Hyundai 9 Series battery forklift

25·30·32
35B-9U



Some of the photos may include optional equipment.

HD HYUNDAI XITESOLUTION

Your satisfaction is our priority.

Proven AC technology!
Hyundai 9 Series battery forklift

Introducing the new, upgraded Hyundai 9 Series electric pneumatic tire forklift.

The new B-9U Series brings customer added value to the next level by dramatically improving energy costs and enhancing powertrain durability.

Work efficiency & productivity
- 32% increase in energy efficiency with EHPS (Electro Hydraulic Power Steering) system application
- Powerful and precise driving performance of dual drive motors
- Vehicle performance optimized for various working conditions
- Directional & horn switch on lever (OPT)
- 2 Door bolt on type cabin (OPT)

Durability & reliability
- Stiffer drive unit input shaft
- Dual micom with improved data processing reliability : ZAPI Controller
- Semipermanent Oil Cooled Disc Brake
- IP43 Motor & IP65 Controller

Safety
- EHPS (Electro Hydraulic Power Steering)
- Automatic deceleration in travel speed when turning (at curve)
- Prevention of rear roll back when restarting after ramp stop
- Maximum driving speed setting
- Operator presence sensing system (OPSS)

Easy management
- Self-diagnosis of electric system failure
- Durable Continental solid tire
- Brake fluid level sensing system



Some of the photos may include optional equipment.

Power & Performance

High Efficiency & Optimal Performance

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





Some of the photos may include optional equipment.

Strong driving power : Dual drive motor system UPGRADE

The dual drive motor system consists of two separately controlled drive motors. Unlike the single drive motor system, it prevents the wheels from spinning even when the grip force of the left and right wheels is different. In addition, it enables strong drive performance even on a dirty road. As the pivot point is the axle of the wheels, the dual system enables relatively small turning radius compared to the single system, thus improving efficiency in small worksites.



Some of the photos may include optional equipment.

Improvement in energy consumption

EHPS (Electro Hydraulic Power Steering) system only functions when the driver operates the steering handle and significantly reduces the energy consumption rate because unlike the existing hydraulic power steering (HPS) system, it does not have a standby mode or a priority valve for supplying hydraulic power to the steering line. Moreover, the hydraulic pump noise generated from the steering standby mode of the HPS system has been completely eliminated.

Previous model (25B-9 : 715Ah) : **185 minutes (100%)**

Upgraded model (25B-9U : 660Ah) : **259minutes (140%)**

* The figures above are based on Hyundai's test results for a single charge cycle and may differ from actual working conditions.

UPGRADE



EHPS (Electro Hydraulic Power Steering)

Equipped with both the energy efficiency of the electric power steering system and the stability of the hydraulic power steering system, the EHPS system is composed of a torque sensor, controller, motor, hydraulic pump, and steering cylinder, and operates efficiently with little energy required.

UPGRADE



Dual MiCOM ZAPI controller

With a dual micom on the inside, ZAPI's new AC controller safely controls the forklift by processing signals and faults via a two-way method, and is protected from moisture and other pollutants as IP65. Also, the drive controller capacity is optimized and a left and right split structure is adopted to reduce energy consumption.



Robust and economical AC motor

The enclosed drive and pump motor with AC technology combine power, extended maintenance intervals and excellent durability. The brushless AC motors offer improved efficiency and reduction maintenance cost. It is certified IP43.



Wet disc brake

The semi-permanent wet disc brake provides constant braking force without overheating even when used for long hours of repetitive work, thus improving work efficiency.



Optimized operation mode setting

Through the cluster and ZAPI controller function, optimal performance mode-H (High), N (Normal), E (Economic)- can be selected based on working conditions, worksite size and operator's proficiency.



Turtle mode

Selecting turtle mode allows the operator to reduce travel to a pre-set speed, which is ideal when working in narrow and or congested work areas.

Optimized Ergonomics & Fast and Easy Maintenance

An ideal arrangement of components ensures easy access and convenience for maintenance.



Some of the photos may include optional equipment.

Ergonomically designed workspace

Ergonomic design focusing on operator convenience and maneuverability further enhances work efficiency. Easy to operate levers and pedals, adjustable handle, 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.



Some of the photos may include optional equipment.



Grammer seat

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

- Accommodates operator weights from 50 to 160 kg.
- ELR (Emergency Locking Retractable) type seat belt
- Heater and headrest (OPT)



Steering wheel position

A steering sensor is applied to the king pin of the rear axle, communicates to the LCD color monitor to show the direction of the vehicle as it relates to the angle of the steer wheel.



