MOVING YOU FURTHER

25·30 358-7A



Some of the photos may include optional equipment



Your satisfaction is our priority.

Electric forklifts equipped with advanced technology and advanced design. Hyundai's 7A series battery forklift utilizes the latest electronic management systems.

Upgrading customers' businesses with enhanced stability in travel & operations, AC technologies and reasonable prices.

Work efficiency & productivity

- Powerful controls provided by AC driving motor and pump motor(KDS)
- Low center of gravity (deep drop battery) provides enhanced forklift stability
- Spacious ergonomically designed operator compartment
- Full hydraulic steering system
- TCO Li-Ion battery (OPT)

Durability & Reliability - ZAPI AC Controller

- Robust drive axles equipped with special cast steel and high tensile steel parts
- IP 65 controller

- Anti-Roll back
- Operator Presence Sensing System(OPSS) (OPT)
- Mast lowering interlock system prevents forks from dropping down in case of sudden damage of hydraulic line
- Toggle type parking brake lever
- Speed limit setting

Easy management

- Pump and traction motor are accessible without battery removal
- Easy to access controllers
- Smart display : alerts & warnings issued upor failure of electric system
- Self-diagnostics of electric system failure





Power & Performance

High Efficiency & Optimal Performance

An efficient, smooth running and compact design provides enhanced performance and outstanding productivity.



The drive system features a parallel assembly of simply structured, high-reliability drive axles and traction motor, which facilitates motor control. By applying parallel structure, the batteries are placed at the bottom where the center of gravity is low, enhancing driving and operational stability. Moreover, all reduction gears are equipped with low-noise helical gears in order to provide powerful driving performance, high utilization rate and a quieter working environment.





25B-7

ADVANCED CONTROLS

ERFORMANCE

HYUNDAI

KDS' AC driving motor and pump motor for electric forklifts boast improved controllability and durability than DC counterparts. Free of any consumables, they require a very low maintenance cost. Moreover, the pump motor features L-shaped mount brackets to ensure easy installation and removal.



The almost noiseless 8 khz (high frequency) ZAPI controller enables high efficiency control and protects the system from low and high voltages and overheating





Enhanced driving performance and stability : low center of gravity

The driving motor and drive axle are mounted in a parallel structure, so that batteries can be fitted in the space beneath the floor plate. This way of fitting can reduce the center of gravity for batteries and vehicle body, and also decrease the height of the driving seat, which contributes to enhanced stability in driving and working, as well as convenience in operation.

Prolonged battery use

When the operator's foot is lifted from the accelerator, the kinetic energy is converted to electrical energy and stored in batteries. The operator can stop the vehicle with the energy generated form the energy conversion.

6 Roller combination carriage

Six carriage load rollers are perfect for heavy load conditions, and the side roller at the center of the load roller keeps the carriage steady from lateral impacts, enhancing the operational efficiency and system durability.

A wider field of view & stable operations : mast

The outer width of the mast is extended to 720mm to deliver a safe and efficient working environment. The combination-type load roller at the low end of the inner mast and the top end of the outer mast reins in unwanted movements of the mast during operation, ensuring stable operation and increased durability of the mast.



Easy & Comfort

Optimized Ergonomics & Fast and Easy Maintenance

An ergonomically designed workspace for operator provides the best comfort and

easy access for maintenance.

Ergonomically designed workspace

25B-7A

COMFORTABLE V

Ergonomic design focusing on operator convenience and maneuverability further enhances work efficiency. Easy to operate levers and pedals, tilting steer wheel, suspension seat and a large multi-functional cluster dashboard allow comfortable and efficient driving. A 12V power socket is a standard feature to improve operator convenience.





Smart display

Some of the photos may include optional equipment.

Y A II

Y A H

- 11

Manufactured by the identical maker of the main controller, ZAPI, the smart display indicates the remaining capacity of the battery in real time and issues alert/warning codes upon equipment defect or failure to help operators identify and troubleshoot defects effectively. Moreover, the six buttons on the display enable operators to control equipment performance (e.g. driving characteristics such as speed, EAB time: and lifting speed) and carry out self-diagnostics.



