



■ Photo may include optional equipment.

35/40/45DS-7E 50DA-7E

DIESEL FORKLIFT TRUCKS Environmental - Friendly

35/40/45DS/50DA -7E

New criterion of Forklift Trucks

Hyundai introduces a new line of 7E-series diesel forklift trucks. Excellent power and performance make your business more profitable.



■ Photo may include optional equipment.

35/40/45DS/50DA-7E



High Power & Performance

Powerful Engine

Mitsubishi S6S-T Engine

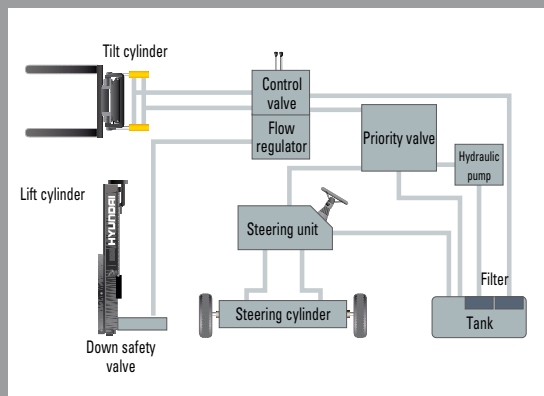
The six cylinders turbo-charged engine is built for power, reliability and economy. This engine meets EPA tier III and EU stage IIIA emission regulation.

67,7 kW / 2,300 rpm



State-of-the-art hydraulic system

The latest designed, large-capacity hydraulic system including a low-noise control valve shortens reaction time during operation and improves both efficiency and durability.



Fast and stable performance

Being able to quickly raise and lower the mast, as well as tilting forward and backward, the truck provides you the best operational conditions during loading/unloading operations. When the truck is fully loaded, mast lowering speed is carefully controlled to ensure safety by the down control valve.

The new master on your job-site!

Smooth running, efficient and ergonomically designed, 35/40/45DS/50DA-7E series are made to meet your needs.



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Faster Travel Speed & Grade-ability

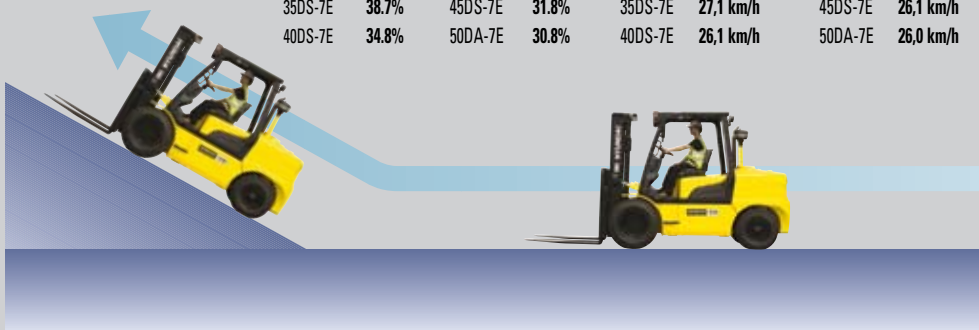
The powerful high-output engine provides greater acceleration, better grade-ability and faster travel speed on any tough terrain or slope.

Grade-ability (Loaded)

35DS-7E	38.7%	45DS-7E	31.8%
40DS-7E	34.8%	50DA-7E	30.8%

Travel speed (Unloaded)

35DS-7E	27,1 km/h	45DS-7E	26,1 km/h
40DS-7E	26,1 km/h	50DA-7E	26,0 km/h



Increased mast tilting angle

Utilizing the mast tilting angle of 8 degrees forward and 10 degrees backward gives the operator a safe and rapid platform for loading and unloading jobs.



Wet disc brake system

Wet disc brakes improve the brake performance and make your service intervals longer. Enclosed brakes are protected against dust and water.



Fully hydrostatic power steering

A hydraulic steering system always guarantees smooth and flexible steering, preventing overrun and steering wheel kick-back.



OPSS (Operator Presence Sensing System)

Mast tilting, lifting and lowering operation is not possible when the operator is not seated in normal position. (Option)

Comfortable Operation



Adjustable steering wheel

Steering wheel with horn button can be adjusted by a lever on the right-hand side for the most comfortable operator position.



Easy and safe shift lever

A single lever on the left side of the steering column gives the operator fast and easy control of speed and travel direction. The engine can only be started in case of neutral position of this lever.



