Mast Specification

							250	DE/I	.E-7							
	Mast Type		um Overall Height It (Lowered)	Free Lift Height			Tilt Angle		Load capacity without Side shift		Load capacity with Intergral Side shift		Truck Weight (Unloaded)			
Mast				With Load Backrest	Without Load Backrest mm	Without Load Backrest (3/4-SPOOL) mm	Fwd	Bwd	500mm LC (Single Tire) kg	500mm LC (Double Tire) kg	500mm LC (Single Tire) kg	500mm LC (Double Tire) kg	Single Tire		Double Tire	
							deg	deg					Diesel	LPG	Diesel	LPG
			mm	mm									kg	kg	kg	kg
-	*V300	3,000	2,040	155		155	6	10	2,500	2,500	2,500	2,500	3,815	3,732	3,936	3,853
ft	V330	3,300	2,190		155		6	10	2,500	2,500	2,490	2,500	3,835	3,752	3,956	3,873
age Limi Free Lift	V400	4,000	2,590				6	10	2,500	2,500	2,360	2,440	3,904	3,821	4,025	3,942
2 Stage Limited Free Lift	V450	4,500	2,890				6	6	2,400	2,490	2,270	2,350	3,977	3,894	4,098	4,015
17	V500	5,000	3,140				6	6	2,310	2,400	2,190	2,260	4,014	3,931	4,135	4,052
full #	VF295	2,950	2,040	860	1,314	1,314	6	6	2,500	2,500	2,500	2,500	3,851	3,768	3,972	3,889
2 Stage Full Free Lift	VF325	3,250	2,190	1,010	1,464	1,464	6	6	2,500	2,500	2,480	2,500	3,884	3,801	4,005	3,922
2 Si Fi	VF345	3,450	2,290	1,110	1,564	1,564	6	6	2,500	2,500	2,450	2,500	3,914	3,831	4,035	3,952
	TF430	4,300	2,040	860	1,314	1,175	6	6	2,430	2,500	2,290	2,370	3,983	3,900	4,104	4,021
_	TF450	4,500	2,140	960	1,414	1,325	6	6	2,390	2,470	2,250	2,330	4,005	3,922	4,126	4,043
3 Stage Full Free Lift	TF470	4,700	2,190	1,010	1,464	1,325	6	6	2,360	2,430	2,220	2,300	4,019	3,936	4,140	4,057
Stag Frei	TF500	5,000	2,290	1,110	1,564	1,425	6	6	2,310	2,380	2,170	2,250	4,041	3,958	4,162	4,079
m	TF550	5,500	2,490	1,310	1,764	1,780	6	6	2,230	2,290	2,090	2,170	4,145	4,062	4,266	4,183
	TF600	6,000	2,690	1,510	1,964	1,875	6	6	2,150	2,200	2,010	2,090	4,145	4,062	4,266	4,183