An adjustable ergonomic seat provides unmatched comfort. The adjustable armrest further reduces operator fatigue.

- ELR(Emergency Locking Retractable) type seat belt
- Seat switch (OPT)



Open footplate

Non-slip and wider open steps offer convenience and safety when entering and exiting vehicle.



Steering wheel

The angle of the steering column can easily be adjusted to improve operator comfort.



Convenience device

A lamp switch and an emergency switch, installed at the right side of the dashboard, cut power in emergencies and enhance operability. A USB port is also added to enable users to recharge their portable appliances.



Main functions of the monitor

Battery discharge indicator and travel speed
 Hour meter

④ Low battery warning lamp⑤ Low brake oil warning lamp

③ Maintenance requirements / error warning lamp



The battery cover opens fully with the assistance of a gas strut that locks when fully opened to give easy access to battery and prevent the hood from dropping. An automatic electrolyte liquid filling machine is offered as an option for hassle -free battery maintenance.



Easy accessibility controller

The traction and pump controllers can be accessed by removing the top cover of the counterweight. The controller is installed horizontally to ensure easy repair, and the top cover blocks dust and moisture.



Great visibility for safe operation

The optimized lift cylinder array design provides a clear, wide field of vision for the operator. A panoramic mirror expands the driver's view when backing up.



Safety features

The adoption of a high-sensitivity sensor and advanced safety system can prevent accidents.





Anti roll-back system offers protection against the machine rolling back on a ramp in combination with exceptional ramp start capabilities.





Strong overhead guard

Exceeding ISO6055 regulations, the overhead guard offers great protection combined with excellent all around visibility.



Panoramic mirror

The panoramic mirror expands the driver's view when backing up.

Maximum speed control

The operator can set and limit the maximum speed from 10 km/h by 1 km/h unit, based on work site conditions.

Fork safety features

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

Operator presence sensing system (OPSS)

When operator is not in seat the hydraulic lift and tilt controls and travel are locked out.



The long-lasting, high-illumination full LED working lamp (front & rear) and combination lamp enhance safety and working efficiency when operating at night or in darkness. Also, the standard warning light provides workplace safety.



Parking brake

New hand parking brake device with release button greatly reduces fatigue in operation.



Cost-effective Lithium-ion batteries (OPT)

Rapidly chargeable Lithium-ion batteries ensure sound performance of the equipment with vastly reduced charge times, allowing extended hours of continued operation on a single charge. Moreover, they last at least twice longer than lead/ sulfuric acid counterparts, and do not necessitate management of distilled water. Also, being cathode active materials, they use phosphoric acid-iron compounds, which brings down the cost and eliminates the risk of explosion, making them even safer and more cost effective.

Benefits of HCE's Lithium-ion batteries

Long hours of continuous operation

- Continued operations possible throughout the day with only auxiliary charge during equipment stoppage and meal time
- No need for spare batteries and charging facilities

Safety

- Use of non-explosive phosphoric acid-iron compounds
- Enclosed battery case made of high-strength steel
 Prevention of overheating, excessive electricity
- discharge or recharging through Battery Manage System

Easy maintenance

- No need to replenish distilled water or electrolytes
- Battery life at least twice longer than that of lead / sulfuric acid batteries (over 2,500 cycles)
- No emission of harmful gases and no restriction on the charging location

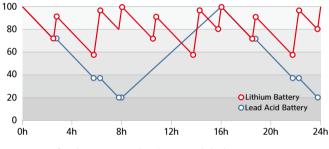
Cost savings

- Charging efficiency higher than lead / sulfuric acid batteries (70% -→ 95%)
- More affordable than NCM Lithium-ion batteries (at ~2/3 of the price of NCM batteries)
- 10,000 operational hours guaranteed for 5 years



