stroke (mm)		130 x 140	133 x 155	130 x 155	130 x 140	133 x 155	130 x 155		
Compression Ratio		16.5:1 (Euro1) , 17:1 (Euro2)	17 : 1		16.5:1 (Euro1) , 17:1 (Euro2)	17 : 1			
Max. Power ** (ps/rpm)	General	-	-		-	-			
	Euro I	340 / 2,200	-		340 / 2,200	-			
	Euro II	340 / 2,000	380 / 1,900	-	340 / 2,000	380 / 1,900	-	-	
	Euro III	-	-	380 / 1,900	-	-	380 / 1,900	410 / 1,900	
Max. Torque ** (kg.m/rpm)	General	-	-		-	-	-		
	Euro I	140 / 1,400	-		140 / 1,400	-			
	Euro II	148 / 1,200	160 / 1,500	-	148 / 1,200	160 / 1,500	-	-	
	Euro III			160 / 1,200	-	-	160 / 1,200	188 / 1,200	
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		24V-60A	24V-80A			
	Starter	24V-5.5kw	24V-6.0kw		24V-5.5kw	24V-6.0kw			
Fuel System	Injection pump	DPICO in-line type (Euro1)	Delphi EUI system		DPICO in-line type (Euro1)	Delphi EUI system			
		Bosch in-line type (Euro2)			Bosch in-line type (Euro2)				
	Governor	All Speed type (RLD-J)	Electronic Control		All Speed type (RLD-J)	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							
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							

** 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.

HYUNDAI CARGO TRUCK | HD310 / HD320

3. Chassis Specification

ITEM		MODEL	HD310			HD320		
Engine			D6AC	D6CA3H	D6CB3H	D6AC	D6CA3H, D6CB3H	D6CB410
Transmission								
Model Type			M12S2 x 5	H160S2 x 5	ZF16S151	M12S2 x 5	H160S2 x 5	ZF16S151
			10 forward and 2 reverse speed , 2nd to 10th synchromesh , 1st & reverse constant-mesh gears		16 forward and 2 reverse speed , 1st to 16th synchromesh 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 , 1st to 16th synchromesh reverse constant-mesh gears
Gear Ratio	1st (High / Low)	9,153 / 7,145			13,8 / 11.5	9,153 / 7,145		13,8 / 11.5
	2nd (High / Low)	4,783 / 3,733			9.49 / 7.93	4,783 / 3,733		9.49 / 7.93
	3rd (High / Low)	2,765 / 2,158			6.53 / 5.46	2,765 / 2,158		6.53 / 5.46
	4th (High / Low)	1,666 / 1,301			4.57 / 3.82	1,666 / 1,301		4.57 / 3.82
	5th (High / Low)	1,000 / 0,780			3.02 /2.53	1,000 / 0.780		3.02 /2.53
	6rd (High / Low)	8,105 / 6,327			2.08 /1.74	8,105 / 6,327		2.08 /1.74
	7th (High / Low)	-			1.43 /1.20	-		1.43 /1.20
	8th (High / Low)	-			1.00 /0.84	-		1.00 /0.84
	Reverse (High / Low)	-			12.92 /10.80	-		12.92 /10.80
Gear Oil			API service classification GL5 and SAE service classification 80W/90 (85W/140 : Tropical zones only)					
T.G.S. (Transmission Gear Shift)			Floor shift , Mechanical remote control					
Propellershaft								
Model			S1810					
Type			Tubular, Forged steel ends with center bearing					
Size (Tube diameter x Thickness)			ø 114.3 x 6.6 t					
Rear Axle								
Model			D12HT					
Type			Full floating type					
Capacity (kg)			26,000 (13,000 x 2)					
Final Reduction Gear	Type	Single Reduction , Hypoid gear						
	G/Ratio	6.166	5.571	4.333	6.166	4.333	3.667	
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)			6,550 x 2					
Tire & Wheel								
Type			Single Front , Dual Rear					
Tire	Front	11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)						
	Rear							
Wheel	Front	7.5V x 20 - 165 (STD) , 8.25T x 22.5-165 (OPT)						
	Rear							
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			22.2 °~ 26.2					
Turning Angle	Inner	Front 1st axle 49 ° / Front 2nd axle 36 °						
	Outer	Front 1st axle 39 ° / Front 2nd axle 29 °						

➡ 3. Chassis Specification

ITEM		MODEL	HD310			HD320			
Engine			D6AC	D6CA3H	D6CB3H	D6AC	D6CA3H	D6CB3H	D6CB410
Brake									
Service Brake	Actuation		Full Air, Dual circuit fixed S cam with spring loaded chambers						
	Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ø 410 x 156 x 19						
		Rear	Drum dia. x Lining width x Lining thickness : ø 410 x 220 x 19						
	Compressed air reservoir		145 ℓ						
	Total lining area		12,162 cm²						
Parking Brake	Actuation		Spring loaded type chamber on the 1st and 2nd rear wheels						
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø410 x 220 x 19						
	Total lining area		7,166 cm²						
Exhaust Brake			Air operated, butterfly valve type						
Jake Brake (Optional)			-	Injection Cam operated type	-	Injection Cam operated type			
Suspension									
Type	Front		Semi-elliptic , laminated leaf springs with shackle link (Multi 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 13 t - 8						
	Rear	Main	1,480 x 90 x (20t - 5 & 18t - 7)						
		Helper	-						
Shock absorber			Hydraulic double acting telescopic type on the front axle						
Cooling system									
Radiator			Corrugated fin type & condense tank						
	Rows of tubes	3	4	3	4				
	Core size (mm)	730 x 810 x 49	730 x 810 x 66	730 x 810 x 49	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			350 liter (380 liter - OPT)						
Material			Steel (Aluminum - OPT)						
Frame									
Type			"H" type frame with channel sectional side rail & cross members						
Main side rail (mm)			Depth x Flange x Thickness : 302 x 90 x 8 t						

4. Electrical system Specification

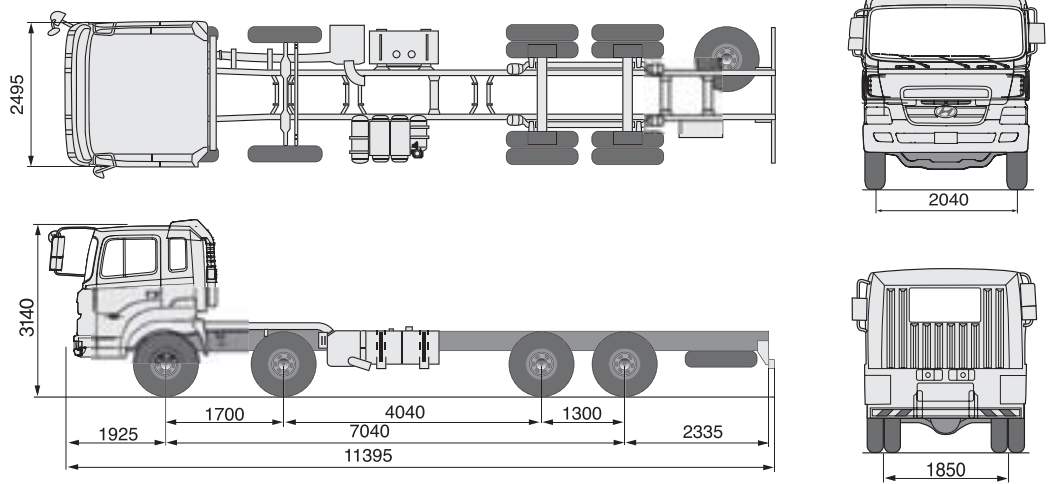
ITEM	MODEL	HD310	HD320
Electrical Equipments			
Head lamps		Semi sealed beam	
Front combination lamps		Turn signal / Hazard-Amber , Position-White	
Fog lamps		Yellow	
Rear combination lamps		Turn Signal / Hazard-Amber , Tail / Stop- Red	
License plate lamp		White	
Back-up lamp		White	
Instruments			
Meter Cluster		Fixed type	
Meters		Speedometer with odometer / Air & 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	

5. Body

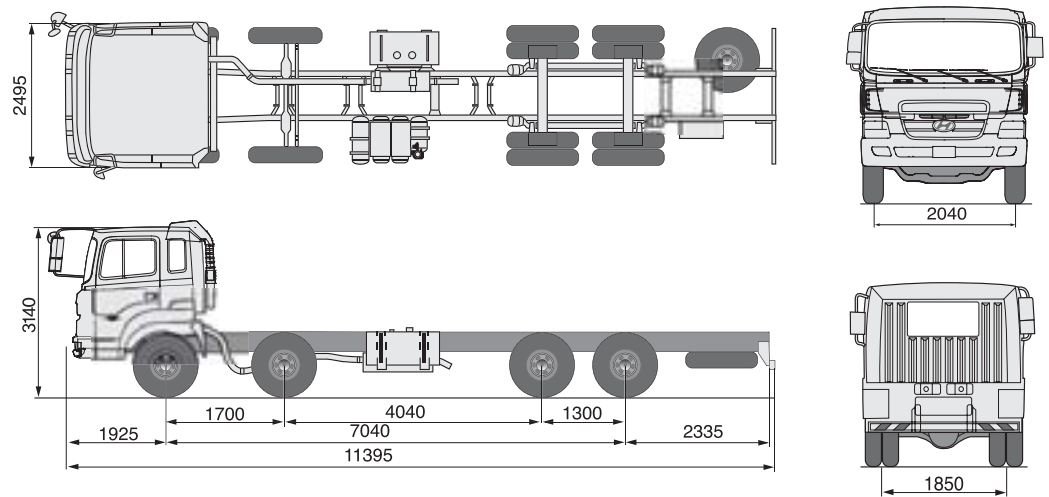
ITEM	MODEL	HD310	HD320
Cab			
Type		Manual-Hydraulic type cab tilting, (Electric-Hydraulic type : OPT) , all steel welded construction with safety zone design	
Mounting		Coil Spring type Full Floating cab (Air Spring type : OPT)	
Windshield		One piece type with laminated glass	
Windshield Wipers		Dual 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	
Assistant's Seat		Spring & Urethane foam cushioned, Vinyl material	

6. Dimensions

Short Wheelbase HD310 (D6CA3H, D6CB3H, D6CB410)



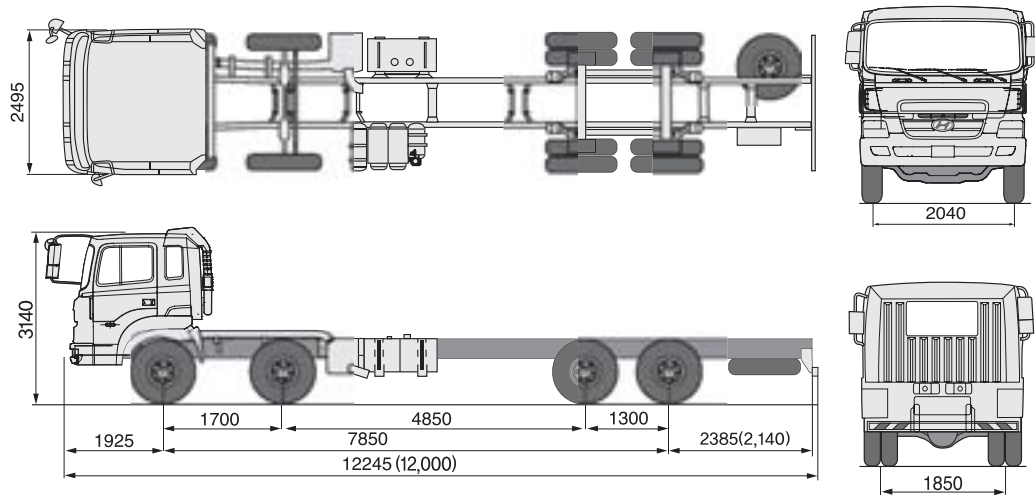
Short Wheelbase HD310 (D6AC)



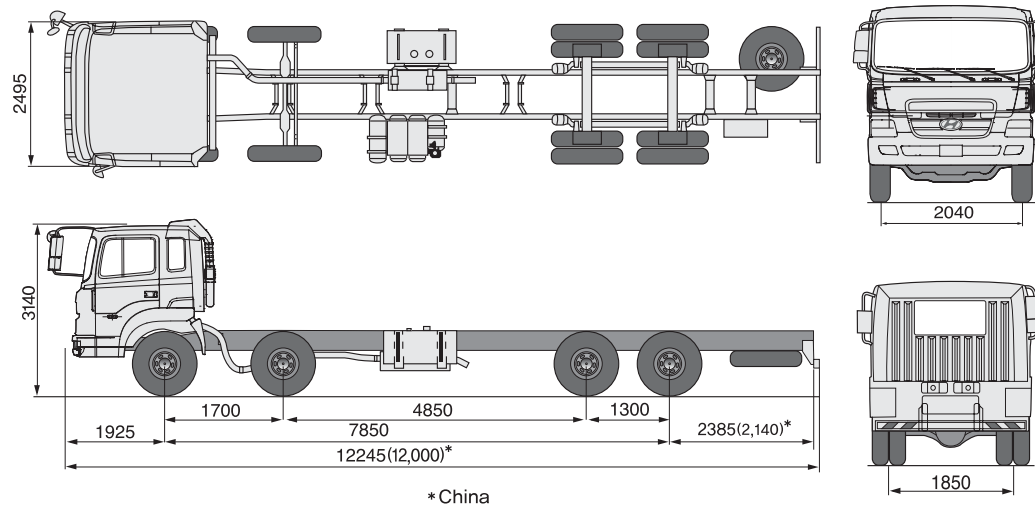
HYUNDAI CARGO TRUCK | HD310 / HD320

CARGO

Extra Long Wheelbase HD320 (D6CA3H, D6CB3H, D6CB410)



Extra Long Wheelbase HD320 (D6AC)



HYUNDAI DUMP TRUCK

➡ 1. Dimension, Weights

ITEM		MODEL		HD65 Dump			
Cab	Width	Wide Cab					
	Length	Standard					
Deck Height		High Deck					
Wheel Base		Short					
Drive System		4 x 2					
Application Engines		D4AF	D4AL	D4DB-d	D4DD		
Dimensions (mm)							
Wheel Base		2,750			2,780		
Overall	Length	5,165			5,195		
	Width	2,000			2,000		
	Height	2,260			2,315		
Wheel Tread	Front	1,665			1,680		
	Rear	1,495			1,495		
Overhang (Body)	Front	1,120					
	Rear	1,295					
Deck size	Length	3,100					
	Width	1,860					
	Height	290					
Body Offset		300					
Min. Ground Clearance		200					
Weight (kg)							
Empty Vehicle Weight		2,970	3,090	3,300	3,310		
	Front	1,575	1,655	1,800	1,805		
	Rear	1,395	1,435	1,500	1,505		
** Max Gross Vehicle Weight		6,500					
	Front	2,300					
	Rear	4,200					

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

➡ 2. Performance

ITEM \ MODEL		HD65 Dump			
Application Engines		D4AF	D4AL	D4DB-d	D4DD
Calculated Performance					
Max. Speed	km/h	103	111	113	125
Max. Gradeability	tan θ	0.31	0.34	0.42	0.42
Min. Turning Radius	m	5.0			

3. Chassis

ITEM		MODEL	HD65 Dump			
Engine						
Model		D4AF	D4AL	D4DB-d	D4DD	
Type		Natural Aspiration	Turbo Charger Intercooler			
		4 stroke-cycle, water-cooled, direct-injection diesel engine				
Number of Cylinder		4 in-line				
Piston Displacement (cc)		3,568	3,298	3,907		
Bore x Stroke (mm)		104 x 105	100 x 105	104 x 115		
Compression Ratio		18.0 : 1	16.5 : 1	18 : 1	17.5 : 1	
Max. Power** (ps/rpm)	General	100 / 3,400	-	-	-	
	Euro I	-	115 / 3,400	-	-	
	Euro II	-	-	120 / 2,900	-	
	Euro III	-	-	-	140 / 2,800	
Max. Torque** (kg.m/rpm)	General	24 /2,000	-	-	-	
	Euro I	-	29 / 2,000	-	-	
	Euro II	-	-	30 / 2,000	-	
	Euro III	-	-	-	38 / 1,600	
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling , Forced circulation by centrifugal water pump				
	Cooling fan	Polyamid & Suction type Corrugated fin and tube type with pressure cap and condenser tank				
	Radiator					
Electrical System	Battery	MF 60AH	MF 90AH			
	Alternator	24V-25A	24V-40A			24V-50A
	Starter	24V-5.0KW				
Fuel System	Injection pump	DooWon in-line type				Denso Common rail System
	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	Shell-and-tube type			Shell-and-Plate type	
	Oil grade	API classification service CF-4 or above				
Air cleaner		Dry paper element	Cyclonic dry paper element			
Valve System		Single Overhead Valve , Two valves per cylinder				
Clutch						
Type		Hydraulic control , Diaphragm spring ,Single dry plate, Pre-Damper or Non Pre-Damper				
Facing Material		Non-Asbestos				
Facing Size (mm) ; Outside dia. x Inside dia.		ø275 x ø175 or ø275 x ø180	ø275 x ø180			ø300 x ø190
Rear Axle						
Model		D2H	D3H			
Type		Full floating type				
Capacity	kg	4,200				4,400
Final Reduction Gear	Type	Single Reduction , Hypoid gear				
	G/Ratio	6.666	5.714 / 6.166			4.428
Gear Oil		API classification service GL-5 and SAE classification service 80W/90 (85W/140 ;Tropical zones only)				

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

3. Chassis						
ITEM \ MODEL		HD65 Dump				
Engine		D4AF	D4AL	D4DB-d	D4DD	
Transmission						
Model		M2S5 (Over Drive)	M3S5 (Over Drive)		M035S5 (Over Drive)	
Type		5 forward and 1 reverse speed , 1st to 5th synchromesh & reverse constant-mesh gears				
Gear Ratio	1st	5.494	5.181		5.380	
	2nd	2.836	2.865		3.028	
	3rd	1.592	1.593		1.700	
	4th	1.000	1.000		1.000	
	5th	0.746	0.739		0.722	
	Reverse	5.494	5.181		5.380	
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)				
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control				
Propellershaft						
Model		P2	P3			
Type		Tubular, Forged steel ends				
Size (Tube diameter x Thickness)		ø 63.5 x 2.6 t	ø76.2 x 2.6 t			
Front Axle						
Type		Reverse Elliot type " I " beam				
Capacity	kg	2,600				
Tire & Wheel						
Type		Single Front , Dual Rear				
Tire	Front	7.00R x 16 - 10PR				
	Rear					
Wheel	Front	5.50 F x 16 SDC-115				
	Rear					
Steering						
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column				
Steering Wheel Diameter (mm)	Manual	410				
	Power	410				
Tilting Angle		55.5 °~ 62.2°				
Telescopic Stroke mm		23.6				
Overall Steering Gear Ratio	Manual	26.5 ~ 30				
	Power	22.6				
Turning Angle	Inner	44 °				
	Outer	34°				
Suspension						
Type	Front / Rear		Semi-elliptic , laminated leaf springs with shock absorber			
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,200 x 70 x 10 t - 5, 11t - 1			
	Rear	Main	1,250 x 70 x 10 t - 6			
		Helper	990 x 70 x 13 t - 3			
Shock absorber			Hydraulic double acting telescopic type on the front & rear axles			

3. Chassis

ITEM	MODEL	HD65 Dump			
Engine					
Model		D4AF	D4AL	D4DB-d	D4DD
Brake					
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit		
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 85 x 10		
		Rear			
	Vacuum reservoir		7 ℓ		9 ℓ
	Total lining area		1,926.8 cm²		2,183 cm²
Adjuster		Auto adjuster(Opt)			
Parking Brake	Actuation		Internal expanding type on propellar shaft at the rear of transmission assy		
	Size (mm)		ø180 x 35 x 5		ø190 x 45 x 45
	Total lining area		132 cm²		187 cm²
Exhaust Brake		Vacuum operated, butterfly valve type			
Cooling system					
Radiator	Tube-and-Corrugated fin type				
	Rows of tubes		1 Row		2 Rows
	Core size (mm)		Width x Height x Thickness : 534 x 570 x 25		
Cooling Fan		Width x Height x Thickness : 534 x 570 x 42			
Cooling Fan		Fixed or Auto clutched type			
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		100 liter			
Material		Steel			
Frame					
Type		"H" type frame with channel sectional side rail & cross members ,			
		side rail is reinforced with outer stiffeners			
Main section side rail dimension (mm)		Depth x Flange x Thickness : 193 x 60 x 6 t (Wide)			

4. Electrical system

ITEM	MODEL	HD65 Dump
Electrical Equipments		
Head lamps		LHD: M.F.R Type , RHD: 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
Meter		Speedometer with odometer & trip counter /
		Combined meter included fuel & water temperature gauges
Warning lamps & indicators		Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge
		Tell-tale lights for head light high beam / Turn signals / Door open(DLX Only)
		Exhaust Brake / Seat belt
Horn		Single , electric type

5. Body

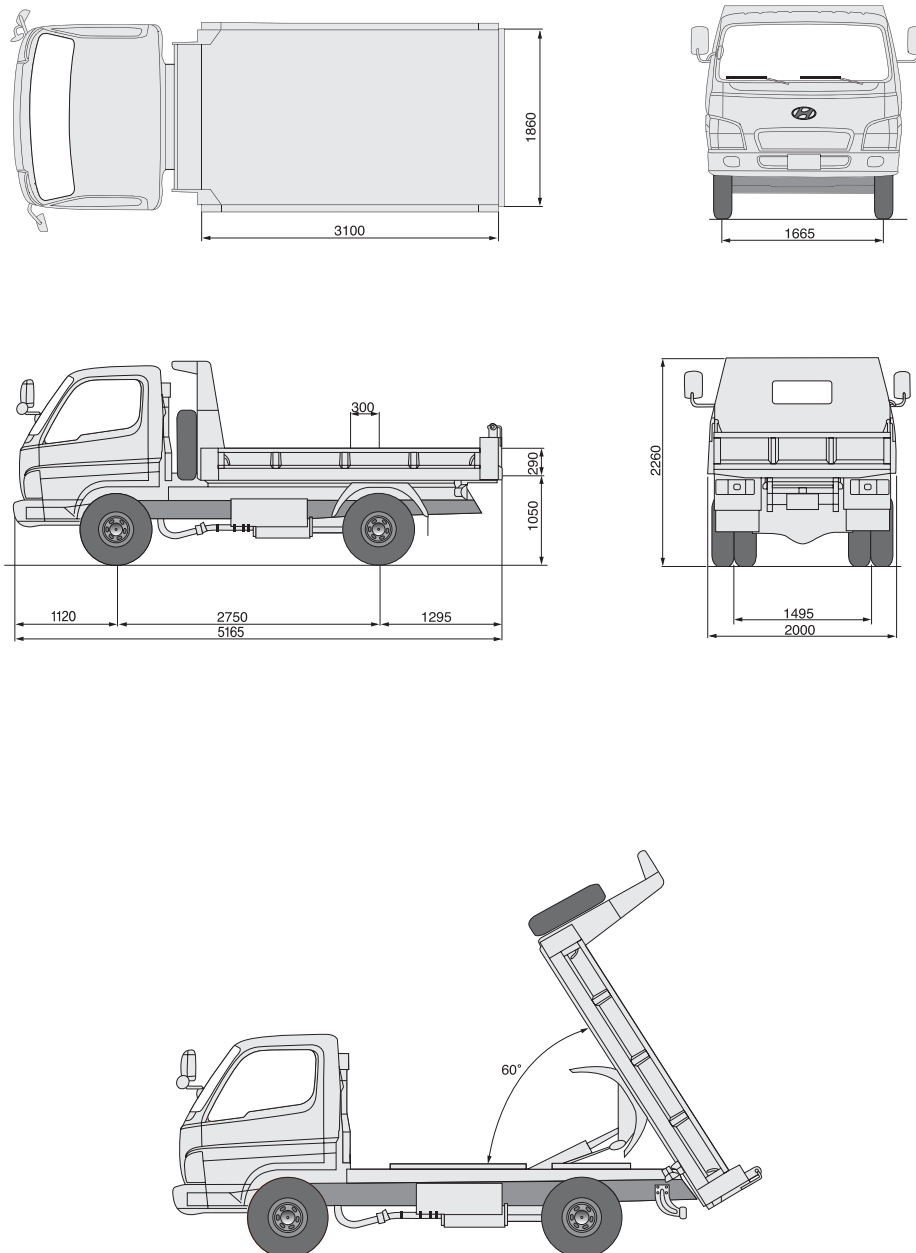
ITEM	MODEL	HD65 Dump
Cab		
Type		Tilt type with torsion bars, all steel welded construction with safety zone design
Mounting		Rigid or Semi floating type
Windshield		One piece type with laminated glass
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat		Urethane foam cushioned adjustable to front & rear / reclining , semi vinyl material
Assistant's Seat		Bench seat , Semi Cloth Seat Material
Body type		
General		Steel structure
Dump Volume		1.67 m ³
Dumping Type		Garwood Type
Dumping Angle		60 Degree