Multi-function switch lever

A multi-functional switch lever gives easy access to lights and horn.



Quick Response of Operating Control Levers

Only minimal operator's effort is required for precise, safe and productive control.



■ Photo may include optional equipment.



Ergonomically positioned pedals

Based on human engineering, the accelerator, brake and inching pedals are optimally positioned for operator's convenience. Easy to remove cleanable rubber floor mat.

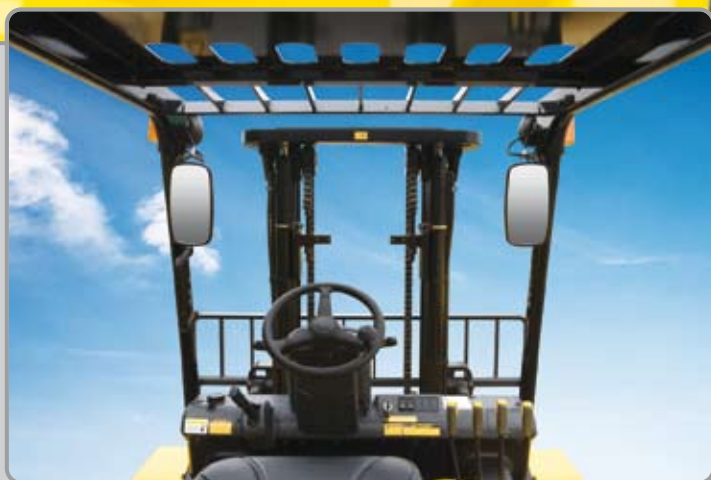


Cup holder & console box

Additional storage spaces are located inside the operating space for operator's convenience.

Comfortable Operation!

A design based on human engineering relieves fatigue and increases operator's efficiency.



New high visibility for safe operation

The operator is able to work with increased safety and accuracy due to a wider view mast.

Operator friendly gauges and water-resistant monitor panel



- ① Parking brake lamp
- ② Directional indicators
- ③ Fuel warning lamp
- ④ Engine oil warning lamp
- ⑤ Transmission oil temperature warning lamp
- ⑥ Battery warning lamp
- ⑦ Air filter warning light
- ⑧ Working light indicator
- ⑨ Water separator lamp
- ⑩ Pre-heater indicator
- ⑪ Water temperature gauge
- ⑫ Fuel gauge
- ⑬ Hour meter
- ⑭ Engine check lamp
- ⑮ Seat belt warning
- ⑯ DPSS warning

Easily adjustable suspension seat

An attractive and adjustable seat, based on a human engineering design, provides great comfort, safety and durability.



Full-floating headguard

Anti-vibration rubbers, installed between the cabin structure and truck frame, reduces vibrations and noise while driving. This reduces operator's fatigue and increases safety.



Endurance & Safety

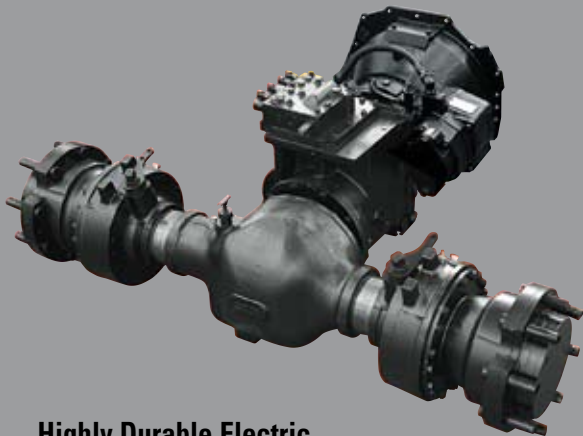
Strong overhead guard

The safety overhead guard meets EEC and ANSI regulations and protects the operator during hazardous jobs.



Parking Brake

Toggle type parking brake requires less efforts from the operator to set.



Highly Durable Electric Power-Shift Transmission

Powershift transmission provides you with fast and quiet travel speed under all heavy load conditions. So boosting your work efficiency.

Safety through high durability!

Safety and durability are priorities in the design of the equipment.