- Lithium-ion battery capacity :
- 25B-7A : 51.2V / 400Ah, 51.2V / 500Ah
 - 30, 35B-7A : 83.2V / 400Ah, 83.2V / 450Ah

Stage of Charge, SOC (%)



Graph comparing the charge and discharge

7A Series Mast Specification

25B-7A														
			O	verall Heig	ht	Free lif	t height		Tilt A	Angle	Load capacity			
				Full lift		Without	With	Front			Load			
Mast Type		Fork Height	Lowered	Without Load Backrest	With Load backrest	Vith Load Load Dad Backrest Backrest	overhang	Fwd	Bwd	center distance (500mm)				
			mm	mm	mm	mm	mm	mm	deg	deg	kg			
	*M300	3000	2015	3615	4017	140	140	454	5	10	2500			
2-STAGE LIMITED	M330	3300	2165	3915	4317	140	140	454	5	10	2500			
FREE LIFT	M400	4000	2565	4615	5017	140	140	454	5	10	2500			
	M450	4500	2815	5115	5517	140	140	454	5	6	2100			
2-STAGE	FM300	3000	2015	3615	4017	1385	985	477	5	10	2500			
FULL FREE LIFT	FM330	3300	2165	3915	4317	1535	1135	477	5	10	2500			
	TFM435	4350	2025	5021	5366	1390	990	490	5	6	2200			

25/30/35B-**7**A

30B-7A													
			O	Overall Height		Free lift height			Tilt Angle		Load capacity		
		Maximum Fork		Ful	l lift	Without	With	Front			Load		
Mast Type		Height	Lowered	Without Load Backrest	With Load backrest	Load Backrest	Load Backrest	overhang	Fwd	Bwd	center distance (500mm)		
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg		
	*M300	3000	2045	3640	4140	165	165	475	5	10	3000		
2-STAGE	M330	3300	2195	3940	4440	165	165	475	5	10	3000		
LIMITED FREE LIFT	M400	4000	2595	4640	5140	165	165	475	5	10	2850		
	M450	4500	2845	5140	5640	165	165	475	5	6	2550		
2-STAGE	FM300	3000	2045	3640	4140	1390	935	490	5	10	3000		
FULL FREE LIFT	FM330	3300	2195	3940	4440	1540	1085	490	5	10	3000		
	TFM435	4350	2045	5015	5490	1460	925	500	5	6	2800		

3-STAGE	TFM450	4500	2075	5171	5516	1440	1040	490	5	6	2000
FULL	TFM480	4800	2175	5471	5816	1540	1140	490	5	6	1700
FREE LIFT	TFM550	5500	2440	6171	6516	1800	1400	490	3	6	1200
	TFM600	6000	2625	6671	7016	1990	1590	490	3	6	800

*:Standard

*TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

3-STAGE	TFM480	4500	2095	5165	5640	1510	975	500	5	6	2500
FULL	TFM480	4800	2195	5465	5940	1610	1075	500	5	6	2250
FREE LIFT	TFM550	5400	2420	6065	6540	1835	1300	500	3	6	1650
	TFM600	6000	2645	6665	7140	2060	1525	500	3	6	1200