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) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

6. Dimensions

Short Wheelbase HD65 (D4AL)



➡ 1. Dimension, Weights

ITEM		MODEL	HD72 Dump			
Cab	Width	Wide Cab				
	Length	Standard				
Deck Height		High Deck				
Wheel Base		Short				
Drive System		4 x 2				
Application Engines		D4DC	D4AL	D4DB-d	D4DB	
Dimensions mm						
Wheel Base		2,750				
Overall	Length	5,175				
	Width	2,060				
	Height	2,290				
Wheel Tread	Front	1,650				
	Rear	1,495				
Overhang (Body)	Front	1,120				
	Rear	1,305				
Deck size	Length	3,200				
	Width	1,900				
	Height	385				
Body Offset		355				
Min.Ground Clearance		235				
Weight kg						
Empty Vehicle Weight		3,315	3,390	3,430	3,440	
	Front	1,650	1,715	1,750	1,775	
	Rear	1,665	1,675	1,680	1,685	
** Max Gross Vehicle Weight		7,200				
	Front	2,600				
	Rear	4,600				

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

➡ 2. Performance

ITEM \ MODEL		HD72 DUMP			
Application Engines		D4DC	D4AL	D4DB-d	D4DB
Calculated Performance					
Max. Speed	km/h	101	107	110	126
Max. Gradeability	tan θ	0.29	0.31	0.36	0.35
Min. Turning Radius	m	5.0			

3. Chassis

ITEM		MODEL	HD72 DUMP			
Engine						
Model		D4DC	D4AL	D4DB-d	D4DB	
Type		Natural Aspiration	Turbo Charger Intercooler			
		4 stroke-cycle, water-cooled, direct-injection diesel engine				
Number of Cylinder		4 in-line				
Piston Displacement (cc)		3,907	3,298	3,907	3,907	
Bore x Stroke (mm)		104 x 115	100 x 105	104 x 115	104 x 115	
Compression Ratio		18.1 : 1	16.5 : 1	18.1 : 1	18.1 : 1	
Max. Power** (ps/rpm)	General	-	-	-	-	
	Euro I	120/3,200	115 / 3,400	-	155(Gen), 130(Tropical Cold)/2,900	
	Euro II	-	-	120/ 2,900	-	
Max. Torque** (kg.m/rpm)	General	-	-	-	-	
	Euro I	30/2,000	29 / 2,000	-	38/1,800	
	Euro II	-	-	38/1,600	-	
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling ,				
		Forced circulation by centrifugal water pump				
	Cooling fan	Polyamid & Suction type				
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank				
Electrical System	Battery	MF 90AH				
	Alternator	24V-40A				
	Starter	24V-5.0 KW				
Fuel System	Injection pump	DooWon 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	Shell-and-plate type	Shell-and-tube type	Shell-and-plate type		
	Oil grade	API classification service CF-4 or above				
Air cleaner		Cyclonic dry paper element				
Valve System		Single Overhead Valve , Two valves per cylinder				
Transmission						
Model		M3S5 (Over Drive)				M035S5 (Over Drive)
Type		5 forward and 1 reverse speed , 2nd to 5th synchromesh, 1st & reverse constant-mesh gears				
Gear Ratio	1st	5.181			5.380	
	2nd	2.865			3.028	
	3rd	1.593			1.700	
	4th	1.000			1.000	
	5th	0.739			0.722	
	Reverse	5.181			5.380	
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)				
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control				

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

3. Chassis

ITEM		MODEL	HD72 DUMP			
Engine						
Model		D4DC	D4AL	D4DB-d	D4DB	
Clutch						
Type		Hydraulic or hydraulic assistant vaccum control , Diaphragm spring , Single dry plate, Pre-Damper				
Facing material		Non-Asbestos				
Facing Size (mm) Outside dia. x Inside dia.		ø275 x ø180			ø300 x ø190	
Propellershaft						
Model		P3				
Type		Tubuler, Forged steel ends				
Size (Tube diameter x Thickness)		ø 76.2 x 2.6 t				
Rear Axle						
Model		D3H			D033H	
Type		Full floating type				
Capacity	kg	4,600				
Final Reduction Gear	Type	Single Reduction , Hypoid gear				
	G/Ratio	6.666			5.428	
Gear Oil		API classification service GL-5 and SAE classification service 80W/90 (85W/140 ;Tropical zones only)				
Front Axle						
Type		Reverse Elliot type " I " beam				
Capacity	kg	2,600				
Tire & Wheel						
Type		Single Front , Dual Rear				
Tire	Front	7.50R x 16 - 14 PR				
	Rear					
Wheel	Front	6.00 GS x 16 SDC-127				
	Rear					
Steering						
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column				
Steering Wheel Diameter (mm)	Manual	-				
	Power	410				
Tilting Angle		55.5° ~ 62.2°				
Telescopic Stroke mm		23.6				
Overall Steering Gear Ratio	Manual	-				
	Power	22.6				
Turning Angle	Inner	43 °				
	Outer	32 °				
Suspension						
Type		Front / Rear Semi-elliptic , laminated leaf springs with shock absorber				
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,200 x 70 x 11t-2,10t-4(LH) & 1,200 x 70 x 11t-3,10t-3(RH)			
	Rear	Main	1,250 x 70 x 10t-1 + 11 t-5			
		Helper	990 x 70 x 11t-2 + 12t-2			
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles				

3. Chassis

ITEM		MODEL	HD72 DUMP				
Engine							
Model		D4DC		D4AL		D4DB-d	D4DB
Brake							
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit				
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 85 x 10 (ø320 x 110 x 11 : OPT)				
		Rear					
	Vacuum reservoir		7 ℓ				
	Total lining area		2,183.8 cm²				
Adjuster		Auto adjuster					
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 : ø180 x 35 x 5 (D4AL, D4DC) ø190 x 45 x 4 (D4DB, D4DB-d)				
	Total lining area		132 cm²				
Exhaust Brake			Vacuum operated, butterfly valve type				
Cooling system							
Radiator			Tube-and-Corrugated fin type				
	Rows of tubes		2				
	Core size (mm)		Width x Height x Thickness ; 534 x 570 x 42				
Cooling Fan			Fixed or Auto clutched type				
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			100 liter				
Material			Steel				
Frame							
Type			"H" type frame with channel sectional side rail & cross members ,				
			side rail is reinforced with outer stiffeners				
Main section side rail dimension mm			Depth x Flange x Thickness : 193 x 60 x 6 t				

4. Electrical system

ITEM	MODEL	HD72 Dump
Electrical Equipments		
Head lamps		LHD : M.F.R Type , RHD : 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
Meter		Speedometer with odometer & trip counter /
		Combined meter included fuel & water temperature gauges
Warning lamps & indicators		Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge
		Tell-tale lights for head light high beam / Turn signals / Door open(DLX Only)
		Exhaust Brake / Seat belt
Horn		Single , electric type

5. Body

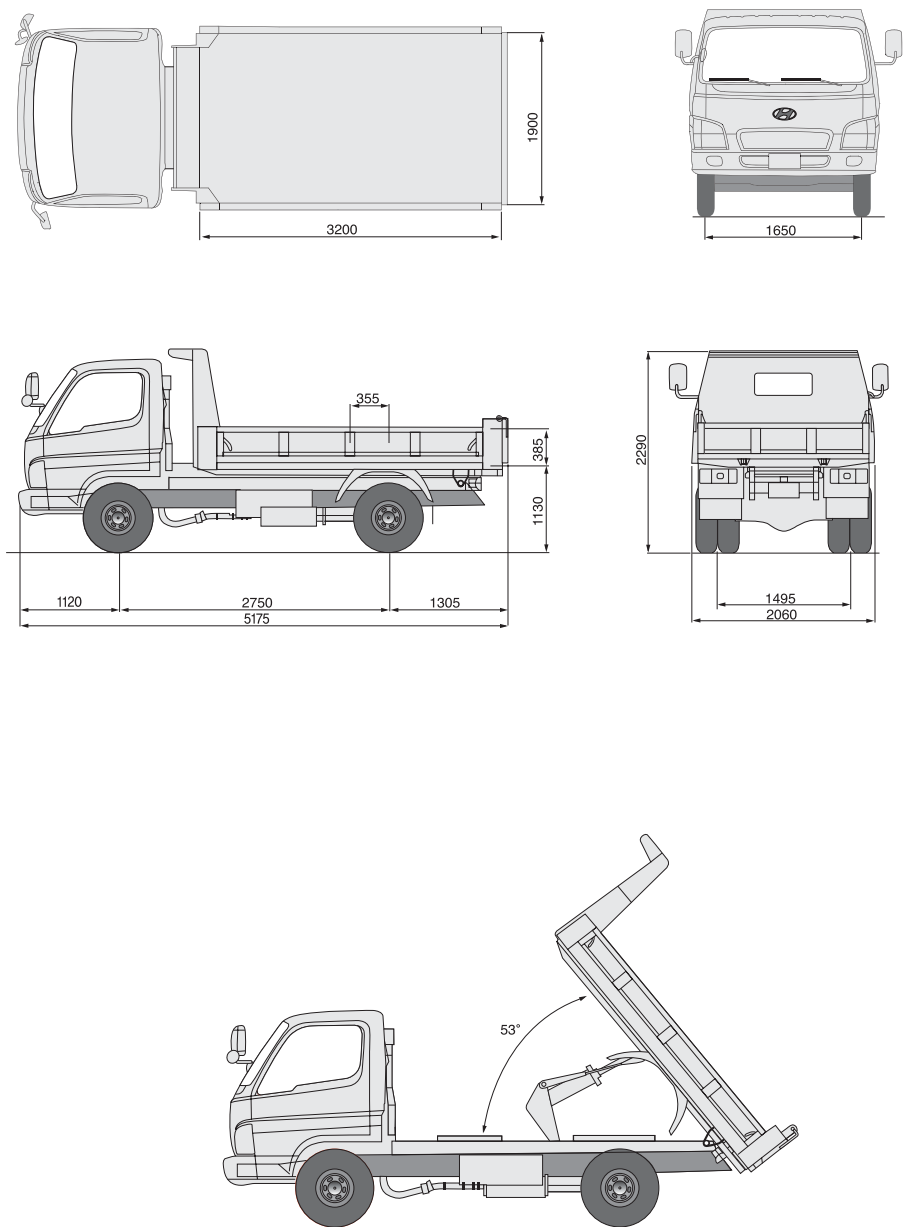
ITEM	MODEL	HD72 Dump
Cab		
Type		Tilt type with torsion bars, all steel welded construction with safety zone design
Mounting		Rigid or Semi floating type
Windshield		One piece type with laminated glass
Windshield Wipers		Dual electric three speed (intermittent / low / fast) wipers & washer
Driver's Seat		Urethane foam cushioned adjustable to front & rear / reclining , semi vinyl material
Assistant's Seat		Bench seat ,Semi Cloth Seat Material
Body type		
General		Steel structure
Dump Volume		2.34 m ³
Dumping Type		Original Marrel Type
Dumping Angle		53 Degree

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) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

6. Dimensions

Short Wheelbase HD72 (D4DC)



1. Dimension, Weights Specification

ITEM	MODEL	HD120		HD160
Vehicle Type		Dump		
Cab Type		Sleeper Cab		
Wheel Base		Short		
Drive System		LHD , 4 x 2		
Application Engines		D6BR	D6DA19	D6BR
Dimensions (mm)				
Wheel Base		3,300		3,700
Overall (Dump)	Length	5,860		6,520
	Width	2,220		2,495
	Height	2,580		3,130
Wheel Tread	Front	1,795		2,050
	Rear	1,660		1,850
Overhang (Dump)	Front	1,245		1,495
	Rear	1,315		1,325
Overhang (C/Cab)	Front	1,245		1,495
	Rear	1,207		1,190
Deck size (inner)	Length	3,400		4,000
	Width	2,060		2,330
	Height	480		575
Body Offset		450		750
Min. Ground Clearance		210		255
Weight (kg)				
Empty Vehicle Weight		5,185	5,270	7,510
	Front	2,630	2,680	3,980
	Rear	2,555	2,590	3,530
Max. Gross Vehicle Weight **		12,400	12,520	17,350 (18,500*)
	Front	3,600	3,720	6,550 (7,000*)
	Rear	8,800	8,800	10,800 (11,500*)

2. Performance Specification

ITEM	MODEL	HD120		HD160
Application Engines		D6BR	D6DA19	D6BR
Calculated Performance				
Max. Speed	km/h	110	103	109
Max. Gradeability	tan θ	0.454	0.434	0.251
Min. Turning Radius	m	5.7	5.7	6.2

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

* Permissible Axle Loading Capacity

HYUNDAI DUMP TRUCK | HD120 / HD160

3. Chassis Specification

ITEM		MODEL	HD120		HD160
Engine					
Model		D6BR	D6DA19	D6BR	
Type		Natural Aspiration	Turbo Charger Intercooler	Natural Aspiration	
		4 stroke-cycle, water-cooled, direct-injection diesel engine			
Number of Cylinder		6 in-line			
Piston Displacement (cc)		7,545	6,606	7,545	
Bore x Stroke (mm)		118 x 115	109 x 118	118 x 115	
Compression Ratio		17.5 : 1	17.6 : 1	17.5 : 1	
Max. Power ** (ps/rpm)	General	185 / 2,900	-	185 / 2,900	
	Euro I	167 / 2,900	-	167 / 2,900	
	Euro II	-	196 / 2,500	-	
Max. Torque ** (kg.m/rpm)	General	51 / 1,400	-	51 / 1,400	
	Euro I	46 / 1,400	-	46 / 1,400	
	Euro II	-	58 / 1,700	-	
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling, Forced circulation by centrifugal water pump		Pressure type with thermostat, Forced circulation by centrifugal water pump	
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank			
Electrical System	Battery	MF 90AH /120AH(Frigid)		12V x 2, 150 AH at 20 Hr rates	
	Alternator	24V-40A	24V-50A	24V-40A	
	Starter	24V-5.0kw	24V-5.5kw	24V-5.0kw	
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	Water cooled , plate fin type	
	Oil grade	API service cl CC or above	API service cl CD or above	API service classification CC or above	
Air cleaner		Cyclonic dry paper element			
Valve System		Single Overhead Valve , Two valves per cylinder			
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	ø380 x ø240	

** 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.

HYUNDAI DUMP TRUCK | HD120 / HD160

3. Chassis Specification

ITEM		MODEL	HD120		HD160
Engine			D6BR	D6DA19	D6BR
Transmission					
Model			M6S6 (Over Drive)	KH-10 (Over Drive)	M8S5 (Direct Drive)
Type			6 forward and 1 reverse speed 2nd to 6th synchromesh 1st & reverse constant-mesh gears		5 forward and 1 reverse speed 2nd to 5th synchromesh 1st & reverse constant-mesh gears
Gear Ratio	1st	6.903	6.967	6.552	
	2nd	4.206	4.247	4.178	
	3rd	2.320	2.454	2.415	
	4th	1.414	1.471	1.397	
	5th	1.000	1.000	1.000	
	6th	0.747	0.769	-	
	Reverse	6.903	6.492	6.849	
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		P9
Type			Tubular, Forged steel ends		Tubular, Forged steel ends with center bearing
Size (Tube diameter x Thickness)			ø 88.9 x 4.0 t		ø88.9 x 4.0 t
Rear Axle					
Model			D4H	D050H	D10H
Type			Full floating type		
Capacity (kg)			8,800		11,500
Final Reduction Gear	Type	Single Reduction , Hypoid gear			
	G/Ratio	5.428 / 5.833	4.875	6.666	
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)			3,750		7,000
Tire & Wheel					
Type			Single Front , Dual Rear		
Tire	Front	8.25R 16 - 18PR 245/70R19.5,133/131 (D6DA19 OPT)		11.00 x 20 - 16PR	
	Rear				
Wheel	Front	6.0GS x 16 - 137-11T 6.75 x 19.5 - 140 (OPT)		7.5V ×20 - 165	
	Rear				
Steering					
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column		
Steering Wheel Diameter (mm)			500		
Tilting Angle			9 °		
Telescopic Stroke (mm)			40		50
Overall Steering Gear Ratio			21.6		20.2
Turning Angle	Inner	49 °			
	Outer	36 °		39 °	

3. Chassis Specification

ITEM		MODEL	HD120		HD160
Engine			D6BR	D6DA19	D6BR
Brake					
Service Brake	Actuation		Air Over Hydraulic with dual circuit		Full Air, Dual circuit fixed S camwith spring loaded chambers
	Size (mm)	Front	ø 320 x 125 x 12.5		ø 410 x 156 x 19
		Rear	ø320 x 150 x 12.5		ø410 x 220 x 19
	Compressed		30 ℓ		85 ℓ
	air reservoir				
Total lining area		3,456 cm ²		6,081 cm ²	
Parking Brake	Actuation		Internal expanding type on propellershaft		Spring loaded type chamber on the rear wheel
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø320 mm x 150 mm x 12.5 mm		Drum diameter x Lining width x Lining thickness : ø410 mm x 220 mm x 19 mm
	Total lining area		1,926.8 cm ²		3,558 cm ²
Exhaust Brake			Air operated, butterfly valve type		
Suspension					
Type	Front		Leaf spring Laminated		Taper leaf
	Rear		Semi-elliptic , laminated leaf springs with shackle link (Multi leaf spring)		
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,300 x 70 x 11 t - 7		1,500 x 90 x 23 t - 3
	Front	Main	1,300 x 70 x 11 t - 10		1,600 x 90 x 13 t - 9
		Helper	1,020 x 70 x 11 t - 6		1,190 x 90 x 12 t - 8
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		730 x 700 x 49
Cooling Fan			Auto clutched type viscos fan		
Air intake system					
General			Snorkel type at the rear of cab (right or left side)		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		
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		302 x 90 x 8 t

HYUNDAI DUMP TRUCK | HD120 / HD160

DUMP

4. Electrical system Specification

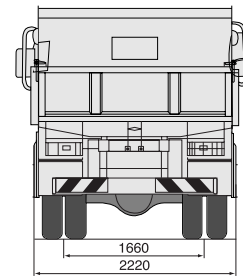
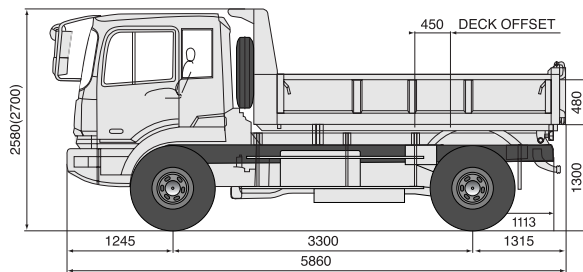
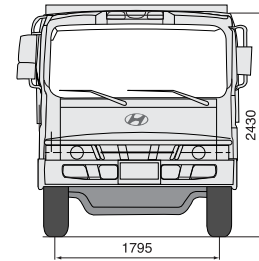
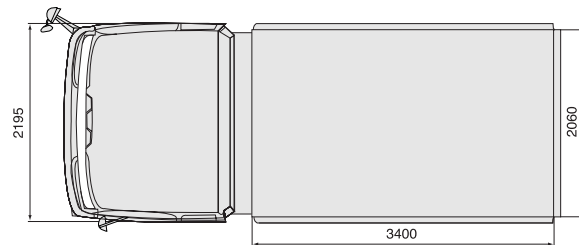
ITEM	MODEL	HD120	HD160
Electrical Equipments			
Head lamps		Semi sealed beam	
Front combination lamps		Turn signal / Hazard-Amber , Position-White	
Fog lamps		Yellow	
Rear combination lamps		Turn Signal / Hazard-Amber , Tail / Stop- Red	
License plate lamp		White	
Back-up lamp		White	
Instruments			
Meter Cluster		Fixed type	
Meters		Speedometer with odometer / Air & 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	

5. Body

ITEM	MODEL	HD120	HD160
Cab			
Type	Cab tilting with Torsion bars semi-Floating cab 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		
Assistant's Seat	Spring & Urethane foam cushioned, Vinyl material		
Body Type			
General	Steel structure		←
Dump Volume	3.34 m³		5.34 m³
Dumping Type	Heil Type		←
Dumping Angle	58.5 Degree		←

6. Dimensions

Short Wheelbase HD120 (D6BR, D6DA19)

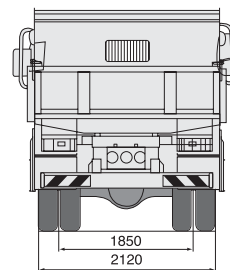
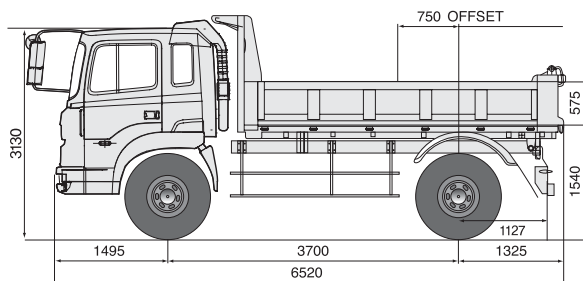
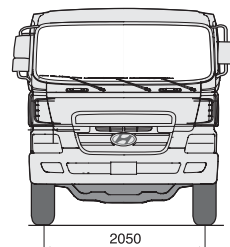
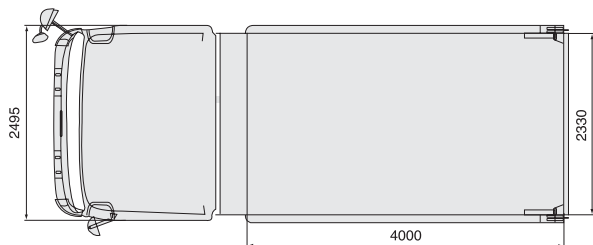


HYUNDAI DUMP TRUCK

HD120 / HD160

Short Wheelbase

HD160 (D6BR)



DUMP

1. Dimension, Weights Specifications

ITEM \ MODEL		HD270		HD370	
Vehicle Type		Dump			
Cab Type		Sleeper Cab			
Wheel Base		Short			
Drive System		LHD , 6 x 4		LHD , 8 x 4	
Application Engines		D6AC	D6CB3H	D6CA3H	D6CB3H
Dimensions (mm)					
Wheel Base		4,590 (3,290 + 1,300)		6,000 (1,700 + 3,000 + 1,300)	
Overall (Dump)	Length	7,635	7,595	9,025	9,080
	Width	2,495		2,495	
	Height	3,130	3,130	3,140	3,220
Wheel Tread	Front	2,040		2,098	
	Rear	1,850		1,850	
Overhang (Dump)	Front	1,495		1,925	1,925
	Rear	1,550	1,475	1,100	1,100
Overhang (C/Cab)	Front	1,495		1,925	
	Rear	1,127	1,130	770	
Deck size	Length	4,840		5,200	
	Width	2,300		2,300	
	Height	905		1,305	
Body Offset		350		1,800	
Min. Ground Clearance		260		300	
Weight (kg)					
Empty Vehicle Weight		11,060	11,250	14,490	13,730
	Front	4,815	5,010	8,345	8,230
	Rear	6,245	6,240	6,145	5,500
Max. Gross Vehicle Weight **		30,130**	30,130**	41,600	
	Front	6,530**	6,530**	18,000	
	Rear	11,800 x 2**	11,800 x 2	11,800 x 2**	

2. Performance Specifications

ITEM \ MODEL		HD270		HD370	
Application Engines		D6AC	D6CB3H	D6CA3H	D6CB3H
Calculated Performance					
Max. Speed	km/h	100	105	91	
Max. Gradeability	tan θ	0.248	0.410	0.289	
Min. Turning Radius	m	7.5		9.5	

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

3. Chassis Specifications

ITEM		MODEL	HD270		HD370	
Engine						
Model		D6AC	D6CB3H	D6CA3H	D6CB3H	
Type		Turbo Charger Intercooler		Turbo Charger Intercooler		
		4 stroke-cycle, water-cooled, direct-injection diesel engine				
Number of Cylinder		6 in-line		6 in-line		
Piston Displacement (cc)		11,149	12,300	12,920	12,300	
Bore x Stroke (mm)		130 x 140	130 x 155	133 x 155	130 x 155	
Compression Ratio		16.5 : 1 (Euro1), 17 : 1 (Euro2)	17 : 1	17 : 1		
Max. Power ** (ps/rpm)	General	-	-	-	-	
	Euro I	340 / 2,200	-	-	-	
	Euro II	340 / 2,000	-	380 / 1,900	-	
	Euro III	-	380 / 1,900	-	380 / 1,900	
Max. Torque ** (kg.m/rpm)	General	-	-	-	-	
	Euro I	140 / 1,400	-	-	-	
	Euro II	148 / 1,200	-	160 / 1,500	-	
	Euro III	-	160 / 1,200	-	160 / 1,200	
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	24V-80A		
	Starter	24V-5.5kw	24V-6.0kw	24V-6.0kw		
Fuel System	Injection pump	DPICO in-line type (Euro1) Bosch in-line type (Euro2)	Delphi EUI system	Delphi EUI system		
	Governor	All Speed type (RLD-J)	Electronic Control	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				
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				