Large Footstep & Handle

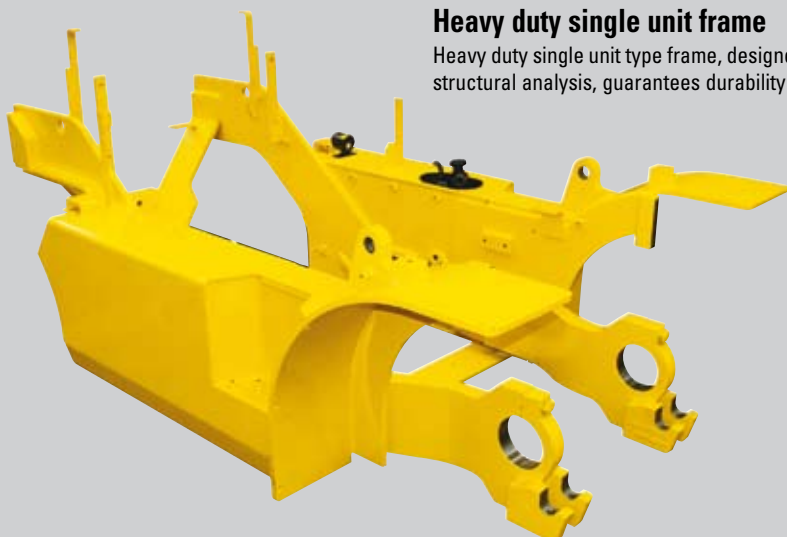
Wide "open" step offers convenience and safety when entering and exiting your truck.



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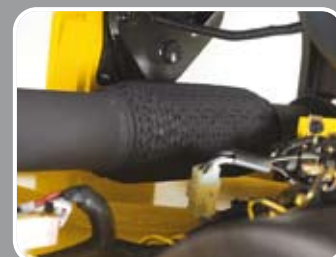
Heavy duty single unit frame

Heavy duty single unit type frame, designed on the basis of accurate structural analysis, guarantees durability and safety.



Easy access to electric parts

Various electric parts are centralized below the dash board resulting in improvement of maintenance.



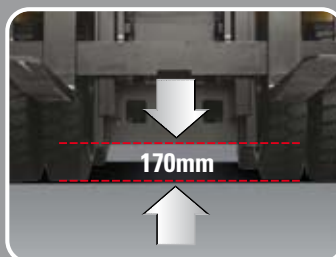
Expansion bellows

The expansion bellows absorbs vibration and reduces noise generated from the exhaust gas system to extend the life span.



Bright, protected headlights

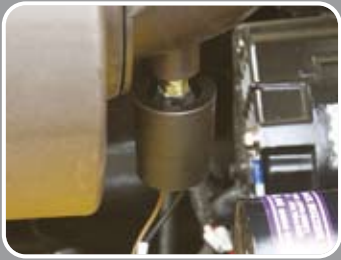
Bright, protected headlights are positioned for increased visibility in dark environments.



Ground clearance

The engine and transmission are assembled horizontally and positioned high in the frame to protect valuable components during operations on rugged surface.

High Durability & Easy Maintenance



Electrically Monitored Air Filter

Air cleaner sensor alerts the operator of a restricted air filter so allowing replacement before a potential engine damage occurs.



Easy Maintenance oil check

The T/M oil level can be checked easily without any disassembly.



Brake fluid reservoir

Highly visible, easily accessible reservoir makes for quicker daily inspections.



An accessible, compact fuse box for easy inspection



Centralized design for easy service!

An ideal arrangement of components ensures easy access and convenience during maintenance.



Easy Change of Air Cleaner

The air filter is readily accessible for cleaning or replacement. (7inch Cyclone Type)



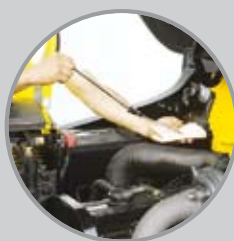
Portable Side Cover



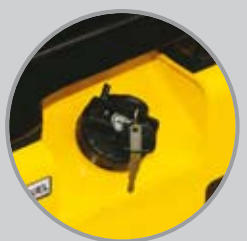
Rotational battery installation



Aluminum radiator with superb protection against heat



Engine oil condition check



Key-locking fuel cap

Mast Specifications (35/40/45DS-7E)