Directional & horn switch on lever (OPT)

An optional electronic directional control and secondary horn are mounted to the hydraulic lift lever for quick and precise directional control. Also, the position of the horn button provides quick access if needed.



Adjustable tilting handle

The handle angle can be adjusted with the lever on the right side of the steering wheel to suit the operator's physique and driving habit.

4.3inch LCD color monitor

The LCD color monitor with 4.3 inch graphic smart display allows the operator to identify speed, travel direction, and operating hours and control the machine efficiently. The load indicator displays the load weight in the monitor. The operator can select various performance modes to meet all working conditions. Multilanguage (maximum 11) is available.



Main functions

❶ Speed (Digital)
❷ Steering wheel position and travel direction
❸ Battery discharge indicator
❹ Scroll up
❺ Menu / Scroll Left
❻ Performance / Scroll right
❼ Turtle / Scroll down
❽ ESC / Back
❾ Enter
❿ Low brake oil warning lamp
⓫ Error warning lamp
⓬ High temp warning lamp



Easy maintenance of battery

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.



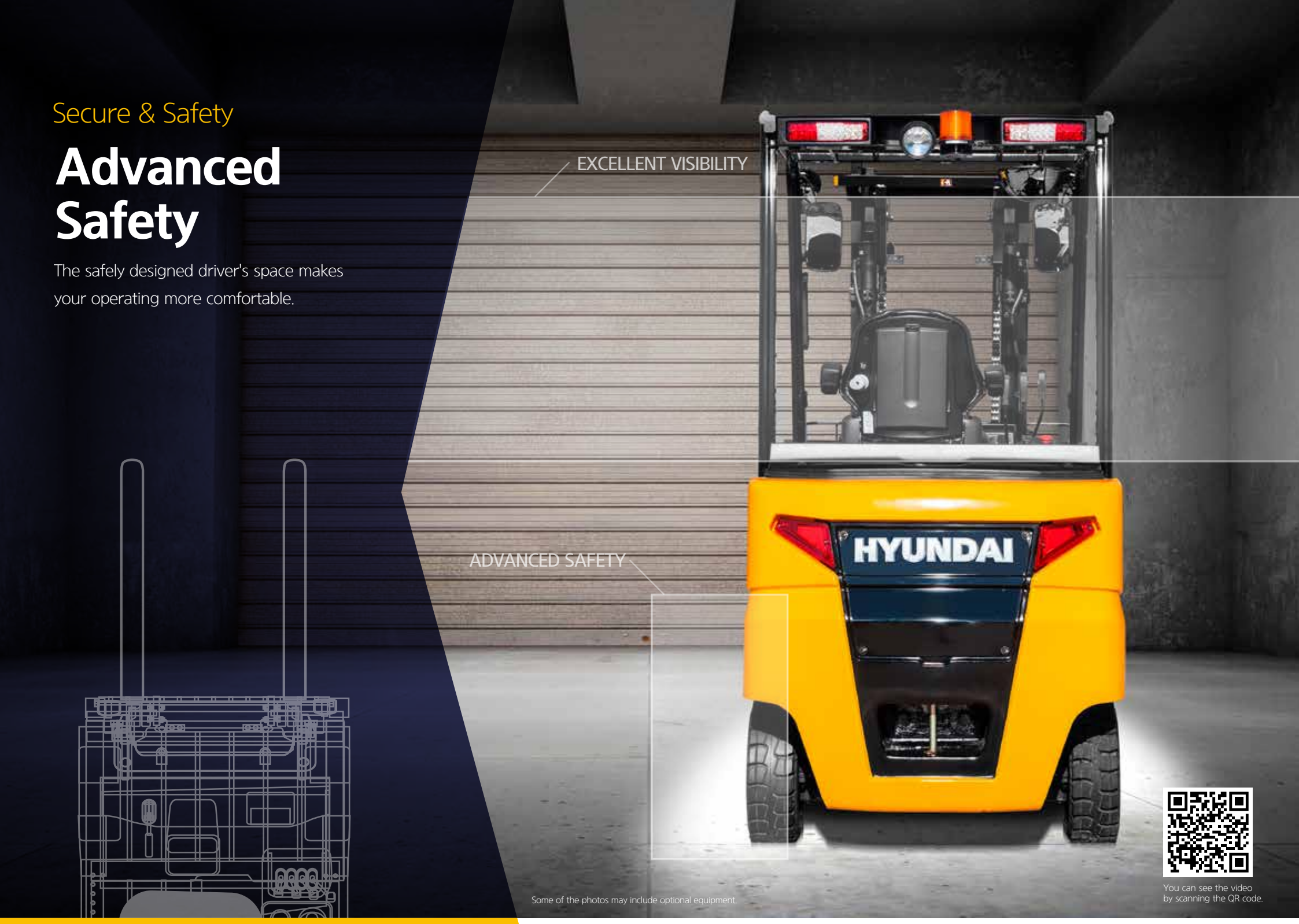
Brake oil reservoir with level sensor

The enhanced brake oil reservoir, located in the upper left dash is equipped with an electronic level sensor that shows the level in the LCD color monitor.

Secure & Safety

Advanced Safety

The safely designed driver's space makes your operating more comfortable.



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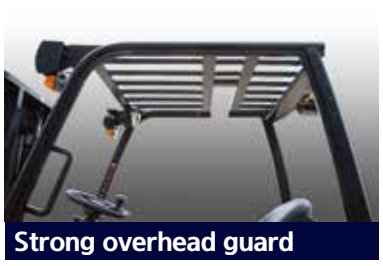
You can see the video by scanning the QR code.

Excellent visibility for safe operation

Lift cylinders and lifting chains are positioned behind the mast rails for optimum visibility. A rear camera(OPT) and panoramic mirror expands the driver's view when backing up.

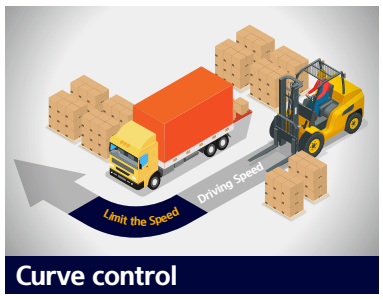


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Strong overhead guard