** 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 Specifications

ITEM		MODEL	HD270		HD370	
Engine			D6AC	D6CB3H	D6CA3H	D6CB3H
Transmission						
Model			M12S6 (Euro1), H160S6 (Euro2)		ZF 16S151	
Type			6 forward and 1 reverse speed 2nd to 6th synchromesh 1st & reverse constant-mesh gears		16 forward and 2 reverse speed , 1st to 16th synchromesh ,reverse constant-mesh gears	
Gear Ratio	1st		7.213		13.8 / 11.54	
	2nd		4.178		9.49 / 7.93	
	3rd		2.587		6.53 / 5.46	
	4th		1.621		4.57 / 3.82	
	5th		1.000		3.02 / 2.53	
	6th		0.702		2/08 / 1.74	
	7th				1.43 / 1.20	
	8th				1.00 / 0.84	
	Reverse		7.081		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		UJ250	
Type			Tubular, Forged steel ends			
Size (Tube diameter x Thickness)			ø 114.3 x 6.6 t		ø 120 x 6.6 t	
Rear Axle						
Model			D12HT		D10HT- II	
Type			Full floating type			
Capacity (kg)			26,000 (13,000 x 2)		11,800 x 2	
Final Reduction Gear	Type		Single Reduction , Hypoid gear			
	G/Ratio		6.166		4.875	
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		18,000 (9,000 x 2)	
Tire & Wheel						
Type			Single Front , Dual Rear			
Tire	Front	11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)			385 / 65R 22.5-20PR (STD)	
	Rear				11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)	
Wheel	Front	7.5V x 20 - 165 (STD) , 8.25T x 22.5-165 (OPT)			11.75 x 22.5-165 (STD)	
	Rear				7.5V x 20 - 165 (STD) , 8.25T x 22.5-165 (OPT)	
Steering						
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column			
Steering Wheel Diameter (mm)			500		500	
Tilting Angle			9 °		9 °	
Telescopic Stroke (mm)			50		50	
Overall Steering Gear Ratio			20.2		22.2 ~ 26.2	
Turning Angle	Inner	49 °		Front 1st axle 44 ° / Front 2nd axle 29 °		
	Outer	39 °		Front 1st axle 34 ° / Front 2nd axle 24 °		

3. Chassis Specifications

ITEM		MODEL	HD270		HD370	
Engine			D6AC	D6CB3H	D6CA3H	D6CB3H
Brake						
Service Brake	Actuation		Full Air, Dual circuit fixed S cam with spring loaded chambers			
	Size (mm)	Front	ø 410 x 156 x 19		ø 419 x 178 x 19	
		Rear	ø 410 x 220 x 19		ø 410 x 220 x 19	
	Compressed		120 ℓ		145 ℓ	
	air reservoir					
Total lining area		9,639 cm²		13,000 cm²		
Parking Brake	Actuation		Spring loaded type chamber on the rear wheel		Spring loaded type chamber on the 1st and 2nd rear wheels	
	Size (mm)		ø 410 x 156 x 19 / ø 410 x 220 x 19		ø 410 x 220 x 19	
	Total lining area		7,116 cm²		7,116 cm²	
Exhaust Brake			Air operated, butterfly valve type			
Jake brake			-	Injection Cam operated type		
Suspension						
Type	Front		Semi-elliptic , parabolic leaf springs with shackle link (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 13 t - 9		1,500 x 90 x 24 t - 4 FRT,FRT 1,500 x 90 x 24 t - 4 FRT,RR	
	Rear	Main	1,480 x 90 x (20t - 3 & 18t - 8)		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			
	Core size (mm)		730 x 810 x 49		729.5 x 810 x 66	699 x 894 x 60
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)		380 liter	
Material			Steel (STD) , Aluminum (OPT)		Aluminum	
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 8 t			
Outer Stiffener (mm)			Depth x Flange x Thickness : 316 x 97 x 7 t			

4. Electrical system Specification

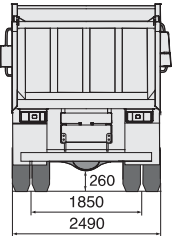
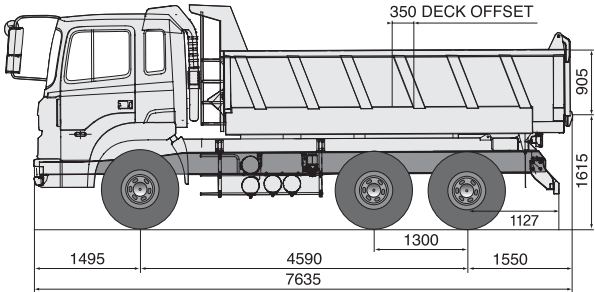
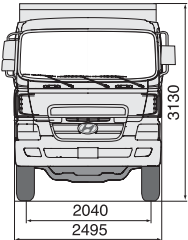
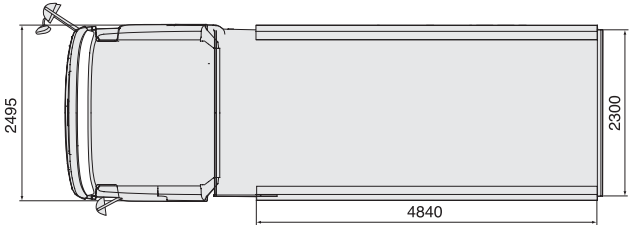
ITEM	MODEL	HD270		HD370	
Electrical Equipments					
Head lamps	Semi sealed beam (Projection beam : D6CB Engine)				
Front combination lamps	Turn signal / Hazard-Amber , Position-White				
Fog lamps	Yellow	White(D6CB)	Yellow	White(D6CB)	
Rear combination lamps	Turn Signal / Hazard-Amber , Tail / Stop- Red				
License plate lamp	White				
Back-up lamp	White				
Instruments					
Meter Cluster	Fixed type				
Meters	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				

5. Body

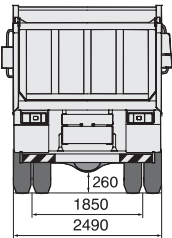
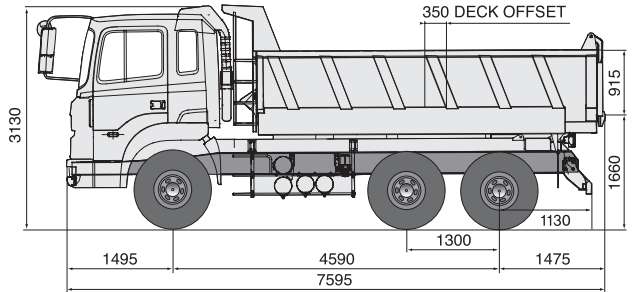
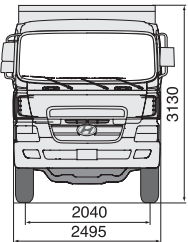
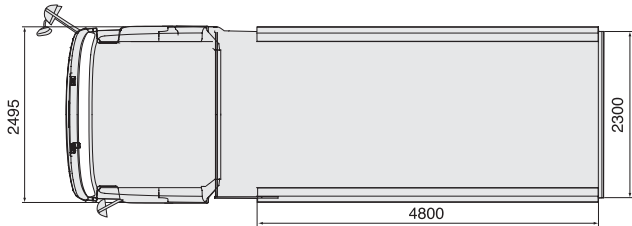
ITEM	MODEL	HD270	HD370
Cab			
Type	Manual-Hydraulic type cab tilting (Electric-Hydraulic type : OPT) , all steel welded construction with safety zone design		
Mounting	Coil Spring type Full Floating cab (Air Spring type : OPT)		
Windshield	One piece type with laminated glass		
Windshield Wipers	Dual 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		
Assistant's Seat	Spring & Urethane foam cushioned, Vinyl material		
Body			
General	Steel Structure		
Dump Volume	10 m ³ (Length x Width x Height : 4,840 x 2,300 x 906)		15.67 m ³ (Length x Width x Height : 5,220 x 2,300 x 1306)
Dumping Mechanism	Original Marrel		Telescopic
Dumping Angle	53°		53.5°

6. Dimensions

Short Wheelbase HD270 (D6AC)



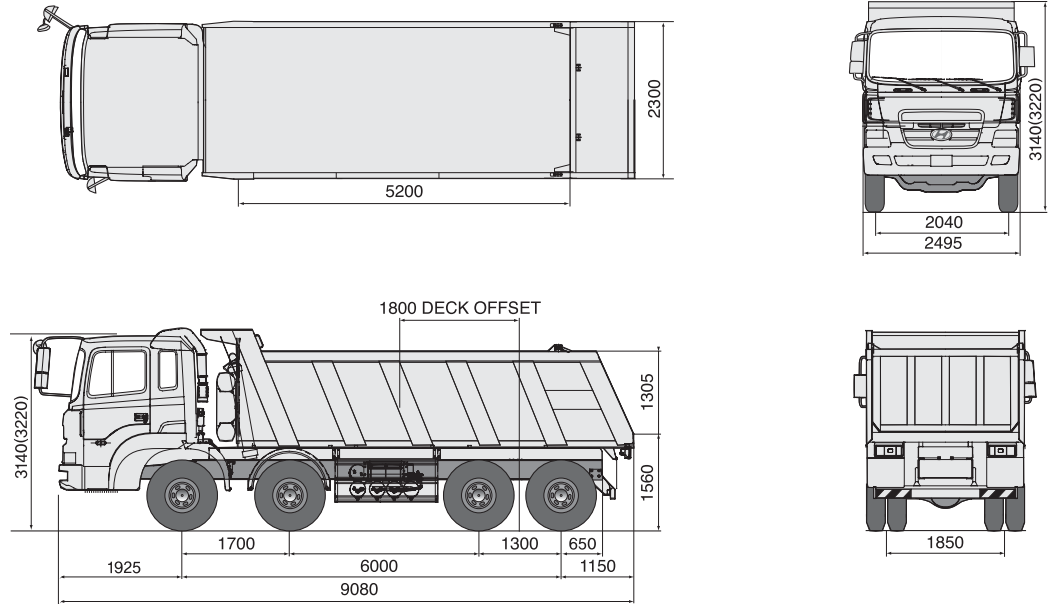
Short Wheelbase HD270 (D6CB)



DUMP

Short Wheelbase

HD370 (D6CB)



HYUNDAI TRACTOR

1. Dimension, Weights Specification

ITEM		MODEL	HD450	HD500		HD600
Vehicle Type			Tractor			
Cab Type			Sleeper Cab			
Deck Height			High Deck			
Wheel Base			Short			
Drive System			LHD , 4 x 2			
Application Engines			D6AC	D6CA38	D6CB38	D6CA 41
Dimensions (mm)						
Wheel Base			3,450			
Overall	Length		3,975			
	Width		2,495			
	Height (Air Deflector)		3,130 (3,980)			
Wheel Tread	Front		2,040			
	Rear		1,850			
Overhang	Front		1,495			
	Rear		1,030			
Fitting Radius Front (F.R.F)			1,880			
Fitting Radius REAR (F.R.R)			1,660			
Fifth Wheel Loading Capacity (kg)			10,000*			
Coupler	Type		1 Axis			
	Capacity		20,000			
	King Pin Diameter		SAE 2"			
	Height		220 / 280			
	Ground Height		1,270			
Body Offset			470			
Min. Ground Clearance			250			
Weight (kg)						
Empty Vehicle Weight			6,990	7,210	7,150	7,560
	Front		4,535	4,735	4,640	4,855
	Rear		2,455	2,475	2,510	2,705
Max. Gross Vehicle Weight **			17,350			18,500
	Front		6,550			6,700
	Rear		10,800			11,800

2. Performance Specifications

ITEM	MODEL	HD450	HD500	HD600
Application Engines		D6AC	D6CA38	D6CB 38
				D6CA41
Calculated Performance				
Max. Speed	km/h	114	108	110
Max. Gradeability	tan θ	0.284	0.301	0.380
Min. Turning Radius	m	6.2		

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

* Permissible Axle Loading Capacity

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 Specifications

ITEM		MODEL	HD450	HD500		HD600
Engine						
Model			D6AC	D6CA38	D6CB38	D6CA 41
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	12,300	12,900
Bore x Stroke (mm)			130 x 140	133 x 155	130 x 155	133 x 155
Compression Ratio			16.5 : 1 (Euro1), 17 : 1 (Euro2)		17 : 1	
Max. Power ** (ps/rpm)	General		-	-	-	
	Euro I		340 / 2,200	-	-	
	Euro II		340 / 2,200	380 / 1,900	-	410 / 1,900
	Euro III		-	-	380 / 1,900	-
Max. Torque ** (kg.m/rpm)	General		-	-	-	-
	Euro I		148 / 1,400	-	-	-
	Euro II		140 / 1,200	148 / 1,500	-	188 / 1,500
	Euro III		-	-	148 / 1200	-
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		
	Starter		24V-5.5kw	24V-6.0kw		
Fuel System	Injection pump		DPICO in-line type (Euro1)	Delphi EUI system		
			Bosch in-line type (Euro2)			
	Governor		All Speed type (RLD-J)	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				
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				

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

3. Chassis Specifications

ITEM		MODEL	HD450	HD500		HD600
Engine			D6AC	D6CA38	D6CB38	D6CA 41
Transmission						
Model			M12S2 x 5	H160S2 x 5	ZF16S151	
Type			10 forward and 2 reverse speed,		16 forward and 2 reverse speed,	
			2nd to 10th synchromesh,		1nd to 16th synchromesh ,	
			1st & reverse constant-mesh gears		reverse constant-mesh gears	
Gear Ratio	1st (High / Low)		9.153 / 7.145		13.80 / 11.54	
	2nd (High / Low)		4,783 / 3,733		9.49 / 7.93	
	3rd (High / Low)		2,765 / 2,158		6.53 / 5.46	
	4th (High / Low)		1,666 / 1,301		4.57 / 3.82	
	5th (High / Low)		1,000 / 0.780		3.02 / 2.53	
	6th (High / Low)		-		2.08 / 1.74	
	7th (High / Low)		-		1.43 / 1.20	
	8th (High / Low)		-		1.00 / 0.84	
	Reverse (High / Low)		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		UJ250	S1810
Type			Tubular, Forged steel ends			
Size (Tube diameter x Thickness)			ø114.3 x 6.6 t			
Rear Axle						
Model			D12H			T18H
Type			Full floating type			
Capacity (kg)			11,500			11,800
Final Reduction Gear	Type	Single Reduction , Hypoid gear				
	G/Ratio	4.875	5.143/4.875		4.333	3.909
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)			6,550		6,550	8,000
Tire & Wheel						
Type			Single Front , Dual Rear			
Tire	Front	STD : 11.00 x 20 - 14PR				12R 22.5-16PR
	Rear					
Wheel	Front	7.5V x 20 - 165				8.25T x 22.5-165
	Rear					
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		22.4	20.2
Turning Angle	Inner	49°				
	Outer	35 °				

3. Chassis Specifications

ITEM		MODEL	HD450	HD500		HD600
Engine			D6AC	D6CA38	D6CB38	D6CA 41
Brake						
Service Brake	Actuation		Full Air, Dual circuit fixed S cam with spring loaded chambers			
	Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ø 410 x 56 x 19			
		Rear	Drum dia. x Lining width x Lining thickness : ø410 x 220 x 19			
	Compressed air reservoir		105 ℓ			
	Total lining area		9,639 cm²			
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		7,116 cm²			
Exhaust Brake			Air operated, butterfly valve type			
Jake Brake(OPT)			Injection cam operated type			
Suspension						
Type	Front		Leaf	Taper		
	Rear		Leaf			
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,500 x 90 x 13 t - 7	1,500 x 90 x 20 t - 3		
	Rear	Main	1,600 x 90 x 13t - 8			
		Helper	1,000 x 90 x 10t - 11			1,000 x 90 x 10t - 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)		730 x 810 x 49	729.5 x 810 x 66	699 x 894 $\frac{11}{16}$ 60	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			350 liter (Steel) , 380 liter (Aluminum)			350 liter (Steel) , 380 liter (Al) 650 liter(Steel)
Material						
Frame						
Type			"H" type frame with channel sectional side rail & cross members			
Main side rail (mm)			Depth x Flange x Thickness : 280 x 90 x 8 t			

4. Electrical system Specification

ITEM	MODEL	HD450	HD500	HD600
Electrical Equipments				
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		
Meters		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 type, Single-air type		

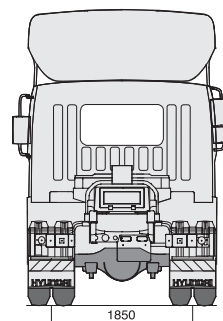
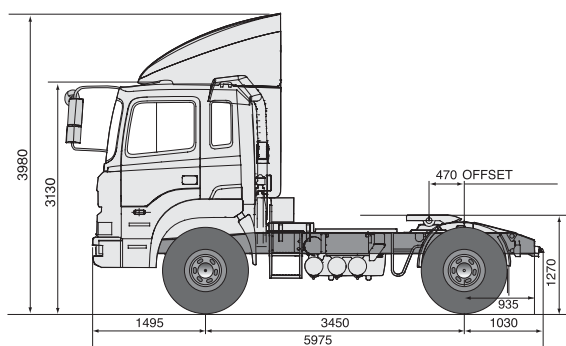
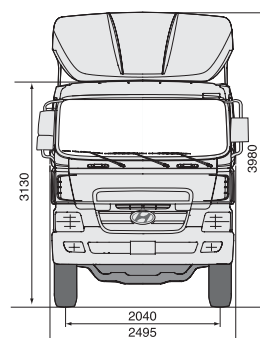
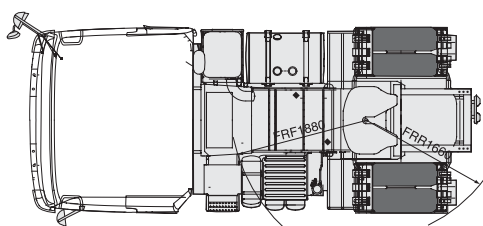
5. Body

ITEM	MODEL	HD450	HD500	HD600
Cab				
Type		Hydraulic tilting type cab, 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		Multi function seat(OPT)
Assistant's Seat		Spring & Urethane foam cushioned, Vinyl material		

6. Dimensions

Short Wheelbase

HD450, HD500, HD600



1. Dimension, Weights Specifications

ITEM		MODEL	HD700	HD1000		
Vehicle Type			Tractor			
Cab Type			Sleeper Cab			
Wheel Base			Short			
Drive System			LHD , 6 x 4			
Application Engines			D6AC	D6CA41	D6CB41	
Dimensions (mm)						
Wheel Base			4,350 (3,050 + 1,300)			
Overall	Length		6,685			
	Width		2,495			
	Height		3,130 (3,980 : with spoiler)			
Wheel Tread	Front		2,040			
	Rear		1,850			
Overhang	Front		1,495			
	Rear		840			
Overhang (Frame)	Front		1,420			
	Rear		820			
Fitting Radius Front (F.R.F)			2,230			
Fitting Radius REAR (F.R.R)			1,940			
Fifth Wheel Loading Capacity (kg)			20,000			
Coupler	Type		1Axis (STD) , 2 Axis (OPT)			
	Capacity (kg)		16,500(2") , 36,000(3.5")			
	King Pin Diameter		SAE 2" (STD) , 3.5" (OPT)			
	Ground Height		1,270 (1 Axis) , 1,330 (2 Axis)			
	Offset		260			
Min. Ground Clearance			250			
Weight (kg)						
Empty Vehicle Weight			8,780	8,930	9,060	
			Front	4,300	4,600	4,640
			Rear	4,480	4,420	
Max. Gross Vehicle Weight **			30,130	30,130**		
			Front	6,530		
			Rear	11,800x 2		11,800x 2**

2. Performance Specifications

ITEM	MODEL	HD700	HD1000	HD1000
Application Engines		D6AC	D6CA41	D6CB41
Calculated Performance				
Max. Speed	km/h	99	120	120
Max. Gradeability	tan θ	0.537	0.855	0.855
Min. Turning Radius	m	6.8		

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

3. Chassis Specification

ITEM		MODEL	HD700	HD1000	
Engine					
Model			D6AC	D6CA41	D6CB41
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	12,300
Bore x Stroke (mm)		130 x 140		133 x 155	130 x 155
Compression Ratio		16.5 : 1 (Euro1) , 17 : 1 (Euro2)		17 : 1	
Max. Power ** (ps/rpm)	General	-		-	-
	Euro I	340 / 2,200		-	-
	Euro II	340 / 2,000		410 / 1,900	-
	Euro III	-		-	410 / 1,900
Max. Torque ** (kg.m/rpm)	General	-		-	-
	Euro I	140 / 1,400		-	-
	Euro II	148 / 1,200		188 / 1,500	-
	Euro III	-		-	188 / 1,200
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	
	Starter	24V-5.5kw		24V-6.0kw	
Fuel System	Injection pump	DPICO in-line type (Euro1)		Delphi EUI system	
		Bosch in-line type (Euro2)		Electronic Control	
		All Speed type (RLD-J)			
	Governor	Spin-on type			
Oil System	Fuel filter	Forced lubrication by gear pump			
	Lubrication	Full flow and bypass type with paper element			
	Oil filter	Water cooled , plate fin type			
	Oil cooler	API service classification CF-4 or above			
Valve System	Oil grade	Single Overhead Valve , Two valves per cylinder			
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			

** 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	HD700		HD1000	
Engine			D6AC		D6CA41	D6CB41
Transmission						
Model			M12S2 x 5	H160S2 x 5	ZF 16S151	ZF 16S151
			Euro1	Euro2	Euro 1 / 2	Euro2
14.2 ptType			10 forward and 2 reverse speed 2nd to 10th synchromesh 1st & reverse constant-mesh gears		16 forward and 2 reverse speed , 1st to 16th synchromesh , reverse constant-mesh gears	
14.2 ptGear Ratio	1st (High / Low)		9.153 / 7.145		13.80 / 11.54	
	2nd (High / Low)		4,783 / 3,733		9.49 / 7.93	
	3rd (High / Low)		2,765 / 2,158		6.53 / 5.46	
	4th (High / Low)		1,666 / 1,301		4.57 / 3.82	
	5th (High / Low)		1,000 / 0.780		3.02 / 2.53	
	6th (High / Low)		-		2.08 / 1.74	
	7th (High / Low)		-		1.43 / 1.20	
	8th (High / Low)		-		1.00 / 0.84	
	Reverse (High / Low)		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			Tubeless, Forged steel ends			
Size (Tube diameter x Thickness)			ø114.3 x 6.6 t			
Rear Axle						
Model			D12HT			
Type			Full floating type			
Capacity (kg)			13,000 x 2(Ratio 4,333), 11,800 x 2(Ratio 3,909 & 5,571)			
Final Reduction Gear	Type	Single Reduction , Hypoid gea				
	G/Ratio	5.571		3.909 / 4.333		
Gear Oil			SAE service classification 80W / 90W (80W / 140W : Tropical zones only)			
Front Axle						
Type			Reverse Elliot type " I " beam			
Capacity (kg)			6,550			
Tire & Wheel						
Type			Single Front , Dual Rear			
Tire	Front	11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)				
	Rear					
Wheel	Front	7.5V x 20 - 165 (STD) , 8.25T x 22.5-165 (OPT)				
	Rear					
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			22.4
Turning Angle	Inner	49 °				
	Outer	35 °				

3. Chassis Specification

ITEM		MODEL	HD700	HD1000	
Engine			D6AC	D6CA41	D6CB41
Brake					
Service Brake	Actuation		Full Air, Dual circuit fixed S cam with spring loaded chambers		
	Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ø 410 x 156 x 19		
		Rear	Drum dia. x Lining width x Lining thickness : ø 410 x 220 x 19		
	Compressed air reservoir		140 ℓ		
	Total lining area		9,639 cm²		
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 cm²		
Exhaust Brake			Air operated, butterfly valve type		
Jake Brake (Optional)			-	Injection Cam operated type	
Suspension					
Type	Front		Semi-Elliptic Laminated Leaf	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 13 t - 7	1,500 x 90 x 20 t - 3	
	Rear	Main	1,480 x 90 x (20t - 3 & 18t - 7)		
		Helper	-		
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)		730 x 810 x 49	730 x 810 x 66	699 x 894 x 60
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			350 liter (Steel) , 380 liter (Aluminum)		
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 : 280 x 90 x 8 t		

4. Electrical system Specification

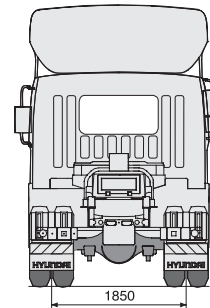
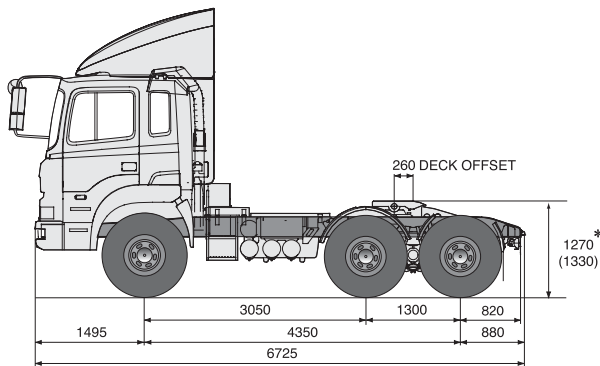
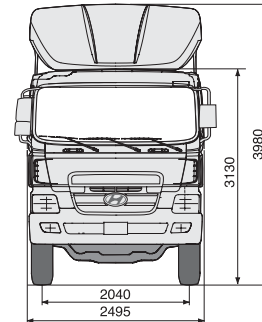
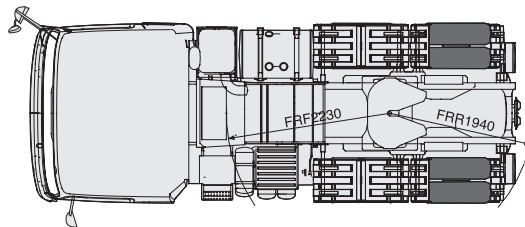
ITEM	MODEL	HD700	HD1000
Electrical Equipments			
Head lamps		Semi sealed beam (Projection beam : D6CB)	
Front combination lamps		Turn signal / Hazard-Amber , Position-White	
Fog lamps		Yellow / White (D6CB)	
Rear combination lamps		Turn Signal / Hazard-Amber , Tail / Stop- Red	
License plate lamp		White	
Back-up lamp		White	
Instruments			
Meter Cluster		Fixed type	
Meters		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	

5. Body

ITEM	MODEL	HD700	HD1000
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	
Assistant's Seat		Spring & Urethane foam cushioned, Vinyl material	

Short Wheelbase

HD700, HD1000



* 1 Axis:1270, 2 Axis:1330.