Mast Type	Maximum Fork Height (mm)	Overall Height (Lowered) (mm)			Free Lift (mm)		Tilt Angle (degree)		Load Capacity without side shift at 600 mm LC (kg)						Load Capacity with side shift at 600 mm LC (kg)						Truck Weight Unloaded (kg)					
		Single Tire		Double Tires	With Backrest	Without Backrest	Fwd	Bwd	Single Tire			Double Tires			Single Tire			Double Tires			Single Tire		Double Tires			
		35/40/45DS-7E	35/40/45DS-7E	35/40/45DS-7E	35/40/45DS-7E	35/40/45DS-7E			35DS-7E	40DS-7E	45DS-7E	35DS-7E	40DS-7E	45DS-7E	35DS-7E	40DS-7E	45DS-7E	35DS-7E	40DS-7E	45DS-7E	35DS-7E	40DS-7E	45DS-7E	35DS-7E	40DS-7E	45DS-7E
2-Stage limited free lift	V270	2,720	2,085	2,070	120	120	8	10	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	5,864	6,328	6,741	6,019	6,434	6,850
	*V300	3,020	2,235	2,220	120	120	8	10	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	5,894	6,358	6,771	6,049	6,464	6,880
	V330	3,320	2,385	2,370	120	120	8	10	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	5,932	6,396	6,809	6,087	6,502	6,918
	V350	3,520	2,535	2,520	120	120	8	10	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,450	3,500	4,000	4,450	5,955	6,419	6,832	6,110	6,525	6,941
	V370	3,720	2,635	2,620	120	120	8	10	3,500	4,000	4,500	3,500	4,000	4,500	3,500	3,950	4,400	3,500	3,950	4,400	5,975	6,439	6,852	6,130	6,545	6,961
	V400	4,020	2,845	2,830	120	120	8	10	3,500	4,000	4,500	3,500	4,000	4,500	3,400	3,900	4,350	3,450	3,900	4,350	6,018	6,482	6,894	6,172	6,588	7,003
	V450	4,520	3,095	3,080	120	120	6	6	3,500	4,000	4,450	3,500	4,000	4,500	3,300	3,750	4,200	3,350	3,750	4,200	6,130	6,594	7,007	6,285	6,700	7,116
2-Stage full free lift	V500	5,020	3,345	3,330	120	120	6	6	3,400	3,900	4,300	3,450	3,950	4,350	3,200	3,700	4,050	3,250	3,700	4,050	6,181	6,645	7,058	6,336	6,751	7,167
	VF280	2,805	2,135	2,120	919	1,258	6	8	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	5,905	6,369	6,777	6,057	6,472	6,886
	VF300	3,005	2,235	2,220	1,019	1,358	6	8	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	5,931	6,395	6,803	6,083	6,498	6,912
3-Stage full free lift	VF315	3,155	2,325	2,310	1,109	1,448	6	8	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	3,500	4,000	4,500	5,951	6,414	6,822	6,103	6,517	6,931
	TF370	3,730	2,035	2,020	812	1,139	6	6	3,500	4,000	4,500	3,500	4,000	4,500	3,350	3,900	4,350	3,450	3,950	4,350	6,121	6,585	6,998	6,276	6,656	7,109
	TF400	4,030	2,135	2,120	912	1,239	6	6	3,500	4,000	4,500	3,500	4,000	4,500	3,300	3,850	4,250	3,400	3,850	4,250	6,151	6,615	7,028	6,306	6,686	7,139
	TF430	4,330	2,235	2,220	1,012	1,339	6	6	3,450	4,000	4,450	3,500	4,000	4,500	3,250	3,750	4,200	3,300	3,800	4,200	6,182	6,646	7,059	6,337	6,717	7,170
	TF450	4,510	2,295	2,290	1,072	1,399	6	6	3,400	4,000	4,400	3,500	4,000	4,450	3,200	3,800	4,150	3,300	3,800	4,150	6,201	6,665	7,078	6,356	6,736	7,189
	TF470	4,720	2,385	2,390	1,162	1,489	6	6	3,350	3,950	4,350	3,450	4,000	4,350	3,150	3,700	4,050	3,250	3,750	4,050	6,237	6,701	7,114	6,392	6,772	7,226
	TF500	5,020	2,485	2,470	1,262	1,589	6	6	3,300	3,850	4,250	3,400	3,900	4,300	3,100	3,600	4,000	3,200	3,650	4,000	6,261	6,724	7,137	6,415	6,795	7,249
TF550	5,520	2,665	2,650	1,442	1,769	6	6	3,000	3,600	4,000	3,300	3,750	4,150	2,850	3,350	3,850	3,100	3,500	3,850	6,322	6,785	7,199	6,476	6,856	7,310	
TF600	6,030	2,845	2,830	1,622	1,949	6	6	2,600	3,100	3,400	3,200	3,650	4,000	2,450	2,950	3,250	3,000	3,400	3,750	6,390	6,854	7,267	6,545	6,925	7,378	

