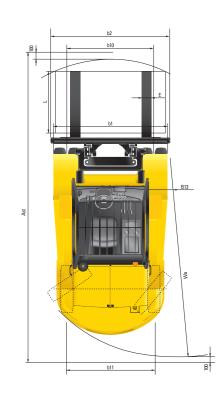
Dimension





Specification

dent	ification				
1.1	Manufacturer		Hyundai	Hyundai	Hyundai
1.2	Manufacturer's type designation		50DS-7E	60DS-7E	70DS-7E
1.3	Drive: electric (battery or mains),diesel,petrol,fuel gas	manual	DIESEL	DIESEL	DIESEL
1.4	Type of operation:hand,pedestrian,standing,seated,or		seated	seated	seated
1.5	Load capacity / rated load	kg	5,000	6,000	7,000
1.6	Load center distance	c(mm)	600	600	600
			605	615	615
1.8	Load distance, center of drive axle to fork	x(mm)	2,300	2300	2,300
1.9	Wheelbase	y(mm)	2,300	2,300	2,300
Neig			0.000	0.245	0.071
2.1	Service weight	kg	8,602	9,245	9,871
2.2	Axle loading, loaded front/rear	kg	12,046 / 1,556	13,573 / 1,673	14,964 / 1,907
2.3	Axle loading, unloaded front/rear	kg	4,404 / 4,198	4,403 / 4,842	4,266 / 5,605
Nhe	els, Chassis				
3.1	Tires:solid rubber, superelastic, pneumatic, polyt	urethane	pneumatic	pneumatic	pneumatic
3.2	Tires size, front(ϕ x width)		8.25-15-14	8.25-15-14	8.25-15-14
3.3	Tires size, rear(<i>Φ</i> x width)		8.25-15-14	8.25-15-14	8.25-15-14
3.5	Wheels, number front x rear (x=driven wheels)		4x/2	4x/2	4 x / 2
3.6	Track width, front	mm	1,580	1,580	1,580
3.7	Track width, rear	mm	1,604	1,604	1,604
Basio	Dimensions				
1.1	Mast / fork carriage tilt forward / backward ($lpha$ / eta)	degrees	15 / 10	15/10	15 / 10
1.2	Lowered mast height	h1 (mm)	2,515	2,515	2,515
1.3	Free lift	h2 (mm)	140	140	140
1.4	Lift height	h3 (mm)	3,030	3,030	3,030
1.5	Extended mast height	h4 (mm)	4,275	4,275	4,275
1.7	Overhead quard height	h5 (mm)	2,500	2,500	2,500
1.8	Seat height / standing height	h7 (mm)	1,395	1,395	1,395
.12	Coupling height	h10 (mm)	425	425	425
.12	Overall length	I1 (mm)	4,700	4,765	4,820
.13	Length to face of forks	12 (mm)	3,500	3,565	3,620
.20	Overall width	b1 (mm)	2,268 / 2,068	2,268 / 2,087	2,268 / 2,087
-					
.22		/ e / I (mm)	60 x 150 x 1,200 Class IV	65 x 150 x 1,200 Class IV	65 x 150 x 1,200 Class IV
.23	Fork carriage ISO 2328, class / type A,B	10()			
.24	Fork-carriage width	b3 (mm)	2,087	2,087	2,087
.31	Ground clearance, loaded, under mast	m1(mm)	195	195	195
.32	Ground clearance, centre of wheelbase	m2(mm)	220	220	220
.33	Aisle width for pallets 1,000x1,200 crossways (LxW)	Ast(mm)	5,075	5,130	5,175
.34	Aisle width for pallets 800x1,200 lengthways (WxL)	Ast(mm)	5,275	5,330	5,375
.35	Turning radius	Wa(mm)	3,270	3,315	3,360
.36	Smallest pivot point distance	mm	1,190	1,190	1,190
Perfo	rmance Data				
5.1	Travel speed, unloaded	km/h	35.5	35.4	35.2
5.2	Lift speed, loaded / unloaded	mm/s	450 / 480	440 / 480	430 / 480
5.3	Lowering speed, loaded / unloaded	mm/s	500 / 450	500 / 450	500 / 450
5.5	Drawbar pull, loaded	kg	5,910	5,935	5,962
5.7	Gradient performance, loaded / unloaded	%	46.2	40.7	36.5
5.9	Acceleration time, loaded / unloaded(10m)		-	-	-
.10	Service brake		FOOT (Hydraulic)	FOOT (Hydraulic)	FOOT (Hydraulic
ngir					
5.1	Engine manufacturer / type		MHI S6S-T	MHI S6S-T	MHI S6S-T
	Engine power acc. to ISO 1585	kW	67.7	67.7	67.7
6.2	Rated speed	1/min	2,300	2,300	2,300
			4,996	4,996	4,996
6.3	·	cm [∠]		1,000	7,000
6.3 6.4	No. of cylinder / cubic capacity	cm ²		5.2	5.4
6.3 6.4 6.5	No. of cylinder / cubic capacity Fuel consumption acc. To VDI cycle	cm² ℓ/h	5.2	5.3	5.4
6.2 6.3 6.4 6.5 Othe	No. of cylinder / cubic capacity			5.3	5.4
6.3 6.4 6.5	No. of cylinder / cubic capacity Fuel consumption acc. To VDI cycle			5.3 Full Auto	5.4 Full Auto
6.3 6.4 6.5 Othe	No. of cylinder / cubic capacity Fuel consumption acc. To VDI cycle or Details Type of drive control	ℓ /h	5.2 Full Auto	Full Auto	Full Auto
6.3 6.4 6.5 Othe	No. of cylinder / cubic capacity Fuel consumption acc. To VDI cycle r Details		5.2		