HYUNDAI MIXER TRUCK

1. Dimension, Weights Specifications

ITEM		MODEL	HD270 Mixer	
Vehicle Type			Mixer	
Cab Type			Sleeper Cab	
Wheel Base			Short	
Drive System			LHD , 6 x 4	
Application Engines			D6CA38	D6CB3H
Dimensions (mm)				
Wheel Base			4,590 (3,290 + 1,300)	4,590 (3,290 + 1,300)
Overall (Mixer)	Length		8,310	8,325
	Width		2,495	2,495
	Height		3,660	3,660
Wheel Tread	Front		2,040	2,040
	Rear		1,850	1,850
Overhang (Mixer)	Front		1,495	1,495
	Rear		2,225	2,240
Overhang (C/cab)	Front		1,495	1,495
	Rear		1,130	1,320
Drum	Length		4178.5	4178.5
	Diameter		ø2100	ø2100
	Agitating Capacity		7 m³	7 m³
Drum Offset			470	470
Min. Ground Clearance			285	285
Weight (kg)				
Empty Vehicle Weight			11,640	11,650
	Front		4,445	4,445
	Rear		7,195	7,195
Max. Gross Vehicle Weight **			28,130	
	Front		6,530	
	Rear		10,800x2	

2. Performance Specifications

ITEM		MODEL	HD270 Mixer	HD270 Mixer
Application Engines			D6CA38	D6CB3H
Calculated Performance				
Max. Speed	km/h		101	101
Max. Gradeability	tan θ		0.267	0.267
Min. Turning Radius	m		7.5	7.5

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

3. Chassis Specifications

ITEM		MODEL	HD270 Mixer	
Engine				
Model		D6CA38		D6CB3H
Type		Turbo Charger Intercooler		
		4 stroke-cycle, water-cooled, direct-injection diesel engine		
Number of Cylinder		6 in-line		
Piston Displacement (cc)		12,920		12,300
Bore x Stroke (mm)		133 x 155		130 x 155
Compression Ratio		17 : 1		
Max. Power ** (ps/rpm)	General	-		
	Euro I	-		
	Euro II / Euro III	380 / 1,900		
Max. Torque ** (kg.m/rpm)	General	-		
	Euro I	-		
	Euro II / Euro III	148 / 1,500(Euro II)		160 / 1,200 (Euro III)
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		
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		

** 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 Specifications

ITEM		MODEL	HD270 Mixer	
Engine			D6CA38	D6CB3H
Transmission				
Model			M12S6 (Over Drive)	H160S6
Type			6 forward and 1 reverse speed , 2nd to 6th synchromesh , 1st & reverse constant-mesh gears	
Gear Ratio	1st		7.213	
	2nd		4.178	
	3rd		2.587	
	4th		1.621	
	5th		1.000	
	6th		0.702	
	Reverse		7.081	
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)			ø 114.3 x 6.6 t	
Rear Axle				
Model			D10HT	T14HT
Type			Full floating type	
Capacity (kg)			11,500 x 2	
Final Reduction Gear	Type		Single Reduction , Hypoid gear	
	G/Ratio		5.571	
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	
Tire & Wheel				
Type			Single Front , Dual Rear	
Tire	Front		11.00 x 20 - 16PR (STD) , 12R 22.5 - 16PR (OPT)	
	Rear			
Wheel	Front		7.5V x 20 - 165 (STD) , 8.25T x 22.5-165 (OPT)	
	Rear			
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 °	

3. Chassis Specifications

ITEM		MODEL	HD270 Mixer	
Engine			D6CA38	D6CB3H
Brake				
Service Brake	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		120 ℓ	
	air reservoir			
Total lining area		9,639 cm²		
Parking Brake	Actuation		Spring loaded type chamber on the front wheel and 1st rear wheel	
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø410 x 156 x 19 / ø410 x 220 x 19	
	Total lining area		7,116 cm²	
Exhaust Brake			Air operated, butterfly valve type	
Jake Brake (Optional)			Injection Cam operated type	
Suspension				
Type	Front		Semi-elliptic , laminated leaf springs	Taper leaf springs
	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 13 t - 9	1,500 x 90 x 23 t -3
	Rear	Main	1,480 x 90 × (20 t - 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	
	Core size (mm)		Width x Height x Thickness : 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			200 liter	
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 8 t	
Outer Stiffener (mm)			Depth x Flange x Thickness : 316 x 97 x 7 t	

4. Electrical system Specification

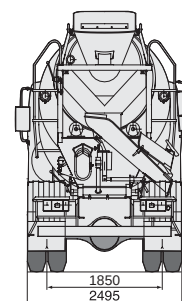
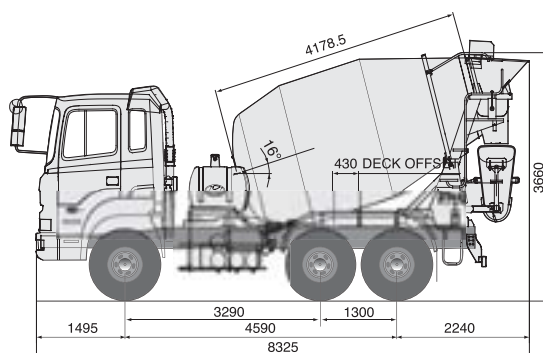
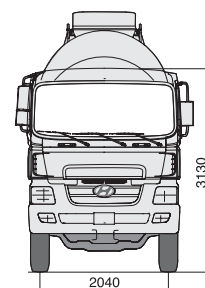
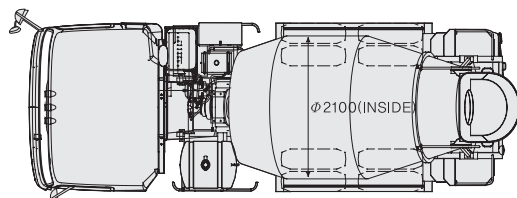
ITEM	MODEL	HD270 Mixer
Electrical Equipments		
Head lamps		Semi sealed beam (Projection beam : D6CB)
Front combination lamps		Turn signal / Hazard-Amber , Position-White
Fog lamps		Yellow (White : D6CB)
Rear combination lamps		Turn Signal / Hazard-Amber , Tail / Stop- Red
License plate lamp		White
Back-up lamp		White
Instruments		
Meter Cluster		Fixed type
Meters		Speedometer with odometer / Air & Oil Pressure / Voltage / Tachometer / Fuel / Water temperature gauges Turn signals & Hazard / Parking brake / Oil pressure with buzzer / Door opening /
Warning lamps & Indicators		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

5. Body

ITEM	MODEL	HD270 Mixer
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
Assistant'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 m ³
Slope angle of drum		16°
Rotation speed of drum	Agitating	2 ~ 4 rpm
	Discharging	1 ~ 14 rpm
Power Take Off device		Fly wheel PTO

6. Dimensions

Short Wheelbase HD270



HYUNDAI BUS

1. Dimension, Weight Specifications

Drive type	LHD, 4 x 2									
Body type	Standard body					Long body				
Suspension type	Leaf									
Door type	1 Door				2 Door	1 Door				2 Door
Trim	Economy / Deluxe				Economy	Deluxe				Economy
Seat capacity	14 + 1	18+1	24 + 1	15+ 1	16+1	24 +1	26+1	28 + 1	29 + 1	19+1

Dimensions (mm)

Overall Length		6,345	7,080
Overall Width		2,035	
Overall Height		2,630(A/con: 2,755)	
Wheel Base		3,350	4,085
Wheel tread	Front	1,705	
	Rear	1,495	
Overhang	Front	1,135	
	Rear	1,735	
Body Inside	Length	5,525	6,260
	Width	1,910	
	Height	1,860	
Min. Ground Clearance		195	

Weight(Kg)

Seat capacity		24+1(D4AL/D4DB/D4DB-d/D4DD)	28+1(D4AL/D4DB/D4DB-d/D4DD)	
Empty Vehicle Weight		3,760/3,845/3,845/3,985	4,035/4,085/4,085/4,180	
	Front	1,820/1,890/1,890/1,965	1,975/2,020/2,020/2,105	
	Rear	1,940/1,955/1,955/2,020	2,060/2,065/2,065/2.075	
Max. Gross Vehicle Weight **		6,360	6,670	
		Front	2,260	2,570
		Rear	4,100	

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

2. Performance Specifications

Calculated Performance

Engine	D4AF / D4DC / D4AL / D4DB-d / D4DB / D4DD									
Max. Speed	km/h	109 / 104 / 109,107 / 120 / 111 / 115								
Max. Gradeability	tan θ	0.35 / 0.30 / 0.33,0.34 / 0.37 / 0.38 / 0.39								
Min. Turning Radius	m	6.2				7.4				

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 Specifications

Body type		Standard	Standard/Long				
Engine & Power train							
Engine model		D4AF	D4DC	D4AL	D4DB-d	D4DD	D4DB
Type		Natural Aspiration		Turbo Charger Intercooler			
		4 stroke-cycle, water-cooled, direct-injection diesel engine					
Number of Cylinder		4 in-line					
Piston Displacement (cc)		3,568	3,907	3,298	3,907		
Bore x Stroke (mm)		104 x 105	104 x 115	100 x 105	104 x 115		
Compression Ratio		18 : 1	18.1 : 1	16.5	18.5 : 1	17.5 : 1	18 : 1
Max. Power** (ps/rpm)	General	100 / 3,400	-	-	-	-	-
	Euro I	-	120 / 3,200	115 / 3,400	-	-	155(Gen),130(Tropic/Cold)/2,900
	Euro II	-	-	-	120/2,900	-	130 / 2,900
	Euro III	-	-	-	-	140 / 2,800	-
Max. Torque** (kg.m/rpm)	General	24 / 2,000	-	-	-	-	-
	Euro I	-	30 / 2,000	29 / 2,000	-	-	38 / 1,800
	Euro II	-	-	-	30/2,000	-	38 / 1,800
	Euro III	-	-	-	-	38 / 1,600	-
Cooling system	General	Wax-pellet & bottom bypass type with thermostat, Water-cooling, Forced circulation by centrifugal water pump					
	Cooling fan	Polyamid & Suction type					
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank					
Electrical system	Battery	24V-70AH (24V-100AH: Cold Region only, 90AH : OPT)					
	Alternator	24V-40A (70A : OPT)					
	Starter	24V-5.0KW					
Fuel System	Injection pump	DooWon in-line type				Denso common rail system	DooWon in-line type
	Governor	All speed type				-	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	Shell-and-tube type	Shell-and-plate type	Shell-and-tube type	Shell-and-plate type		
	Oil grade	API classification service CF-4 or above					
Clutch							
Type		Vacuum assisted Hydraulic control , Single dry plate					
Facing material		Non-Asbestos					
Facing Size (mm); Outside dia. x Inside dia.		ø275 x ø180				ø300 x ø190	
Transmission							
Model		M2S5 (0.D)	M3S5 (0.D)			M035S5 (0.D)	
Type		5 forward and 1 reverse speed , 1st to 5th synchro-mesh , reverse constant-mesh gears					
Gear Ratio	1st	5.494	5.181			5.380	
	2nd	2.836	2.865			3.028	
	3rd	1.592	1.593			1.700	
	4th	1.000	1.000			1.000	
	5th	0.746	0.739			0.722	
	Reverse	5.494	5.181			5.380	
T.G.S.(Transmission Gear Shift)		Floor shift , Mechanical remote control					

** Max. torque and power of engine specifications may vary according to each country.

3. Chassis Specifications

Engine model		D4AF	D4DC	D4AL	D4DB-d	D4DD	D4DB
Propellershaft							
Model		P2	P3				
Type		Tubular, Forged steel ends with universal joint needle roller bearing					
Size (Diameter x Length)		ø 76.2 x 2.6 t					
Rear Axle							
Model		D2H	D2H II			D3H	
Type		Full floating type					
Capacity(kg)		4,100					
Final Reduction Gear	Type	Single Reduction, Hypoid gear					
	Ratio	6.333	6.142	6.142/6.333			5.375
Front Axle							
Type		Reverse Elliot type " I " beam					
Capacity(kg)		2,600					
Tire & Wheel							
Type		Single Front, Dual Rear					
Tire	Front/Rear	7.00R16-10PR	7.00R16-10PR standard, 7.00R16-12PR(Long)				
Wheel size	Front/Rear	5.50 F - 16 - 115 - 8T					
Steering							
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column					
Steering Wheel Diameter (mm)		410					
Tilting Angle		55.5° ~ 62.2°					
Telescopic Stroke (mm)		28.6					
Turning Angle	Inner/Outer	32.8°/ 42.8°					
Brake							
Service Brake	Type	Hydraulic with vacuum servo assistance, dual circuit					
	Drum diameter	ø320					
	Lining size (mm)	Width x Lining thickness					
		Front	85 x 10				
		Rear	85 x 10				
	Adjuster	Manual or Auto					
Parking Brake	Type	Integral expanding type on propellershaft at the rear of transmission					
	Size	M2S5/M3S5 : ø180 x 35 x 5 , M03S5 : ø190 x 45 x 4					
Exhaust Brake		Vacuum operated, butterfly valve type					
Suspension							
Type	Front / Rear	Semi-elliptic , laminated leaf springs with shock absorber					
Spring Size	Dimension (mm)	Span x Width x Thickness - EA					
	Front	1,200 x 70 x 11 t - 2, 12t - 3					
	Rear	1,360 x 70 x 11t - 5, 12t - 2					
Stabilizer bar	Front/Rear	Torsion bar type					
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles					
Air filter							
Type		Cyclonic dry paper element					
Fuel tank							
Capacity		95 liter					
Material		Steel					
Frame							
Type		channel sectional with reinforce & cross members. Side rail is reinforced with outer stiffeners.					
Main section side rail (HxWxt) mm		170 x 55 x 6 t					

4. Electrical system Specifications

Electrical Equipment

Head lamps	Semi-Sealed beam - White
Front combination lamps	Turn signal/Hazard-amber, Position-White
Front fog lamp	White
Rear combination lamps	Turn signal/Hazard-amber, Tail/Stop-red
License plate lamp	White
Back-up lamp	White
Room lamp	Incandescent
Room lamp (Front & Rear)	Alarm lamp (Red / Yellow)

Instruments

Meter	Speedometer with odometer
Gauge	Fuel, Water temperature
Warning lamp & indicators	Main beam, glow, turn signal, exhaust brake, parking, overheat, low fuel, vacuum charging, oil pressure, battery charge, brake oil level, door, stop, seat belt, brake ABS, heat mirror
Clock	Digital clock in cluster (OPT)
Glove box	Glove box without locking
Radio	AM/FM radio, cassette
Ashtray	Ashtray with cigar light
Horn	Single, electric type

A/con (Option)

Aircon	Type	In the roof
	Capacity(kcal/h)	10,000

5. Body

Exterior

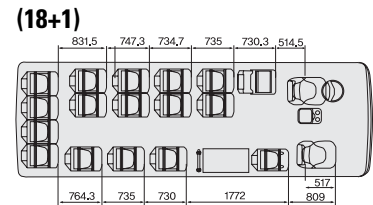
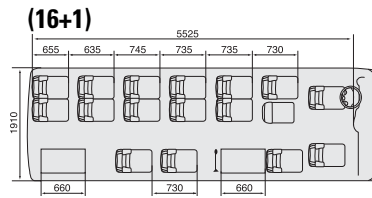
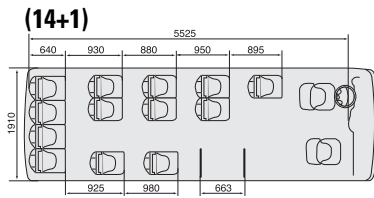
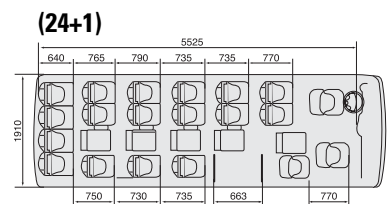
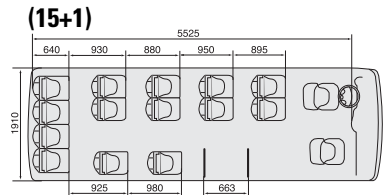
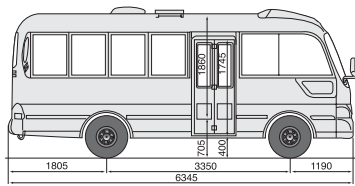
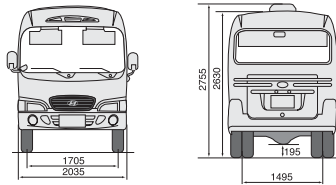
Body type	Frame type
Windshield glass	One piece type with laminated safety glass
Windshield Wipers	Dual electric three speed, wiper & washer tank 1.6 liter
Outside rear view mirror	2 pieces deluxe type on both sides
Side glass	Full sliding type
Rear glass	One piece type with tempered glass, Rear under view mirror
Bumper	Front/rear Pressed steel painted bumper
Door	Driver's Door Manual swing type
	Mid Door Two sections inward manual folding type(STD TRIM) Two sections inward Automatic folding type(DLX TRIM or OPT)
	Rear Door Two sections inward manual folding type Two sections inward Automatic folding type(OPT)

Interior

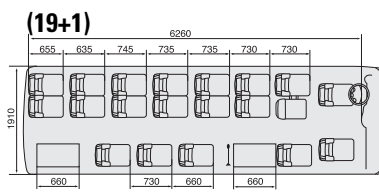
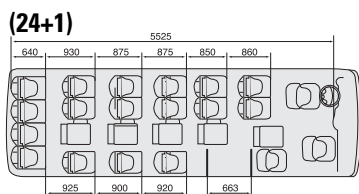
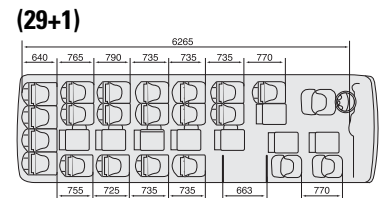
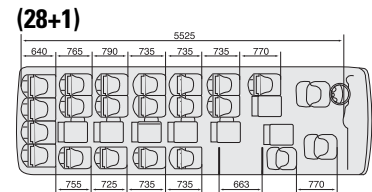
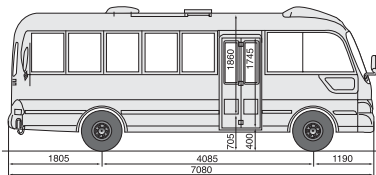
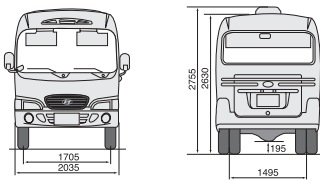
Driver's Seat	Sliding, reclining, lumbar support
Passenger's seat	Steel tube framing type with vinyl leather covering (Fix or Reclining type)
Floor covering	Linoleum mat, Luckstrong mat
Roof material	Leather covering type
Side material	Hardboard type
Shelves	Type Board type
	Capacity (WxHxL) 315 x 200 x 3,030 315 x 200 x 3,760
Sunvisor	Folding type, left hand side above windshield glass

6. Dimensions & Seat Layout

Standard



Long



1. Dimension, Weight Specifications

Drive type	LHD, 4 x 2								
Body type	Standard body				Long body				
No. of Door	1		2		1			2	
Suspension type	LEAF				LEAF		AIR	LEAF	
Seat capacity	33+1	29+1	20+1	26+1	37+1	33+1	33+1	24+1	28 + 1

Dimensions (mm)

Overall Length		8,495		8,990	
Overall Width		2,290			
Overall Height		2,895(a/con: 3,125)			
Wheel Base		4,000		4,390	
Wheel tread	Front	1,910			
	Rear	1,740			
Overhang(Bumper)	Front	1,800			
	Rear	2,560(2,645)		2,665(2,750)	
Body Inside	Length	7,515	7,541	8,010	8,036
	Width	2,128			
	Height	1,902			
Min. Ground Clearance		195			

Weight(Kg)

Seat capacity		33+1 (D6BR / D6DA19 & D6DA22)	37+1(D6BR / D6DA19 & D6DA22)	
Empty Vehicle Weight		6,965/7,030	7,175/7,345	
		Front	2,115/2,075	2,220/2,225
		Rear	4,850/4,955	4,955/5,120
Gross Vehicle Weight**		10,140		
		Front	3,300	
		Rear	6,840	

2. Performance Specifications

Calculated Performance

Engine		D6BR / D6DA19	D6BR / D6DA19 / D6DA22
Max. Speed	km/h	122,107 / 114,103	122,107 / 114,103 / 117,109
Max. Gradeability	tan θ	0.28,0.32 / 0.32,0.36	0.28,0.32 / 0.32,0.36 / 0.34,0.36
Min. Turning Radius	m	7.1	7.8

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

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 Specifications

Body type		Standard/Long		Long
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		18.0 : 1	17.6 : 1	
Max. Power** (ps/rpm)	General	181 / 2,900	-	-
	Euro I	167 / 2,900	-	-
	Euro II	-	196 / 2,500	220 / 2,500
	Euro III	-	-	225 / 2,500
Max. Torque** (kg.m/rpm)	General	49 / 1,400	-	-
	Euro I	45 / 1,400	-	-
	Euro II	-	58 / 1,700	65 / 1,700
	Euro III	-	-	65 / 1,700
Cooling system	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling, Forced circulation by centrifugal water pump		
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank		
Electrical system	Battery	24V-120AH at 20hr rate(24V-150AH: Cold Region only)		
	Alternator	24V-70A (120A : OPT)		
	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		
Exhaust System		with Doc		
Clutch				
Type		Hydraulic control with air assisted, Single dry plate		
Facing material		Non-Asbestos		
Facing Size (mm); Outside dia. x Inside dia.		ø354 x ø225	ø350 x ø220	ø380 x ø240
Transmission				
Model		K505A(D.D)	KH-10(D.D)	
Type		1st	5 forward and 1 reverse speed, 2nd to 5th synchromesh 1st & reverse constant-mesh gears	
Gear Ratio	2nd	7.216	6.967	
	3rd	4.629	4.247	
	4th	2.582	2.454	
	5th	1.479	1.471	
	Reverse	1.000	1.000	
		7.216	6.492	
T.G.S.(Transmission Gear Shift)		Floor shift, Mechanical remote control		
Propellershaft				
Model		S1550	P8	P10
Type		Forged steel ends with universal joint needle roller bearing Tubeless(D6BR, LONG: Tube type)		
		ø88.9 x 4 t	ø74	ø82