							301	DE/I	LE-7							
	M			Free Lift Height			Tilt Angle Load cap without Sid					Truck Weight (Unloaded)				
Mas	t Type	Maximum Overa Fork Heigh Height (Lower		With Load Backrest	Without Load	Without Load Backrest	Fwd	Bwd	500mm LC (Single Tire)	500mm LC (Double Tire)	500mm LC (Single Tire)	500mm LC (Double Tire)	Single Tire Do		Doubl	le Tire
					Backrest	(3/4-SPOOL)							Diesel LPG		Diesel	LPG
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg	kg	kg
_	*V300	3,000	2,040	155	155	155	6	10	3,000	3,000	3,000	3,000	4,223	4,139	4,344	4,260
Stage Limited Free Lift	V330	3,300	2,190				6	10	3,000	3,000	2,950	3,000	4,244	4,160	4,365	4,281
age Limi Free Lift	V400	4,000	2,590				6	10	2,970	3,000	2,790	2,870	4,315	4,231	4,436	4,352
2 Stac	V450	4,500	2,890				6	6	2,850	2,940	2,680	2,760	4,390	4,306	4,511	4,427
17	V500	5,000	3,140				6	6	2,750	2,830	2,590	2,660	4,428	4,344	4,549	4,465
lin #	VF295	2,950	2,040	860	1,314	1,314	6	6	3,000	3,000	3,000	3,000	4,281	4,197	4,402	4,318
Stage Full Free Lift	VF325	3,250	2,190	1,010	1,464	1,464	6	6	3,000	3,000	2,950	3,000	4,316	4,232	4,437	4,353
2 S Fi	VF345	3,450	2,290	1,110	1,564	1,564	6	6	3,000	3,000	2,870	2,960	4,346	4,262	4,467	4,383
	TF430	4,300	2,040	860	1,314	1,175	6	6	2,850	2,940	2,690	2,760	4,437	4,353	4,558	4,474
_	TF450	4,500	2,140	960	1,414	1,325	6	6	2,800	2,890	2,650	2,720	4,462	4,378	4,583	4,499
3 Stage Full Free Lift	TF470	4,700	2,190	1,010	1,464	1,325	6	6	2,760	2,850	2,610	2,680	4,476	4,392	4,597	4,513
Free	TF500	5,000	2,290	1,110	1,564	1,425	6	6	2,700	2,790	2,550	2,620	4,499	4,415	4,620	4,536
~	TF550	5,500	2,490	1,310	1,764	1,780	6	6	2,600	2,690	2,460	2,520	4,551	4,467	4,672	4,588
	TF600	6,000	2,690	1,510	1,964	1,875	6	6	1,960	2,590	1,850	2,430	4,613	4,529	4,734	4,650

							350	DE/I	.E-7							
Mast Type				Free Lift Height			Tilt Angle		Load capacity without Side shift		Load capacity with Intergral Side shift		Truck Weight (Unloaded)			
		Fork Height		With Load Backrest	Without Load	Without Load Backrest	Fwd	Bwd	500mm LC (Single Tire)	500mm LC (Double Tire)	500mm LC (Single Tire) kg	500mm LC (Double Tire)	Singl	gle Tire Double Tire		e Tire
					Backrest mm	(3/4-SPOOL) mm	deg	deg	kg	kg			Diesel LPG		Diesel	LPG
		mm	mm	mm								kg	kg	kg	kg	kg
	*V300	3,000	2,040	155	155	155	6	10	3,500	3,500	3,500	3,500	4,595	4,512	4,716	4,633
Stage Limited Free Lift	V330	3,300	2,190				6	10	3,500	3,500	3,380	3,470	4,616	4,533	4,737	4,671
tage Limit Free Lift	V400	4,000	2,590				6	10	3,500	3,500	3,270	3,350	4,687	4,604	4,808	4,725
2 Stac	V450	4,500	2,890				6	6	3,330	3,420	3,140	3,220	4,762	4,679	4,883	4,800
14	V500	5,000	3,140				6	6	3,210	3,290	3,030	3,100	4,800	4,717	4,921	4,838
<u></u>	VF295	2,950	2,040	860	1,314	1,314	6	6	3,500	3,500	3,500	3,500	4,653	4,570	4,774	4,691
2 Stage Full Free Lift	VF325	3,250	2,190	1,010	1,464	1,464	6	6	3,500	3,500	3,410	3,500	4,688	4,605	4,809	4,726
2 St	VF345	3,450	2,290	1,110	1,564	1,564	6	6	3,500	3,500	3,360	3,440	4,718	4,635	4,839	4,756
	TF430	4,300	2,040	860	1,314	1,175	6	6	3,320	3,410	3,140	3,210	4,809	4,726	4,930	4,847
_	TF450	4,500	2,140	960	1,414	1,325	6	6	3,270	3,360	3,090	3,160	4,834	4,751	4,955	4,872
Stage Full Free Lift	TF470	4,700	2,190	1,010	1,464	1,325	6	6	3,220	3,310	3,050	3,120	4,848	4,765	4,969	4,886
Stag Free	TF500	5,000	2,290	1,110	1,564	1,425	6	6	3,150	3,240	2,990	3,050	4,871	4,788	4,992	4,909
m	TF550	5,500	2,490	1,310	1,764	1,780	6	6	2,820	3,120	2,690	3,940	4,923	4,840	5,044	4,961
	TF600	6,000	2,690	1,510	1,964	1,875	6	6	1,810	3,010	1,700	2,830	4,985	4,902	5,106	5,023

