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# A series 2.5-3.5t IC Forklift with Hyundai / LS engine



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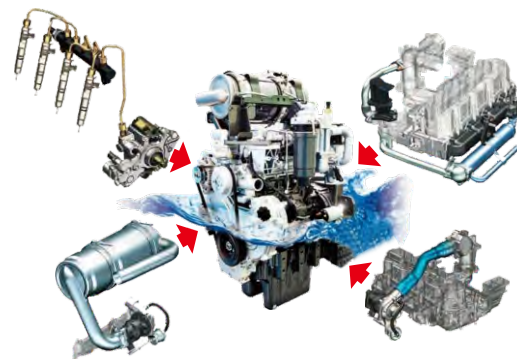
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### Unparalleled fuel efficiency

With a powerful 2.4L HMC L4KB LPG engine that produces 43 KW while complying environmental regulations. It also achieves impressive cost savings by delivering excellent performance with low fuel consumption rates.

- Featuring the optimal displacement for a forklift, the HMC L4KB engine comprises a timing chain, a high- end fully electronic-controlled LPG system with oxygen sensor.
- The adaptive LPG system continuously seeks the most fuel efficient way of running, in order to keep the TCO as low as possible.
- A speed reduction switch is mounted on the dashboard, which activates a limited driving speed. The speed limit is programmable.



### Maximal GENUINE PARTS AND WARRANTIES: THE BEST WAY TO PROTECT YOUR INVESTMENT

Hyundai Genuine parts, accessories and warranty programmes are specially designed to keep your investment covered. They increase uptime and maintain the performance, comfort, and convenience that are built into your equipment.

Hyundai warranties are designed to give you the cover you need to build your business with confidence and peace of mind.



### Maximal Genuine parts

Hyundai Genuine parts have the same design as those installed when your machine left the factory. They are subjected to rigorous quality inspections and tests to make sure they meet Hyundai's strict requirements for quality and durability. As well as minimizing.

### LS STAGE V (TIER4) ENGINE

LS engines that feature high performance and excellent durability based on the optimized design. It achieve both low NOx emissions and low fuel consumption in harsh environment.

#### 1.High pressure(1800 bar) Common Rail System

- Fuel consumption optimization by fuel injection of high pressure, multiple injection and injection timing adjustment
- Actualization of high output, low fuel efficiency, low vibration and low noise

- Exhaust reduction with combustion efficiency

#### 2.Electronic Exhaust Recirculation Device(EGR+EGR Cooler)

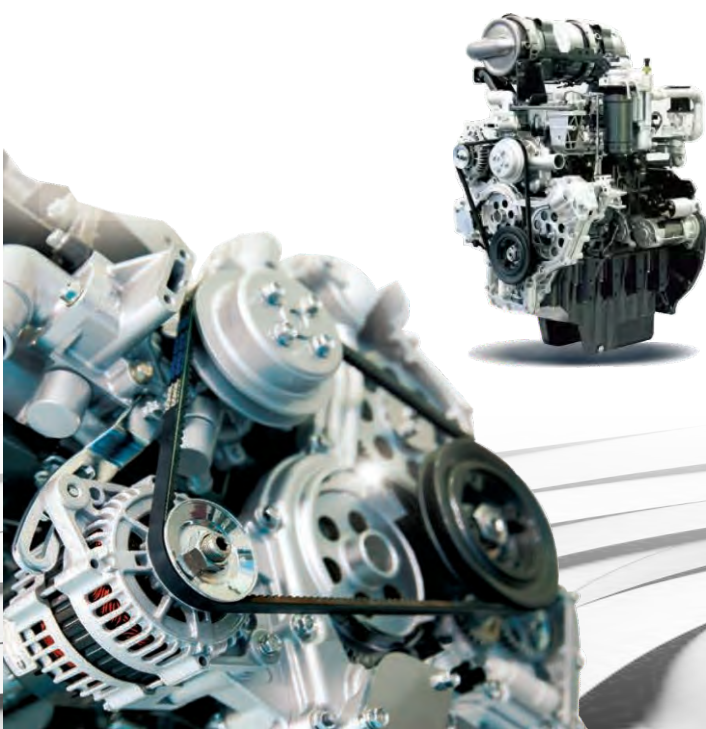
- Exhaust reduction and improvement of fuel consumption rate with optimized Cool EGR system control

#### 3.DOC+DPF system

- Installation of DOC to reduce HC/CO and reburn the PM accumulated in DPF
- This system is for meeting the emission regulation of Stage V(Tier4) and dealing with future regulation

#### 4.Waste Gate Type turbo charger

- Improvement of fuel efficiency and output
- Increase of torque and responsiveness in the range of low and middle speed
- Prevention of high intake & exhaust pressure and improvement of engine efficiency