** Max. power and torque of engine specifications may vary according to each country.

3. Chassis Specifications

Engine Model			D6BR		D6DA19		D6DA22	
Rear Axle								
Model			D4H		D4H- II			
Type			Full floating type					
Capacity(kg)			8,800					
Final Reduction Gear		Type	Single Reduction , Hypoid gear					
		Ratio	3.909/4.444		3.909/4.333		3.636/3.909	
Front Axle								
Type			Reverse Elliot type " I " beam					
Capacity(kg)			3,300					
Tire & Wheel								
Type			Single Front, Dual Rear					
Tire	Front/Rear		7.50 ×18-16PR				7.50 ×18-16PR, 245-70R 19.5	
Wheel size	Front/Rear		6.00S × 18 - 135				6.00S × 18 - 135, 6.75 ×19.5 - 140	
Steering								
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column					
Steering Wheel Diameter (mm)			ø500					
Tilting Angle			57°~ 66.16°					
Telescopic Stroke (mm)			50					
Turning Angle		Inner/Outer	48° ±1/32.9° ±1				← / 49° ± 1/34.2° ±1	
Brake								
Service Brake	Type		Air over Hydraulic, dual circuit / Full air (D6DA OPT)					
	Drum diameter		ø370(ø360: Full Air)					
	Lining size		Lining width x Thickness					
	(mm)	Front	110 x 13 t / 160 x 16t					
Rear		150 x 13 t / 160 x 16t						
Parking Brake	Type		Integral expanding type on propellershaft at the rear of transmission for AOH Spring loaded type parking brake on the rear wheels for full air brake					
	Size (mm)		ø203.2 x 50 x 4.5 t					
Exhaust Brake			Air operated, butterfly valve type					
Suspension								
Type			Rolling robe type, air spring with leaf spring / long taper springs					
Spring Size	Dimension (mm)		Air: (Dia. x Height - EA)+(Span x Width x Thickness - EA) Leaf: Span x Width x Thickness - EA					
	Air	Front	(200 x 224 - 2(Air)) + (1,420 x 70 x 11t-1,18t-1(Leaf))					
		Rear	(200 x 228 - 4(Air)) + (1,450 x 80 x 9t-1,18t-1(Leaf))					
	Leaf	Front	1,400 x 70 x 21t-3					
		Rear	1,450 x 80 x 19t-4					
Stabilizer bar		Front / Rear		Torsion bar type				
Shock absorber			Hydraulic double acting telescopic type on the front & rear axles					
Air filter								
Type			Cyclonic dry paper element					
Fuel tank								
Capacity			200 liter					
Material			Steel					
Frame								
Type			Semi-monocoque (FRT & RR Extension Frame)					
Main section side rail			mm		FRT :163 x 60 x 6t / RR :160 x 60 x 7t			

4. Electrical system Specification

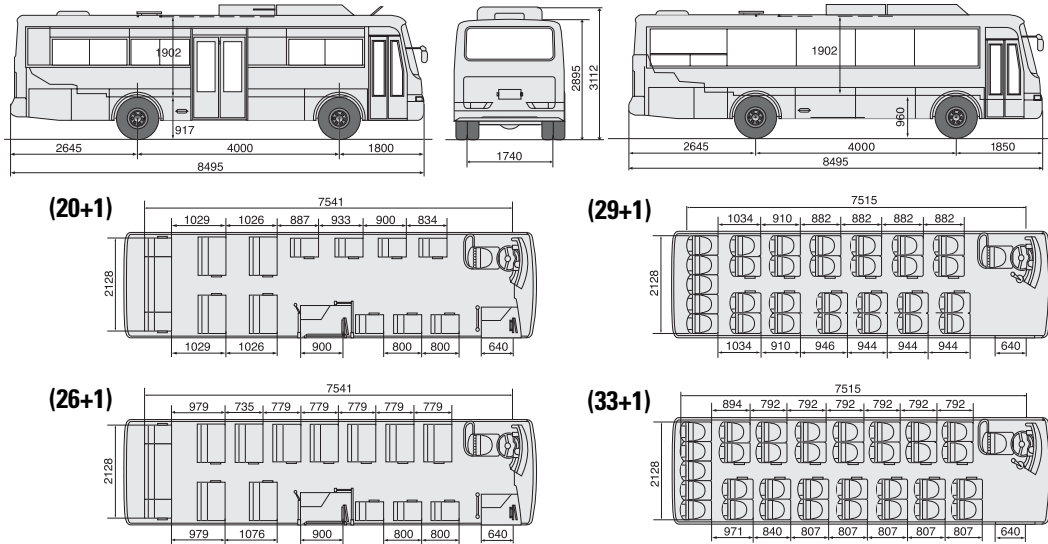
Lamps		
Head lamps	Semi-Sealed beam, two dual lamp(70 x 70/50W White)	
Front combination lamps	Turn signal/Hazard-amber, Position-White	
Fog lamp	White	
Rear combination lamps	Turn signal/Hazard-amber, Tail/Stop-red	
License plate lamp	White	
Back-up lamp	White	
Room lamp	Flourescent	
Instruments		
Meter	Speedometer with odometer or tachograph	
Gauge	Fuel, water temperature, oil pressure, air pressure, voltage, tachometer	
Warning lamp & indicators	Main beam, charging,exhaust brake, door, seatbelt, brake air, brake oil, water level, Over heat ABS, heat, low fuel, turn signal/hazard, stop, oil pressure with buzzer, Parking brake	
Radio	AM/FM radio, cassette	
Horn	Dual, flat type	
A/con (Option)		
Aircon	Type	On the roof
	Capacity(kcal/h)	21,000 (4-FAN)

5. Body

Body type		Standard	Long
Exterior			
Body type		Semi-monocoque	
Windshield glass		Two pieces type with laminated safety glass	
Windshield Wipers		Dual electric high & low speed, wiper with itermittent relay and washers electrically operated	
Outside rear view mirror		2 pieces deluxe type on both sides	
Side glass		Bottom sliding type (STD), Fixed (OPT)	
Luggage box	capacity(m³)	1.0	1.3
Rear glass		One piece type with tempered glass	
Bumper	Front/Rear	Pressed steel painted bumper	
Door	Front Door	Two sections inward folding automatic type	
	Mid Door	Two sections inward folding automatic type (2 Door only)	
Interior			
Driver's Seat		Adjustable up and down & fore and after reclining air suspension seat	
Passenger's seat		Steel tube framing type with vinyl leather covering (Fix or Reclining type)	
Side & roof material		Hardboard type	
Shelves	Type	Pipe & Board type	
	Capacity (WxHxL)		
	- Pipe type	490 x 240 x 6,228	490 x 240 x 6,828
	- Board type	390 x 240 x 5,670	390 x 240 x 6,280
Sunvisor		Roll curtain type, left hand side above windshield glass	
Floor covering Handrail		Linoleum mat, Luckstrong	
		2 row	

6. Dimensions & Seat Layout

Standard



Long



1. Dimension, Weight Specifications

Drive type	LHD, 4 x 2			
Purpose	CITY		INTERCITY	
Floor type	FLAT			
Door	2		2	1
Suspension type	LEAF			
Seat capacity	21+1/27+1	25+1(CNG)	38+1, 41+1, 45+1	45+1

Dimensions (mm)

Overall Length		10,955		
Overall Width		2,490		
Overall Height		2,985 (A/con:3,175)	3,020 (A/con: 3,210)	
Wheel Base		5,400		
Wheel tread	Front	2,010		
	Rear	1,860		
Overhang	Front	2,320		
	Rear	3,235		
Body Inside	Length	9,960	9,980	
	Width	2,330	2,330	
	Height	2,030	1,950	1,950
Min. Ground Clearance		235		

Weight(Kg)

Seat capacity	21+1	25+1(CNG)	38+1	45+1
Empty Vehicle Weight		10,400	11,130	10,585
	Front	3,010	3,285	3,020
	Rear	7,390	7,845	7,565
Gross Vehicle Weight**		16,000	16,000	15,080
	Front	6,000	6,000	5,480
	Rear	10,000	10,000	9,600

2. Performance Specifications

Calculated Performance

Engine	D6AV / D6AB-D / C6AC			
Max. Speed	km/h	96, 127, 117 / 117, 108		
Max. Gradeability	tan θ	0.26, 0.27, 0.30 / 0.31, 0.35		
Min. Turning Radius	m	8.9		

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

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) Performance specification of D6ABDD engine based on the rear axle ratio 3.909.
- 4) This vehicle specifications may differ per country.
- 5) For further information please contact the commercial vehicle export teams of HMC .
- 6) In order that product improvement may be introduced at any time, specifications are subject to change without prior notice.

3. Chassis Specifications

Body type		Standard Body		
Engine				
Engine model		D6AV	D6AB-D	C6AC(CNG)
Type		Natural Aspiration	Turbo Charger,Intercooled	Turbo Charger,Intercooled
		4 stroke-cycle, water-cooled, direct-injection diesel engine		4 stroke-cycle, water-cooled, CNG engine
Number of Cylinder		6 in-line		
Piston Displacement (cc)		11,149		
Bore x Stroke (mm)		130 x 140		
Compression Ratio		17 : 1	17.5 : 1	11.5:1
Max. Power** (ps/rpm)	General	235 / 2,200	-	-
	Euro I	220 / 2,200	300 / 2,200	-
	Euro II	-	280 / 2,000	290 / 2,000
	Euro III	-	280 / 2,000	-
Max. Torque** (kg.m/rpm)	General	78 / 1,400	-	-
	Euro I	75 / 1,400	110 / 1,400	-
	Euro II	-	110 / 1,200	110 / 1,200
	Euro III	-	110 / 1,400	-
Cooling system	General	Pressure type with thermostat, Forced circulation by centrifugal water pump		
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank		
Electrical system	Battery	24V-150AH(24V-200AH: Cold Region only), 24V-200AH (C6AC)		
	Alternator	24V-70A (OPT : 150A), 24V-180A (C6AC)		
	Starter	24V-5.5KW		
Fuel System	Injection pump	DPICO in-line type	DPICO in-line type (Euro I) Bosch in-line type (Euro II)	Woodward CNG System SPI + Mixer
	Governor	Min-Max type (RFD)	All Speed type (RLD-J)	-
	Fuel filter	Spin-on type		
Oil System	Lubrication	Forced lubrication by gear pump		
Exhaust System		with Doc		

Clutch

Type	Hydraulic control with air assisted , Single dry plate			
Facing material	Non-Asbestos			
Facing Size (mm);	ø430 x ø250			
Outside dia. x Inside dia.				

Transmission

Model		M8S5 (D.D)	M8S5 (O.D)	M10S5 (D.D)
Type		5 forward and 1 reverse speed, 2nd to 5th synchro-mesh 1st & reverse constant-mesh gears		
Gear Ratio	1st	6.552	5.431	6.571
	2nd	4.178	3.463	4.436
	3rd	2.415	1.747	2.631
	4th	1.498	1.000	1.567
	5th	1.000	0.741	1.000
	Reverse	6.849	5.677	6.240
T.G.S.(Transmission Gear Shift)		Floor shift , Mechanical remote control		

Propellershaft

Model	S1710	
Type	Tubular	Tubeless
	Forged steel ends with universal joint needle roller bearing	
Size (Diameter x Thickness)	ø101.6 x 5 t	ø81

**Max torque and power of engine specifications may vary according to each country.

3. Chassis Specifications

Engine model		D6AV		D6AB-D		C6AC(CNG)	
Rear Axle							
Model		D8S					
Type		Full floating type					
Capacity (kg)		10,000					
Final Reduction Gear	Type	Single Reduction , spiral bevel gear					
	Ratio	4.875			3.545, 3.909		
Front Axle							
Type		Reverse Elliot type " I " beam					
Capacity(kg)		6,000					
Tire & Wheel							
Type		Single Front, Dual Rear					
Tire	Front/Rear	10.00 x 20-14PR,16PR, 11.0R22.5-16PR / 10.00 x 20-14PR,16PR, 11R22.5-16PR					
Wheel size	Front/Rear	7.00T x 20-170(10.00 x 20)/8.25T22.5-165(11.0R22.5)					
Steering							
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column					
Steering Wheel Diameter (mm)		ø470(4.Spoke)					
Tilting Angle		57° ~ 66°16"					
Telescopic Stroke (mm)		50					
Turning Angle	Inner/Outer	45° / 37°					
Brake							
Service Brake	Type	Full air, dual circuit					
	Drum diameter	ø410					
	Lining size (mm)	Width x Lining thickness					
		Front	156 x 19				
	Rear	207.5 x 19					
Parking Brake	Type	Spring loaded type parking brake on the rear wheels					
	Size (mm)	207.5 x 19					
Exhaust Brake		Air operated, butterfly valve type					
Suspension							
Type		Semi-elliptic, laminated leaf spring					
Spring Size	Dimension	Span x width x thickness - EA					
	Front	1,450 x 90 x (13 t-2 & 14 t-4) / 1,450 x 90 x (12 t-7 & 13 t-1) Cold region					
	Rear	1,700 x 100 x (13 t-2 & 15 t-8)					
Stabilizer bar	Front	Torsion bar type					
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles					
Air filter							
Type		Cyclonic dry paper element					
Fuel tank							
Capacity		200 liter(200+100 liter : OPT)				813(932 / 1,051 : OPT)	
Material		Steel				Steel + FRP	
Frame							
Type		Semi-monocoque(Front, rear & extension frame)					
Main section side rail (mm)		FRT : 180 x 90 x 4.5 t (Rear:200 x 85 x 7t)					

4. Electrical system Specifications

Lamps

Head lamps	Semi-Sealed beam, two dual lamp(70w-2 white)
Front combination lamps	Turn signal/Hazard-amber, Position-white
Rear combination lamps	Turn signal/Hazard-amber, Tail/Stop-red
License plate lamp	White
Back-up lamp	White
Room lamp	Fluorescent lamp

Instruments

Meter	Speedometer with odometer or tachograph
Gauge	Fuel, water temperature, oil pressure, air pressure, voltage, tachometer
Warning lamp & indicators	Main beam, charging,exhaust brake, seat belt, turn signal, stop, door, Parking brake Oil pressure with buzzer,over heat with buzzer,Air pressure with buzzer,Water level with buzzer
Radio	AM/FM radio, cassette
Horn	Single, Electric type

A/con (Option)

Aircon	Type	On the roof
	Capacity(kcal/h)	25,000 (28,000 : Tropical zones only)

5. Body

Body type	Standard body
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Exterior

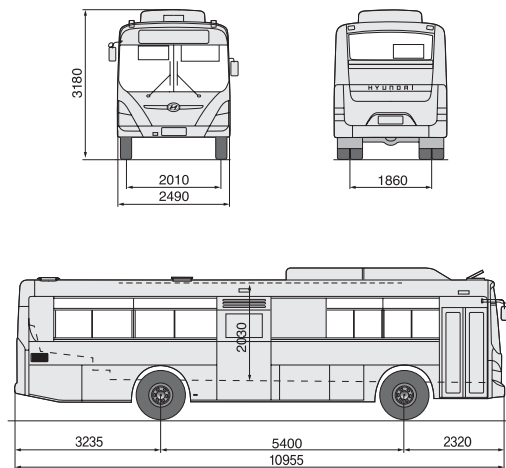
Body type		Semi-monocoque type
Windshield glass		Two pieces type with laminated safety glass
Windshield Wipers		Dual electric high & low speed, wiper with intermittent relay and washers electrically operated
Outside rear view mirror		2 pieces deluxe type on both sides
Side glass		bottom sliding type(Full fixed type)
Rear glass		One piece type with tempered glass
Bumper	Front/rear	Pressed steel painted bumper
Luggage box		1 door only
	Capacity(m³)	1.94
Door	Front Door	Two sections inward folding automatic type
	Mid Door	One section sliding Automatic type

Interior

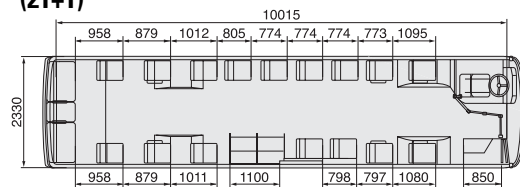
Driver's Seat		Adjustable up and down & fore and after reclining seat	
Passenger's seat		Steel tube framing fixed type with vinyl leather covering	
Side & roof material		Hardboard type	
Shelves	Type	Board type	
	Capacity (WxHxL)	395 x 257 x 6,890 x 2	395 x 257 x 3,340 (RH) / 6,890 (LH) - 2Door
Sunvisor		Roll curtain type, left hand side above windshield glass	
Floor covering		Linoleum mat, Luckstrong mat	
Front destination		Installed above front windshield glass	
Rear destination		Installed in rear body	
Handrail		Roof 2 row	

6. Dimensions & Seat Layout

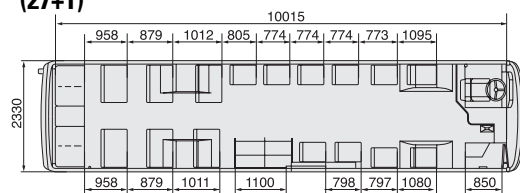
City



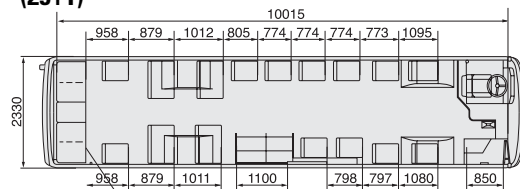
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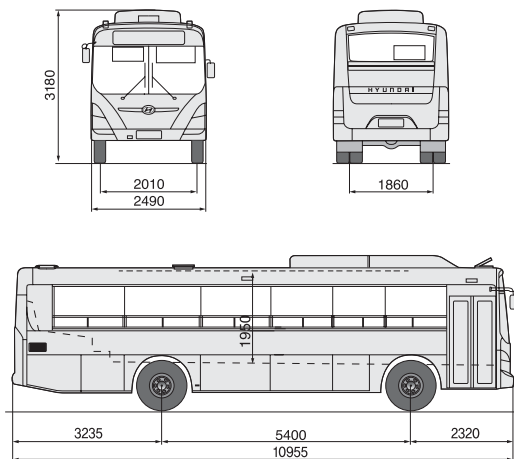
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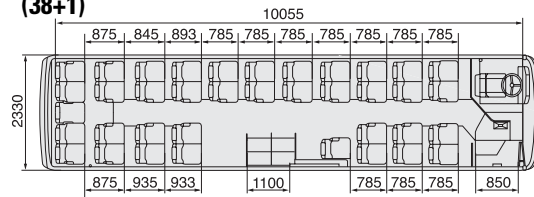
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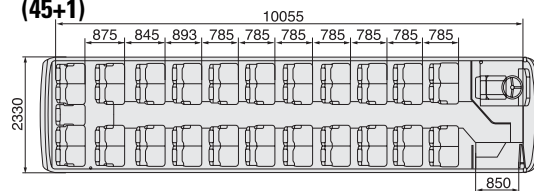
Inter City



(38+1)



(45+1)



1. Dimension, Weight Specifications

Drive type	LHD 4 x 2		
Model	Space	Space	Express
Suspension type	Leaf	Air	
Trim	Classic	Luxury	Noble
Seat capacity	41 +1 / 45+1	41+1 / 43+1 / 45+1 / 49+1	41+1 / 43+1 / 45+1 / 49+1

Dimensions (mm)

Overall Length		11,650	11,780	12,000
Overall Width		2,495	2,495	2,495
Overall Height		3,340	3,340	3,490
Wheel Base		6,020	5,850	6,120
Wheel tread	Front	2,052	2,057	2,057
	Rear	1,860	1,860	1,860
Overhang	Front	2,390	2,690	2,640
	Rear	3,240	3,240	3,240
Body Inside	Length	10,600	10,730	11,000
	Width	2,345	2,345	2,345
	Height	1,950	1,950	1,950
Min. Ground Clearance		200	200	200

Weight(Kg)

Empty Vehicle Weight		11,345	11,975	12,320
	Front	3,630	4,255	4,555
	Rear	7,715	7,720	7,765
Max. Gross Vehicle Weight**		16,000	17,000	17,800
	Front	6,000	7,000	7,000
	Rear	10,000	10,000	10,800

2. Performance Specifications

Calculated Performance

Engine		D6AV / D6AB-D	D6AB-D / D6CB38	D6AC/D6CB38,D6CB41
Max. Speed	km/h	116 / 126	126 / 142	126 / 131 / 142
Max. Gradeability	tan θ	0.25 / 0.34	0.34 / 0.34	0.34 / 0.42
Min. Turning Radius	m	10.1	10.1	10.1

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

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) Performance specification of D6ABDD engine based on the rear axle ratio 3.909 and Euro II exhaust emissions .
- 4) Performance specification of D6AV engine based on the general exhaust emissions .
- 5) This vehicle specifications may differ per country.
- 6) For further information please contact the commercial vehicle export teams of HMC .
- 7) In order that product improvement may be introduced at any time, specifications are subject to change without prior notice.

3. Chassis Specifications

Vehicle Model		Space Classic	Classic / Luxury	Express Noble	Classic/Luxury/Noble	Express Noble
Engine						
Model		D6AV	D6AB-D	D6AC	D6CB 38	D6CB 41
Type		Natural Aspiration	Turbo Charger Intercooler			
		4 cycle,water-cooled direct-injection diesel engine			Electronic Diesel	
Number of Cylinder		6, in-line				
Piston Displacement (cc)		11,149	11,149	11,149	12,300	
Bore x Stroke (mm)		130 x 140			130 x 155	
Compression Ratio		17 : 1		17.5 : 1	17 : 1	
Max. Power** (ps/rpm)	General	235 / 2,200	-	-	-	-
	Euro I	220 / 2,200	300 / 2,200	340/ 2,200	-	-
	Euro II	-	290 / 2,000	340/ 2,000	-	-
	Euro III	-	-	-	380 /1,900	410 /1,900
Max. Torque** (kg.m/rpm)	General	78 / 1,400	-	-	-	-
	Euro I	75 / 1,400	110 / 1,400	140 / 1,400	-	-
	Euro II	-	110 / 1,200	148 / 1,200	-	-
	Euro III	-	-	-	148 /1,200	173 /1.200
Cooling System	General	Pressure type with thermostat , Forced circulation by centrifugal water pump				
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank				
Electrical System	Battery	24V-150AH	24V-200AH			
	Alternator	24V-70A(OPT:24V-150A)			24V-180A	
	Starter	24V-5.5KW			24V-6.0KW	
Fuel System	Injection pump	DPICO in-line type	Bosch in-line type		Delphi EUI system	
	Governor	Min-Max Type	All Speed Type		Electronic Control	
	Fuel filter	Spin-on type				
Oil System	Lubrication	Forced lubrication by gear pump				
Clutch						
Type		Hydraulic control with air assisted, Single dry plate				
Facing material		Non-Asbestos				
Facing Size (mm) ; Outside dia. x Inside dia.		ø430 x ø250		ø430 x ø242		
Transmission						
Model		M8S5(O.D)	M10S5(D.D)	M12S5(D.D)		ZF6S-1900(O.D)
Type		5 forward and 1 reverse speed , 2nd to 5th synchromesh, 1st & reverse constant-mesh gears				6 forward & 1 reverse
Gear Ratio	1st	5.431	6.571	6.814		6.320
	2nd	3.463	4.436	4.155		3.620
	3rd	1.747	2.631	2.282		2.150
	4th	1.000	1.567	1.381		1.370
	5th	0.741	1.000	1.000		1.000
	6th	-	-	-		0.810
	Reverse	5.677	6.240	6.690		5.810
T.G.S.(Transmission Gear Shift)		Floor shift , Mechanical remote control				
Propeller shaft						
Model		S1610	S1710	DS4500		
Type		Tube		Tubeless		
Size (Diameter x Thickness)		ø88.9 x 6 t	ø101.6 x 5 t	ø109		
Rear Axle						
Model		D8S	D8S / D10H	D10H		D10H / R175HS
Type		Full floating type				
Capacity(kg)		10,000		10,800		
Final Reduction	Type	Single Reduction		Single Reduction , Hypoid gear		
Gear	Ratio	4.875	3.545 / 3.909 / 4.444	3.545	3.153	3.364 / 3.545 / 3.909