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



Curve control

Curve Control limits travel speed based on turning radius, reducing speed for a smooth, precise turning operation for the driver.

Maximum speed control

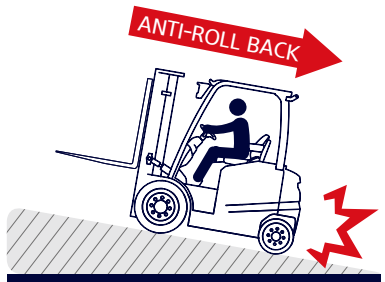
The operator can set and limit the maximum speed from 10 km/h to 1 km/h unit, given the curve & congestion of an aisle and the shape of the load.

Password starting system

The operator can set a password to prevent vehicle theft and possible safety accidents in case the vehicle is used by an unauthorized person.

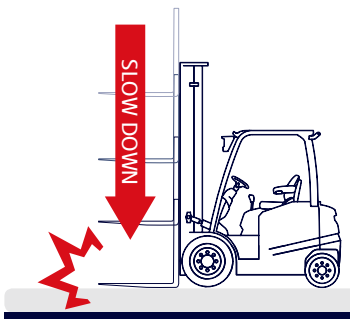
Safety features

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



Anti-roll back system

This system prevents the forklift from rolling rapidly down a slope when the accel pedal & brake pedal are not applied while also offering improved ramp start-up abilities.



Fork safety features

When the forks are being lowered, a down-control valve maintains the controlled 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.



Strengthened work safety

Rear LED lights and halogen lights offer excellent visibility even during night operations. Safety has been increased by installing additional reflectors on the counterweight.


Some of the photos may include optional equipment

High quality Li-ION battery (OPT)

Rapidly chargeable Li-ION battery ensure performance of the equipment with vastly reduced charge times, allowing extended hours of continued operation on a single charge. Moreover, it lasts at least twice longer than lead / sulfuric acid counterparts, and does not necessitate management of distilled water. Also, Li-ION battery using the prismatic cells provides excellent performance and safety.

Benefits of HCE's Li-ION battery

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.

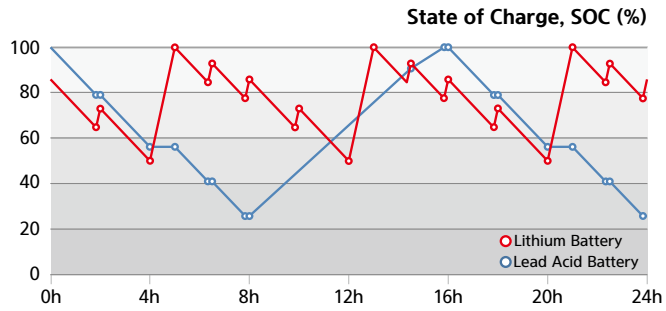
Safety
- Multi-layered protection on cell.
- Enclosed battery case made of high-strength steel.
- Prevention of overheating, excessive electricity discharge or recharging through Battery Manage System.

