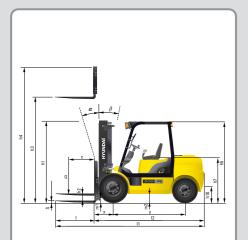
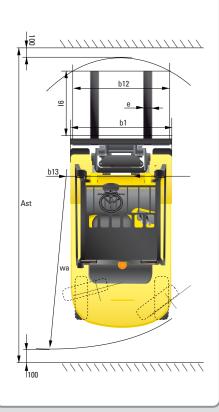
#### **Dimension**





#### **Specification** 1.1 Manufacturer 1.2 Manufacturer's type designation 20D-7E 25D-7E 30D-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 1.5 Load capacity / rated load 4.000 5.000 6.000 6.500 1.6 Load center distance 1.8 Load distance, center of drive axle to fork 18.3 18.1 18.1 18.3 x(in) 1.9 Wheelbase y(in) 65 67 67 2.1 Service weight lb 7,945 8.585 9.725 10 633 2.2 Axle loading, loaded front/rear 10,685 / 1,669 12,300 / 1,797 14,220 / 2,119 15,179 / 2,729 2.3 Axle loading, unloaded front/rear 3 578 / 5 007 3 777 / 6 856 3.710 / 4.235 3 854 / 5 871 Wheels, Chassis 3.1 Tires:solid rubber, superelastic, pneumatic, polyurethane pneumatic pneumatic pneumatic pneumatic 7.00-12-12PR 28x9-15-14PR 28x9-15-14PR 3.2 Tires size, front(Φx width) 6.00-9-10PR 6.00-9-10PR 6.50-10-12PR 6.50-10-12PR 3.3 Tires size, rear(Φx width) x2/2 x2/2 x2/2 3.5 Wheels, number front x rear (x=driven wheels) 3.6 Track width, front 38 3.7 Track width, rear 4.1 Mast / fork carriage tilt forward / backward $(\alpha/\beta)$ 6 / 10 6 / 10 6 / 10 6 / 10 degrees 4.2 Lowered mast height 85.6 85.6 86.2 86.2 h1 (in) 4.3 Free lift h2 (in) 6.1 6.1 6.1 4.4 Lift height h3 (in) 130 130 130 126 4.5 Extended mast height 177 177 177 173 h4 (in) 4.7 Overhead load guard (cab) height h5 (in) 85 86 4.8 Seat height / standing height 43.5 43.5 h7 (in) 4.12 Coupling height h10 (in) 13 4.19 Overall length 141 143 147.2 11 (in) 4.20 Length to face of forks 12 (in) 99 102 106 109 4.21 Overall width b1 (in) 4.22 Fork dimensions(hook type) s/e/l(in) 41x4x18 41x4x18 41x5x1.8 41x5x1.8 4.23 Fork carriage ISO 2328, class / type A,B 2A 2A 4.24 Fork-carriage width b12 (in) 42.7 42.7 42.7 42.7 4.31 Ground clearance, loaded, under mast 4.6 m1(in) 4.32 Ground clearance, centre of wheelbase m2(in) 7.3 7.3 7.8 7.8 4.33 Aisle width for pallets 1,000x1,200 crossways (LxW) 156 160 Ast(in) 4.34 Aisle width for pallets 800x1,200 lengthways (WxL) 162 164 168 170 4.35 Turning radius 88.7 Wa(in) 27.5 27.5 28.5 28.5 4.36 Smallest pivot point distance b13(in) Performance Data 5.1 Travel speed, unloaded mph 11.7 11.7 12.2 12.2 5.2 Lift speed, loaded/ unloaded 110/116 106 / 116 94/98 92 / 98 ft/min 5.3 Lowering speed, loaded/unloaded ft/min 98 / 88 98 / 88 98 / 88 98 / 88 5.5 Drawbar pull, loaded 5,553 5,602 5,324 5,353 5.7 Gradient performance, loaded/ unloaded 37.3 / 22.2 % 43.1 / 24.9 29.9 / 21.0 27.6 / 19.6 5.9 Acceleration time, loaded/ unloaded(10m) NA 5.10 Service brake FOOT FOOT FOOT FOOT 6.1 Engine manufacturer / type KUBOTA V3600 KUBOTA V3600 KUBOTA V3600 KUBOTA V3600 6.2 Engine power acc. to ISO 1585 kW 6.3 Rated speed 1/min 2.300 2.300 2.300 2.300 6.4 No. of cylinder / cubic capacity 4/3,620 4/3,620 anz/cm² 4/3,620 4/3,620 6.5 Fuel consumption acc. To VDI cycle ℓ /h 21 2.2 2.5 2.8

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 inchs.

