

20D/25D/30D/33D-7E

DIESEL FORKLIFT TRUCKS Environmental - Friendly



FORKLIFT *Excellent* Model

20D|25D|30D|33D -76

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.



20D/25D/30D/33D **-**76



High Power & Performance

Powerful Engine

KUBOTA V3600 Engine

The market approved quality of the Kubota V3600 engine ensures an incomparable performance, durability and additional value to the machine.

48kW of the engine is more than enough to suit any work, with a standard as well as a special attachment equipped machine.

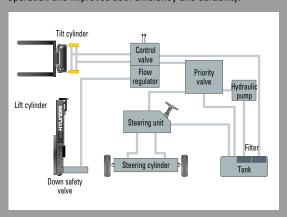
(EPA Int.Tier-4 / EU Stage IIIA Certified)

48 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.





during loading/unloading operations. When the truck is fully loaded, mast lowering speed is carefully controlled to ensure safety by the down control valve.



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) Travel speed (Unloaded) 20D-7E 43.1% 20D-7E 18.8 km/h 30D-7E 29.9% 19.7 km/h 25D-7E 37.3% 33D-7E 25D-7E 18.8 km/h 33D-7E 19.7 km/h 27.6%



Increased mast tilting angle

Utilizing the mast tilting angle of 6 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 righthand 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 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.



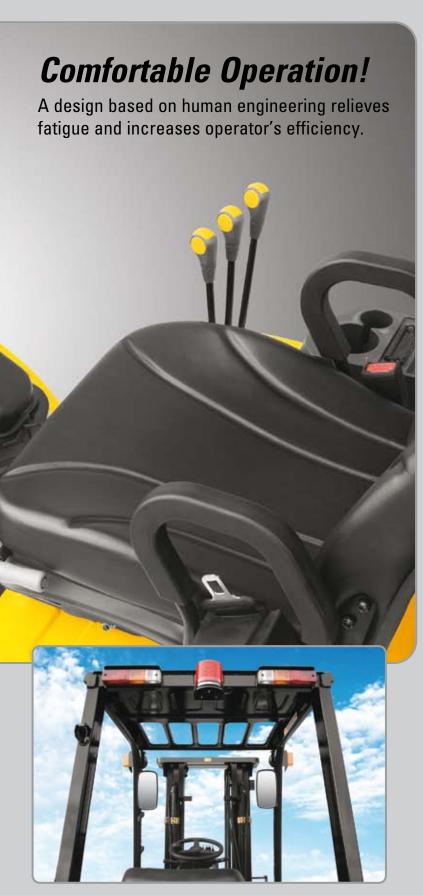
Ergonomically positioned pedals

Based on human engineering, the accelerator, brake and inching pedals are optimally positioned for operator's convenience.



Cup holder & console box

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



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



- Parking brake lamp
- 2 Directional indicators
- **3** Fuel warning lamp
- 4 Engine oil warning lamp
- Transmission oil temperature warning lamp
- **6** Battery warning lamp
- Air filter warning light
- 8 Working light indicator
- Water separator lamp
- Pre-heater indicator
- Water temperature gauge
- 1 Fuel gauge
- (B) Hour meter
- Engine check lamp
- (5) Seat belt warning
- OPSS warning

Easily adjustable suspension seat

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



Full-floating overhead guard

Anti-vibration rubbers, installed between the guard and truck frame, reduce the source of vibration 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

Rachet type parking brake requires less effort from the operator to set.





Highly durable split type drive axle

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



Large footstep & handle

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

OD/25D/30D/33D



Heavy duty single unit frame







Easy access to electrical components

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



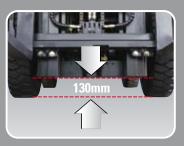
Expansion bellows

The expansion bellows absorbs vibration and reduces noise generated from the exhaust gas 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.



