

* Some of the photos may include optional equipment.

MOVING YOU FURTHER

HYUNDAI MATERIAL HANDLING Applied Tier 3 Engine

70/80D-7E ACE

HYUNDAI
MATERIAL HANDLING

Head Office (Sales office)
First tower, 55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

PLEASE CONTACT

www.hyundai-mh.com 2020. 09. Rev. 4

New criteria of forklift trucks

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





Excellent


HMC D4DD engine


Up-to-date cooling system


High-output air conditioner

* Some of the photos may include optional equipment.

The new master on the job-site!

Smooth running, efficient and ergonomically designed, **70/80D-7E ACE series** are made to meet your needs.



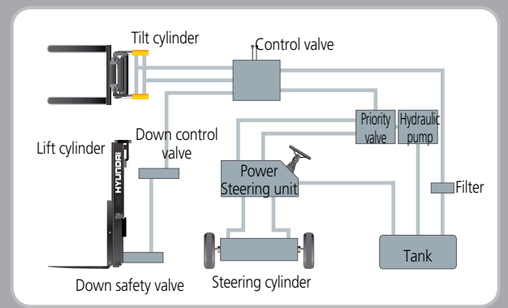
HMC D4DD Engine

Powerful engine

Market approved quality of HMC D4DD engine ensures incomparable performance, durability and excellent fuel efficiency. This engine meets EPA Tier-III and EU stage III A emission regulations.

73.5kW / 2,300rpm

38kgf.m/1,600rpm

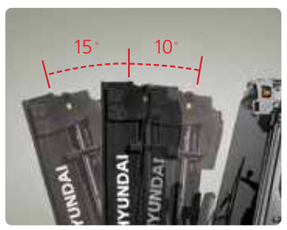


State-of-the-art hydraulic system

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



* Some of the photos may include optional equipment.



Increased mast tilting angle

The 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

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



Key-locking fuel filler

Increased security on job sites with locking fuel cap, plus an increased capacity fuel tank for less down time.

Faster travel speed & gradeability

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



	Travel speed (Unloaded)	Gradeability (Loaded)
70D-7E ACE	33.8km/h	42.4%
80D-7E ACE	35.0km/h	36.1%

Ergonomic operator friendly compartment design!

Smooth running, efficient and ergonomically designed,
70/80D-7E ACE series are made to meet your needs.

Operator friendly gauges and water-resistant monitor panel



USB MP3 player





Grammer seat (option)

An attractive and adjustable seat, based on a human engineering design, provides great comfort. And the angle of the armrest can be adjusted to reduce the fatigue of the driver.

- Applied the weight of the driver(45~170kg)
- ELR type seat belt standard
- Head Rest (Option)



High-output air conditioner & heater



Multi key option



* Some of the photos may include optional equipment.



Rear view camera

The rear view camera makes the operation more easy and convenient. (Option)



Load Indicator

A load can be placed on the fork and can be accurately weighed by measuring the hydraulic pressure. (Option)



Quick response of operating control levers

Only minimal operator's effort is required for precise, safe and productive control.(std 2spool)



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, easy control of direction. The lever must be in the neutral position before the engine can be started.



Multi-function switch lever

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



Ergonomically positioned pedals

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



Parking lever

Using the type of car parking lever, it is easy to control. You can safely parking, even so inclined.

Enhanced safety through high durability!

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



Heavy duty single unit frame

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



Highly durable split type drive axle

The durable drive axle provides fast travel speed and quiet travel under any heavy load condition, and boosts work efficiency.



ZF Full-automatic transmission

Full-automatic transmission gives easy, convenient handling and soft, smooth shifting. The operator can select two kinds of automatic mode.



* Some of the photos may include optional equipment.



Aluminum radiator and coolers

Aluminum radiator and coolers have been applied to increase the durability and heat output.



Large footboard & hand grip

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



Rearview mirror size increases

150% increase in the rearview mirror size, you can get a wider field of view.



Bright, protected headlights

Bright, protected headlights are positioned for exceptional visibility.



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.



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 seated position. (Option)



Greece inlet

To facilitate the steering axle grease was applied remote type.

Centralized design for easy service!

An ideal arrangement of component parts ensures easy accesses and conveniences for the maintenance.



Large engine hood
Highly accessible engine compartment assures fast and efficient maintenance.



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



Cabin tilting automatic system
Cabin tilting automatic system makes servicing of all power train components quick and easy. An electrically assisted hydraulic actuated cylinder tilts operator cabin to left side about 54 degrees for easy access to inside of truck components.