8.1 Type of drive control

8.3 Oil volume

8.4 Noise

8.2 Operating pressure (main / secondary)



1 JEONHA-DONG, DONG-GU, ULSAN, KOREA Tel (82) (52) 202-7970, 7729, 0971 Fax (82) (52) 202-7979, 7720

U.S. Operation : Hyundai Construction Equipment U.S.A., Inc. 955 ESTES AVENUE, ELK GROVE VILLAGE IL.,60007 Tel (1) 847-437-3333 Fax (1) 847-437-3574

European Operation: Hyundai Heavy Industries Europe N.V.

VOSSENDAAL 11, 2440 GEEL, BELGIUM Tel (32) 14-56-2200 Fax (32) 14-59-3405

TALUK.- KHED., DIST.- PUNE 410 501, INDIA Tel (91) 21-3530-1700 Fax (91) 21-3530-1712

India Operation: Hyundai Construction Equipment India Pyt., Ltd PLOT NO.A-2. CHAKAN INDUSTRIAL AREA. VILL.- KHALUMBRE.

PLEASE CONTACT

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

**FORKLIFT TRUCKS Environmentally - Friendly** 



# FORKLIFT Excellent Model





# High Power 👺 Performance

#### **Powerful Engine**

## KUBOTA V3500 Engine

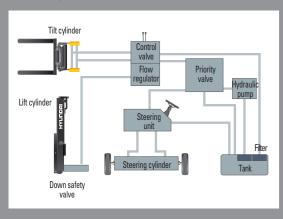
Market approved quality of Kubota V3600 engine ensures incomparable performance, durability and additional value to the machine. 48kW of the engine is more than enough to suit any work, not just with normal 48kW but with special attachments requiring high power as well.(EPA Int.Tier-4 / EC Stage III A Certified)

# 48kW/2,300rpm



#### **State-of-the-art hydraulic system**

The latest large-capacity hydraulic system reacts quickly during operation, and a low-noise control valve increases both efficiency and durability.





# performance

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

#### Faster travel speed & gradeability

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





#### **Increased mast tilting angle**

The mast tilting angle of 6 degrees forward and 10 degrees backward, the operator can safely and rapidly perform loading and unloading jobs.



#### Wet disc brake system

The wet disc brake system is virtually maintenance free and is enclosed to protect from dust and water.



#### **Fully hydrostatic power steering**

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



#### **OPSS** (Operator Presence **Sensing System**)

Control of mast tilting, lifting and lowering is not possible through operation of the appropriate control when the operator is not in the normal position.(Option)

### **Comfortable Operation**



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, easy control of direction.



#### **Multi-function switch lever**

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.



### **Ergonomically positioned pedals**

Based on human engineering, the accelerator, brake and inching pedals are optimally positioned for convenience while operating the equipment.



### **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

### **Operator friendly gauges and water**resistant monitor panel



- Parking brake lamp
- ② Directional indicators
- **❸** Fuel warning lamp
- 4 Engine oil warning lamp
- **(a)** Battery charging warning lamp
- Air cleaner filter warning light Working light indicator
- Water separator lamp
- **®** Pre-heater indicator **1** Water temperature gauge
- Pruel gauge
- (B) Hour meter
- Engine check lamp (5) Seat belt warning
- - **®** OPS warning

#### **Easily adjustable suspension seat**

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



### **Full floating overhead guard mount**

The anti-vibration rubber is installed between the guard and truck frame to reduce the source of vibration and noise while driving. This not only reduces operator's fatigue but also increases safety.





### Endurance & Safety

#### **Strong overhead guard**

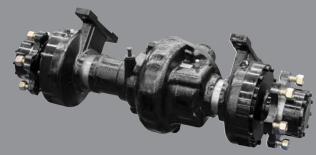
The safety overhead guard exceeds EEC and ANSI regulations and protects the operator during hazardous jobs.



#### **Parking brake**

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





# Highly durable split type drive axle

Powershift transmission provides fast travel speed and quiet travel under any heavy load condition, and boosts work efficiency.



### Large footboard & hand grip

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





# Easy access of electrical Components

Various electric parts are centralized in dash board resulting in improvement in maintenace



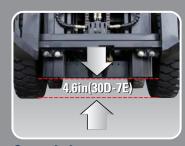
#### **Expansion bellows**

The expansion bellows absorbs vibration and reduces noise generated from the exhaust gas system and also extends the life cycle of exhaust gas system.