⋇ : Standard



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Low fuel consumption as well as high durability! Try excellent cost-effectiveness unique to 35DE/LE-7

PRODUCT FEATURES OVERVIEW

PERFORMANCE UP

- Dramatic TCO saving Fuel efficiency increased by 12%, Lift performance improved by 34%
- Cooling performance improved by 10% Reliability and durability of power train improved
- Engines from Mitsubishi and Nissan with confirmed capability, durability, and cost – effectiveness in the markets
- Transaxle with capability and durability applicable to heavy-duty operating environments
- Fully hydraulic steering system characterized by easy operation and agile, precise response

SAFETY UP

- LED working lamp guaranteeing clear field of vision during operation indoors and at night
- Operator Position Sensing System (OPSS) Limiting driving, lifting, and tilting Option
- Ensuring a wide rear field of view Panorama, RH and LH side mirrors applied by default
- Fork safety feature Maintaining safety in case of rupture of mast hydraulic line during operation
- Rear grip bar & horn guaranteeing convenience and safety of driving during backward movement Option



Fuel efficiency (Dissel model only)



Lifting performance (Dissel model only) Cooling performance (Dissel model only)





CONVENIENCE UP

- Cockpit design by applying ergonomic design providing consistent comfort
- MCV lever with deck-mounted structure to minimize movement of the driver's arms
- Hood insulation reducing noise and heat introduced into the cockpit
- Grammer full-suspension deluxe seat including cushion-height adjustment function Option
- Standard tile cylinder cover for keeping the leg room clean, preventing the inflow of dust into the cockpit during cabin mounting
- Polyurethane floor mat reducing vibration and noise to the operator

SERVICE UP

- Side cover and floor plate with tool-less structure to reduce operating hours
- Mission controller and filter mounted on top of transmission
- Plastic sub-bonnet configuration exclusive for radiator maintenance
- Fuse box in automobile style arranged on the front of the dashboard considering the frequent maintenance jobs
- Configuring the rear cover by default for preventing the inflow of foreign substances into the bottom of the engine radiator
- LPG balance alarm system by making use of the pressure difference inside the tank
 Option

ENVIRONMENT FRIENDLY GREAT PRODUCTIVITY, DURABILITY

PERFORMANCE

Low fuel consumption as well as high durability!

Try excellent cost-effectiveness unique to 35DE/LE-7

Engine qualified in terms of reliability and cost-effectiveness in the markets

S4S Engine & GK25 Engine are the main stream engines chosen by a number of forklift truck makers leading the forklift truck markets and are products qualified in terms of reliability and cost-effectiveness as well as serviceability.

- S4S Diesel Engine : EU emission Stage 3A, Turkey emission Regulation R96 have been satisfied.
- **@** GK25 LPG Engine : Low fuel consumption, less noise and vibration and installer IMPCO LPG fuel system. * Bi-Fuel (Gasoline/LPG) Option



	S4S Diesel Engine	GK25 LPG Engine
Engine Power (kw/rpm)	35.3/2,250	35.0/2,550
Max Torque (kg·m/rpm)	18.0/1,700	1.7/1,600
Displacement (cc)	3,331	2,488

Transaxle with high durability and environmental adaptability

High capacity clutch pack and torque converter with high torque conversion efficiency is applied to the transmission of power shift mode of single gears forward and backward to perform successfully the heavy-duty operation with push mode and driving on poor roads. Axle applied with technologies of TCM demonstrates high durability and braking power and employs shoe brake with low maintenance cost.

