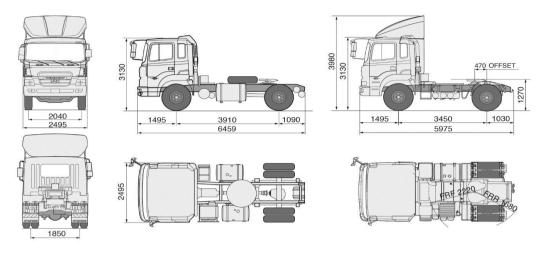
HD450L/HD500/HD600L Tractor

HYUNDAI HD Series



HD450L / HD600L



Model		HD450L	HD500	HD600L
Vehicle Type			Tractor	
Cab Type			Sleeper Cab	
Wheel Base		Long	Short	Long
Drive System			LHD, 4 x 2	
Application Engines		D6AC	D6CA38	D6CA41
Dimensions (mm)				
Wheel Base		3,910	3,450	3,910
	Length	6,495	5,975	6,495
	Width		2,495	
Overall	Height (Spoiler)	3,130 (3,980)		3,130 (3,980) 24" Tire: 3,265 (4,115)
Wheel Tread	Front / Rear		2,040 / 1,850	
Overhang	Front / Rear	1,495 / 1,090	1,495 / 1,030	1,495 / 1,090
Fitting Radius Front (F.R.F)		2,220	1,880	2,220
Fitting Radius REAR (F.R.R)		1,680	1,660	1,680
Fifth Wheel Loading Capacity (k	(g)	8,500	10,000*	8,500
	Туре		1 Axis	
	Capacity		20,000	
Coupler	King Pin Diameter		SAE 2"	
	Height	185	220 / 280	185
	Ground Height	1,270	1,270	1,270
Min. Ground Clearance			250	
Min. Turning Radius	m	7.0	6.2	6.3 (24" Tire : 7.6)
Weight (kg)				
Tractor Weight		6,990	7,210	7,345
	Front / Rear	4,535 / 2,455	4,735 / 2,475	4,740 / 2,605
** Max Gross Vehicle Weight		١	8,000	21,000
	Front / Rear	6,500) / 11,800	8,000 / 13,000
Max. Gross Combination Weight		45,000		50,000

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

Chassis Specifications

Engine

Engine		D6/	AC D6CA38	D6CA41		
Ture		Turbo Charger Intercooler				
Туре		4 stroke-cycle, water-cooled, direct-injection diesel engine				
number of Cyli	nder		6 in-line			
Piston Displace	ement (cc)	11,1	49 12,920	12,900		
Bore x Stmke ((mm)	130x	140 133x155	133x155		
Compression Ratio		16.5	.5 : 1 17.0 : 1			
Max. Power**	Max. Power** Eurol		-	-		
(ps/rpm)	Euroll	320 / 2,000	380 / 1,900	410 / 1,900		
Max. Torque *	* Eurol	140 / 1,400	-	-		
(kg.m/rpm)	Eurol I	137 / 1,400	148 / 1,500	188 / 1,500		
Cooling System	General	Pressure type with thermostat, Forced circulation by centrifugal water pump				
cooling system	' Radiator	Corrugated fin type with pressure cap and condenser tank				
	Battery		12V x 2, 150 AF	l at 20 Hr rates		
Electrical Syste	e Alternator	24V-60A	24V-80A			
	Starter	24V-5.5kW		24V-6.0kW		
	Injection pump	In-line type		ЕЦ system		
Fuel System	Governor	All Speed type	I	Electronic Control		
	Fuel filter		Spin-on type			
	Lubrication		Forced lubrication by ge	ear pump		
Oil System	Oil filter		Full flow and bypass type with	paper element		
on System	Oil cooler		Water cooled, p	plate fin type		
	Oil grade	API service classification CF-4 or above				
Valve System Single Overhead Valve, Two valves per cylinder						

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

Clutch

Engine	D6AC	D6CA38	D6CA41		
Туре	Hydraulic contr	oi with Air pres	sure assistance,		
rgpe	Dianhranm snrinn. Sinnle dru nlate. Pre-				
Facing Material		non-Asbestos			
Facing Size					
(mm) Outside		0430 x 0242			
dia x Inside dia					