* Some of the photos may include optional equipment.



Cabin air fresh filter
The internal pressure is maintained to be slightly higher than that of outside to exclude dust and to reduce noise levels.



Mechanic friendly fuel filter replacement
Highly accessible engine compartment allows for quick replacement of filters.



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



Compact fuse box for easy inspection



Maintenance free battery



Easy-to-access reservoir tank



Large tool box
Additional tool box located in machine side for operator's convenience.



Wing cover locking system

Mast Specification (Hook/Shaft Type)

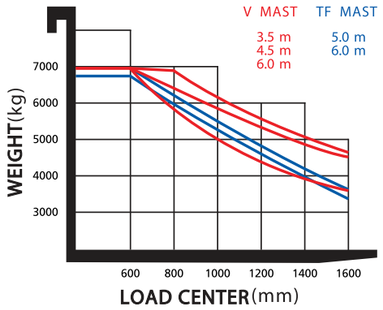
Model	Mast Type		Maximum Fork Height (mm)		Overall Height (mm)						Free Lift (mm)				Tilt Angle (deg)		Load Capacity without side shift at 600mm LC(kg)		Load Capacity with side shift at 600mm LC(kg)		Truck Weight (Unloaded) (kg)	
					Lowered		Extended				Without Load Backrest		With Std Load Backrest									
							W/o Load Backrest		W/Std Load Backrest													
			Hook	Shaft	Hook	Shaft	Hook	Shaft	Hook	Shaft	Hook	Shaft	Hook	Shaft	Fwd	Bwd	Hook	Shaft	Hook	Shaft	Hook	Shaft
70D-7E ACE	2 Stage limited free lift	V270	2,730	2,730	2,365	2,365	3,911	-	4,020	3,975	140	-	140	140	15	10	7,000	7,000	7,000	-	9,823	9,838
		*V300	3,030	3,030	2,515	2,515	4,211	-	4,320	4,275	140	-	140	140	15	10	7,000	7,000	7,000	-	9,871	9,886
		V330	3,330	3,330	2,665	2,665	4,511	-	4,620	4575	140	-	140	140	15	10	7,000	7,000	7,000	-	9,918	9,966
		V350	3,530	3,530	2,765	2,765	4,711	-	4,820	4,775	140	-	140	140	15	10	7,000	7,000	7,000	-	9,950	9,965
		V370	3,730	3,730	2,865	2,865	4,911	-	5,020	4,975	140	-	140	140	15	10	7,000	7,000	7,000	-	9,982	9,996
		V400	4,030	4,030	3,015	3,015	5,211	-	5,320	5,275	140	-	140	140	15	10	7,000	7,000	6,900	-	10,038	10,052
		V450	4,530	4,530	3,315	3,315	5,711	-	5,820	5,775	140	-	140	140	15	10	7,000	7,000	6,700	-	10,266	10,280
		V500	5,030	5,030	3,565	3,565	6,211	-	6,320	6,275	140	-	140	140	15	10	7,000	7,000	6,450	-	10,345	10,360
		V550	5,530	5,530	3,815	3,815	6,711	-	6,820	6,775	140	-	140	140	15	10	6,750	6,900	6,300	-	10,425	10,439
		V600	6,030	6,030	4,065	4,065	7,211	-	7,320	7,275	140	-	140	140	15	10	6,600	6,700	6,100	-	10,503	10,518
		V700	7,030	7,030	4,565	4,565	8,211	-	8,320	8,275	140	-	140	140	15	6	6,500	6,400	5,900	-	10,620	10,634
	3 Stage full free lift	TS/TF450	4,560	4,560	2,565	2,565	5,765	-	5,805	5,805	1360	-	1,275	1,320	15	10	7,000	7,000	6,750	-	10,474	10,476
		TS/TF500	5,060	5,060	2,765	2,765	6,265	-	6,305	6,305	1560	-	1,475	1,520	15	10	7,000	6,900	6,600	-	10,566	10,568
		TS/TF560	5,600	5,600	2,965	2,965	6,805	-	6,845	6,845	1760	-	1,675	1,720	15	10	6,900	6,650	6,400	-	10,677	10,679
		TS/TF600	6,060	6,060	3,165	3,165	7,265	-	7,305	7,305	1960	-	1,875	1,920	15	10	6,700	6,500	6,200	-	10,765	10,766