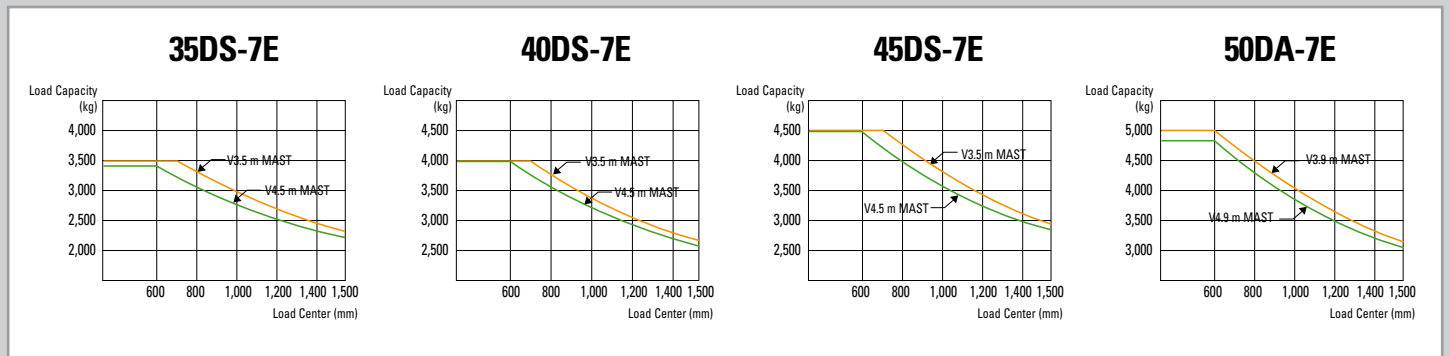
* Standard

Mast Specifications (50DA-7E)