TCO saving - Higher fuel efficiency

Applying engine in a size sufficient for flexible operation in case of variation of loads with top power and displacement among the same class and optimized design for mast operation speed improves the fuel efficiency of the diesel-engine forklift truck up to 10%; thus dramatically improving TCO.



Optimized mast operation speed

Mast operation capability is significantly improved compared to competing models by combining the load sensing function of optimized priority valve and the highest torque of engine among competing models, with design features such as low and stable center of gravity of the body.



At Loaded





Heat dissipation capability - Improved power train reliability

The heat dissipation capability of transmission is improved by 10% by applying aluminum radiator with high durability and heat dissipation capability, and the cooling fan consists of seven blades that yield the effects of reducing engine noise and increasing air-blowing mass.





Fully hydraulic power steering

Fully hydraulic power steering without mechanical linkage between steering wheel and steering cylinder and boosting of operability of the wheel by the hydraulic pump reduce the work fatigue of the operator with easy steering operation and agile, secure response.



ENHANCED SAFETY

SAFETY & SAFETY & UP CONVENIENCE

Utmost importance of safety and convenient operation

Diverse incident prevention functions and consistent convenience are provided

COCKPIT, A SPACE WHERE OPERATION **EFFICIENCY IS ENSURED**

As a very important space for ensuring operation convenience and safety, the cockpit is equipped with ergonomic features such as **O cluster with wide** visibility, position-adjustable steering wheel and seat, deck-mounted MCV lever, prompt and responsive pedal, and wide working visibility.

Deck Mount MCV lever

The deck-mounted MCV lever has a feature that reduces movements of the arms of the operator compared to the dashboard-mounted type. In addition, the levers are arranged in the radial direction around the elbow to improve convenience of operation further.



Hood insulation & floor mat

The insulation inside the hood reduces heat and noise from the engine to the cockpit. Furthermore, the polyurethane-foam floor mat reduces vibration and noise from the truck body to provide a pleasant operating environment.

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HYUNDAI



Safety – Lamp & Mirror

LED work lamp and turn signals are installed by default to ensure brighter field of vision and guidance of movement direction of forklift truck during operation in dark indoor space and at night. Panorama and RH and LH side mirrors are mounted by default to secure rear field of vision of operation.



* Beacon lamp is optional

Operator presence sensing system Option

The OPSS restricts driving, lifting, and tilting in when the operator leaves the driver's seat in order to prevent safety accidents.



Rear Grip Bar & Horn Option

The rear steering wheel with horn embedded allows the driver to keep a stable, convenient posture during rear driving and operate the horn rapidly without changing the driving posture in case of an emergency situation.



Various electric interlocks

Parking electric interlock

Operation of forklift truck is limited when applying the parking brake to prevent safety accidents that may take place due to the unintended operation of forward/backward levers by the operator.



Fork safety features

As the forks are being lowered, a down-control valve maintains a controlled descent speed. The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



Grammer Seat Option

The full suspension seat of Grammer of Germany has an adjustable cushion depending on the weight of the driver, and convenience specifications such as seat belt switch, arm rests, and heater are optional.



* Semi-suspension seat is applied by default.

Engine Starting at Neutral Position

The engine will start only with the forward and reverse levers kept at neutral positions to prevent safety accidents that may take place when starting the engine with such levers kept at forward or reverse positions.

EASY SERVICE

MAINTENANCE

Easy maintenance, cost-effective service

Stay satisfied even after completing your work

LAGER MAINTENANCE SPACE

A large work space is provided for the follow-up management of consumables and major functional parts when you remove the engine compartment cover supported with two gas springs tool-less type side cover and floor plate.