HYUNDAI HD Series_ HD450L/500/600LTractor

Transmission				
Model		HD450L	HD500	HD600L
Application Engines		D6AC	D6CA38	D6CA41
T/M Application	M12S 2X5	•		
• : STD	H160S 2X5		•	
o: OPT	ZF16S151			•
Model		M12S 2x5	H160S 2x5	ZF16S151
Туре		10 forward and 2 reverse speed, reverse consta	2nd to 10th synchromesh, 1st & nt-mesh gears	16 forward and 2 reverse speed, Ind to 16th synchromesh, reverse constant-mesh gears
	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)		/ 1,301	4.57 / 3.82
Gear Ratio	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	8,105	/ 6,327	12.92 / 10.80
Gear Oil			-4 or SAE service classification 80	
T.G.S. (Transmission Gear Shit	ft)	F	oor shift, Mechanical remote contr	ol
Rear Axle				
Engine		D6AC	D6CA38	D6CA41
Туре			Full floating type	
Capacity	kg	11,	800	13,000
Final Reduction Gear	Туре	Single Reduction	on, Hypoid gear	Single Reduction, Hypoid gear (THR20S : Hub Reduction)
	G/Ratio	4.875	5.143/4.875	3.909(T19H), 4.333(R190HS), 4.248 (THR20S)
Front Axle				
Туре			Reverse Elliot type " I " beam	
Capacity	kg	6,	550	8,000
Tire & Wheel			Single Ecent, Dual Deas	
Туре	Erret		Single Front, Dual Rear	
Tire	Front	12R22.	5-16PR	12R22.5-16PR (12.00R24-18PR : OPT)
Wheel	Rear Front Rear	8.25 x 2	2.5-165	8.25 x 22.5-165 (8.5V x 24 ÷ OPT)

HYUNDAI HD Series_ HD450L/500/600LTractor

Steering					
Model		HD450L	HD500	HD600L	
Engine		D6AC	D6CA38	D6CA41	
Туре		2–Spoke, Bal	I–nut type, Tilt & Telescopic s	steering column	
Tilting Angle			9 °		
Turning Angle	Inner		49 °		
	Outer	35 °			
Service Brake					
Actuation		Full Air, Dual ci	Full Air, Dual circuit fixed S cam with spring loaded chambers		
Size (mm)	Front	Drum dia. x Lin	ing width x Lining thickness	ø410 x 156 x 19	
Size (mm)	Rear	Drum dia. x Lin	ing width x Lining thickness	: ø410 x 220 x 19	
Compressed air reservoir			105 Q		
Total lining area		6,081 cm²	9,639cm²	6,081cm²	
Parking Brake					
Actuation		Spring I	oaded type chamber on the r	ear wheel	
Size (mm)	Front	ø410 x 156 x 19	ø410 x 220 x 19	ø410 x 156 x 19	
	Rear	ø410 x220 x 19		ø410 x 220 x 19	
Total lining area		6,081 cm²	9,639cm²	6,081cm²	
Exhaust Brake					
Туре		A	ir operated, butterfly valve t	уре	
Jake brake					
		-	Injection (Cam operated type	
Suspension					
Туре	Front	Multi Leaf Taper(OPT)	Taper Leaf	Taper Leaf (Multi : OPT, 24" Tire : Multi)	
	Rear	Leaf		Leaf	
Shock absorber		Hydraulic double acting telesco	pic type on the front axle	<- (24" tire : Hydraulic double acting telescopic type on the front)	

HYUnDA | HD Series_ HD450L/500/600LTractor

Exhaust system			
Model	HD450L	HD500	HD600L
Engine	D6AC	D6CA38	D6CA41
General		Conventional (horizontal) type mu	Jffler
Tail pipe	1	Droptail type, blowing to chassis re	arward
Fuel tank			
Capacity	400 liter (steel), 800	350 liter (Steel),	350 liter (Steel), 380 liter (AI) 650
Material	liter(steel, 400+400)	380 liter (Aluminum)	liter(Steel)
Frame			
Туре	"H" type frame with channel see	ctional side rail & cross members	
Main side rail (mm)	302 x 90 x 8 t	280 x 卵 x 8 t	302 x 卵 x 8 t