* : Standard

*TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

7A Series Mast Specification

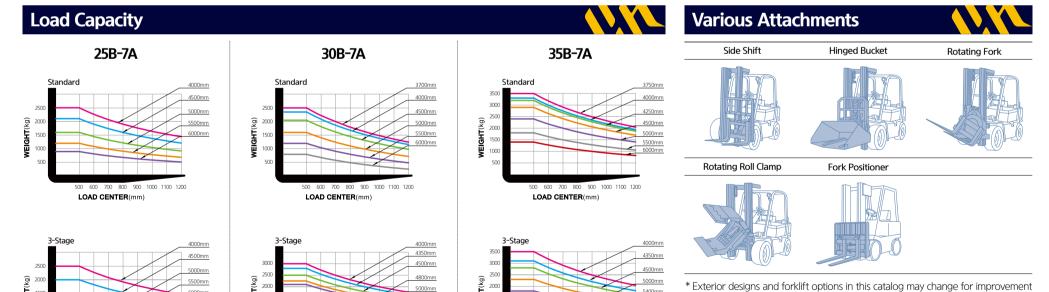
35B-7A													
			O	Overall Height		Free lift height			Tilt Angle		Load capacity		
Mast Type		Maximum Fork Height	Lowered	Ful Without Load Backrest	l lift With Load backrest	Without Load Backrest	With Load Backrest	Front overhang	Fwd	Bwd	Load center distance (500mm)		
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg		
	*M300	3000	2120	3710	4140	170	170	505	5	10	3500		
2-STAGE LIMITED	M330	3300	2270	4010	4440	170	170	505	5	10	3500		
FREE LIFT	M400	4000	2670	4710	5140	170	170	505	5	10	3300		
	M450	4500	2920	5210	5640	170	170	505	5	6	2900		
2-STAGE	FM300	3000	2120	3700	4100	1415	1000	505	5	10	3500		
FULL FREE LIFT	FM330	3300	2270	4000	4400	1565	1150	505	5	10	3500		
	TFM435	4350	2120	5100	5500	1460	925	522	5	6	3100		
3-STAGE	TFM450	4500	2170	5250	5650	1510	975	522	5	6	2800		
FULL	TFM480	4800	2270	5550	5950	1610	1075	522	5	6	2500		
FREE LIFT	TFM550	5400	2435	6150	6550	1835	1300	522	3	6	1800		
	TFM600	6000	2720	6750	7150	2060	1525	522	3	6	1300		

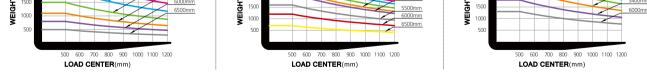
* : Standard

**TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

7A Series

25/30/35B-**7**A





Optional Items

- Tire : Pneumatic tire, Non-marking tire
- Non-suspension+Seat switch
- Grammer seat switch, Grammer seat switch+belt switch
- Fork(mm): 1070(STD), 1220, 1370, 1520, 1670, 1820, 2120
- Carriage(mm) : 1040(STD), 1300
- MCV: 2-spool(STD), 3-spool, 4-spool
- Rear horn, Fire extinguisher
- Full cabin, Air-conditioner, heater, Front+Top+Rear

- Mast OPSS
- Load weight indicator
- Front camera, Front/rear camera
- Lithium-ion battery

* Please select the seat with switch, if you need mast OPSS.