Easy maintenance
- No need to replenish distilled water or electrolytes.
- Battery life at least twice longer than that of lead / sulfuric acid batteries. (over 4,000 cycles)
- No emission of harmful gases and no restriction on the charging location.

Cost savings
- Charging efficiency higher than lead / sulfuric acid batteries. (80% → 90%)
- 15,000 operational hours guaranteed for 5 years.



- Li-ION battery capacity :
  -25/30/32/35B-9U : 51.5V/564Ah



- Graph comparing the charge and discharge

New 9 Series Mast Specification

25/30/32/35B-9U

25B-9U

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free lift height			Tilt Angle		Load capacity (500mm LC) w/o side shift	Load capacity (500mm LC) w/ side shift	Truck Weight (Unloaded)
				W/ Load Backrest	W/o Load Backrest	W/o Load Backrest (3/4-SPOOL)	Fwd	Bwd			
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-STAGE LIMITED FREE LIFT	V300	3,005	2,012	115	115	115	6	10	2,500	2,500	4,339
	※V330	3,305	2,162				6	10	2,500	2,500	4,362
	V350	3,505	2,262				6	10	2,500	2,500	4,376
	V370	3,705	2,412				6	10	2,500	2,470	4,398
	V400	4,005	2,562				6	10	2,500	2,420	4,419
	V450	4,505	2,862				6	6	2,400	2,320	4,498
2-STAGE FULL FREE LIFT	VF/VS325	3,276	2,162	982	1,529	1,529	6	6	2,500	2,500	4,419
3-STAGE FULL FREE LIFT	TF430	4,305	2,012	832	1,379	1,379	6	6	2,450	2,370	4,560
	TF450	4,505	2,112	932	1,479	1,479	6	6	2,400	2,320	4,582
	TF470	4,705	2,162	982	1,529	1,529	6	6	2,350	2,270	4,594
	TF500	5,005	2,262	1,082	1,629	1,629	6	6	1,880	1,850	4,618
	TF550	5,505	2,462	1,282	1,829	1,829	6	6	1,550	1,430	4,659
	TF600	6,005	2,662	1,482	2,029	2,029	6	6	1,400	1,280	4,698
	TF650	6,505	2,862	1,682	2,061	1,921	3	3	1,350	1,230	4,737
	TF700	7,005	3,062	1,882	2,261	2,121	3	3	1,150	1,050	4,773
	TS430	4,305	2,012	832	1,379	1,379	6	6	2,450	2,370	4,560
	TS450	4,505	2,112	932	1,479	1,479	6	6	2,400	2,320	4,582
	TS470	4,705	2,162	982	1,529	1,529	6	6	2,350	2,270	4,594
	TS500	5,005	2,262	1,082	1,629	1,629	6	6	1,880	1,850	4,618
	TS550	5,505	2,462	1,282	1,829	1,829	6	6	1,550	1,430	4,659
	TS600	6,005	2,662	1,482	2,029	2,029	6	6	1,400	1,280	4,698
4-STAGE FULL FREE LIFT	QF610	6,115	2,147	967	1,413	1,462	3	3	1,650	1,520	4,912
	QF700	7,015	2,447	1,267	1,713	1,762	3	3	1,300	1,190	5,002

※ TF-Mast : Wide Visible 3-Stage Full Free Lift Mast with 1 Free Lift Cylinders
※ TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders