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www.hyundai-ce.com

2009. 09. Rev 1



50/60/70DS-7E

FORKLIFT TRUCKS Environmentally - Friendly









High Power & Performance

Powerful Engine

The six cylinders turbo-charged engine is built for power,

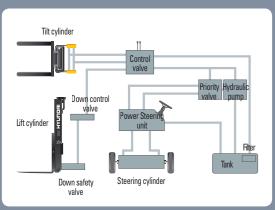
reliability and economy. This engine meets EPA tier III and EU stage IIIA emission regulations.

67.7kW/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.





Fast and stable performance

Being able to quickly raise and lower the mast, as well as tilt it forward and backward, providing 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.

Gradeability(Loaded) 50DS-7E **46.2**% 60DS-7E 40.7% 36.5%

Travel speed(Unloaded)

50DS-7E 35.5km/h 35.4km/h 35.2km/h





Increased mast tilting angleThe mast tilting angle of 15 degrees forward and 10 degrees backward, the operator can safely and rapidly perform loading and unloading jobs.



Wet disc brake system(Option)

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



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 controls of the 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 mast.

Operator friendly gauges and waterresistant monitor panel



- Parking brake lamp
- Directional indicators
- Fuel warning lamp
- Engine oil warning lampBattery charging warning

- Pre-heater indicator
- Water temperature gauge
- Fuel gauge
- Hour meter Seat belt warning
- OPS warning
- Working light indicator
- Water separator lamp

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.



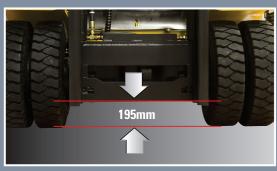
Parking brake

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



Ground clearance

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



Highly durable split type drive axle

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







Easy access of electrical Components

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



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.



Fuel tank safety valve

Integrated safety check valve shuts off fuel supply in the unlikely condition of a truck overturn.





Bright, protected headlights and rear working light

Bright, protected headlights and rear working light are positioned for exceptional visibility.

Durability Easy Maintenance



Electrically monitored air filter

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



Visible precleaner

Efficient, accessible pre-cleaner provides for longer engine life.



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 accesses and conveniences for the maintenance.





Easy change air cleaner
The air filter is readily accessible for cleaning or replacement.



■ Some of the photos may include optional equipment.



Large open engine hood

Highly accessible engine compartment assures fast and efficient maintenance.