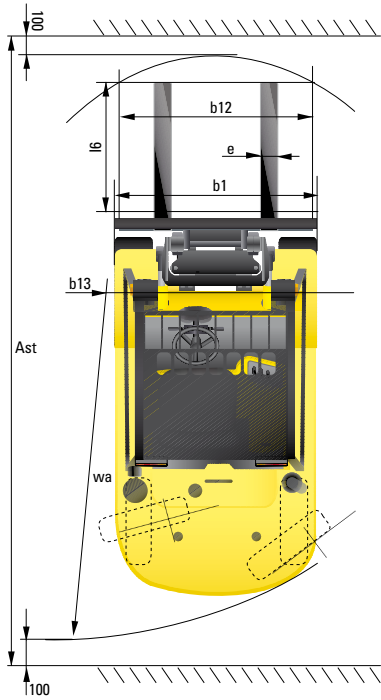
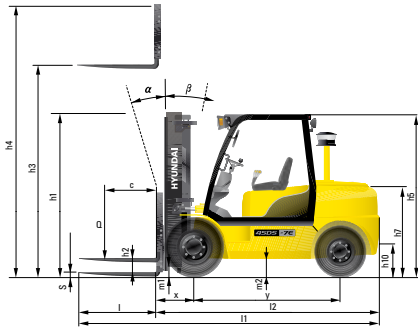
Mast Type	Maximum Fork Height (mm)	Overall Height (Lowered) (mm)			Free Lift (mm)		Tilt Angle (degree)		Load Capacity without side shift at 600 mm LC (kg)		Load Capacity with side shift at 600 mm LC (kg)		Truck Weight Unloaded (kg)			
		Single Tire		Double Tires	With Backrest	Without Backrest	Fwd	Bwd	Single Tire		Double Tires		Single Tire		Double Tires	
		50DA-7E	50DA-7E	50DA-7E	50DA-7E	50DA-7E			50DA-7E	50DA-7E	50DA-7E	50DA-7E	50DA-7E	50DA-7E	50DA-7E	
2-Stage limited free lift	V260	2,630	2,085	2,070	120	120	8	10	5,000	5,000	5,000	5,000	7,156	7,271		
	*V290	2,930	2,235	2,220	120	120	8	10	5,000	5,000	5,000	5,000	7,232	7,302		
	V320	3,230	2,385	2,370	120	120	8	10	5,000	5,000	5,000	5,000	7,206	7,322		
	V340	3,430	2,535	2,520	120	120	8	10	5,000	5,000	4,950	4,950	7,231	7,346		
	V360	3,630	2,635	2,620	120	120	8	10	5,000	5,000	4,900	4,900	7,247	7,363		
	V390	3,930	2,845	2,830	120	120	8	10	5,000	5,000	4,800	4,800	7,283	7,398		
	V440	4,430	3,095	3,080	120	120	6	6	4,850	4,950	4,650	4,650	7,386	7,502		
2-Stage full free lift	V490	4,930	3,345	3,330	120	120	6	6	4,700	4,800	4,500	4,500	7,428	7,544		
	VF270	2,697	2,135	2,120	905	1,223	6	8	5,000	5,000	4,700	4,750	7,215	7,327		
	VF290	2,897	2,235	2,220	1,005	1,323	6	8	4,900	5,000	4,650	4,700	7,240	7,352		
3-Stage full free lift	VF305	3,047	2,325	2,310	1,095	1,413	6	8	4,800	4,900	4,550	4,600	7,258	7,370		
	TF360	3,672	2,035	2,020	807	1,074	6	6	5,000	5,000	4,700	4,800	7,399	7,503		
	TF390	3,972	2,135	2,120	907	1,174	6	6	4,950	5,000	4,650	4,700	7,425	7,529		
	TF420	4,272	2,235	2,220	1,007	1,274	6	6	4,850	4,950	4,550	4,600	7,450	7,554		
	TF440	4,452	2,295	2,290	1,067	1,334	6	6	4,800	4,900	4,500	4,550	7,467	7,570		
	TF460	4,662	2,385	2,390	1,157	1,424	6	6	4,700	4,800	4,450	4,500	7,490	7,594		
	TF490	4,962	2,485	2,470	1,257	1,524	6	6	4,650	4,750	4,350	4,450	7,515	7,619		
TF540	5,462	2,665	2,650	1,437	1,704	6	6	4,500	4,600	4,250	4,300	7,567	7,671			
TF590	5,972	2,845	2,830	1,617	1,884	6	6	4,100	4,450	4,100	4,200	7,608	7,711			