※ : Standard

30B-9U

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free lift height			Tilt Angle		Load capacity (500mm LC) w/o side shift	Load capacity (500mm LC) w/ side shift	Truck Weight (Unloaded)
				W/ Load Backrest	W/o Load Backrest	W/o Load Backrest (3/4-SPOOL)	Fwd	Bwd			
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-STAGE LIMITED FREE LIFT	V300	3,005	2,012	115	115	115	6	10	3,000	3,000	4,614
	※V330	3,305	2,162				6	10	3,000	3,000	4,633
	V350	3,505	2,262				6	10	3,000	3,000	4,650
	V370	3,705	2,412				6	10	3,000	3,000	4,672
	V400	4,005	2,562				6	10	3,000	3,000	4,694
	V450	4,505	2,862				6	6	3,000	2,950	4,772
2-STAGE FULL FREE LIFT	VF/VS325	3,276	2,162	982	1,529	1,529	6	6	3,000	2,950	4,667
3-STAGE FULL FREE LIFT	TF430	4,305	2,012	832	1,317	1,281	6	6	3,000	2,950	4,821
	TF450	4,505	2,112	932	1,417	1,417	6	6	3,000	2,870	4,848
	TF470	4,705	2,162	982	1,467	1,431	6	6	2,950	2,820	4,863
	TF500	5,005	2,262	1,082	1,567	1,531	6	6	2,250	2,180	4,889
	TF550	5,505	2,462	1,282	1,767	1,767	6	6	1,750	1,590	4,931
	TF600	6,005	2,662	1,482	1,967	1,967	6	6	1,450	1,310	4,971
	TF650	6,505	2,862	1,682	2,061	1,921	3	3	1,400	1,260	5,012
	TF700	7,005	3,062	1,882	2,261	2,121	3	3	1,200	1,080	5,052
	TS430	4,305	2,012	832	1,317	1,253	6	6	3,000	2,950	4,821
	TS450	4,505	2,112	932	1,417	1,403	6	6	3,000	2,870	4,848
	TS470	4,705	2,162	982	1,467	1,403	6	6	2,950	2,820	4,863
	TS500	5,005	2,262	1,082	1,567	1,503	6	6	2,250	2,180	4,889
	TS550	5,505	2,462	1,282	1,767	1,753	6	6	1,750	1,590	4,931
	TS600	6,005	2,662	1,482	1,967	1,953	6	6	1,450	1,310	4,971
4-STAGE FULL FREE LIFT	QF610	6,115	2,147	967	1,514	1,514	3	3	1,700	1,550	5,153
	QF700	7,015	2,447	1,267	1,814	1,814	3	3	1,200	1,080	5,243

※ TF-Mast : Wide Visible 3-Stage Full Free Lift Mast with 1 Free Lift Cylinders
※ TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders

※ : Standard

32B-9U

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free lift height			Tilt Angle		Load capacity (500mm LC) w/o side shift	Load capacity (500mm LC) w/ side shift	Truck Weight (Unloaded)
				W/ Load Backrest	W/o Load Backrest	W/o Load Backrest (3/4-SPOOL)	Fwd	Bwd			
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-STAGE LIMITED FREE LIFT	V300	3,005	2,082	115	115	115	6	10	3,200	3,200	4,799
	※V330	3,305	2,232				6	10	3,200	3,200	4,820
	V350	3,505	2,332				6	10	3,200	3,070	4,828
	V370	3,705	2,482				6	10	3,190	3,060	4,846
	V400	4,005	2,632				6	10	3,120	2,990	4,863
	V450	4,505	2,932				6	6	3,000	2,870	4,933
2-STAGE FULL FREE LIFT	VF/VS325	3,276	2,232	1,063	1,527	1,527	6	6	3,200	3,200	4,869
3-STAGE FULL FREE LIFT	TF430	4,305	2,082	902	1,312	1,312	6	6	3,060	2,980	5,030
	TF450	4,505	2,182	1,002	1,412	1,412	6	6	3,010	2,900	5,072
	TF470	4,705	2,232	1,052	1,462	1,462	6	6	2,980	2,850	5,087
	TF500	5,005	2,332	1,152	1,562	1,562	6	6	2,500	2,300	5,111
	TF550	5,505	2,532	1,352	1,762	1,762	6	6	2,200	2,010	5,156
	TF600	6,005	2,732	1,552	1,962	1,962	6	6	1,500	1,360	5,200
	TF650	6,505	2,932	1,752	2,162	2,061	3	3	1,450	1,310	5,244
	TF700	7,005	3,132	1,952	2,362	2,261	3	3	1,250	1,120	5,289
	TS430	4,305	2,082	902	1,312	1,312	6	6	3,060	2,980	5,030
	TS450	4,505	2,182	1,002	1,412	1,412	6	6	3,010	2,900	5,072
	TS470	4,705	2,232	1,052	1,462	1,462	6	6	2,980	2,850	5,087
	TS500	5,005	2,332	1,152	1,562	1,562	6	6	2,500	2,300	5,111
	TS550	5,505	2,532	1,352	1,762	1,762	6	6	2,200	2,010	5,156
	TS600	6,005	2,732	1,552	1,962	1,962	6	6	1,500	1,360	5,200
4-STAGE FULL FREE LIFT	QF610	6,115	2,136	967	1,514	1,514	3	3	1,800	1,680	5,368
	QF700	7,015	2,436	1,267	1,814	1,814	3	3	1,300	1,290	5,458