Annotations

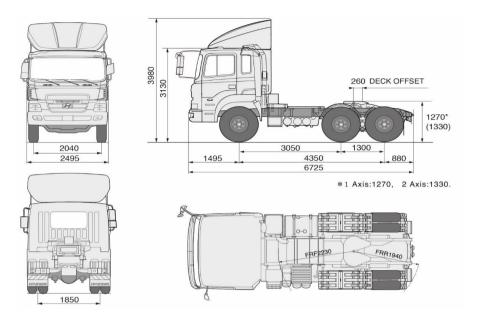
1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.

2) Empty vehicle weight and curb weight include weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set.

- 3) The vehicle specifications may differ per country.
- 4) For further information please contact the commercial vehicle export teams of HMC.
- 5) In order that product improvement may be introduced at any time, specifications are subject to change without prior notice.

HD700/HD1000 Tractor

HYUNDAI HD Series



Model		HD700	HD1000)
Vehicle Type			Tractor	
Cab Type			Sleeper Cab	
Wheel Base			Short	
Drive System			LHD, 6 x 4	
Application Engines		D6AC	D6CA3H	D6CA41
Dimensions (mm)				
Wheel Base			4,350 (3,050 + 1,300)	
	Length		6,685	
Overall	Width		2,495	
	Height		3,130 (3,980 : with spoiler)	
Wheel Tread	Front / Rear		2,040 / 1,850	
Overhang	Front / Rear		1,495 / 840	
Overhang (Frame)	Front / Rear		1,420 / 820	
Fitting Radius Front (F.R.F)			2,230	
Fitting Radius REAR (F.R.R)		1,940		
Fifth Wheel Loading Capacity (kg)			20,000	
	Туре		1Axis (STD), 2 Axis (OPT)	
	Capacity		16,500 (2"), 36,000 (3.5")	
Coupler	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	
Min. Turning Radius	m		6.8	
Weight (kg)				
Tractor Weight		8,780	8,930	
	Front / Rear	4,300 / 4,480	4,600 / 4,4	420
** Max Gross Vehicle Weight			31,700	
	Front / Rear		6,500 / 25,200	
Max. Gross Combination Weight			70,000	

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

i <mark>ngine</mark> ngine		D6AC	D6CA3H	D6CA41	
Lingine		bone	Turbo Charger Intercooler	DOCHAT	
Туре		4 stroke-o	ucle, water-cooled, direct-injection dies	el engine	
Number of Cylinder			6 in-line		
Piston Displacement (cc)		11,149	12,9	920	
Bore x Stmke (mm)		130 × 140			
Compression Ratio		16.5 : 1	17	: 1	
Marco Davida - *** (a a (aa)	Eurol	340 / 2,200	-		
Max. Power** (ps/rpm)	Euroll	320 / 2,000	380 / 1,900	410 / 1,900	
Max. Torque ** (kq.m/rpm)	Eurol	140 / 1,400	-		
Max. Torque · · (ky.iii/Tpiii/	Euroll	137 / 1,400	160 / 1,500	188 / 1,500	
S S S	General	Pressure type with thermostat, Forced circulation by centrifugal water pump			
Cooling System	Radiator	Corrugated fin type with pressure cap and condenser tank			
	Battery	12V x 2, 150 AH at 20 Hr rates			
Electrical System	Alternator	24V-60A	24V-	80A	
	Starter	24V-5.5kW	24V-6	i.0kW	
	Injection pump	In-line type	EUI su	jstem	
Fuel System	Governor	All Speed type	Electronic	c Control	
	Fuel filter		Spin-on type		
	Lubrication		Forced lubrication by gear pump		
Dil System	Oil filter	Fu	I flow and bypass type with paper eleme	nt	
on system	Oil cooler		Water cooled, plate fin type		
	Oil grade		API service classification CF-4 or above		
Valve System		Sing	le Overhead Valve, Two valves per cyline	der	