Model	Mast Type		Maximum Fork Height (mm)		Overall Height (mm)						Free Lift (mm)				Tilt Angle (deg)		Load Capacity without side shift at 600mm LC(kg)		Load Capacity with side shift at 600mm LC(kg)		Truck Weight (Unloaded) (kg)	
					Lowered		Extended				Without Load Backrest		With Std Load Backrest									
							W/o Load Backrest		W/Std Load Backrest													
			Hook	Shaft	Hook	Shaft	Hook	Shaft	Hook	Shaft	Hook	Shaft	Hook	Shaft	Fwd	Bwd	Hook	Shaft	Hook	Shaft	Hook	Shaft
80D-7E ACE	2 Stage limited free lift	V270	2,740	2,740	2,525	2,525	4,048	-	4,050	4,075	150	-	150	150	15	10	8,000	8,000	8,000	8,000	10,969	10,957
		*V300	3,040	3,040	2,675	2,675	4,348	-	4,350	4,375	150	-	150	150	15	10	8,000	8,000	8,000	8,000	11,018	11,006
		V330	3340	3,340	2,825	2,825	4,648	-	4,650	4,675	150	-	150	150	15	10	8,000	8,000	8,000	8,000	11,067	11,055
		V350	3,540	3,540	2,925	2,925	4,848	-	4,850	4,875	150	-	150	150	15	10	8,000	8,000	8,000	8,000	11,100	11,088
		V370	3,740	3,740	3,025	3,025	5,048	-	5,050	5,075	150	-	150	150	15	10	8,000	8,000	8,000	8,000	11,132	11,120
		V400	4,040	4,040	3,175	3,175	5,348	-	5,350	5,375	150	-	150	150	15	10	8,000	8,000	8,000	8,000	11,181	11,169
		V450	4,540	4,540	3,475	3,475	5,848	-	5,850	5,875	150	-	150	150	15	10	8,000	8,000	7,700	7,700	11,396	11,384
		V500	5,040	5,040	3,725	3,725	6,348	-	6,350	6,375	150	-	150	150	15	10	8,000	8,000	7,500	7,500	11,478	11,466
		V550	5,540	5,540	3,975	3,975	6,848	-	6,850	6,875	150	-	150	150	15	10	7,850	7,800	7,300	7,300	11,559	11,547
		V600	6,040	6,040	4,225	4,225	7,348	-	7,350	7,375	150	-	150	150	15	10	7,600	7,600	7,100	7,100	11,641	11,629
		V700	7,040	7,040	4,725	4,725	8,348	-	8,350	8,375	150	-	150	150	15	6	7,100	7,100	6,700	6,700	11,846	11,834
		V750	7,540	7,540	4,975	4,975	8,848	-	8,850	8,875	150	-	150	150	15	6	6,900	6,900	6,500	6,500	11,930	11,918
	3 Stage full free lift	TF450	4,570	4,570	2,750	2,750	5,902	-	5,880	5,905	1,418	-	1,440	1,415	15	10	8,000	8,000	7,750	7,750	11,680	11,654
		TF500	5,070	5,070	2,950	2,950	6,402	-	6,380	6,405	1,618	-	1,640	1,615	15	10	8,000	8,000	7,500	7,500	11,783	11,757
		TF550	5,670	5,670	3,150	3,150	6,902	-	6,880	6,905	1,818	-	1,840	1,815	15	10	7,700	7,700	7,300	7,300	11,885	11,859
		TF600	6,070	6,070	3,350	3,350	7,402	-	7,380	7,405	2,018	-	2,040	2,015	15	10	7,450	7,450	7,100	7,100	11,988	11,962