Distinguishing mark	1.1	Manufacturer (abbreviation)		Maximal	Maximal	Maximal
	1.2	Model designation		FLTA25	FLTA30	FLTA35
	1.2.1	Engine / transmission		Hyundai 2.4L	Hyundai 2.4L	Hyundai 2.4L
	1.3	Drive: electric(battery or mains), diesel, petrol, fuel gas		LPG	LPG	LPG
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	2500	3000	3500
	1.6	Load center distance	c (mm)	500	500	500
Weight	1.8	Load distance, centre of drive axle to fork	x (mm)	475	490	510
	1.9	Wheelbase	y (mm)	1600	1700	1700
	2.1	Service weight	kg	3650	4250	4710
Tyres, chassis	2.2	Axle loading, laden front / rear	kg	5320 / 650	6490 / 770	7250 / 960
	2.3	Axle loading, unladen front / rear	kg	1500 / 2150	1710 / 2590	1690 / 3020
	3.1	Tyre type		Pneumatic	Pneumatic	Pneumatic
Dimensions	3.2	Tire size, front		7.00-12-12PR	28x9-15-14PR	28x9-15-14PR
	3.3	Tire size, rear		6.00-9-10PR	6.50-10-10PR	6.50-10-10PR
	3.5	Wheels, number front/rear (X=drive wheels)		2X/2	2X/2	2X/2
	3.6	Tread, front	b10 (mm)	970	1000	1000
	3.7	Tread, rear	b11 (mm)	980	970	970
	4.1	Tilt of mast / fork carriage forward / backward	α / β (°)	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 (mm)	2010	2075	2150
	4.3	Freelift	h2 (mm)	160	165	165
	4.4	Lift	h3 (mm)	3000	3000	3000
	4.5.1	Height of mast, extended w/o LBR	h4 (mm)	3575	3640	3700
	4.5.2	Height of mast, extended w/ LBR	h4 (mm)	3990	4100	4100
	4.7	Height of overhead guard	h6 (mm)	2180	2205	2205
	4.8	Seat height / stand height	h7 (mm)	1167	1192	1192
	4.12	Coupling height	h10 (mm)	250	480	480
	4.19	Overall length	l1 (mm)	3690	3804	3894
	4.20	Length to face of forks	l2 (mm)	2620	2734	2824
	4.21	Overall width (Standard / Dual)	b1/b2 (mm)	1150 / 1590	1210 / 1650	1210 / 1650
	4.22	Fork dimensions	s/e/l (mm)	40 x 122 x 1070	45 x122 x1070	45 x122 x1070
	4.23	Fork carriage to DIN 15173, Class A/B		A	A	A
	4.24	Fork carriage width	b3 (mm)	1040	1100	1100
	4.31	Ground clearance, laden, below mast	m1 (mm)	125	130	130
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	150	145	145
	4.34.1	Aisle width with pallets 1000 long x 1200 wide	Ast (mm)	4026	4126	4210
	4.34.2	Aisle width with pallets 800 wide x 1200 long	Ast (mm)	3826	3926	4010
	4.35	Turning radius	Wa (mm)	2350	2430	2500
	4.36	Internal turning radius	b13 (mm)	745	830	830
	4.42	Step height (from ground to running board)	k (mm)	430	455	455
Performance data	5.1	Travel speed, laden / unladen	km/h	18/18	19/19	19/19
	5.2	Lifting speed, laden / unladen	m/s	0.54/0.57	0.43/0.46	0.34/0.36
	5.3	Lowering speed, laden / unladen	m/s	0.43/0.40	0.37/0.36	0.37/0.36
	5.5	Maximum drawbar pull with/without load	N	21900/15000	20400/14000	20100/15000
	5.6.1	Drawbar pull, with / without load @ 1.6km/h	N	19000/14500	17700/13000	17500/12500
	5.6.1	Drawbar pull with / without load @ 4.8km/h	N	14400/13000	13200/9000	12000/1100
	5.7.1	Gradeability, with / without load, @ 1.6km/h	%	25/25	23/25	20/24
Combustion-engine	5.7.2	Gradeability, with / without load @ 4.8km/h	%	20/22	18/20	15/20
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
	7.1	Engine		HMC2.4L L4KB	HMC2.4L L4KB	HMC2.4L L4KB
	7.2	Engine power according to ISO 1585	kW	43	43	43
	7.3	Rated speed	min-1	2600	2600	2600
	7.4	Number of cylinders		4	4	4
	7.4	Cylinder displacement	cm3	2359	2359	2359
	7.5	Fuel consumption according to VDI cycle	l/h or kg/h	3.8	3.9	4.08
	8.1	Type of drive		Automatic	Automatic	Automatic
	10.1	Operating pressure of attachments	bar	0-175	0-175	0-175
	10.2	Oil volume for attachments	ℓ/min	64	64	64
	10.3	Hydraulic oil tank capacity - initial fill	ℓ	60	70	70
	10.4.2	Fuel tank capacity	ℓ	60	70	70
	10.7.1	Sound pressure at driver's ear OHG	dB(A)	81.5	81.5	81.5
	10.7.3	Guaranteed sound power 2001/14/EC	dB(A)	100	100	100
	10.8	Towing coupling type		PIN	PIN	PIN