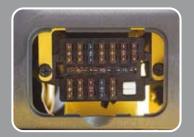
Easy maintenance oil check

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



Quick and easy engine oil check



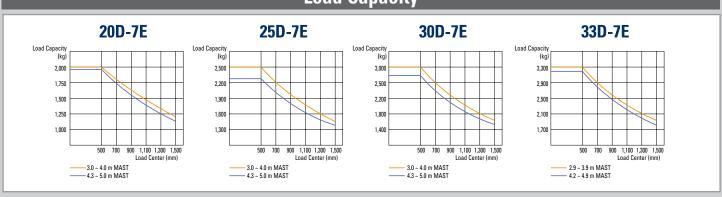
Key-locking fuel cap

Mast Specifications

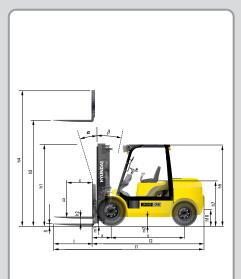
		Overall Height (Lowered)		Maximum Fork Height			Tilt Angle		Load Capacity without side shift at 500 mm LC (kg)					Load Capacity with side shift at 500 mm LC (kg)				Truck V Unloade										
Mast 1	уре	mm		(mm)			Without Backrest		(degree)		Single Tire		9	Double Tires		Single Tire		Double Tires		Single Tire		Double Tires						
		20/25D-7E	30D-7E	20/25/ 30/33D-7E	20/25D-7E	30D-7E	20/25D-7E	30D-7E	Fwd	Bwd	20D-7E	25D-7E	30D-7E	20D-7E	25D-7E	30D-7E	20D-7E	25D-7E	30D-7E	20D-7E	25D-7E	30D-7E	20D-7E	25D-7E	30D-7E	20D-7E	25D-7E	30D-7E
	V300	2,025	2,040	3,000	155	155	155	155	6	10	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	3,584	3,874	4,391	3,721	4,011	4,478
	*V330	2,175	2,190	3,300	155	155	155	155	6	10	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	3,604	3,894	4,411	3,740	4,030	4,498
	V350	2,275	2,290	3,500	155	155	155	155	6	10	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	3,621	3,911	4,429	3,757	4,047	4,516
2-	V370	2,425	2,440	3,700	155	155	155	155	6	10	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	3,643	3,933	4,452	3,779	4,069	4,539
Stage limited free lift	V400	2,575	2,590	4,000	155	155	155	155	6	10	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,475	2,950	2,000	2,500	2,975	3,673	3,963	4,483	3,809	4,099	4,570
	V430	2,725	2,740	4,300	155	155	155	155	6	6	2,000	2,450	2,925	2,000	2,500	3,000	1,950	2,400	2,875	2,000	2,450	2,925	3,725	4,015	4,536	3,861	4,151	4,622
	V450	2,875	2,890	4,500	155	155	155	155	6	6	2,000	2,400	2,875	2,000	2,475	2,950	1,930	2,350	2,825	2,000	2,400	2,875	3,747	4,037	4,558	3,883	4,173	4,645
	V470	2,975	2,990	4,700	155	155	155	155	6	6	2,000	2,350	2,825	2,000	2,450	2,900	1,900	2,325	2,750	2,000	2,375	2,825	3,761	4,051	4,573	3,897	4,187	4,660