Specification

Ide	ntification	-			
1.1	Manufacturer (Abbreviation)			Hyundai	
1.2	Manufacturer's Type Designation		25B-7A	30B-7A	35B-7A
1.3	Drive : Electric (Battery Or Mains), Diesel, Petrol, Fuel Gas	Electric	Electric	Electric	
1.4	Type Of Operation : Hand, Pedestrian, Standing, Seated, Ord	Seated	Seated	Seated	
1.5	Load Capacity / Rated Load	Kg	2500	3000	3500
1.6	Load Center Distance	mm	500	500	500
1.8	Load Distance, Center Of Drive Axle To Fork	x mm	454	476	495
1.9	Wheelbase	y mm	1485	1670	1690
	ghts	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1105	10/0	1050
2.1.1	Service Weight	Kg	4160	4750	5250
2.2	Axle Loading, Loaded Front/Rear	Kg	5950 / 710	6897.5 / 852.5	7790 / 963
2.3	Axle Loading, Unloaded Front/Rear	ka	1750 / 2410	2065 / 2685	2285 / 2968
	s, Chassis				
3. 1	Tires : Solid Rubber, Superelastic, Pneumatic, Polyureth	ane	Solid Tire	Solid Tire	Solid Tire
3. 2	Tire Size, Front		23×9-10	23×9-10	23×10-12
3. 3	Tire Size, Rear		18×7-8	18×7-8	200/50-10
3.5	Wheels, Number Front / Rear (X = Driven Wheels)		2/2	2/2	2/2
3.6	Tread, Front	Mm	1058	1065	1124
3. 7	Tread, Rear	mm	960	980	1010
Dim	ensions				
4.1	Tilt Of Mast/Fork Carriage Forward/Backrward	0	5/10	5/10	5/10
4.2	Height, Mast Lowered	h1 (mm)	2015	2045	2120
4.3	Free Lift	mm	140	165	170
4.4	Lift Height	h3 (mm)	3000	3000	3000
4.5	Height, Mast Extended	h4 (mm)	4017	4140	4140
4.7	Height Of Overhead Guard (Cabin)	h5 (mm)	2152	2152	2138
4.8	Seat Height / Stand Height Rel. To Sip	mm	1050	1050	1050
4.12	Coupling Height	mm	175	175	175
4.19	Overall Length	I1 (mm)	3356	3618	3709
4.20	Length To Face Of Forks	mm	2286	2548	2639
4.21	Overall Width	b1 (mm)	1285	1285	1365
4.22	Fork Dimension	mm	1070×122×40	1070×125×45	1070×130×50
4.23	Fork Carriage ISO 2328, Class / Type A, B	-	A	A	А
4.24	Fork-Carriage Width	b3 (mm)	250-1000	250-1060	250-1060
4.31	Ground Clearance, Below Mast, Loaded	mm	40	45	50
4.32	Ground Clearance, Center Of Wheelbase	mm	130	130	115
4.33	Aisle Width For Pallets 1000 X 1200 Crossways (L X W)	mm	3732	4023	4100
4.34	Aisle Width Of Pallets 800 X 1200 Crossways (W X L)	mm	3932	4223	4300
4.35	Turning Radius	Wa (mm)	2095	2349	2405
4.36	Smallest Pivot Point Distance	mm	600	600	600

Per	formance Data				
5.1	Travel Speed, Loaded / Unloaded	km/h	15 / 16	15 / 16	15 / 16
5.2	Lift Speed, Loaded / Unloaded	mm/s	280 / 440	280 / 400	280 / 384
5.3	Lowering Speed, Loaded / Unloaded	mm/s	470 / 430	400 / 315	400 / 315
5.5	Drawbar Pull, Loaded / Unloaded	KN	12.9 / 8.1	15.2 / 9.3	17.1 / 10.3
5.6	Max. Drawbar Pull, Loaded / Unloaded	KN	12.9 / 8.1	15.2 / 9.3	17.1 / 10.3
5.7	Gradeability, Loaded / Unloaded	%	15 / 15	15 / 15	15 / 15
5.8	Max. Gradeability, Loaded / Unloaded	%	15 / 15	15 / 15	15 / 15
5.9.1	Acceleration Time, Loaded / Unloaded (Over 10M)	s	5	5	5
5.10	Service Brake	-	hydr.	hydr.	hydr.
E - I	Notor	~			
6.1	Drive Motor Rating S2 60 Min	kW	8.5	11.5	11.5
6.2	Lift Motor Rating At S3 15%	kW	11.0	15.0	15.0
6.4	Battery Voltage, Nominal Capacity K5	V/Ah	48 / 600	80 / 500	80 / 500
6.5	Battery Weight	Kg	1100	1420	1420
6.7	Battery Compartment Dimensions L/W/H	mm	1028 / 500 / 730 (780)	1028 / 674 / 730 (780)	1028 / 674 / 730 (780)
Add	lition Data				
8.1	Type Of Drive Control	-	AC	AC	AC
8.2	Operating Pressure, System / Attachments	bar	17.5	17.5	17.5
8.4	Sound Level At The Driver's Ear According to Din 12053	dB	75	75	75
8.5	Trailer Coupling, Type Din	-	PIN	PIN	PIN

7A Series

Dimension



 \ast Exterior designs and forklift options in this catalog may change for improvement

MEMO

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You can visit the website by scanning the QR code.