* Standard

Load Capacity



Dimensions



Specifications

Identification						
1.1	Manufacturer		Hyundai	Hyundai	Hyundai	Hyundai
1.2	Type		35DS-7E	40DS-7E	45DS-7E	50DA-7E
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas, manual		DIESEL	DIESEL	DIESEL	DIESEL
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated
1.5	Load capacity (standard)	kg	3,500	4,000	4,500	5,000
1.6	Load center distance	c mm	600	600	600	600
1.8	Load distance, center of drive axle to forks	x mm	561	561	561	576
1.9	Wheelbase	y mm	2,000	2,000	2,000	2,000
Weights						
2.1	Service weight (single tire / double tires)	kg	(5,894 / 6,049)	(6,377 / 6,464)	(6,791 / 6,880)	(7,213 / 7,302)
2.2	Axle loading, loaded front / rear (single tire / double tires)	kg	(8,371/1,024) / (8,526/1,024)	(9,204/1,173) / (9,291/1,173)	(9,999/1,292) / (10,088/1,292)	(10,839/1,373) / (10,928/1,373)
2.3	Axle loading, unloaded front / rear (single tire / double tires)	kg	(2,841/3,054) / (2,996/3,054)	(2,884/3,493) / (2,971/3,493)	(2,889/3,902) / (2,978/3,902)	(2,899/4,313) / (2,988/4,313)
Wheels, Chassis						
3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic
3.2	Tires size, front (single tire / double tires)		(8.25-15-14) / (7.50-16-12PR)	(300-15-18PR) / (7.50-16-12)	(300-15-18PR) / (7.50-16-12)	(300-15-18PR) / (7.50-16-12)
3.3	Tires size, rear		7.00-12-12	7.00-12-12	7.00-12-12	7.00-12-14
3.5	Wheels, number front / rear (X= driven wheels) (single tire / double tires)		(2x / 2) / (4x / 2)	(2x / 2) / (4x / 2)	(2x / 2) / (4x / 2)	(2x / 2) / (4x / 2)
3.6	Track width, front (single tire / double tires)	mm	(1,162 / 1,312)	(1,150 / 1,312)	(1,150 / 1,312)	(1,150 / 1,312)
3.7	Track width, rear	mm	1,140	1,140	1,140	1,140
Basic Dimensions						
4.1	Mast / fork carriage tilt forward / backward	degrees	8 / 10	8 / 10	8 / 10	8 / 10
4.2	Lowered mast height (standard)	h1 mm	2,235	2,220	2,220	2,220
4.3	Free lift	h2 mm	120	120	120	120
4.4	Lift height (standard)	h3 mm	3,000	3,000	3,000	2,900
4.5	Extended mast height (standard)	h4 mm	4,224	4,224	4,235	4,135
4.7	Overhead guard height (low opt/ std/ high opt)	h5 mm	2,210 / 2,240 / 2,340	2,210 / 2,240 / 2,340	2,210 / 2,240 / 2,340	2,210 / 2,240 / 2,340
4.8	Seat height / standing height	h7 mm	1,100	1,100	1,100	1,100
4.12	Coupling height	h10 mm	364	364	364	364
4.19	Overall length	l1 mm	4,140	4,195	4,405	4,450
4.20	Length to face of forks	l2 mm	3,070	3,125	3,185	3,250
4.21	Overall width (single tire / double tires)	b1 mm	(1,400 / 1,776)	(1,448 / 1,776)	(1,448 / 1,776)	(1,448 / 1,776)
4.22	Fork dimensions (hook type)	S x E x L mm	1,070 x 122 x 50	1,070 x 150 x 50	1,220 x 150 x 50	1,200 x 150 x 60
4.23	Fork carriage ISO 2328, class / type A, B		III/ A	III/ A	IV/ A	IV/ A
4.24	Fork carriage width	b12 mm	1,300	1,600	1,600	1,600
4.31	Ground clearance, loaded, under mast	m1 mm	170	155	155	155
4.32	Ground clearance, centre of wheelbase	m2 mm	215	200	200	200
4.33	Aisle width for pallets 1,000 x 1,200 crossways (L x W)	Ast mm	4,331	4,391	4,451	4,511
4.34	Aisle width for pallets 800 x 1,200 lengthways (W x L)	Ast mm	4,351	4,416	4,471	4,531
4.35	Turning radius	Wa mm	2,770	2,830	2,890	2,950
4.36	Smallest pivot point distance	b13 mm	996	996	996	996
Performance Data						
5.1	Travel speed, unloaded	km/h	27.1	26.1	26.1	26.0
5.2	Lift speed, loaded / unloaded	mm/s	520 / 580	520 / 580	520 / 580	450 / 470
5.3	Lowering speed, loaded / unloaded	mm/s	500 / 500	500 / 500	500 / 500	500 / 500
5.5	Drawbar pull, loaded	kg	3,773	3,859	3,842	3,867
5.7	Gradient performance, loaded / unloaded	%	38.7 / -	34.8 / -	31.8 / -	30.8 / -
5.9	Acceleration time, loaded / unloaded (10 m)		-	-	-	-
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Engine						
6.1	Engine manufacturer / type		Mitsubishi S6S-T	Mitsubishi S6S-T	Mitsubishi S6S-T	Mitsubishi S6S-T
6.2	Engine power acc. to ISO 1585	kW	67.7	67.7	67.7	67.7
6.3	Rated speed	1/min	2,300	2,300	2,300	2,300
6.4	No. of cylinder / cubic capacity	anz/cm ³	6 / 4,996	6 / 4,996	6 / 4,996	6 / 4,996
6.5	Fuel consumption acc. To VDI cycle	ℓ / h	3.5	3.7	3.9	3.9
Other Details						
8.1	Type of drive control		Torque Converter 2/2	Torque Converter 2/2	Torque Converter 2/2	Torque Converter 2/2
8.2	Operating pressure (System / attach)	bar	210 / 210	210 / 210	210 / 210	210 / 210
8.3	Hydraulic oil volume	ℓ	66	66	66	66
8.4	Sound level at driver's ear according to DIN 12053	db (A)	82	82	82	82

Contact your Hyundai dealer for more information. The machine shown may vary according to International standards. All US measurement rounded off to nearest pounds or inches. Materials and specifications are subject to change without notice.

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