	V500	3,125	3,140	5,000	155	155	155	155	6	6	1,970	2,300	2,775	2,000	2,400	2,850	1,850	2,275	2,700	1,950	2,350	2,775	3,783	4,073	4,596	3,919	4,209	4,683
2- Stage full	VF290	2,025	2,040	2,900	845	860	1,377	1,314	6	6	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	3,630	3,920	4,431	3,767	4,057	4,518
free lift	VF320	2,175	2,190	3,200	995	1,010	1,527	1,464	6	6	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000	3,664	3,954	4,467	3,801	4,091	4,553
	TF370	1,825	1,840	3,700	645	660	1,177	1,114	6	6	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,450	2,900	2,000	2,500	2,950	3,721	4,011	4,541	3,858	4,148	4,627
	TF400	1,925	1,940	4,000	745	760	1,277	1,214	6	6	2,000	2,450	2,900	2,000	2,500	2,975	1,950	2,400	2,850	2,000	2,450	2,900	3,745	4,035	4,565	3,882	4,172	4,651
	TF430	2,025	2,040	4,300	845	860	1,377	1,314	6	6	2,000	2,375	2,850	2,000	2,450	2,900	1,900	2,350	2,775	2,000	2,400	2,825	3,763	4,053	4,587	3,900	4,190	4,673
3-	TF450	2,125	2,140	4,500	945	960	1,477	1,414	6	6	2,000	2,350	2,800	2,000	2,425	2,850	1,875	2,325	2,725	1,950	2,350	2,775	3,785	4,075	4,613	3,922	4,212	4,699
Stage full	TF470	2,175	2,190	4,700	995	1,010	1,527	1,464	6	6	1,950	2,300	2,775	2,000	2,375	2,825	1,850	2,275	2,675	1,925	2,300	2,725	3,798	4,088	4,627	3,935	4,225	4,713
free lift	TF500	2,275	2,290	5,000	1,095	1,110	1,627	1,564	6	6	1,900	2,250	2,700	1,950	2,325	2,750	1,800	2,200	2,600	1,900	2,275	2,675	3,820	4,110	4,649	3,957	4,247	4,735
	TF550	2,475	2,490	5,500	1,295	1,310	1,827	1,764	6	6	1,825	1,800	2,600	1,875	2,250	2,650	1,725	1,700	2,525	1,825	2,200	2,575	3,860	4,150	4,694	3,997	4,287	4,780
	TF600	2,675	2,690	6,000	1,495	1,510	2,027	1,964	6	6	1,500	1,250	1,900	1,825	2,150	2,550	1,400	1,150	1,750	1,775	2,100	2,475	3,924	4,214	4,763	4,061	4,351	4,849
	TF650	2,875	2,890	6,500	1,695	1,710	2,227	2,164	3	3	1,450	1,200	1,850	1,750	2,050	2,450	1,350	1,000	1,700	1,700	2,000	2,375	3,971	4,261	4,814	4,108	4,398	4,900
	TF700	3,075	3,090	7,000	1,895	1,910	2,427	2,364	3	3	1,200	1,000	1,600	1,650	2,000	2,375	1,100	900	1,450	1,600	1,950	2,275	4,009	4,299	4,858	4,146	4,436	4,944