### **Bright, protected headlights**

Bright, protected headlights is positioned for exceptional visibility.



#### **Ground clearance**

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

 $_{-}$  08

# Durability **Easy** Maintenance



# **Electrically monitored** air filter

Air cleaner sensor alerts the operator of a restricted air filter and allows replacement before damage.



**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 component parts ensures easy access and convenience for maintenance.



Easy change air cleaner

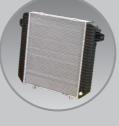
The air filter is readily accessible for cleaning or replacement. (7inch Cyclone Type)



Portable side cover



Rotational battery installation



Aluminum radiator with superb protection against heat



Quick and easy engine oil check



Key-locking fuel cap

													Mas	st Sp	ecif	icati	on											
Most	Overall Height Maximum Free Lift Height Fork Height					Ti An		Load Capacity w							Load Capacity w / side shift at 24 in LC					Truck Weight Unload								
Mast Type in			in	With	bkr (in)	With / o	bkr (in)	de	eg	Sir	ngle Tire (	lb)	Do	uble Tire	(lb)	Si	ingle Tire (	(lb)	Do	uble Tire	(lb)	S	ingle Tire (I	b)	Do	uble Tire (	b)	
		20/25D-7E	30D-7E	20/25/ 30D-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	79.7	80.3	118.1	6.1	6.1	6.1	6.1	6	10	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	7,902	8,541	9,681	8,202	8,842	9,872
	*V330	85.6	86.2	129.9	6.1	6.1	6.1	6.1	6	10	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	7,945	8,585	9,725	8,246	8,885	9,916
	V350	89.6	90.2	137.8	6.1	6.1	6.1	6.1	6	10	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	7,983	8,622	9,765	8,283	8,922	9,955
2-Stage	V370	95.5	96.1	145.7	6.1	6.1	6.1	6.1	6	10	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	8,031	8,671	9,815	8,332	8,971	10,006
limited	V400	101.4	102.0	157.4	6.1	6.1	6.1	6.1	6	10	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	5,950	4,000	5,000	6,000	8,097	8,737	9,883	8,398	8 9,037	10,074
free lift	V430	107.3	107.9	169.3	6.1	6.1	6.1	6.1	6	6	4,000	5,000	5,950	4,000	5,000	6,000	4,000	4,960	5,840	4,000	5,000	5,950	8,212	8,851	9,999	8,512	9,151	10,190
	V450	113.2	113.8	177.2	6.1	6.1	6.1	6.1	6	6	4,000	4,900	5,840	4,000	5,070	6,000	4,000	4,850	5,730	4,000	4,960	5,840	8,260	8,899	10,049	8,560	9,200	10,240
	V470	117.1	117.7	185.0	6.1	6.1	6.1	6.1	6	6	4,000	4,850	5,730	4,000	4,960	5,890	4,000	4,790	5,620	4,000	4,900	5,780	8,292	8,931	10,082	8,592	9,231	10,273
	V500	123.0	123.6	196.9	6.1	6.1	6.1	6.1	6	6	4,000	4,740	5,620	4,000	4,850	5,780	3,960	4,680	5,510	4,000	4,790	5,620	8,340	8,980	10,133	8,641	9,280	10,324
2-Stage	VF290	79.7	80.3	115.4	33.3	33.9	54.2	51.7	6	6	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	8,003	8,643	9,770	8,305	8,945	9,960
full free lift	VF320	85.6	86.2	127.2	39.2	39.8	60.1	57.6	6	6	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	6,000	8,077	8,716	9,847	8,379	9,018	10,037
	TF370	71.9	72.4	145.7	25.4	26.0	46.3	43.9	6	6	4,000	5,000	6,000	4,000	5,000	6,000	4,000	5,000	5,950	4,000	5,000	6,000	8,203	8,842	10,011	8,505	9,144	10,201
	TF400	75.8	76.4	157.4	29.3	29.9	50.3	47.8	6	6	4,000	5,000	5,890	4,000	5,000	6,000	4,000	4,960	5,780	4,000	5,000	5,890	8,256	8,895	10,065	8,558	9,197	10,254
	TF430	79.7	80.3	169.3	33.3	33.9	54.2	51.7	6	6	4,000	4,900	5,780	4,000	5,000	5,950	4,000	4,850	5,670	4,000	4,900	5,780	8,295	8,935	10,113	8,597	9,237	10,303
3-Stage	TF450	83.7	84.3	177.2	37.2	37.8	58.1	55.7	6	6	4,000	4,790	5,670	4,000	4,900	5,840	4,000	4,740	5,560	4,000	4,850	5,670	8,344	8,983	10,169	8,646	9,285	10,359
full free lift	TF470	85.6	86.2	185.0	39.2	39.8	60.1	57.6	6	6	4,000	4,740	5,560	4,000	4,850	5,730	3,960	4,680	5,510	4,000	4,740	5,620	8,373	9,013	10,201	8,675	9,315	10,390
	TF500	89.6	90.2	196.9	43.1	43.7	64.1	61.6	6	6	3,910	4,630	5,450	4,000	4,740	5,620	3,850	4,570	5,340	3,910	4,630	5,510	8,422	9,062	10,250	8,724	9,364	10,440
	TF550	97.4	98.0	216.5	51.0	51.6	71.9	69.4	6	6	3,740	3,968	5,340	3,850	4,570	5,400	3,690	3,850	5,180	3,740	4,460	5,290	8,509	9,148	10,347	8,811	9,450	10,537
	TF600	105.3	105.9	236.2	58.9	59.4	79.8	77.3	6	6	3,307	2,756	4,189	3,630	4,400	5,230	3,250	2,640	4,290	3,580	4,290	5,070	8,651	9,291	10,501	8,953	9,593	10,691