Distinguishing mark	1.1	Manufacturer (abbreviation)		Maximal	Maximal	Maximal
	1.2	Model designation		FDTA25	FDTA30	FDTA35
	1.2.1	Engine / transmission		LS 2.5L	LS 2.5L	LS 2.5L
	1.3	Drive: electric(battery or mains), diesel, petrol, fuel gas		DIESEL	DIESEL	DIESEL
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	2500	3000	3500
	1.6	Load center distance	c (mm)	500	500	500
Weight	1.8	Load distance, centre of drive axle to fork	x (mm)	475	490	510
	1.9	Wheelbase	y (mm)	1600	1700	1700
	2.1	Service weight	kg	3650	4300	4710
Tyres, chassis	2.2	Axle loading, laden front / rear	kg	5320 / 650	6490 / 770	7250 / 960
	2.3	Axle loading, unladen front / rear	kg	1500 / 2150	1710 / 2590	1690 / 3020
	3.1	Tyre type		Pneumatic	Pneumatic	Pneumatic
Dimensions	3.2	Tire size, front		7.00-12-12PR	28x9-15-14PR	28x9-15-14PR
	3.3	Tire size, rear		6.00-9-10PR	6.50-10-10PR	6.50-10-10PR
	3.5	Wheels, number front/rear (X=drive wheels)		2X/2	2X/2	2X/2
	3.6	Tread, front	b10 (mm)	970	1000	1000
	3.7	Tread, rear	b11 (mm)	980	980	980
	4.1	Tilt of mast / fork carriage forward / backward	α / β (°)	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 (mm)	2010	2075	2150
	4.3	Freelift	h2 (mm)	160	165	170
	4.4	Lift	h3 (mm)	3000	3000	3000
	4.5.1	Height of mast, extended w/o LBR	h4 (mm)	3575	3640	3700
	4.5.2	Height of mast, extended w/ LBR	h4 (mm)	3990	4100	4100
	4.7	Height of overhead guard	h6 (mm)	2180	2205	2205
	4.8	Seat height / stand height	h7 (mm)	1167	1192	1192
	4.12	Coupling height	h10 (mm)	250	260	260
	4.19	Overall length	l1 (mm)	3690	3804	3894
	4.20	Length to face of forks	l2 (mm)	2620	2695	2780
	4.21	Overall width (Standard / Dual)	b1/b2 (mm)	1150 / 1590	1210 / 1650	1210 / 1650
	4.22	Fork dimensions	s/e/l (mm)	40 x 122 x 1070	45 x122 x1070	45 x122 x1070
	4.23	Fork carriage to DIN 15173, Class A/B		IIA	IIIA	IIIA
	4.24	Fork carriage width	b3 (mm)	1040	1100	1100
	4.31	Ground clearance, laden, below mast	m1 (mm)	125	140	140
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	150	145	145
	4.34.1	Aisle width with pallets 1000 long x 1200 wide	Ast (mm)	4026	4126	4210
	4.34.2	Aisle width with pallets 800 wide x 1200 long	Ast (mm)	3826	3926	4010
	4.35	Turning radius	Wa (mm)	2350	2430	2500
	4.36	Internal turning radius	b13 (mm)	745	830	830
	4.42	Step height (from ground to running board)	k (mm)	430	455	455
Performance data	5.1	Travel speed, laden / unladen	km/h	18/18	18/18	18/18
	5.2	Lifting speed, laden / unladen	m/s	0.50/0.53	0.39/0.42	0.38/0.41
	5.3	Lowering speed, laden / unladen	m/s	0.43/0.40	0.38/0.37	0.38/0.37
	5.5	Maximum drawbar pull with/without load	N	25400/15500	24100/18000	24100/17500
	5.6.1	Drawbar pull, with / without load @ 1.6km/h	N	21400/15000	20400/14000	20400/15000
	5.6.1	Drawbar pull with / without load @ 4.8km/h	N	16300/14000	15500/11000	15500/9500
	5.7.1	Gradeability, with / without load, @ 1.6km/h	%	22/26	20/25	20/24
Combustion-engine	5.7.2	Gradeability, with / without load @ 4.8km/h	%	20/25	19.5/24	17/21
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
	7.1	Engine		L4CRV-T6	L4CRV-T6	L4CRV-T6
	7.2	Engine power according to ISO 1585	kW	42	42	42
	7.3	Rated speed	min-1	2300	2300	2300
	7.4	Number of cylinders		4	4	4
	7.4	Cylinder displacement	cm3	2505	2505	2505
	7.5	Fuel consumption according to VDI cycle	l/h or kg/h	3.8	4.0	4.2
	8.1	Type of drive		Automatic	Automatic	Automatic
	10.1	Operating pressure of attachments	bar	0-175	0-175	0-195
	10.2	Oil volume for attachments	ℓ/min	64	64	64
	10.3	Hydraulic oil tank capacity - initial fill	ℓ	60	70	70
	10.4.2	Fuel tank capacity	ℓ	60	70	70
	10.7.1	Sound pressure at driver's ear OHG	dB(A)	84	84	84
	10.7.3	Guaranteed sound power 2001/14/EC	dB(A)	104	104	104
	10.8	Towing coupling type		PIN	PIN	PIN