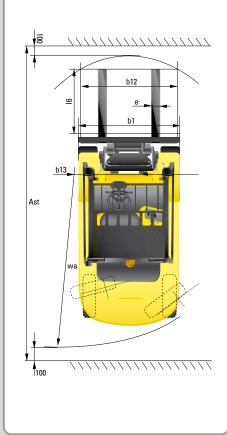
		Overall Height (Lowered)	Maximum Fork Height	Free Lift (mm)		Tilt Angle		Load Capa side shift at 5	city without 00 mm LC (kg)		acity with 00 mm LC (kg)	Truck Weight Unloaded (kg)		
Mast 1	Гуре	mm	(mm)	With Backrest	Without Backrest	(degree) Fwd Bwd		Single Tire	Double Tires	Single Tire	Double Tires	Single Tire	Double Tires 33D-7E	
		33D-7E	33D-7E	33D-7E	33D-7E			33D-7E	33D-7E	33D-7E	33D-7E	33D-7E		
	V290	2,040	2,900	155	155	6	10	3,300	3,300	3,300	3,300	4,799	4,890	
	*V320	2,190	3,200	155	155	6	10	3,300	3,300	3,300	3,300	4,823	4,914	
	V340	2,290	3,400	155	155	6	10	3,300	3,300	3,300	3,300	4,839	4,930	
2-	V360	2,440	3,600	155	155	6	10	3,300	3,300	3,300	3,300	4,862	4,953	
Stage limited	V390	2,590	3,900	155	155	6	10	3,300	3,300	3,300	3,300	4,894	4,985	
free lift	V420	2,740	4,200	155	155	6	6	3,300	3,300	3,275	3,300	4,948	5,039	
	V440	2,890	4,400	155	155	6	6	3,275	3,300	3,200	3,300	4,972	5,063	
	V460	2,990	4,600	155	155	6	6	3,225	3,300	3,150	3,250	4,987	5,078	
	V490	3,140	4,900	155	155	6	6	3,175	3,250	3,100	3,150	5,011	5,102	
2- Stage full	VF290	2,090	2,900	910	1,269	6	6	3,300	3,300	3,300	3,300	4,837	4,928	
free lift	VF320	2,240	3,200	1,060	1,419	6	6	3,300	3,300	3,300	3,300	4,873	4,964	
	TF370	1,890	3,700	710	1,069	6	6	3,300	3,300	3,300	3,300	4,980	5,071	
	TF400	1,990	4,000	810	1,169	6	6	3,275	3,300	3,200	3,300	5,002	5,093	
	TF430	2,090	4,300	910	1,269	6	6	3,200	3,300	3,150	3,225	5,023	5,114	
	TF450	2,190	4,500	1,010	1,369	6	6	3,150	3,250	3,075	3,175	5,045	5,136	
3- Stage full	TF470	2,240	4,700	1,060	1,419	6	6	3,100	3,200	3,025	3,125	5,058	5,149	
free lift	TF500	2,340	5,000	1,160	1,519	6	6	3,050	3,125	2,950	3,050	5,081	5,172	
	TF550	2,540	5,500	1,360	1,719	6	6	2,700	3,000	2,450	2,925	5,124	5,215	
	TF600	2,740	6,000	1,560	1,919	6	6	1,750	2,900	1,450	2,825	5,197	5,288	
	TF650	2,940	6,500	1,760	2,119	3	3	1,700	2,800	1,400	2,700	5,246	5,337	
	TF700	3,140	7,000	1,960	2,319	3	3	1,300	2,700	1,000	2,600	5,286	5,377	