Engine oil condition check



Easy-to-access reservoir tank



Maintenance free battery



Easy-to-change radiator



Mechanic friendly fuel filter replacement

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Specification

Mast Specification

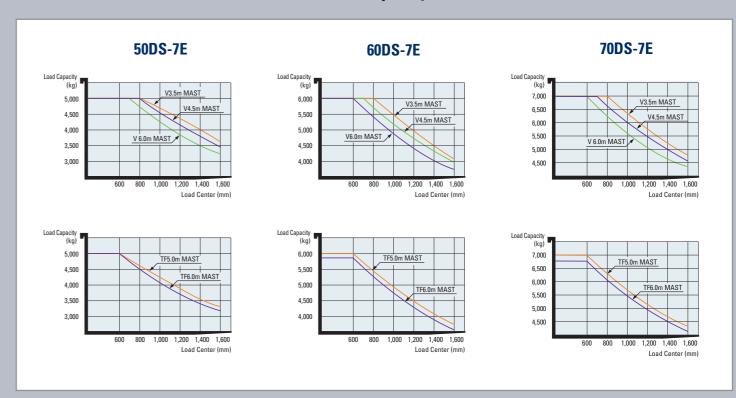
Model	Mast Type Maximum Fork Height (mm)			Overall Height(mm)			Free Lift (mm)		Tit. A I				
					Exte	nded	Maria and and	With Std Load	Tilt Angle (deg)		٠ ٣٠	Load Capacity with side shift at 600mm LC(kg)	Truck Weight (Unloaded)(kg)
			Lowered	W/o Load Backrest	W/Std Load Backrest	Backrest	Backrest		Bwd				
		V270	2,730	2,365	3,691	4,020	140	140	15	10	5,000	5,000	8,555
		*V300	3,030	2,515	3,991	4,320	140	140	15	10	5,000	5,000	8,602
	2 Stage limited free lift	V330	3,330	2,665	4,291	4,620	140	140	15	10	5,000	5,000	8,650
		V350	3,530	2,765	4,491	4,820	140	140	15	10	5,000	5,000	8,682
		V370	3,730	2,865	4,691	5,020	140	140	15	10	5,000	5,000	8,714
		V400	4,030	3,015	4,991	5,320	140	140	15	10	5,000	5,000	8,770
FODC 3F		V450	4,530	3,315	5,491	5,820	140	140	15	10	5,000	5,000	8,997
50DS-7E		V500	5,030	3,565	5,991	6,320	140	140	15	10	5,000	5,000	9,077
		V550	5,530	3,815	6,491	6,820	140	140	15	10	5,000	5,000	9,156
		V600	6,030	4,065	6,991	7,320	140	140	15	10	5,000	4,950	9,235
	3 Stage	TF450	4,560	2,565	5,545	5,805	1,580	1,275	15	10	5,000	5,000	9,189
		TF500	5,060	2,765	6,045	6,305	1,780	1,475	15	10	5,000	5,000	9,281
	free lift	TF560	5,600	2,965	6,585	6,845	1,980	1,675	15	10	5,000	4,850	9,392
	oo iiit	TF600	6,060	3,165	7,045	7,305	2,180	1,875	15	10	5,000	4,700	9,479

			Maximum i ype Fork Height	Overall Height(mm)			Free Lift(mm)						
Model				Lowered	Extended		\\/:4h =4 = = 4	With Std Load	Tilt Angle (deg)		Load Capacity without	Load Capacity with	Truck Weight
			(mm)		W/o Load Backrest	W/Std Load Backrest	Backrest	Backrest		Bwd	-	side shift at 600mm LC(kg)	(Unloaded)(kg)
		V270	2,730	2,365	3,911	4,020	140	140	15	10	6,000	6,000	9,197
		*V300	3,030	2,515	4,211	4,320	140	140	15	10	6,000	6,000	9,245
	2 Stage limited free lift	V330	3,330	2,665	4,511	4,620	140	140	15	10	6,000	6,000	9,292
		V350	3,530	2,765	4,711	4,820	140	140	15	10	6,000	6,000	9,324
		V370	3,730	2,865	4,911	5,020	140	140	15	10	6,000	6,000	9,356
		V400	4,030	3,015	5,211	5,320	140	140	15	10	6,000	6,000	9,412
CODE TE		V450	4,530	3,315	5,711	5,820	140	140	15	10	6,000	6,000	9,640
60DS-7E		V500	5,030	3,565	6,211	6,320	140	140	15	10	6,000	5,950	9,719
		V550	5,530	3,815	6,711	6,820	140	140	15	10	6,000	5,750	9,799
		V600	6,030	4,065	7,211	7,320	140	140	15	10	6,000	5,600	9,877
	3 Stage	TF450	4,560	2,565	5,765	5,805	1,360	1,275	15	10	6,000	5,850	9,848
		TF500	5,060	2,765	6,265	6,305	1,560	1,475	15	10	6,000	5,650	9,940
	free lift	TF560	5,600	2,965	6,805	6,845	1,760	1,675	15	10	5,950	5,500	10,051
	iioo iiit	TF600	6,060	3,165	7,265	7,305	1,960	1,875	15	10	5,800	5,350	10,139