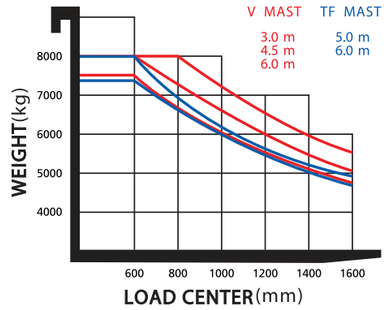
*Standard

Load Capacity

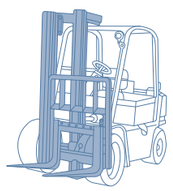
70D-7E ACE

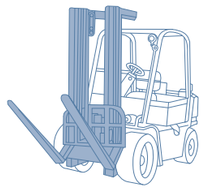


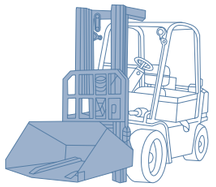
80D-7E ACE

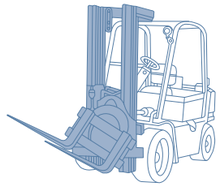


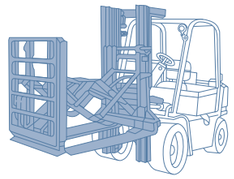
Various Attachments

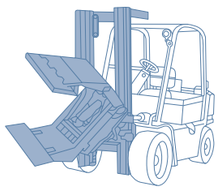

Side Shift

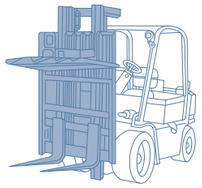

Hinged Fork

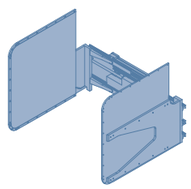

Hinged Bucket

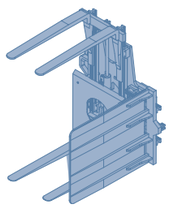

Rotating Fork

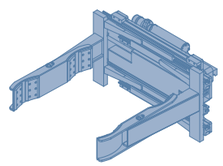

Push Pull

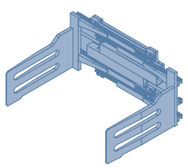

Rotating Roll Clamp

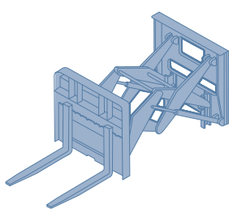

Load Stabilizer


Carton Clamp


Pallet Invert

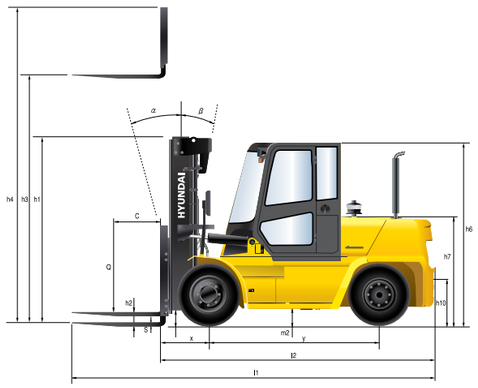

Drum Clamp

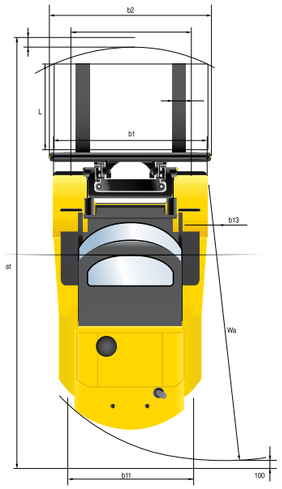

Bale Clamp


Load Extender


Fork Positioner

Dimension





Specification

Identification				
1.1	Manufacturer		Hyundai	Hyundai
1.2	Manufacturer's type designation		70D-7E ACE	80D-7E ACE
1.3	Drive: electric (battery or mains),diesel,petrol,fuel gas,manual		DIESEL	DIESEL
1.4	Type of operation:hand,pedestrian,standing,seated,order-picker		seated	seated
1.5	Load capacity / rated load	kg	7,000	8,000
1.6	Load center distance	c(mm)	600	600
1.7	Load distance, center of drive axle to fork	x(mm)	615	690
1.8	Wheelbase	y(mm)	2,300	2,500
Weights				
2.1	Service weight	kg	9,886	11,006
2.2	Axle loading, loaded front/rear	kg	14,867 / 2,019	16,928 / 2,078
2.3	Axle loading, unloaded front/rear	kg	4,169 / 5,717	4,800 / 6,206
Wheels, Chassis				
3.1	Tires:Pneumatic (P), Solid (S), Non-marking (N)		P	P
3.2	Tires size, front(Øx width)		8.25-15-14PR	9.00-20-14PR
3.3	Tires size, rear(Øx width)		8.25-15-14PR	9.00-20-14PR
3.4	Wheels, number front x rear (x=driven wheels)		4 x / 2	4 x / 2
3.5	Track width, front	b10 mm	1,580	1,632
3.6	Track width, rear	b11 mm	1,604	1,700
Basic Dimensions				
4.1	Mast / fork carriage tilt forward / backward (α xβ)	degrees	15 / 10	15 / 10
4.2	Lowered mast height	h1 (mm)	2,515	2,675
4.3	Free lift	h2 (mm)	140	145
4.4	Lift height	h3 (mm)	3,030	3,040
4.5	Extended mast height	h4 (mm)	4,320	4,375
4.7	Overhead guard height	h6 (mm)	2,553	2,603
4.8	Seat height / standing height	h7 (mm)	1,395	1,464
4.12	Coupling height	h10 (mm)	425	493
4.19	Overall length	l1 (mm)	4,820	5,000
4.20	Length to face of forks	l2 (mm)	3,640	3,960
4.21	Overall width	b1 (mm)	2,087	2,190