**Max. torque and power of engine specifications may vary according to each country.

3. Chassis Specifications

Vehicle Model			Space Classic		Space Luxury		Express Noble	
Front Axle								
Type			Reverse Elliot type " I " beam					
Capacity(kg)			6,000		7,000			
Tire & Wheel								
Type			Single Front , Dual Rear					
Tire	Front		10.00 x 20-16PR		11R22.5-16PR		295/80R-22.5	
	Rear		10.00 x 20-14PR		10.00 x 20-16PR		295/80R-22.5	
Steering								
Type			Ball-nut type with integral hydraulic power booster,Tilt & Telescopic					
Steering Wheel Diameter(mm)			ø470					
Tilting Angle			53° ~ 64°					
Telescopic Stroke(mm)			55					
Turning Angle	Inner		50°					
	Outer		38°					
Brake								
Service Brake	Type		Full Air, dual circuit, fixed 'S'cam with spring loaded chambers					
	Drum Diameter, mm		410					
	Lining size (width x thick)	Front, mm	200 x 20t					
		Rear, mm	200 x 20t					
Parking Brake	Type		Spring loaded type parking brake on the rear wheels					
	Size, mm		200 x 20t					
Exhaust Brake			Air actuated operated, butterfly valve type					
Suspension								
Type	Front / Rear		Semi-elliptic, laminated leaf springs		Rolling lobe type(Air)			
Dimension, mm			Span x width x thickness-EA		Diameter x Height - EA			
	Front		1,450 x 90 x 13t-6		285 x 296 - 2		285 x 296 - 2	
	Rear		1,700 x 100 x 13t-2, 15t-8		285 x 333.5 - 4		285 x 325 - 4	
Stabilizer Bar	Front		Torsion bar type					
Shock absorber			Hydraulic double acting telescopic type on axles					
Air filter								
Type			Dry paper element					
Fuel tank								
Capacity			300 liter		310 liter		420 liter	
Material			Steel					
Frame								
Type			Monocoque					
Main section size (H x W x T)	Front		180 x 90 x 3.2 t					
	Rear		200 x 80 x 4.5 t					

4. Electrical system Specifications

Lamps		
Head lamps	MFR Type (STD)	
Front combination lamps	Turn signal / Hazard / Amber / Position-white	
Front fog lamp	White	
Rear combination lamps	Turn signal / Hazard-amber, Tail / Stop-red	
License plate lamp	White	
Back-up lamp	White	
Room lamp	Fluorescent	
Instruments		
Meter	Speedometer with odometer	
Gauge	fuel, water temperature,voltage,oil pressure	
Warning lamp & indicators	Main beam, glow, turn signal with buzzer, exhaust brake,parking brake, charging oil pressure with buzzer,air pressure,tachograph, over heat with buzzer, brake air with buzzer,dust indicator,lamp failure, coolant level with buzzer,door, stop, seat belt, brake ABS,battery switch	
Clock	Analogue clock (STD)	
Radio	AM/FM radio, cassette	
Horn	Dual flat Electric type	
A/CON		
Aircon	Type	On the Roof type
	Capacity(kcal)	24,000 (Tropical zones : 28,000)

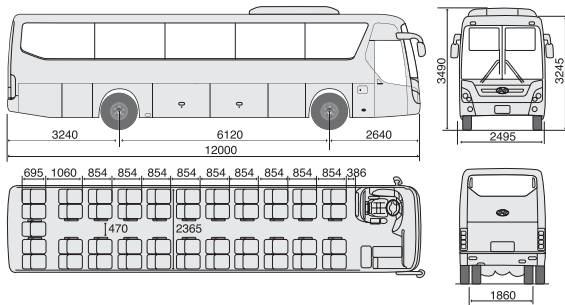
5. Body

Vehicle Model		Space Classic	Space Luxury	Express Noble
Exterior				
Body Type		Monocoque		
Windshield glass		Two pieces type with laminated safety glass		
Windshield Wipers		Electric high & low speed, wiper with intermittent relay and washers operated electrically		
Outside rear view mirror		deluxe type on both sides		
Side glass		Full fixed type with tempered glass		
Rear glass		One section type with tempered glass		
Bumper (front & rear)		SMC (Sheet moulding compound)		
Door	Front	Auto Folding, Auto Swing (OPT)		Auto swing
	Mid	-	Auto swing (OPT)	Auto swing(OPT)
Luggage box	Capacity (m³)	4.6 + 0,53	5.6 + 0,53	6.4 + 0,53
Interior				
Driver's Seat		Adjustable up and down & fore-and-after reclining seat formed polyurethane cushion, covered with Vinyl		
Passenger's Seat		Steel tube framing reclining type with vinyl leather covering		
Floor covering		Linoleum mat		
Sunvisor		Roll curtain type,left hand side above windshield glass		
Shelves		Standard board type		

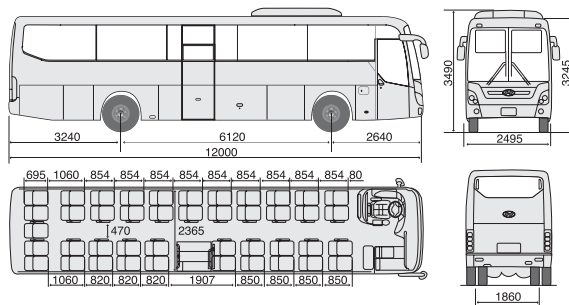
6. Dimensions

(UNIVERSE Express Noble)

(45+1 Seats)

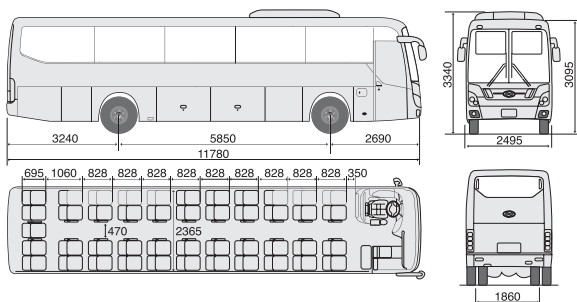


(45+1 Seats, 2Door)

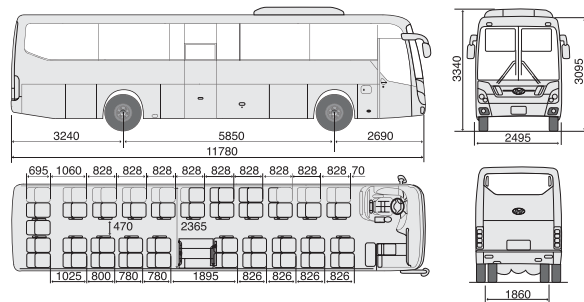


(UNIVERSE Space Luxury)

(45+1 Seats)

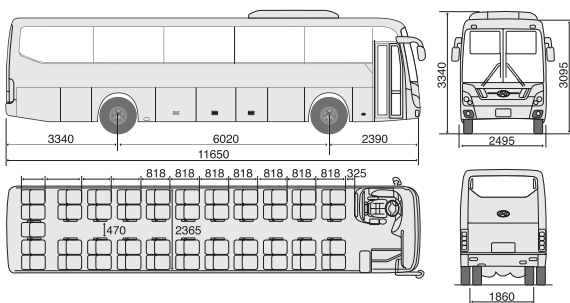


(43+1 Seats, 2Door)

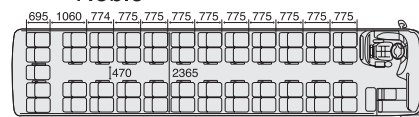


(UNIVERSE Space Classic)

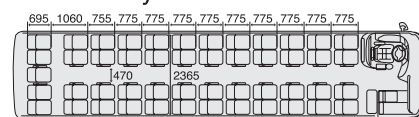
(45+1 Seats)



(49+1 Seats) Noble



Luxury



HYUNDAI BARE CHASSIS

 1. Dimension, Weights

ITEM \ MODEL		HD65
Wheel Base		Short
Drive System		4 x 2
Application Engines		D4DB-d
Dimensions (mm)		
Wheel Base		2,750
Overall	Length	4,985
	Width	1,929
	Height	1,611
Wheel tread	Front	1,665
	Rear	1,495
Overhang	Front	940
	Rear	1,295
Frame Width	Front	843
	Rear	753
Min. Ground Clearance		200
Ground to Frame Height		765
Weight (Kg)		
Empty Vehicle Weight		1,945
	Front	1,165
	Rear	780
** Max Gross Vehicle Weight		6,500
	Front	2,300
	Rear	4,200

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

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) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

2. Chassis

ITEM	MODEL	HD65
Engine		
Model		D4DB-d
Type		Turbo Charger Intercooler 4 stroke-cycle, water-cooled, direct-injection diesel engine
Number of Cylinder		4 in-line
Piston Displacement (cc)		3,907
Bore x Stroke (mm)		104 x 115
Compression Ratio		18 : 1
Max. Power (ps/rpm)	General	-
	Euro I	-
	Euro II	120/2900
	Euro III	-
Max. Torque (kg.m/rpm)	General	-
	Euro I	-
	Euro II	30/2000
	Euro III	-
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling , Forced circulation by centrifugal water pump
	Cooling fan	Polyamid & Suction type
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank
Electrical System	Battery	MF 90AH
	Alternator	24V-40A
	Starter	24V-5.0KW
Fuel System	Injection pump	Denso 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	Shell-and-plate type
	Oil grade	API classification service CF-4 or above
Air cleaner		Cyclonic dry paper element
Valve System		Single Overhead Valve , Two valves per cylinder
Clutch		
Type		Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper
Facing Material		Non-Asbestos
Facing Size (mm) ; Outside dia. x Inside dia.		ø275 x ø180

2. Chassis

ITEM		MODEL	HD65	
Engine				
Model		D4DB-d		
Transmission				
Model		M3S5 (Over Drive)	CA5-38HA (Over Drive)	
Type		5 forward and 1 reverse speed , 1st to 5th synchromesh, reverse constant-mesh gears	5 forward and 1 reverse speed , 2nd to 5th 2nd to 5th synchromesh, 1st & reverse constant-mesh gears	
Gear Ratio	1st	5.181	5.591	
	2nd	2.865	2.870	
	3rd	1.593	1.607	
	4th	1.000	1.000	
	5th	0.739	0.742	
	Reverse	5.181	5.045	
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)		
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control		
Propellershaft				
Model		P3		
Type		Tubular, Forged steel ends		
Size (diameter x Thickness)		ø 76.2 x 2.6 t		
Rear Axle				
Model		D3H		
Type		Full floating type		
Capacity	kg	4,200		
Final Reduction Gear	Type	Single Reduction , Hypoid gear		
	G/Ratio	6.166		
Gear Oil		API classification service GL-5 and SAE classification service 80W/90 (85W/140 ;Tropical zones only)		
Front Axle				
Type		Reverse Elliot type " I " beam		
Capacity	kg	2,600		
Tire & Wheel				
Type		Single Front , Dual Rear		
Tire	Front	7.00R x 16 - 10PR		
	Rear			
Wheel	Front	5.50 F x 16 SDC-115		
	Rear			

BARE CHASSIS

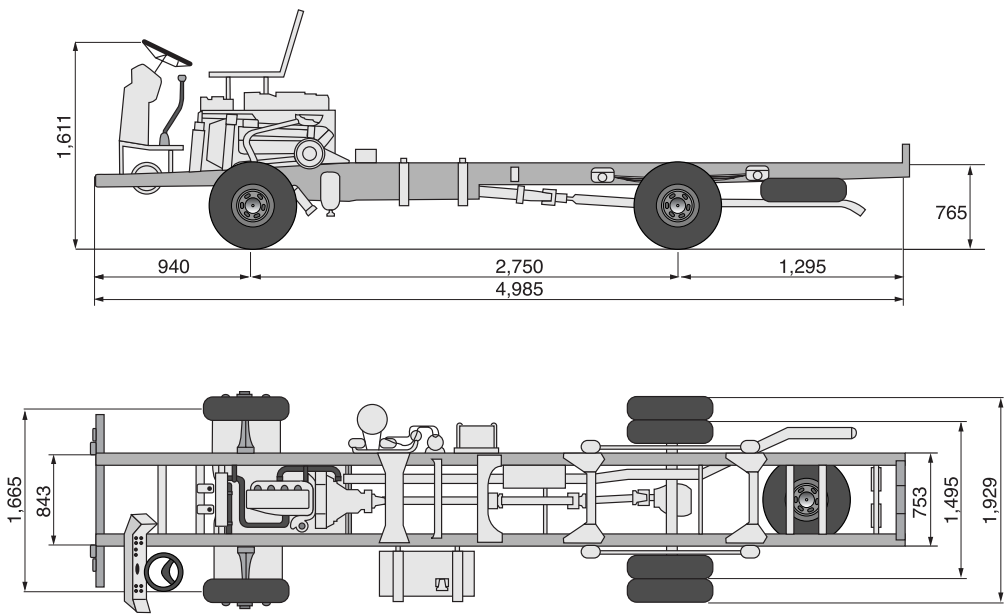
2. Chassis

ITEM		MODEL	HD65
Engine			D4DB-d
Steering			
Type			2-Spoke, Ball-nut type, Tilt & Telescopic steering column
Steering Wheel Diameter (mm)	Manual		-
	Power		410
Tilting Angle			55.5 °~ 62.2°
Telescopic Stroke mm			23.6
Overall Steering Gear Ratio	Manual		-
	Power		22.6
Turning Angle	Inner		44 °
	Outer		34 °
Brake			
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness :
		Rear	ø320 x 85 x 10 (Narrow or D4AF Engine : ø320 x 75 x 10)
	Vacuum reservoir		7 ℓ
	Total lining area		1,926.8 cm ²
	Adjuster		Auto adjuster (OPT)
Parking Brake	Actuation		Internal expanding type on propellarshaft at the rear of transmission assy
	Size (mm)		Drum diameter x Lining width x Lining thickness
			ø190 x 45 x 4
Total lining area		187 cm ²	
Exhaust Brake			Vacuum operated, butterfly valve type
Suspension			
Type		Front / Rear	Semi-elliptic , laminated leaf springs with shock absorber
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,200 x 70 x 10 t - 5, 11 t -1
	Rear	Main	1,250 x 70 x 10 t - 6
		Helper	990 x 70 x 13 t - 3
Shock absorber			Hydraulic double acting telescopic type on the front & rear axles
Cooling system			
Radiator			Tube-and-Corrugated fin type
	Rows of tubes		1 Row
	Core size (mm)		Width x Height x Thickness : 534 x 570 x 25.9
Cooling Fan			Fixed or Auto clutched type
Air intake system			
General			Without Snorkel Duct
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			100 liter
Material			Steel
Frame			
Type			"H" type frame with channel sectional side rail & cross members , side rail is reinforced with outer stiffeners
Main section side rail dimension (mm)			Depth x Flange x Thickness : 193 x 60 x 6 t

3. Electrical system		
ITEM	MODEL	HD65
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
Meter		Speedometer with odometer & trip counter / Combined meter included fuel & water temperature gauges
Warning lamps & indicators		Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge Tell-tale lights for head light high beam / Turn signals / Door open / Exhaust Brake Seat belt
Horn		Single , electric type

4. Dimensions

Short Wheelbase HD65 (D4DB-d)



1. Dimension, Weights

ITEM		MODEL	HD72	
Wheel Base			Long	
Drive System			4 x 2	
Application Engines			D4DC	D4DB
Dimensions (mm)				
Wheel Base			3,735	
Overall	Length		6,340	
	Width		1,929	
	Height		1,611	
Wheel Tread	Front		1,650	
	Rear		1,495	
Overhang	Front		940	
	Rear		1,665	
Frame Width	Front		843	
	Rear		753	
Min. Ground Clearance			235	
Ground to Frame Height			790	
Weight (kg)				
Empty Vehicle Weight			1,980	2,125
			1,120	1,250
			860	875
** Max Gross Vehicle Weight			7,200	
			2,600	
			4,600	

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

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) Hyundai motor company reserves the right to alter the specifications, equipment or options or discontinue the models at any time without prior notice.

2. Chassis

ITEM		MODEL	HD72	
Engine				
Model		D4DC		D4DB
Type		Natural Aspiration		Turbo Charger Intercooler
		4 stroke-cycle, water-cooled, direct-injection diesel engine		
Number of Cylinder		4 in-line		
Piston Displacement (cc)		3,907		
Bore x Stroke (mm)		104 x 115		
Compression Ratio		18.1 :1		18 :1
Max. Power (ps/rpm)	General	-		-
	Euro I	120/3200		-
	Euro II	-		130 / 2,900
Max. Torque (kg.m/rpm)	General	-		-
	Euro I	30/2000		-
	Euro II	-		38 / 1,800
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling , Forced circulation by centrifugal water pump		
	Cooling fan	Polyamid & Suction type		
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank		
Electrical System	Battery	MF 90AH		
	Alternator	24V-40A		
	Starter	24V-5.0 KW		
Fuel System	Injection pump	DooWon 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	Shell-and-plate type		
	Oil grade	API classification service CF-4 or above		
Air cleaner		Cyclonic dry paper element		
Valve System		Single Overhead Valve , Two valves per cylinder		
Clutch				
Type		Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper		
Facing Material		Non-Asbestos		
Facing Size (mm) ; Outside dia. x Inside dia.		ø275 x ø180		ø300 x ø190

2. Chassis

ITEM		MODEL	HD72	
Engine				
Model		D4DC		D4DB
Transmission				
Model		M3S5 / CA5-38HA (Over Drive)		M035S5 / CA5-38HC (Over Drive)
Type		5 forward and 1 reverse speed , 1st to 5th synchromesh, reverse constant-mesh gears (M3S5 & M035S5) 2nd to 5th synchromesh,1st & reverse constant-mesh gears (CA5-38HA & CA5-38HC)		
Gear Ratio	1st	5.181 / 5.591		5.380 / 5.591
	2nd	2.865 / 2.870		3.208 / 2.870
	3rd	1.593 / 1.607		1.700 / 1.607
	4th	1.000 / 1.000		1.000 / 1.000
	5th	0.739 / 0.742		0.722 / 0.742
	Reverse	5.181 / 5.045		5.380 / 5.045
Gear Oil		API classification service GL-3 or SAE classification service 80W (90 ;Tropical zones only)		
T.G.S. (Transmission Gear Shift)		Floor shift , Mechanical remote control		
Propellershaft				
Model		P3		
Type		Tubular, Forged steel ends with center bearing		
Size (diameter x Thickness)		ø 76.2 x 2.6 t		
Rear Axle				
Model		D3H		D033H
Type		Full floating type		
Capacity	kg	4,600		
Final Reduction Gear	Type	Single Reduction , Hypoid gear		
	G/Ratio	5.714 / 6.666		5.428
Gear Oil		API classification service GL-5 and SAE classification service 80W/90 (85W/140 ;Tropical zones only)		
Front Axle				
Type		Reverse Elliot type " I " beam		
Capacity	kg	2,600		
Tire & Wheel				
Type		Single Front , Dual Rear		
Tire	Front	7.50 x 16 - 12 PR		
	Rear			
Wheel	Front	6.00 GS x 16 SDC -127		
	Rear			

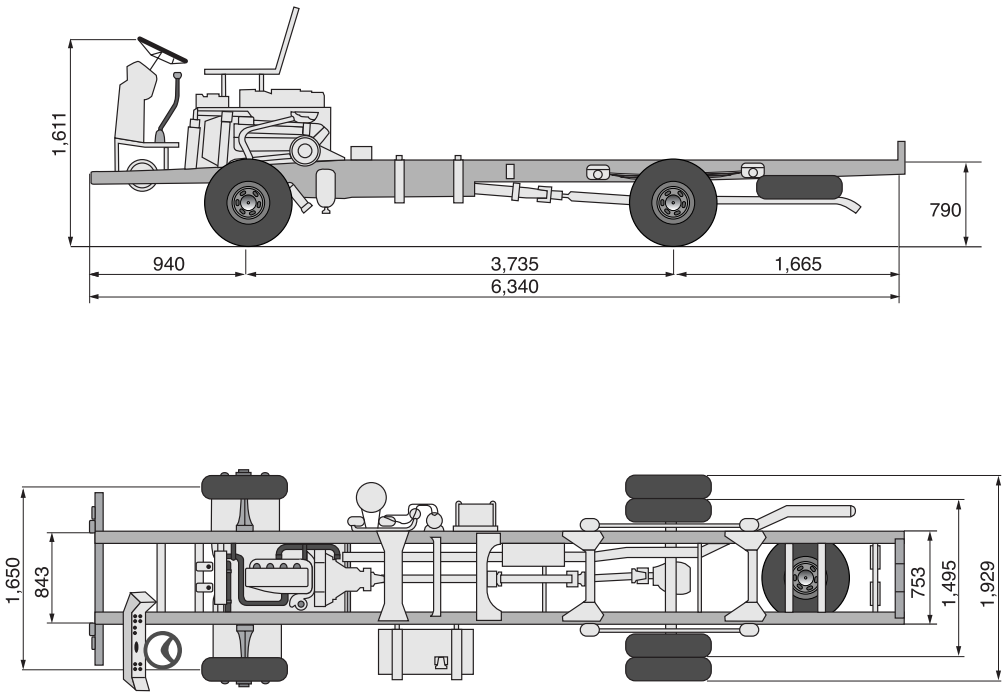
2. Chassis

ITEM		MODEL	HD72	
Steering				
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column		
Steering Wheel Diameter (mm)	Manual		-	
	Power		410	
Tilting Angle		55.5 °~ 62.2 °		
Telescopic Stroke mm		23.6		
Overall Steering Gear Ratio	Manual		-	
	Power		22.6	
Turning Angle	Inner		43 °	
	Outer		32 °	
Brake				
Service Brake	Actuation		Hydraulic with vacuum servo assistance, dual circuit	
	Size (mm)	Front	Drum diameter x Lining width x Lining thickness : ø320 x 85 x 10	
		Rear		
	Vacuum reservoir		7 ℓ	
Adjuster		Auto adjuster		
Parking Brake	Actuation		Internal expanding type on propellarshaft at the rear of transmission assy	
	Size (mm)		Drum diameter x Lining width x Lining thickness : ø180 x 35 x 5 (D4DC Engine) ø190 x 45 x 4 (D4DA & D4DB Engine)	
Exhaust Brake		Vacuum operated, butterfly valve type		
Suspension				
Type	Front / Rear		Semi-elliptic , laminated leaf springs with shock absorber	
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,200 x 70 x 11t-2,10t-4(LH) & 1,200 x 70 x 1t-3,10t-3(RH)	
	Rear	Main	1,250 x 70 x 10t-1,11t-5	
		Helper	990 x 70 x 11t-2,12t-2	
Shock absorber		Hydraulic double acting telescopic type the on front & rear axles		
Cooling system				
Radiator			Tube-and-Corrugated fin type	
	Rows of tubes		2	
	Core size (mm)		Width x Height x Thickness ; 534 x 570 x 42	
Cooling Fan		Fixed or Auto clutched type		
Air intake system				
General		Without snorkel duct		
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		100 liter		
Material		Steel		
Frame				
Type		"H" type frame with channel sectional side rail & cross members ,		
		side rail is reinforced with outer stiffeners		
Main section side rail dimension (mm)		Depth x Flange x Thickness : 193 x 60 x 6 t		

3. Electrical system		
ITEM	MODEL	HD72
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
Meter		Speedometer with odometer & trip counter /
		Combined meter included fuel & water temperature gauges
Warning lamps & indicators		Brake fluid level of reservoir / Parking brake / Oil pressure / Battery charge
		Tell-tale lights for head light high beam / Turn signals / Door open / Exhaust Brake
		Seat belt
Horn		Single , electric type

4. Dimennsions

Long Wheelbase HD72 (D4DB)



1. Dimension, Weight Specifications

Vehicle	COUNTY	
Drive type	LHD, 4 x 2	
Body type	STANDARD	LONG
Suspension type	Leaf	

Dimensions (mm)

Overall Length	6,293	7,028
Overall Width	1,873	
Overall Height	1,724	
Wheel Base	3,350	4,085
Wheel tread	Front	1,705
	Rear	1,495
Overhang	Front	1,173(1,122 : frame)
	Rear	1,770(1,658 : frame)
Min. Ground Clearance	195	

Weight(Kg)

Engine	D4AL / D4DC, D4DB / D4DD	D4AL / D4DB, D4DB-d, D4DC / D4DD
Empty Vehicle Weight	1,905 / 1,955 / 1,990	1,975 / 2,025 / 2,060
	Front 1,080 / 1,125 / 1,150	1,135 / 1,180 / 1,205
	Rear 825 / 830 / 855	840 / 845 / 855
Gross Vehicle Weight**	6,360	6,670
	Front 2,260	2,570
	Rear 4,100	

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

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.