Transmission maintenance

As the major functional parts of transmission, the control valve and filter are mounted on top of transmission to reduce the maintenance hours. Transmission is accessible when removing the engine hood and floor plate of toolless type.





The plastic tool-less radiator sub-hood on top of the counterweight separated from the main hood reduces the downtime for checking the cooling water level and makeup.



Snorkel type air intake & Dual element



Brake oil reservoir

Oil reservoir is mounted on top of the dashboard for the convenient management of brake oil, which should be frequently inspected and made up for safe operation.



Standard & Option

	Part	All					
	Mitsubishi S4S Diesel Engine	•					
	F1/R1 Power shift Transaxle						
	Hydraulic Power Steering	•					
POWER	Vertical Muffler	0					
TRAIN &	Nissan K25 LPG Engine	•					
CHASSIS	Bi-Fuel	0					
	LPG Clamp - Swing Out, Swing Down	0					
	LPG Empty Alarm	0					
	LPG Tank	0					
	Head Guard(2075mm)	•					
	Cabin	0					
	Cabin Top, Front + Rear + Top + Wiper	0					
	Air con, Heater	0					
PERATION	Hood Insulation	•					
ROOM	Convenience Tray	•					
	Semi Suspension Seat + Belt	•					
	Suspension(Grammer) Seat + Belt	0					
	Panorama Mirror + RH,LH Side Mirror	•					
	OPSS - Drive , Drive + Mast	0					
SAFETY	Fire Extinguishers(1.0kg)	0					
Oneveter m	anual is provided by LICD memory stick						

* Operator manual is provided by USB memory stick.

Centralized fuse holders

Fuse is an item demanding the most frequent maintenance works among the components of the electric system of the forklift truck. All of the fuses are centralized on the front of the dashboard for convenient inspection and replacement of fuses.