4.22	Fork dimensions (hook type)	s / e / l (mm)	65 x 150 x 1,200	70 x 180 x 1,200
4.23	Fork carriage ISO 2328, class / type A,B		Class IV	Class IV
4.24	Fork-carriage width	b2 (mm)	2,268	2,268
4.31	Ground clearance, loaded, under mast	m1 (mm)	195	250
4.32	Ground clearance, center of wheelbase	m2 (mm)	220	287
4.34.1	Aisle width for pallets 1,000 x 1,200 crossways (L x W)	Ast (mm)	5,238	5,580
4.34.2	Aisle width for pallets 800 x 1,200 lengthways (W x L)	Ast (mm)	5,438	5,780
4.35	Turning radius	Wa (mm)	3,360	3,600
4.36	Smallest pivot point distance	b13 mm	1,224	1,354
Performance Data				
5.1	Travel speed, unloaded	km/h	33.8	35.0
5.2	Lift speed, loaded / unloaded	mm/s	420 / 460	410 / 480
5.3	Lowering speed, loaded / unloaded	mm/s	500 / 450	500 / 500
5.6	Max. Drawbar pull, loaded	N	71,652	7,008
5.8	Max. Gradeability, loaded	%	42.4	36.1
5.10	Service brake		FOOT (Hydraulic)	FOOT (Hydraulic)
Engine				
7.1	Engine manufacturer / type		HMC D4DD	4.5HMC D4DD
7.2	Engine power acc. to ISO 1585	kW	73.5	73.5
7.3	Rated speed	1/min	2,300	2,300
7.4	No. of cylinder / cubic capacity	EA/cc	4 / 3,907	4 / 3,907
7.5	Fuel consumption acc. To VDI cycle	ℓ /h	4.5	5.2
Other Details				
8.1	Type of drive control		Full Auto	Power Shaft
8.2	Operating pressure (system / attach)	bar	185 / 150	210
8.3	Oil volume (hydraulic)	ℓ / m	76	100
8.4	Noise (at driver's ear according to DIN 12 053)	db(A)	78	85

Optional Items

- **FORK (L** x **W** x **T) (mm)**

HOOK TYPE

70D-7E ACE · 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

80D-7E ACE · 1,350 x 180 x 70 · 1,500 x 180 x 70 · 1,800 x 180 x 70
· 2,000 x 180 x 70 · 2,400 x 180 x 70

SHAFT TYPE

70D-7E ACE · 1,350 x 180 x 60 · 1,500 x 180 x 70 · 1,800 x 180 x 70
· 2,000 x 180 x 70 · 2,400 x 180 x 70

80D-7E ACE · 1,350 x 180 x 70 · 1,500 x 180 x 70 · 1,800 x 180 x 70
· 2,000 x 180 x 70 · 2,400 x 180 x 70

- **TIRE** SOLID
- **SEAT** ARM REST, GRAMMER
- **CABIN & HEATER** CABIN, AIRCON+HEATER
- **MUFFLER** HORIZNTAL
- **MASTER SWITCH**
- **BEACON LAMP**
- **MCV** 3-SPOOL / 4-SPOOL / 5-SPOOL
- **INTEGRAL FORK POSITIONER CARRIAGE** (SHAFT TYPE)
- **INTEGRAL SIDE SHIFT CARRIAGE** (SHAFT TYPE)
- **INTEGRAL SIDE SHIFT WITH FORK POSIONER CARRIAGE** (SHAFT TYPE)
- **OPSS** (TRAVEL OR TRAVEL + MAST)
- **REAR VIEW CAMERA**
- **LOAD INDICATOR**
- **3STAGE FULL FREE LIFT** DUAL FREE CYL TYPE
- **WIDE CARRIAGE** (2,190mm, HOOK TYPE)
(2,223mm, SHAFT TYPE)
FOR 70D-7E ACE