Load Capacity



Dimensions





Specifications

iueiii	ification					
1.1	Manufacturer		Hyundai	Hyundai	Hyundai	Hyundai
1.2	Туре		20D-7E	25D-7E	30D-7E	33D-7E
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas, r	nanual	DIESEL	DIESEL	DIESEL	DIESEL
1.4	Type of operation: hand, pedestrian, standing, seated, ord	ler-picker	seated	seated	seated	seated
1.5	Load capacity (standard)	kg	2,000	2,500	3,000	3,300
1.6	Load center distance	c mm	500	500	500	500
1.8	Load distance, center of drive axle to forks	x mm	461	461	464	464
1.9	Wheelbase	y mm	1,650	1,650	1,700	1,700
Weig			,	7	,	7.5
2.1	Service weight (single tire / double tires)	kg	3,604 / 3,708	3,894 / 3,998	4,411 / 4,466	4,823 / 4,882
2.2	Axle loading, loaded front / rear (single tire / double tires)	kg	(4,847 / 757) / (4,992 / 716)	(5,579 / 815) / (5,726 / 773)	(6,450 / 961) / (6,544 / 922)	(6,885 / 1,238) / (6,985 / 1,19
2.3	Axle loading, unloaded front / rear (single tire / double tires)	kg			(1,748 / 2,663) / (1,836 / 2,630)	
	els, Chassis	n.y	(1,000 / 1,021 / (1,010 / 1,000)	(1,023 2,211 1,133 2,203	(1,740 / 2,000) / (1,000 / 2,000)	(1,713 / 3,110) / (1,000 / 3,0
3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane	1	pneumatic	pneumatic	pneumatic	pneumatic
3.2	Tire size, front (single tire / double tires)		7.00-12-12PR / 6.00-15-10PR	7.00-12-12PR / 6.00-15-10PR	7.00-12-12PR / 6.00-15-10PR	7.00-12-12PR / 6.00-15-10P
3.3	Tires size, rear		6.00 - 9 - 10PR	6.00 - 9 - 10PR	6.50 - 10 - 12PR	6.50 - 10 - 12PR
3.5	Wheels, number front / rear (X= driven wheels) (single tire		(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	965 / 1,152.50	965 / 1,152.50	1,005 / 1,152.50	1,005 / 1,152.50
3.7	Track width, rear	mm	980	980	980	980
Basic	Dimensions					
4.1	Mast / fork carriage tilt forward / backward	degrees	6 / 10	6 / 10	6 / 10	6 / 10
4.2	Lowered mast height (standard)	h1 mm	2,175	2,175	2,190	2,190
4.3	Free lift	h2 mm	155	155	155	155
4.4	Lift height (standard)	h3 mm	3,300	3,300	3,300	3,200
4.5	Extended mast height (standard)	h4 mm	4,485	4,485	4,485	4,385
4.7	Overhead load guard (cab) height	h5 mm	2,160	2,160	2,180	2,180
4.8	Seat height / standing height	h7 mm	1,086	1,086	1,106	1,106
4.12	Coupling height	h10 mm	306	306	330	330
4.19	Overall length	l1 mm	3,577	3,632	3,738	3,806
4.20	Length to face of forks	I2 mm	2,527	2,582	2,688	2,756
4.21	Overall width (single tire / double tires)	b1 mm	1,160 / 1,515	1,160 / 1,515	1,230 / 1,515	1,230 / 1,515
4.22	-	SxExL mm	1,050 x 100 x 45	1,050 x 100 x 45	1,050 x 125 x 45	1,050 x 125 x 45
4.23	Fork carriage ISO 2328, class / type A, B		II/ A	II/ A	II/ A	II/ A
4.24	Fork carriage width	b12 mm	1,084	1,084	1,084	1,084
4.31	Ground clearance, loaded, under mast	m1 mm	114	108	118	115
4.32	Ground clearance, centre of wheelbase	m2 mm	185	185	198	198
4.33	Aisle width for pallets 1,000 x 1,200 crossways (L x W)	Ast mm	3,913	3,961	4,057	4,119
4.34	Aisle width for pallets 800 x 1,200 lengthways (W x L)	Ast mm	4,113	4,161	4,257	4,319
		Wa mm	2,252	2,300	2,393	2,455
4.35	Turning radius	b13 mm	· ·	· · · · · · · · · · · · · · · · · · ·	·	
4.36	Smallest pivot point distance	וווווו פוע	698	698	724	724
	rmance Data	I /I.	10.0	10.0	10.7	10.7
5.1	Travel speed, unloaded	km/h	18.8	18.8	19.7	19.7
5.2	Lift speed, loaded / unloaded	mm/s	560 / 590	540 / 590	480 / 500	470 / 500
5.3	Lowering speed, loaded / unloaded	mm/s	500 / 450	500 / 450	500 / 450	500 / 450
5.5	Drawbar pull, loaded	kg	2,519	2,541	2,415	2,428
5.7	Gradient performance, loaded / unloaded	%	43.1 / 24.9	37.3 / 22.2	29.9 / 21.0	27.6 / 19.6
5.9	Acceleration time, loaded / unloaded (10 m)		NA	NA	NA	NA
5.10	Service brake		hydraulic	hydraulic	hydraulic	hydraulic
Engin	ne .					
6.1	Engine manufacturer / type		KUBOTA V3600	KUBOTA V3600	KUBOTA V3600	KUBOTA V3600
6.2	Engine power acc. to ISO 1585	kW	48	48	48	48
6.3	Rated speed	1/min	2,300	2,300	2,300	2,300
6.4	No. of cylinder / cubic capacity	anz/cm³	4 / 3,620	4 / 3,620	4 / 3,620	4 / 3,620
6.5	Fuel consumption acc. To VDI cycle	ℓ /h	2.1	2.2	2.5	2.8
	r Details					
8.1	Type of drive control		power shift	power shift	power shift	power shift
8.2	Operating pressure (system / attach)	bar	205 / 170	205 / 170	205 / 170	205 / 170
8.3	Hydraulic oil volume	l l	30	30	30	30
				80	80	80

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.

HYUNDAI MATERIAL HANDLING HEAVY INDUSTRIES CO.,LTD.

Head Office(Sales Office)

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PLEASE CONTACT