2. Chassis Specifications

Body type		STANDARD/LONG				LONG	
Engine & Power train							
Model		D4DC	D4DB-d	D4DB	D4DD	D4AL	D4DB(E1)
Type		Natural Aspiration	Turbo Charger Intercooler				
		4 stroke-cycle, water-cooled, direct-injection diesel engine					
Number of Cylinder		4 in-line					
Piston Displacement (cc)		3,907	3,298	3,907		3,298	3,907
Bore x Stroke (mm)		104 x 115	100 x 105	104 x 115		100 x 105	104 x 115
Compression Ratio		18.1 : 1	17.5 : 1	18 : 1	17.5 : 1	16.5 : 1	18.5 : 1
Max. Power** (ps/rpm)	General	-	-	-	-	-	-
	Euro I	120 / 3,200	-	-	-	115 / 3,400	155(Gen),130(Gen,Cold)/2,900
	Euro II	-	120 / 2,900	130 / 2,900	-	-	-
	Euro III	-	-	-	140 / 2,800	-	-
Max.Torque** (kg.m/rpm)	General	-	-	-	-	-	-
	Euro I	30 / 2,000	-	-	-	29 / 2,000	38 / 1,800
	Euro II	-	30 / 2,000	38 / 1,600	-	-	-
	Euro III	-	-	-	38 / 1,600	-	-
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling, Forced circulation by centrifugal water pump					
	Cooling fan	Polyamid & Suction type					
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank					
Electrical System	Battery	24V-70AH (24V-100AH: Cold Region only, 90 AH : OPT)					
	Alternator	24V-40A (70A : OPT)					
	Starter	24V-5.0kW					
Fuel System	Injection pump	DooWon in-line type			Denso Common rail system	DooWon in-line typ	
	Governor	All speed type			-	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	Shell-and-plate type	Shell-and-tube-type	Shell-and-plate type		Shell-and-tube-type	Shell-and-plate type
	Oil grade	API classification service CF-4 or above					
Clutch							
Type		Vacuum assisted Hydraulic control, Single dry plate, Pre-Damper					
Facing material		Non-Asbestos					
Facing Size (mm); Outside dia. x Inside dia.		ø275 x ø180		ø300 x ø190		ø275 x ø180	ø300 x ø190
Transmission							
Model		M3S5 (O.D)		M035S5 (O.D)		M3S5 (O.D)	M035S5 (O.D)
Type		5 Forward and 1 reverse speed, over drive					
Gear Ratio	1st	5.181		5.380		5.181	5.380
	2nd	2.865		3.028		2.865	3.028
	3rd	1.593		1.700		1.593	1.700
	4th	1.000		1.000		1.000	1.000
	5th	0 .739		0.722		0.739	0.722
	Reverse	5.181		5.380		5.181	5.380
T.G.S.(Transmission Gear Shift)		Floor shift , Mechanical remote control					

**Max torque and power of engine specifications may vary according to each country.

2. Chassis Specifications

Body type		STANDARD/LONG			LONG	
Propellershaft						
Model		P3				
Type		Tubular, Forged steel ends with universal joint needle roller bearing				
Size (Length x Diameter)		ø76.2 x 2.6 t				
Rear Axle						
Model		D2H II	D2H II / D2H	D3H	D2H II / D2H	D3H
Type		Full floating type				
Capacity (kg)		4,100				
Fina IReduction Gear		Type	Single Reduction , Hypoid gear			
		Ratio	6.142	6.142/6.333	5.375	6.142/6.333 5.375
Front Axle						
Type		Reverse Elliot type " I " beam				
Capacity (kg)		2,600				
Tire & Wheel						
Type		Single Front, Dual Rear				
Tire	Front/Rear	7.00x16-10PR(Standard Body), 7.00x16-12PR(Long Body)				
Wheel size	Front/Rear	5.50F x 16 - 115 - 8T				
Steering						
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column				
Steering Wheel Diameter		410				
Tilting Angle		55.5° ~62.2°				
Telescopic Stroke (mm)		28.6				
Turing Angle		Inner	42.8°			
		Outer	32.8°			
Brake						
Service Brake	type	Hydraulic with vacuum servo assistance, dual circuit				
	Drum diameter	ø320				
	Lining size (mm)	Width x Lining thickness				
		Front	85 x 10			
		Rear	85 x 10			
Parking Brake	type	Integral expanding type on propeller shaft at the rear of transmission				
	Size	M3S5 : ø180 x 35 x 5 , M035S5 : ø190 x 45 x 4				
Exhaust Brake		Vacuum operated, butterfly valve type				
Suspension						
Type	Front / Rear	Semi-elliptic, laminated leaf springs with shock absorber				
Spring Size	Dimension(mm)	Span x Width x Thickness - EA				
	Front	1,200 x 70 x 11 t - 2, 12t - 3				
	Rear	1,360 x 70 x 11t - 5, 12t - 2				
Stabilizer bar	Front/Rear	Torsion bar type				
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles				
Air filter						
Type		Cyclonic dry paper element				
Fuel tank						
Capacity		95 liter				
Material		Steel				
Frame						
Type		Channel sectional with reinforce & cross members. Side rail is reinforced with outer stiffeners.				
Main section side rail(mm)		170 x 55 x 6 t				

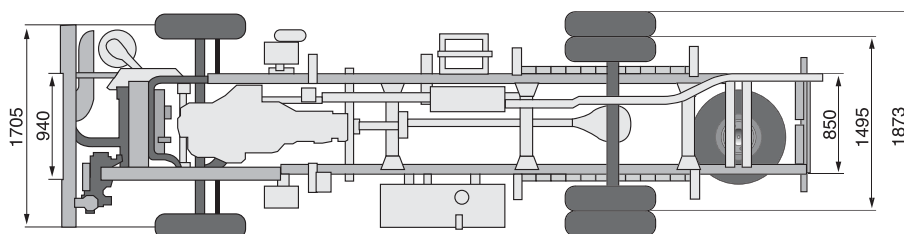
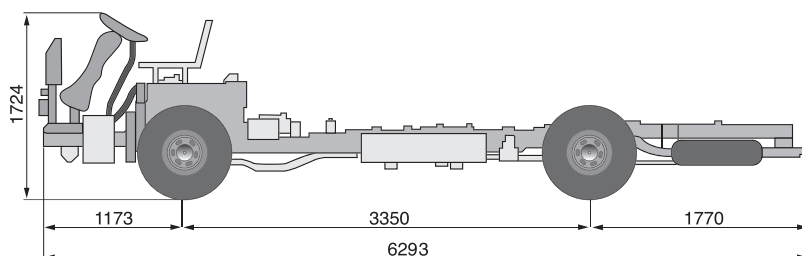
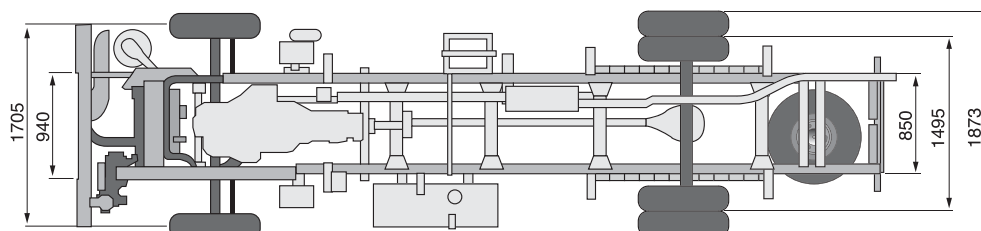
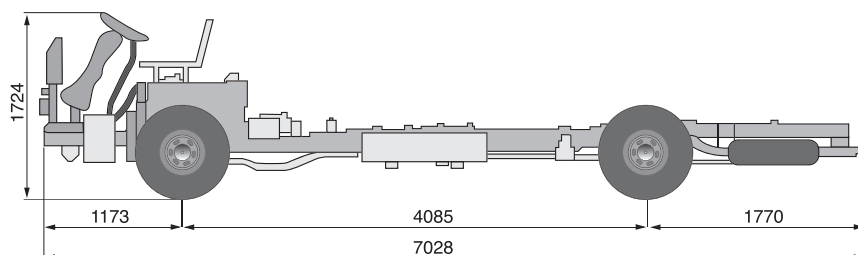
3. Instrument grouped on dash panel

Instruments	
Meter cluster	- Speedometer - Odometer - Trip meter - Fuel gauge - Coolant temperature gauge - Engine Tachometer
Warning lamp & indicators	- Oil pressure warning lamp - Vacuum warning lamp - Battery charging warning lamp - Beam indicator lamp - Directional indicator & hazard pilot lamp - Parking brake warning lamp - Exhaust brake indicator - Over heat warning lamp - Brake oil level warning lamp - Low fuel warning lamp - Glow indicator
Switches	- Lighting directional indicator & dimmer switch - Starter switch - Cold start switch - Wiper & washer switch - Hazard lamp switch - Exhaust brake switch
Others	- Throttle control knob - Horn button

4. Electrical system Specification

Electrical Equipment	
Type	24 volt negative earth
Batteries	Number per vehicle: two series-connection earth 24V
Alternator	Type: with built-in rectifier and separate voltage regulator
Headlamps	High/low beam 75/70W x 2
Directional indicator & Hazard lamps	Front: 21W x 2 Rear: 21W x 2
Licence plate lamp	12W x 2
Stop/tail lamps	21/5W x 2
Back-up lamp	21W x 2

5. Dimensions

Standard**Long**

➡ 1. Dimension, Weight Specifications

Vehicle		Aero Town	
Drive type		4 x 2	
Body type		LONG	
Suspension type		LEAF	AIR
Dimensions (mm)			
Overall Length		9,005	
Overall Width		2,250	
Overall Height		1,763	
Wheel Base		4,390	
Wheel tread	Front	1,910	
	Rear	1,740	
Overhang	Front	1,880	
	Rear	2,735	
Min. Ground Clearance		195	
Weight(Kg)			
Empty Vehicle Weight		3,800	3,825
	Front	870	850
	Rear	2,930	2,975
Gross Vehicle Weight**		10,140	
	Front	3,300	
	Rear	6,840	

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

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.
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2. Chassis Specifications

Body type		Long	
Engine			
Model		D6BR	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		18.0 : 1	17.6 : 1
Max. Power** (ps/rpm)	General	181 / 2,900	-
	Euro I	167 / 2,900	-
	Euro II	-	220 / 2,500
Max. Torque** (kg.m/rpm)	General	49 / 1,400	-
	Euro I	45 / 1,400	-
	Euro II	-	65 / 1,700
Cooling System	General	Wax-pellet & bottom bypass type with thermostat , Water-cooling, Forced circulation by centrifugal water pump	
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank	
Electrical System	Battery	24V-120AH at 20hr rate(24V-150AH: Cold Region only)	
	Alternator	24V-70A (120A : OPT)	
	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	
Clutch			
Type		Hydraulic control , Single dry plate, Pre-Damper	
Facing material		Non-Asbestos	
Facing Size (mm); Outside dia. x Inside dia.		ø354 x ø225	ø380 x ø240
Transmission			
Model		K505A(D.D)	KH-10
Type		5 forward and 1 reverse speed , 2nd to 5th synchromesh, 1st & reverse constant-mesh gears	
Gear Ratio	1st	7.216	6.967
	2nd	4.629	4.247
	3rd	2.582	2.454
	4th	1.479	1.471
	5th	1.000	1.000
	Reverse	7.216	6.492
T.G.S.(Transmission Gear Shift)		Floor shift, Mechanical remote control	
Propellershaft			
Model		S1550	P10
Type		Forged steel ends with universal joint needle roller bearing	
		Tubular	Tubeless
Size (Diameter x Thickness)		ø88.9 x 4 t	ø82

** Max torque and power of engine specifications may vary according to each country.

2. Chassis Specifications

Engine		D6BR		D6DA22	
Rear Axle					
Model		D4H		D4H- II	
Type		Full floating type			
Capacity (kg)		8,800			
Final Reduction Gear	Type	Single Reduction , Hypoid gear			
	Ratio	3.909/4.444		3.636/3.909	
Front Axle					
Type		Reverse Elliot type " I " beam			
Capacity (kg)		3,300			
Tire & Wheel					
Type		Single Front, Dual Rear			
Tire	Front/Rear	7.50 x 18-16PR			
Wheel size	Front/Rear	6.00S x 18 - 135			
Steering					
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column			
Steering Wheel Diameter		ø500			
Tilting Angle		57°~ 66° 16"			
Telescopic Stroke (mm)		50			
Turning Angle	Inner	47° ±1			
	Outer	33.9° ±1			
Brake					
Service Brake	Type	Air over Hydraulic, dual circuit			
	Drum diameter	ø370			
	Lining size	Lining width x Thickness			
	(mm)	Front	110 x 13t / 160 x 16t		
		Rear	150 x 13t / 160 x 16t		
Parking Brake	Type	Integral expanding type on propeller shaft at the rear of transmission			
	Size (mm)	ø203.2 x 50 x 4.5t			
Exhaust Brake		Air operated, butterfly valve type			
Suspension					
Type		Rolling robe type, air spring with leaf spring/long taper springs			
Spring Size	Dimension (mm)		Air: (Dia. x Height - EA)+(Span x Width x Thickness - EA) Leaf: Span x Width x Thickness - EA		
	Air	Front	(200 x 224 - 2 (Air)) + (1,420 x 70 x 11t-1,18t-1(Leaf))		
		Rear	(200 x 228 - 4 (Air)) + (1,450 x 80 x 9t-1,18t-1(Leaf))		
	Leaf	Front	1,400 x 70 x 21t-3		
		Rear	1,450 x 80 x 19t-4		
Stabilizer bar	Front / Rear		Torsion bar type		
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles			
Air filter					
Type		Cyclonic dry paper element			
Fuel tank					
Capacity		200 liter			
Material		Steel			
Frame					
Type		Semi-monocoque (FRT & RR Extension Frame)			
Main section side rail (mm)		FRT :163 x 60 × 6t / RR :160 x 60 x 7t			

3. Instrument grouped on dash panel

Instruments

Meter & gauges	- Speedometer with odometer - Voltage - Coolant temperature gauge - Air pressure gauge	- Fuel gauge - Oil pressure gauge - Engine tachometer
Warning lamp & indicators	- Oil pressure warning lamp & buzzer - Coolant level pilot lamp & buzzer - Air pressure warning lamp & buzzer - Battery charging warning lamp - Beam indicator lamp - Directional indicator & hazard pilot lamp	- Parking brake warning lamp - Exhaust brake indicator - Overheat warning lamp & buzzer - Seat belt warning lamp - Brake oil warning lamp - Low fuel warning lamp
Switches	- Battery relay switch - Lighting directional indicator & dimmer switch - Starter switch - Wiper & washer switch - Hazard lamp switch - Warning lamp check switch - Exhaust brake switch - Parking lamp - Ventilator switch - Room lamp switch - Driver speaker switch - ENG room lamp switch - ABS diagnosis switch - Door operating switch - Door fringe switch	- Door open switch - Clutch switch - TV switch - Reading lamp switch - Cold start switch - Start safety switch - Sub starter switch - Mood lamp switch - Heat mirror switch - Stop lamp switch - Low air pressure switch - Air parking brake switch - Neutral switch - Back up lamp switch
Others	- Throttle control knob - Horn button	

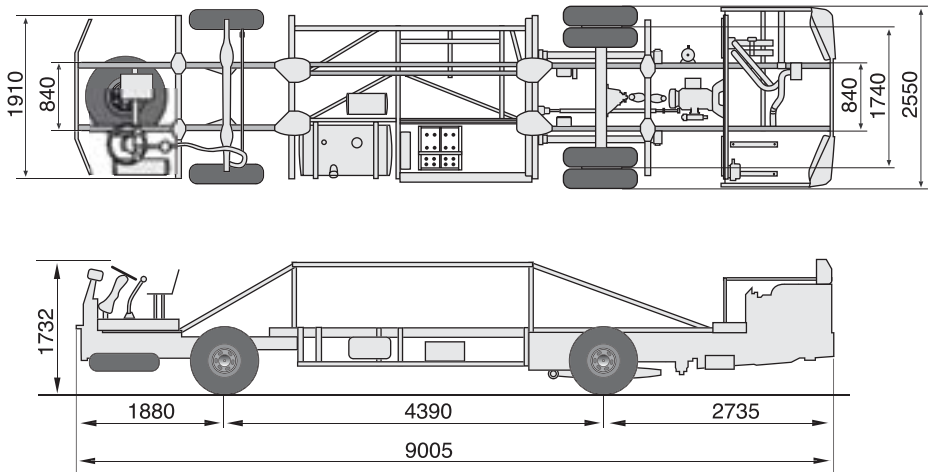
4. Electrical system Specifications

Electrical Equipment

Type	24 volt negative earth	
Batteries	Number per vehicle: two series-connection earth 12V	
Alternator	Type: with built-in rectifier and separate voltage regulator	
Front parking lamps	5W x 2	
Headlamps	High/low beam 75/70W x 2	
Rear parking lamp	5W x 2	
Directional indicator & Hazard lamps	Front: 21W x 2	Rear: 21W x 2
Licence plate lamp	5W x 2	
Stop/tail lamps	21/5W x 2	
Back-up lamp	21W x 1	

5. Dimensions

Long



1. Dimension, Weight Specifications

Drive type	LHD, 4 x 2
Wheel base	5,400
Suspension type	LEAF

Dimensions (mm)

Overall Length		10,760
Overall Width		2,465
Overall Height		2,063
Wheel Base		5,400
Wheel tread	Front	2,010
	Rear	1,860
Overhang	Front	3,138 (2,120 ; frame)
	Rear	3,222 (3,162 ; frame)
Min. Ground Clearance		255

Weight(kg)

Engine	D6AV	D6AB-D	C6AC(CNG)
Empty Vehicle Weight	5,830	6,005	7,040
	Front	1,370	1,820
	Rear	4,460	5,220
Gross Vehicle Weight**	15,080	16,000	16,000
	Front	5,480	6,000
	Rear	9,600	10,000

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

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.
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HYUNDAI BARE CHASSIS | SUPER AERO CITY

2. Chassis Specifications

Engine				
Model		D6AV	D6AB-D	C6AC(CNG)
Type		Natural Aspiration	Turbo Charger,Intercooled	
		4 stroke-cycle, water-cooled, direct-injection diesel engine		4 stroke-cycle, water-cooled, CNG engine
Number of Cylinder		6 in-line		
Piston Displacement (cc)		11,149		
Bore x Stroke (mm)		130 x 140		
Compression Ratio		17 : 1(General), 17.5 : 1(Euro I)	17.5 : 1	11.5:1
Max. Power ** (ps/rpm)	General	235 / 2,200	-	-
	Euro I	220 / 2,200	300 / 2,200	-
	Euro II	-	280 / 2,000	290 / 2,000
Max. Torque ** (kg.m/rpm)	General	78 / 1,400	-	-
	Euro I	75 / 1,400	110 / 1,400	-
	Euro II	-	110 / 1,200	110 / 1,400
Cooling system	General	Pressure type with thermostat, Forced circulation by centrifugal water pump		
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank		
Electrical system	Battery	24V-150AH (MF Battery 200 AH : OPT)		24V-200AH(MF Battery : OPT)
	Alternator	24V-70A(OPT:24V-150A)		24V-180A(Brushless)
	Starter	24V-5.5KW		
Fuel System	Injection pump	DPICO in-line type	DPICO in-line type(Euro I) Bosch in-line type(Euro II)	Woodward CNG System SPI + Mixer
	Governor	Min-Max type(RFD)	Min-Max (RFD) (Euro I) All Speed type(RLD-J)(Euro II)	-
	Fuel filter	Spin-on type		
Oil System	Lubrication	Forced lubrication by gear pump		
Clutch				
Type		Hydraulic control with air assisted , Single dry plate		
Facing material		Non-Asbestos		
Facing Size (mm); Outside dia. x Inside dia.		ø430 x ø250		
Transmission				
Model		M8S5(D.D)	M10S5(D.D)	
Type		5 forward and 1 reverse speed, 2nd to 5th synchro-mesh 1st & reverse constant-mesh gears		
Gear Ratio	1st	6.552	6.571	
	2nd	4.178	4.436	
	3rd	2.415	2.631	
	4th	1.498	1.567	
	5th	1.000	1.000	
	Reverse	6.849	6.240	
T.G.S.(Transmission Gear Shift)		Floor shift , Mechanical remote control		
Propellershaft				
Model		S1710		
Type	Tubular		Tubeless	
	Forged steel ends with universal joint needle roller bearing			
Size (Diameter x Thickness)		ø101.6 x 5 t		ø81

** Max torque and power of engine specifications may vary according to each country.

HYUNDAI BARE CHASSIS | SUPER AERO CITY

2. Chassis Specifications

Engine model		D6AV	D6AB-D	C6AC(CNG)
Rear Axle				
Model		D8S		
Type		Full floating type		
Capacity(kg)		11,000		
Final Reduction Gear	Type	Single Reduction , spiral bevel gear		
	Ratio	4.875	3.909	
Front Axle				
Type		Reverse Elliot type " I " beam		
Capacity(kg)		6,000		
Tire & Wheel				
Type		Single Front , Dual Rear		
Tire	Front/Rear	10.00 x 20-14PR	11.0R22.5-16PR	
Wheel size	Front/Rear	7.00T x 20-170	8.25T22.5-165	
Steering				
Type		2-Spoke, Ball-nut type, Tilt & Telescopic steering column		
Steering Wheel Diameter		ø500		
Tilting Angle		57° ~ 66° 16"		
Telescopic Stroke(mm)		50		
Turning Angle	Inner	45°		
	Outer	37°		
Brake				
Service Brake	Type	Full air, dual circuit		
	Drum diameter	ø410		
	Lining size	Width x Lining thickness		
	(mm)	Front	156 x 19	
		Rear	207.5 x 19	
Parking Brake	Type	Spring loaded type parking brake on the rear wheels		
	Lining size	207.5 x 19		
Exhaust Brake		Air operated, butterfly valve type		
Suspension				
Type		Semi-elliptic, laminf spring		
Spring Size	Dimension	Leaf: Span x width x thickness - Numbers		
	Front	1,450 x 90 x (13 t-2 & 14 t-4) / 1,450 x 90 x (12 t-7 & 13 t-1)-Cold region		
	Rear	1,700 x 100 x (13 t-2 & 15 t-8)		
Stabilizer bar	Front	Torsion bar type		
Shock absorber		Hydraulic double acting telescopic type on the front & rear axles		
Air filter				
Type		Cyclonic dry paper element		
Fuel tank				
Capacity		200 liter	813 Liter(932/1,051 : OPT)	
Material		Steel	Steel + FRP	
Frame				
Type		Semi-monocoque(Front, Rear & Extension frame)		
Main section side rail (mm)		FRT : 180 x 90 x 4.5 t (Rear : 200 x 85 x 7t)		

3. Instrument grouped on dash panel

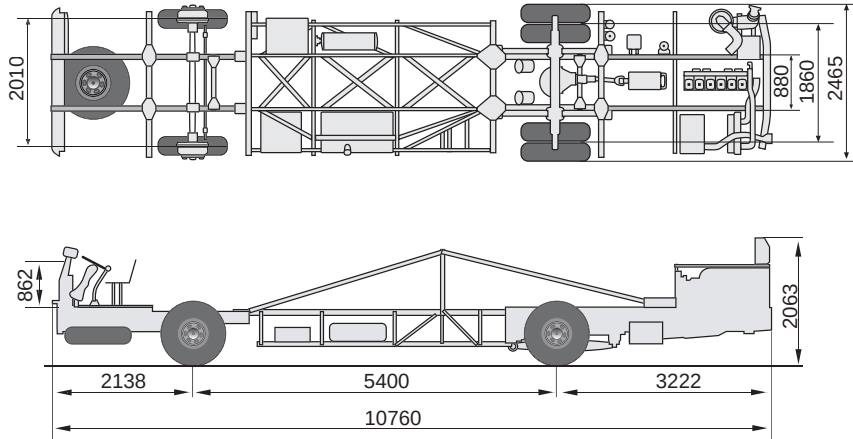
Instruments	
Meter & gauges	- Speedometer - Voltage meter - Coolant temperature gauge - Air pressure gauge - Odometer - Fuel gauge - Oil pressure gauge - Engine tachometer
Warning lamp & indicators	- Oil pressure warning lamp & buzzer - Coolant level pilot lamp & buzzer - Air pressure warning lamp & buzzer - Battery charging warning lamp - Beam indicator lamp - Directional indicator & hazard pilot lamp - Parking brake warning lamp - Exhaust brake indicator - Overheat warning lamp & buzzer
Switches	- Battery relay switch - Lighting directional indicator & dimmer switch - Starter switch - Wiper & washer switch - Hazard lamp switch - Warning lamp check switch - Exhaust brake switch - Parking lamp switch
Others	- Throttle control knob - Horn button

4. Electrical system Specifications

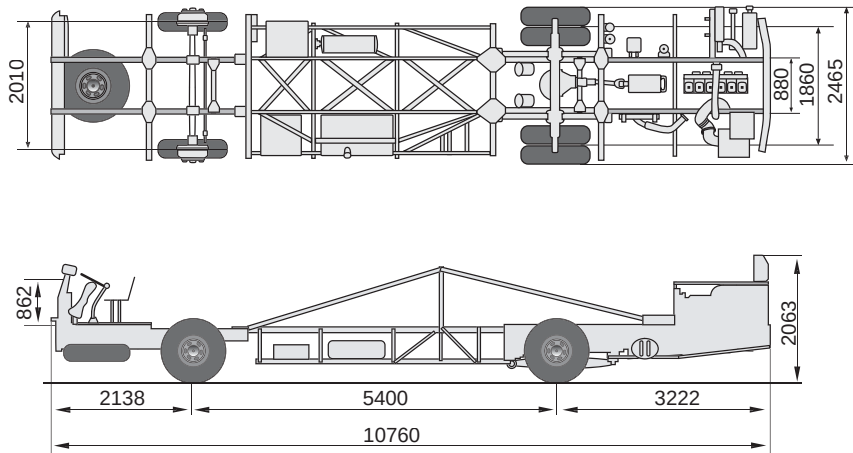
Electrical Equipment	
Type	24 volt negative earth
Batteries	Number per vehicle: two series-connection earth 12V
Alternator	Type: with built-in rectifier and separate voltage regulator
Headlamps	High/low beam 75/70W x 2
Directional indicator & hazard lamps	Front: 21W x 2 Rear: 21W x 2
Licence plate lamp	5W x 2
Stop/tail lamps	21/5W x 2
Back-up lamp	21W x 1

5. Dimensions & Seat Layout

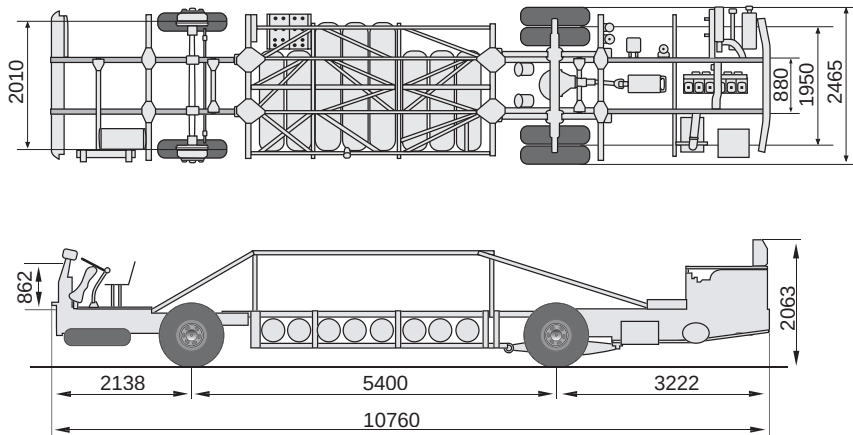
Diesel-D6AV



Diesel-D6AB-D



CNG-C6AC



1. Dimension, Weight Specifications

Drive type		LHD, 4 x 2		RHD, 4 x 2		LHD, 4 x 2	
Model		SPACE LD				SPACE LS	
Suspension type		LEAF				AIR	
Dimensions (mm)							
Overall Length		11,490					
Overall Width		2,490					
Overall Height		2,110		2,100		2,070	
Wheel Base		6,050					
Wheel tread	Front	2,010				2,050	
	Rear	1,860					
Overhang	Front	2,240					
	Rear	3,200					
Min. Ground Clearance		205				195	
Weight(Kg)							
Engine		D6AV/D6AB		C6AC(CNG)		D6AB	
Empty Vehicle Weight		6,275/6,380		7,060		6,515	
	Front	1,665/1,625		1,850		1,655	
	Rear	4,610/4,755		5,210		4,860	
Gross Vehicle Weight**		16,000		16,800		16,000	
	Front	6,000		6,000		6,000	
	Rear	10,000		10,800		10,000	

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

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.