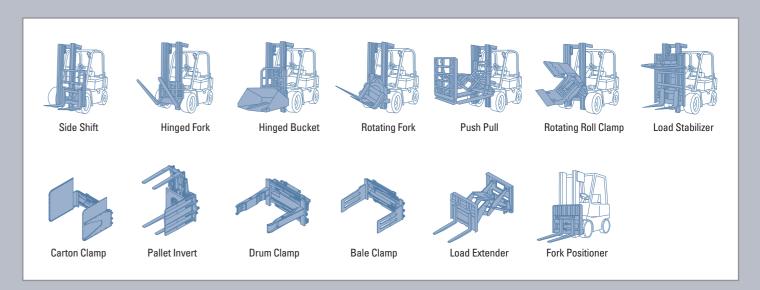
	Mast Type			0	Overall Height(mm)		Free Lift(mm)		TI. A. I				
Model			Pe Maximum Fork Height (mm)		Extended			MC-1 O-11	Tilt Angle (deg)		Load Capacity without	Load Capacity with	Truck Weight
				Lowered	W/o Load Backrest	W/Std Load Backrest	Backrest	With Std Load Backrest	Fwd		side shift at 600mm LC(kg)	side shift at 600mm LC(kg)	(Unloaded)(kg)
	2 Stage limited free lift	V270	2,730	2,365	3,911	4,020	140	140	15	10	7,000	7,000	9,823
		*V300	3,030	2,515	4,211	4,320	140	140	15	10	7,000	7,000	9,871
		V330	3,330	2,665	4,511	4,620	140	140	15	10	7,000	7,000	9,918
		V350	3,530	2,765	4,711	4,820	140	140	15	10	7,000	7,000	9,950
		V370	3,730	2,865	4,911	5,020	140	140	15	10	7,000	7,000	9,982
		V400	4,030	3,015	5,211	5,320	140	140	15	10	7,000	7,000	10,038
7000 75		V450	4,530	3,315	5,711	5,820	140	140	15	10	7,000	7,000	10,266
70DS-7E		V500	5,030	3,565	6,211	6,320	140	140	15	10	7,000	6,850	10,345
		V550	5,530	3,815	6,711	6,820	140	140	15	10	7,000	6,650	10,425
		V600	6,030	4,065	7,211	7,320	140	140	15	10	7,000	6,500	10,503
	3 Stage	TF450	4,560	2,565	5,765	5,805	1,360	1,275	15	10	7,000	6,750	10,474
		TF500	5,060	2,765	6,265	6,305	1,560	1,475	15	10	7,000	6,600	10,566
	free lift	TF560	5,600	2,965	6,805	6,845	1,760	1,675	15	10	6,900	6,400	10,677
		TF600	6,060	3,165	7,265	7,305	1,960	1,875	15	10	6,700	6,200	10,765

*Standard

Load Capacity



Various Attachments



Optional Items

FORK (LxWxT)(mm)

50DS-7E (SHAFT · HOOK TYPE)

- · 1,350 X 150 X 60 · 1,500 X 150 X 60 · 1,800 X 150 X 60
- · 2,000 X 150 X 60 · 2,400 X 150 X 60

60/70DS-7E (SHAFT TYPE)

- · 1,350 X 180 X 60 · 1,500 X 180 X 60 · 1,800 X 180 X 60
- · 2,000 X 180 X 60 · 2,400 X 180 X 60

60/70DS-7E (HOOK TYPE)

- · 1,350 X 150 X 65 · 1,500 X 150 X 65 · 1,800 X 150 X 65
- · 2,000 X 150 X 65 · 2,400 X 150 X 65
- · MCV
- 3-SP00L/4-SP00L/5-SP00L
- · INTERNAL PIPING

·SEAT

- ARM REST, HIP REST
- · SOLID TIRE
- · OVER SHOE
- 1,800 / 2,000 / 2,200 / 2,300
- · HOSE-REEL