D6AC

Clutch Engine Type Facing Material Facing Size (mm) Outside dia x Inside dia

Hydraulic control with Air pressure assistance, Diaphragm spring, Single dry plate, Pre-Damper Non-Asbestos

D6CA3H

D6CA41

ø430 x ø242

Transmission				
Model		HD700	HC	01000
Application Engines		D6AC	D6CA3H	D6CA41
T/M Application	M12S 2X5	•		
• : STD	H160S 2X5		•	
o : OPT	ZF16S151			•
Model		M12S 2x5	H160S 2x5	ZF16S151
Туре		10 forward and 2 reverse speed, 2n reverse constant		16 forward and 2 reverse speed, 1st to 16th synchromesh, reverse constant-mesh gears
	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
Gear Ratio	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	8,105 / 6	327	12.92 / 10.80
Gear Oil		API service classification GL-4	or SAE service classification 80	0W (90 ;Tropical zones only)
T.G.S. (Transmission Gear Shift)		Floo	r shift, Mechanical remote cont	rol
Rear Axle				
Туре			Full floating type	
Capacity	kg		13,000 x 2	
Final Reduction Gear	Туре		Single Reduction, Hypoid gear	
	G/Ratio	5.571	4.875	3.909 / 4.333
Front Axle				
Туре			Reverse Elliot type " I '' beam	
Capacity	kg		6,550	
Tire & Wheel				
Туре			Single Front, Dual Rear	
Tire	Front / Rear		12R 22.5 - 16PR	
Wheel	Front/ Rear		8.25T x 22.5-165	
Steering				de el contractor
Туре		2−Spoke, Ball	nut type, Tilt & Telescopic stee- 9 °	ering column
Tilting Angle			-	
Turning Angle	Inner		49 °	
	Outer		35 °	

Service Brake					
Model		HD700	HD1000		
Engine		D6AC	D6CA3H	D6CA41	
Actuation		Full Air, D ⁱ	ual circuit fixed S cam with spring loaded cham	bers	
Size (mm)	Front	Drum dia. :	x Lining width x Lining thickness \div ø410 x 156	x 19	
	Rear	Drum dia. :	x Lining width x Lining thickness \div ø410 x 220	x 19	
Compressed air reservoir		140 Ø	145 Q	140 l	
Total lining area		9,639cm²	12,162cm²	9,639cm²	
Parking Brake					
Actuation		Sp	ring loaded type chamber on the rear wheel		
Size (mm)		Drum diamet	er x Lining width x Lining thickness i ø410 x 2	20 x 19	
Total lining area			7,166cm²		
Exhaust Brake					
Туре			Air operated, butterfly valve type		
Jake brake					
		-	Injection Cam operat	ed type	
Suspension					
Туре	Front		with shackle link (Multi leaf spring)	Taper leaf Spring	
. 36-	Rear	Semi-elliptic, la	Semi-elliptic, laminated leaf springs with shackle link (Multi leaf spring)		
			Hydraulic double acting telescopic type on the front axle		
Shock absorber		Hydraul	ic double acting telescopic type on the front a	de	
Shock absorber Exhaust system		Hydraul		kle	
			Conventional (horizontal) type muffler	de	
<mark>Exhaust system</mark> General Tail pipe				xle	
<mark>Exhaust system</mark> General			Conventional (horizontal) type muffler Droptail type, blowing to chassis rearward	de	
<mark>Exhaust system</mark> General Tail pipe			Conventional (horizontal) type muffler Droptail type, blowing to chassis rearward 350 liter (Steel), 380 liter (Aluminum)	xle 	
Exhaust system General Tail pipe Fuel tank Capacity Material			Conventional (horizontal) type muffler Droptail type, blowing to chassis rearward	de	
Exhaust system General Tail pipe Fuel tank Capacity			Conventional (horizontal) type muffler Droptail type, blowing to chassis rearward 350 liter (Steel), 380 liter (Aluminum)	de	
Exhaust system General Tail pipe Fuel tank Capacity Material			Conventional (horizontal) type muffler Droptail type, blowing to chassis rearward 350 liter (Steel), 380 liter (Aluminum)		

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
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