Mast Type		Overall Height Maximum Lowered Fork Height		Free Lift Height			ilt igle	Load Capacity at 24	w / o side shift in LC	Load Capacity at 24		Truck Weight Unload		
IVIASL	туре	in	in	With bkr (in)	With / o bkr (in)	deg		Single Tire (lb)	Double Tire (lb)	Single Tire (lb)	Double Tire (lb)	Single Tire (lb)	Double Tire (lb)	
		33D-7E	33D-7E	33D-7E	33D-7E	Fwd	Bwd	33D-7E	33D-7E	33D-7E	33D-7E	33D-7E	33D-7E	
2-Stage	V290	80.3	115.4	6.1	6.1	6	10	6,500	6,500	6,500	6,500	10,580	10,781	
	*V320	86.2	127.2	6.1	6.1	6	10	6,500	6,500	6,500	6,500	10,632	10,833	
	V340	90.2	133.9	6.1	6.1	6	10	6,500	6,500	6,500	6,500	10,667	10,868	
	V360	96.1	141.7	6.1	6.1	6	10	6,500	6,500	6,500	6,500	10,720	10,920	
limited	V390	102.0	153.5	6.1	6.1	6	10	6,500	6,500	6,500	6,500	10,790	10,991	
free lift	V420	107.9	165.4	6.1	6.1	6	6	6,500	6,500	6,500	6,500	10,908	11,109	
	V440	113.8	173.2	6.1	6.1	6	6	6,500	6,500	6,500	6,500	10,960	11,161	
	V460	117.7	181.1	6.1	6.1	6	6	6,500	6,500	6,440	6,500	10,995	11,196	
	V490	123.6	192.9	6.1	6.1	6	6	6,440	6,500	6,330	6,500	11,048	11,248	
2-Stage	VF290	82.3	115.4	35.8	50.0	6	6	6,500	6,500	6,500	6,500	10,664	10,865	
full free lift	VF320	88.2	127.2	41.7	55.9	6	6	6,500	6,500	6,500	6,500	10,742	10,943	
	TF370	74.4	145.7	28.0	42.1	6	6	6,500	6,500	6,500	6,500	10,978	11,179	
	TF400	78.3	157.4	31.9	46.0	6	6	6,500	6,500	6,500	6,500	11,027	11,228	
	TF430	82.3	169.3	35.8	50.0	6	6	6,500	6,500	6,390	6,500	11,073	11,274	
3-Stage	TF450	86.2	177.2	39.8	53.9	6	6	6,440	6,500	6,280	6,500	11,121	11,322	
full free lift	TF470	88.2	185.0	41.7	55.9	6	6	6,330	6,500	6,220	6,390	11,151	11,351	
	TF500	92.1	196.9	45.7	59.8	6	6	6,220	6,390	6,110	6,280	11,200	11,401	
	TF550	100	216.5	53.5	67.7	6	6	5,952	6,170	6,000	6,000	11,297	11,498	
	TF600	107.9	236.2	61.4	75.6	6	6	3,858	5,950	3,520	5,780	11,457	11,657	

### **Load Capacity**