• STD / O OPT

Specification

	ITIFICATION			-	-			
1.1	Manufacturer			Hyu	ndai			
1.2	Manufacturer's type designation		25DE-7	30DE-7	35DE-7	25LE-7	30LE-7	35LE-7
1.3	Drive: electric(battery or mains),diesel,petrol,fuel gas,	manual	DIESEL	DIESEL	DIESEL	LPG	LPG	LPG
1.4	Type of operation:hand,pedestrian,standing,seated, order-picker		seated	seated	seated	seated	seated	seated
1.5	Load capacity / rated load	kg	2,500	3,000	3,500	2,500	3,000	3,500
1.6	Load center distance	c mm	500	500	500	500	500	500
1.8	Load distance, center of drive axle to fork	x mm	473	473	473	473	473	473
1.9	Wheelbase	y mm	1,650	1,700	1,700	1,650	1,700	1,700
NEIC	GHTS			1	1		1	
2.1	Service weight(including battery)	kg	3,815	4,223	4,595	3,732	4,139	4,512
2.2	Axle loading, loaded front	kg	5525	6371	7057	5503	6293	6979
	Axle loading, loaded rear	kg	751	852	1037	729	846	1033
2.3	Axle loading, unloaded front	kg	1614	1654	1553	1529	1576	1476
	Axle loading, unloaded rear	kg	2201	2569	3042	2203	2563	3037
NHE	ELS, CHASSIS			2505	5012	1200	2505	3037
3.1	Tires solid rubber, superelastic, pneumatic,		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatio
3.2	polyurethane Tires size, front		28X9-15-14PR	28X9-15-14PR		28X9-15-14PR	28X9-15-14PR	28X9-15-14F
3.3	Tires size, rear		6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10P
3.5	Wheels, number front x rear (x=driven wheels)		2x2	2x2	2x2	2x2	2x2	2x2
3.6	Track width, front	mm	1005	1,005	1,005	1005	1,005	1,005
3.7	Track width, rear	mm	980	980	980	980	980	980
	C DIMENSIONS		500	500	500	300	500	500
4.1	Mast / fork carriage tilt forward / backward	degrees	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10
4.2	Lowered mast height	h1 (mm)	2,040	2,040	2,040	2,040	2,040	2,040
4.3	Free lift	h2 (mm)	150	155	155	150	155	155
4.4	Lift height	h3 (mm)	3,005	3,005	3,005	3,005	3,005	3,005
4.5	Extended mast height	h4 (mm)	3,465	3,465	3,465	3,465	3,465	3,465
4.7	Overhead load guard(cab) height	h5 (mm)	2,170	2,170	2,170	2,170	2,170	2,170
4.8	Seat height / standing height	h7 (mm)	1,186	1,186	1,186	1,186	1,186	1,186
4.12	Coupling height	h10 (mm)	283	299	299	283	299	299
4.19	Overall length	l1 (mm)	3,685	3,740	3,815	3,685	3,740	3,815
4.20	Length to face of forks	l2 (mm)	2,635	2,690	2,765	2,635	2,690	2,765
4.21	Overall width	b1 (mm)	1,220	1,220	1,220	1,220	1,220	1,220
4.22	Fork dimensions(hook type)	lxexs (mm)	1,050x100x45	1,050x125x45	1,050x125x45	1,050x100x45	1,050x125x45	1,050x125x4
4.23	Fork carriage ISO 2328, class / type A,B		II/A	III/A	III/A	II/A	III / A	III / A
4.24	Fork-carriage width	b3 (mm)	1,102	1,102	1,102	1,102	1,102	1,102
4.31	Ground clearance, loaded, under mast	m1 (mm)	145	145	145	145	145	145
4.32	Ground clearance, centre of wheelbase	m2 (mm)	189	189	189	189	189	189
4.33	Aisle width for pallets 1,000x1,200 crossways(LxW)	Ast (mm)	3,981	4,066	4,102	3,981	4,066	4,102
4.34	Aisle width for pallets 800x1,200 lengthways(WxL)	Ast (mm)	4,181	4,266	4,302	4,181	4,266	4,302
4.35	Turning radius	Wa (mm)	2,310	2,395	2,430	2,310	2,395	2,430
PERF	FORMANCE DATA							
5.1	Travel speed, loaded/ unloaded	km/h	16/15.5	16/15	16/15	16.5/16	16.5/15.5	16.5/15.5
5.2	Lift speed, loaded/ unloaded	mm/s	550/660	450/550	450/550	500/600	420/500	420/500
5.3	Lowering speed, loaded/unloaded	mm/s	580/460	480/350	480/350	550/450	480/380	480/380
5.6	Max. Drawbar pull, loaded	N	19,276	19,325	19,355	18,640	18,680	18,708
5.8	Max. Gradeability, loaded	%(°)	29	25	22	28	24.5	22
5.10	Service brake		Drum brake	Drum brake	Drum brake	Drum brake	Drum brake	Drum brak
ENG	INE							
7.1	Engine manufacturer / type		MITSUBISHI / S4S	MITSUBISHI / S4S	MITSUBISHI / S4S	NISSAN	NISSAN	NISSAN
7.2	Engine power acc. to ISO 1585	kW/rpm	35.3/2,250	35.3/2,250	35.3/2,250	35/2,550	35/2,550	35/2,550
7.3	Maximum torque	kgf.m/rpm	18.0/1,700	18.0/1,700	18.0/1,700	17.7/1,600	17.7/1,600	17.7/1,600
7.4	No. of cylinder / cubic capacity	EA/cc	4/3,331	4/3,331	4/3,331	4/2,488	4/2,488	4/2,488
7.5	Oil volume	l	8.0	8.0	8.0	3.5	3.5	3.5
	ER DETAILS							
-		har	210/100	210/160	210/160	210/160	210/100	210/160
8.1	Operating pressure(system / attach)	bar	210/160	210/100	210/100	210/160	210/160	210/100

Dimension



Load Capacity