2. Chassis Specifications

Vehicle Model		SPACE LD		SPACE LD/LS
Engine				
Model		D6AV	C6AC(CNG)	D6AB
Type		4 cycle, Water-Cooled Direct-Injection diesel engine	4 cycle, Water-Cooled Compressed natural gas engine	4 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		17:1(General), 17.5:1(Euro I)	11.5:1	16.5:1(EuroI), 17:1(Euro II)
Max. Power** (ps/rpm)	General	235/2,200	-	-
	Euro I	220/2,200	-	300/2,200
	Euro II	-	290/2,000	290/2,000
Max. Torque** (kg.m/rpm)	General	78/1,400	-	-
	Euro I	75/1,400	-	110/1,400
	Euro II	-	110/1,400	110/1,200
Cooling System	General	Pressure type with the thermostat, forced circulation by centrifugal water pump		
	Radiator	Corrugated fin and tube type with pressure cap and condenser tank		
Electrical System	Battery	24V-200AH(LD:24V-150A)		
	Alternator	24V-70AH	24V-180AH	24V-150AH
	Starter	24V-5.5KW		
Fuel System	Injection pump	DPICO in-line type	Woodard CNG System SPI + Mixer	DPICO in-line type(Euro I) Bosch in-line type(Euro II)
	Governor	Min-Max type(RFD)	-	Min-Max (RFD) (Euro I) All Speed type(RLD-J)(Euro II)
	Fuel filter	Spin-on type		
Oil System	Lubrication	Forced lubrication by gear pump		
Clutch				
Type		Hydraulic control with air assisted, single dry plate with air pressure assistance		
Facing material		Non-Asbestos		
Facing Size (mm); Outside dia. x Inside dia.		ø430 x ø250		
Transmission				
Model		M8S5(O.D)	M10S5(D.D)	
Type		5 forward and 1 reverse speed, 2nd to 5th synchromesh, 1st & reverse constant-mesh gears		
Gear Ratio	1st	5.431	7.119	
	2nd	3.463	4.436	
	3rd	1.747	2.451	
	4th	1.000	1.463	
	5th	0.741	1.000	
	Reverse	5.677	6.240	
T.G.S.(Transmission Gear Shift)		Floor shift, Mechanical remote control		
Propellershaft				
Model		S1610	S1710	
Type		Tube	Tubeless	Tube
Size (Diameter x Thickness)		ø88.9 x 6t	ø80	ø101.6 x 5t

2. Chassis Specifications

Engine Model		D6AV	C6AC(CNG)	D6AB
Rear Axle				
Model		D8S	D10H	D8S
Type		Full floating type		
Capacity(kg)		10,000	10,800	10,000
Final Reduction Gear	Type	Single reduction, Spiral bevel gear	Single reduction, Hypoid gear	Single reduction Spiral beve gear
	Ratio	4.875	4.444	3.909
Front Axle				
Type		Reverse Elliot type "I" beam		
Capacity(kg)		6,000		
Tire & Wheel				
Type		Single Front, Dual Rear		
Tire	Front/Rear	10.00 x 20-14PR	11R22.5-16PR	LD : 10.00 x 20-16PR LS : 11R22.5-16PR(FRT) 10.00 x 20-16PR(RR)
Wheel size	Front/Rear	7.00T x 20-170	8.25T x 22.5-165	7.00T x 20-170(RR) 8.25 x 22.5-165 (FRT)
Steering				
Type		Ball-nut type with integral hydraulic power booster, tilt & telescopic		
Steering Wheel Diameter(mm)		ø500		
Tilting Angle		57° ~ 67°		
Telescopic Stroke(mm)		50		
Turning Angle	Inner	46°		
	Outer	37° 51"		
Brake				
Service Brake	Type		Full Air, dual circuit, fixed "S" cam with spring loaded chambers	
	Drum Diameter(mm)		410	
	Lining size (widthxthick)	Front, mm	156 x 19t	
		Rear, mm	220 x 19t	
Parking Brake	Type		Spring loaded type parking brake on the rear wheels	
	Size(mm)		220 x 19	
Exhaust Brake		Air actuated operated, butterfly valve type		
Vehicle Model		SPACE LD	SPACE LD CNG	SPACE LS
Suspension				
Type	Front / Rear	Semi-elliptic, laminated leaf springs		Air
Dimension(mm)	Span x width x thickness - EA			Width x Height - EA
	Front	1450 x 90 x 13t-6	1450 x 90 x 13t-3,14t-3	285 x 296 - 2
	Rear	1700 x 100 x 13t-2, 15t-8		285 x 325 - 4
Stabilizer Bar	Front / Rear	Torsion bar type		
Shock absorber		Hydraulic double acting telescopic type on axles		

2. Chassis Specifications

Vehicle Model	SPACE LD	SPACE LD CNG	SPACE LS
Air filter			
Type	Dry paper element		
Fuel tank			
Capacity	300 L	764 L (1,068 : OPT)	300 L
Material	Steel	Steel + FRP	Steel
Frame			
Type	Semi monocoque(Front, rear & extension frame)		
Main section size(mm) (Height x Width x thick)	Front : 180 x 90 x 4.5t		
	Rear : 200 x 60 x 6t		

3. Instrument grouped on dash panel

Instruments		
Meter & gauges	- Speedometer - Voltage meter - Coolant temperature gauge - Air pressure gauge	- Odometer - Fuel gauge - Oil pressure gauge - Engine tachometer
Warning lamp & indicators	- Oil pressure warning lamp & buzzer - Coolant level pilot lamp & buzzer - Air pressure warning lamp & buzzer - Battery charging warning lamp - Beam indicator lamp - Directional indicator & hazard pilot lamp - Parking brake warning lamp - Exhaust brake indicator - Overheat warning lamp & buzzer	
Switches	- Battery relay switch - Lighting directional indicator & dimmer switch - Starter switch - Wiper & washer switch - Hazard lamp switch - Warning lamp check switch - Parking lamp switch	
Others	- Throttle control knob - Horn button	

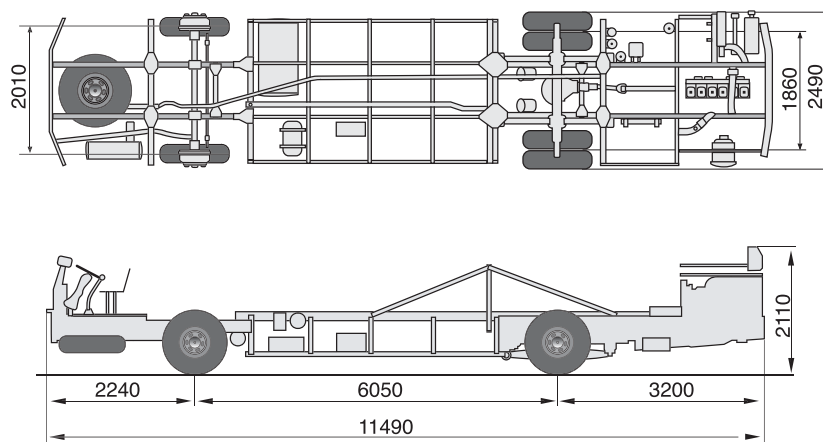
4. Electrical System Equipment

Electrical Equipment

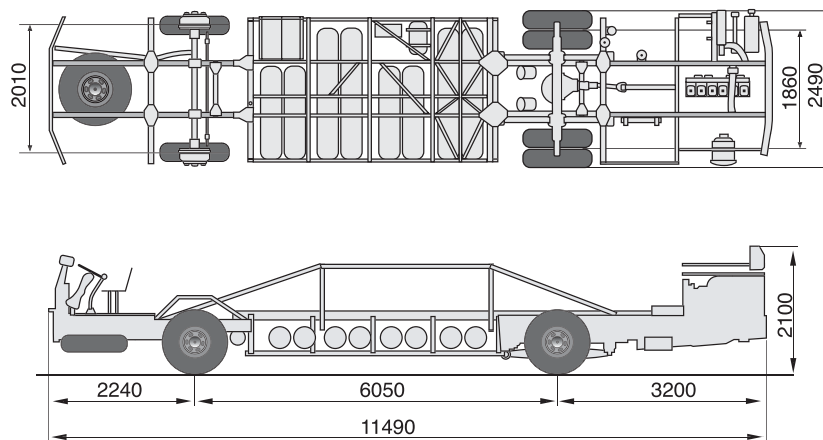
Type	24 volt negative earth	
Batteries	Number per vehicle: two series-connection earth 12V	
Alternator	Type: with built-in rectifier and separate voltage regulator	
Headlamps	High/low beam 75/70W x 2	
Directional indicator & hazard lamps	Front: 25W x 2	Rear: 25W x 2
Stop/tail lamps	21/5W x 2	
Back-up lamp	21W x 1	

5. Dimensions

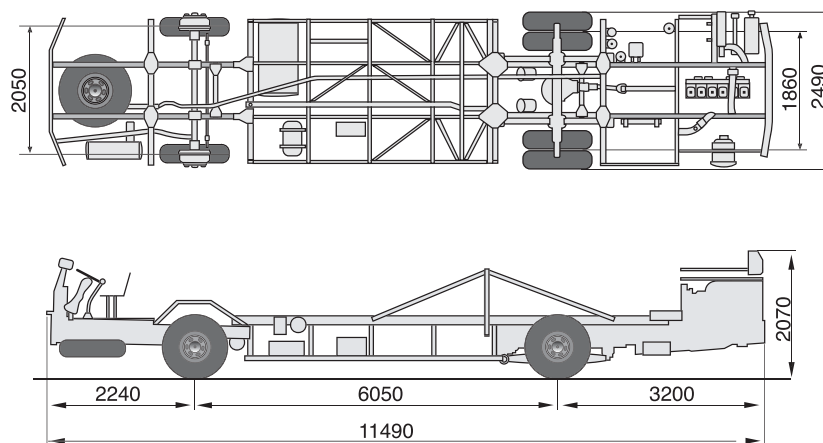
Aero Space LD(LHD)



Aero Space LD CNG(RHD)



Aero Space LS(LHD)



1. Dimension, Weight Specifications

Drive type	LHD, 4 x 2	
Model	EXPRESS HSX	NEW EXPRESS HSX
Suspension type	Air	

Dimensions (mm)

Overall Length	11,940	
Overall Width	2,490	
Overall Height	2,085	2,270
Wheel Base	6,150	
Wheel tread	Front	2,050
	Rear	1,860
Overhang	Front	2,590 (includes towing hook)
	Rear	3,200
Min. Ground Clearance	196	

Weight(Kg)

Engine	D6AC/D6CA38/D6CB38/D6CB41	D6CA38/D6CA41
Empty Vehicle Weight	7,145/7,135/7,135/7,135	7,215
	Front	2,130/1,905/1,905/1,905
	Rear	5,015/5,230/5,230/5,230
Gross Vehicle Weight**	17,300	17,300
	Front	6,500
	Rear	10,800

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

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.

2. Chassis Specifications

Engine						
Model		D6AC	D6CA38	D6CA41	D6CB38	D6CB41
Type		TCl, 4 cycle, Water-Cooled, Direct-injection	Electronic Diesel			
Number of Cylinder		6				
Piston Displacement (cc)		11,149	12,920		12,344	
Bore x Stroke (mm)		130 x 140	133 x 155		130 x 155	
Compression Ratio		16.5:1(Euro I) 17:1(Euro II)	17:1		17:1	
Max. Power** (ps/rpm)	General	-	-	-	-	-
	Euro I	340/2,200	-	-	-	-
	Euro II	340/2,200	380/1,900	410/1,900	-	-
	Euro III	-	-	-	380/1,900	410/1,900
Max. Torque** (kg.m/rpm)	General	-	-	-	-	-
	Euro I	140/1,400	-	-	-	-
	Euro II	148/1,200	148/1,500	173/1,500	-	-
	Euro III	-	-	-	148/1,200	173/1,200
Cooling System	General	Pressure type with thermostat, Forced circulation by centrifugal water pump				
	Radiator	Corrugated fit and tube type with pressure cap and condenser tank				
Electrical System	Battery	24V-200AH				
	Alternator	24V-150AH	24V-180AH			
	Starter	24V-6.0KW				
Fuel System	Injection pump	DPICO in-line(Euro I) Bosch in-line(Euro II)	Delphi EUI System			
	Governor	All Speed(RLD-J)	Electronic Control			
	Fuel filter	Spin-on type				
Oil System	Lubrication	Forced lubrication by gear pump				
Clutch						
Type		Hydraulic control with air assisted, Single dry plate				
Facing material		Non-Asbestos				
Facing Size (mm); Outside dia. x Inside dia.		ø430 x ø242				
Transmission						
Model		M12S5(D.D)		ZF6S1600	M12S5	ZF6S1600
Gear Ratio	1st	7.213	6.814	6.320	6.814	6.320
	2nd	4.398	4.155	3.620	4.155	3.620
	3rd	2.415	2.282	2.150	2.282	2.150
	4th	1.462	1.381	1.370	1.381	1.370
	5th	1.000	1.000	1.000	1.000	1.000
	6th	-	-	0.810	-	0.810
	Reverse	7.081	6.69	5.810	6.69	5.810
T.G.S.(Transmission Gear Shift)		Floor shift , Mechanical remote control				

**Max.torque and power of engine specifications may vary according to each country.

2. Chassis Specifications

Engine

Model	D6AC	D6CA38	D6CA41	D6CB38	D6CB41
-------	------	--------	--------	--------	--------

Propellershaft

Model	DS 4500
Type	Tubless, forged steel ends, Universal joints with needle roller bearings
Size (Diameter x Thickness)	ø109

Rear Axle

Model		D10H				
Type		Full floating type				
Capacity(kg)		10,800				
Final Reduction Gear	Type	Single Reduction , Hypoid gear				
	Ratio	3.545	3.153/3.545/3.909	3.909/3.545	3.153	3.545

Front Axle

Type	Reverse Elliot type " I " beam(Rigid), Double wishbone(Independent)
Capacity(kg)	6,500

Tire & Wheel

Type		Single Front, Dual Rear
Tire	Front/Rear	12R22.5-16PR / 11R20-16PR
Wheel size	Front/Rear	8.25T x 22.5 - 165 / 7.5 x 20-165

Steering

Type		Ball-nut type with integral hydraulic power booster, Tilt & Telescopic
Steering Wheel Diameter(mm)		ø 500
Tilting Angle		57° ~ 67°
Telescopic Stroke (mm)		50
Turning Angle	Inner	46° / 45° ~ 37.15° (Air Wide)
	Outer	37° 51"

Brake

Service Brake	Type		Full Air, dual circuit, fixed 'S'cam with spring loaded chambers
	Drum Diameter(mm)		410
	Lining size (width x thick)	Front	156 x 19
		Rear	220 x 19
Parking Brake	Type		Spring loaded type parking brake on the rear wheels
	Size (mm)		220 x 19
Exhaust Brake			Air actuated operated, butterfly valve type

Suspension

Type	Front / Rear	Rolling lobe type(Air)
Dimension(mm)	Width x Height - EA	
	Front	285 x 296 - 2 / 310 x 296-2 (Air Wide)
	Rear	285 x 325 - 4
Stabilizer Bar	Front / Rear	Torsion bar type
Shock absorber	Hydraulic double acting telescopic type on axles	

2. Chassis Specifications

Engine					
Model	D6AC	D6CA38	D6CA41	D6CB38	D6CB41
Air filter					
Type	Dry paper element				
Fuel tank					
Capacity	400 liter(Front Rigid), 385 liter(Independent)				
Material	Steel				
Frame					
Type	Semi-monocoque, steel(front,rear & extention frame)				
Main section size(mm) (Height x Width x thick)	Front: 180 x 90 x 4 t (Taiwan: Kick-Down) Rear: 200 x 60 x 6 t				

3. Instrument grouped on dash panel

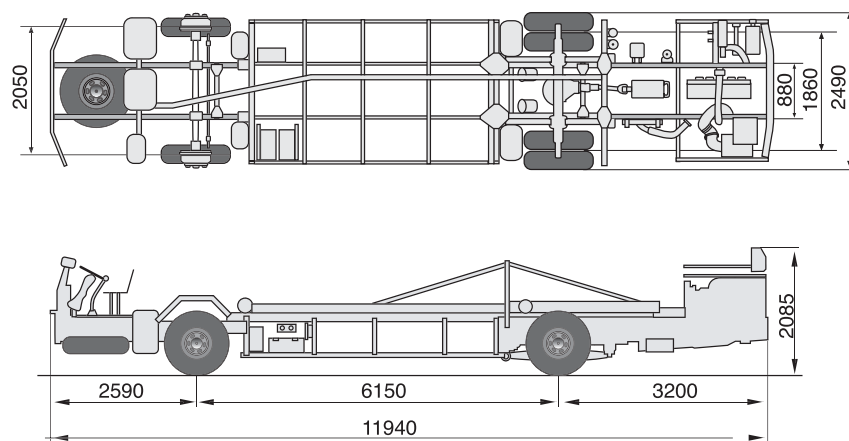
Instruments		
Meter & gauges	- Speedometer with odometer or Tachograph - Voltage meter - Coolant temperature gauge - Air pressure gauge	- Fuel gauge - Oil pressure gauge - Engine tachometer
Warning lamp & indicators	- Oil pressure warning lamp & buzzer - Coolant level pilot lamp & buzzer - Air pressure warning lamp & buzzer - Battery charging warning lamp - Beam indicator lamp - Directional indicator & hazard pilot lamp	- Parking brake warning lamp - Exhaust brake indicator - Overheat warning lamp & buzzer - Dust indicator - Battery Switch indicator
Switches	- Battery relay switch - Lighting directional indicator & dimmer switch - Starter switch - Wiper & washer switch	- Hazard lamp switch - Warning lamp check switch - Exhaust brake switch - Parking lamp switch
Others	- Throttle control knob	- Horn button

4. Electrical System Equipment

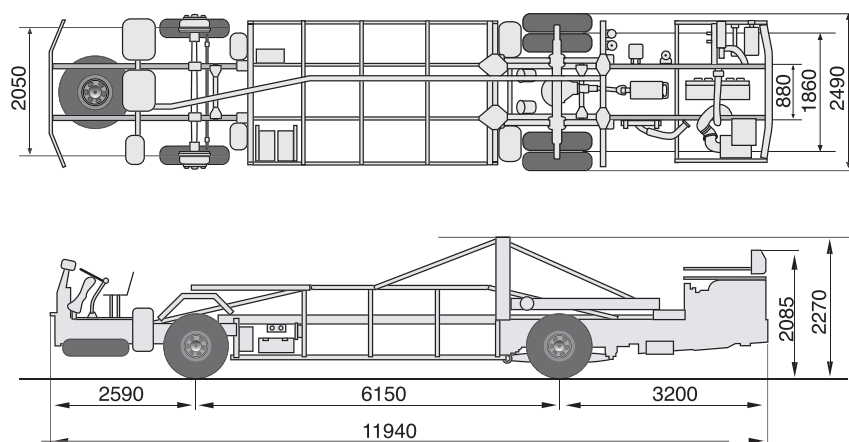
Electrical Equipment	
Type	24 volt negative earth
Batteries	Number per vehicle: two series-connection earth 12V
Alternator	Type: with built-in rectifier and separate voltage regulator
Headlamps	High/low beam 75/70W x 2
Directional indicator & hazard lamps	Front: 25W x 2 Rear: 25W x 2
Licence plate lamp	5W x 1
Stop/tail lamps	21/5W x 2
Back-up lamp	21W x 1

5. Dimensions

EXPRESS HSX (Air)



NEW EXPRESS HSX (Air)



APPENDIX

Engine Specification by Climate and Region

ENGINE MODEL	Specification		Region #2	EMISSION LEVEL			
	Type #1	Capacity (cc)		General	Euro 1	Euro 2	Euro 3
				PS / Kg.m	PS / Kg.m	PS / Kg.m	PS / Kg.m
D4BB	N.A	2,607	Gen/Tropic/Cold/High		80/17		
D4AF	N.A	3,568	Gen/Tropic/Cold	100/24	-	-	-
			High	88/23 (With ACS)	-	-	-
D4DC	N.A	3,907	Gen/Tropic/Cold	-	120/30	-	-
D4AL	T.C.I	3,298	Gen/Cold	-	115/29	-	-
			Tropic	-	110/28	-	-
			High	-	110/28(With Acs)	-	-
D4DB-D	T.C.I	3,907	Gen/Tropic/Cold/High	-	-	120/30	-
D4DB	T.C.I	3,907	Gen	-	155/38	130/38	-
			Tropic/Cold/High	-	130/38	130/38	-
D4DD	T.C.I	3,907	Gen/Tropic/Cold/High	-	-	-	140/38
D6BR	N.A	7,545	Gen/Tropic/Cold	185/51	167/46	-	-
			High	174/47	167/46	-	-
D6DA	T.C.I	6,606	Gen/Tropic/Cold	-	-	220/65	225/65(With Doc)
			Gen/Tropic/Cold	-	-	196/58	-
D6AV	N.A	11,149	Gen/Tropic/Cold	235/78	220/75	-	-
			High	210/70	200/70	-	-
D6AB-d	T.C.I	11,149	Gen/Tropic/High/Cold	-	300/110	280/110 (A/City) 290/110 (HD170,Aero)	280/110(A/City)
D6AC	T.C.I	11,149	Gen/Tropic/Cold	-	340/140	340/148	-
			High	-	305/125	305/125	-
D6CA41	T.C.I	12,920	Gen/Tropic/Cold/(High)	-	-	410/188(Trk) 410/173(Bus)	-
D6CA3H	T.C.I	12,920	↑	-	-	380/160	-
D6CA38		↑	↑	-	-	380/148	-
D6CB41		12,300	↑	-	-	-	410/188(Trk) 410/173(Bus)
D6CA3H	T.C.I	12,300	↑	-	-	-	380/160
D6CB38		12,300	↑	-	-	-	380/148

#1) N.A : Natural Aspiration, T.C.I : Turbo Charger Intercooler

#2) Gen : General Region, Tropic: Tropical Region, Cold : Cold Region, High : High Altitude Region