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※ : Standard

35B-9U

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free lift height			Tilt Angle		Load capacity (500mm LC) w/o side shift	Load capacity (500mm LC) w/ side shift	Truck Weight (Unloaded)
				W/ Load Backrest	W/o Load Backrest	W/o Load Backrest (3/4-SPOOL)	Fwd	Bwd			
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-STAGE LIMITED FREE LIFT	V300	3,005	2,093	115	115	115	6	10	3,500	3,500	4,999
	※V330	3,305	2,243				6	10	3,500	3,500	5,020
	V350	3,505	2,343				6	10	3,500	3,500	5,028
	V370	3,705	2,493				6	10	3,500	3,500	5,046
	V400	4,005	2,643				6	10	3,500	3,430	5,063
	V450	4,505	2,943				6	6	3,450	3,300	5,133
2-STAGE FULL FREE LIFT	VF/VS325	3,276	2,243	1,063	1,527	1,527	6	6	3,500	3,430	5,069
3-STAGE FULL FREE LIFT	TF430	4,305	2,093	913	1,377	1,377	6	6	3,450	3,300	5,230
	TF450	4,505	2,193	1,013	1,477	1,477	6	6	3,400	3,250	5,272
	TF470	4,705	2,243	1,063	1,527	1,527	6	6	3,350	3,200	5,287
	TF500	5,005	2,343	1,163	1,627	1,627	6	6	2,650	2,500	5,311
	TF550	5,505	2,543	1,363	1,827	1,827	6	6	2,380	2,250	5,356
	TF600	6,005	2,743	1,563	2,027	2,027	6	6	1,700	1,550	5,400
	TF650	6,505	2,943	1,763	2,201	2,061	3	3	1,590	1,450	5,444
	TF700	7,005	3,143	1,963	2,401	2,261	3	3	1,350	1,250	5,489
	TS430	4,305	2,093	913	1,377	1,377	6	6	3,450	3,300	5,230
	TS450	4,505	2,193	1,013	1,477	1,477	6	6	3,400	3,250	5,272
	TS470	4,705	2,243	1,063	1,527	1,527	6	6	3,350	3,200	5,287
	TS500	5,005	2,343	1,163	1,627	1,627	6	6	2,650	2,500	5,311
	TS550	5,505	2,543	1,363	1,827	1,827	6	6	2,380	2,250	5,356
	TS600	6,005	2,743	1,563	2,027	2,027	6	6	1,700	1,550	5,400
4-STAGE FULL FREE LIFT	QF610	6,115	2,147	967	1,514	1,514	3	3	1,920	1,800	5,568
	QF700	7,015	2,447	1,267	1,814	1,814	3	3	1,410	1,300	5,658

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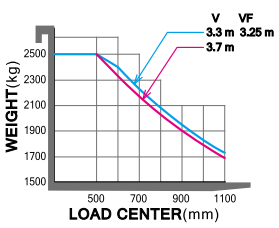
※ : Standard

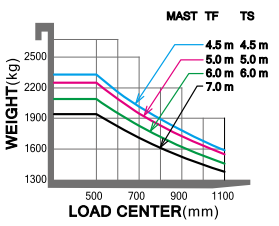
New 9 Series

25/30/32/35B-9U

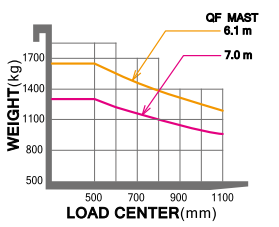
Load Capacity

25B-9U

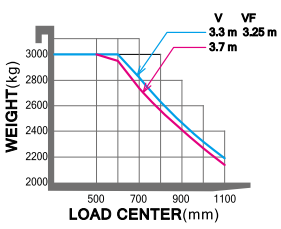


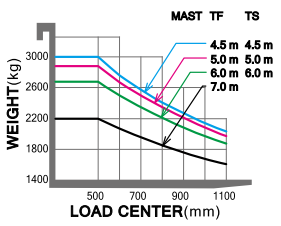


*TS700 MAST is N/A

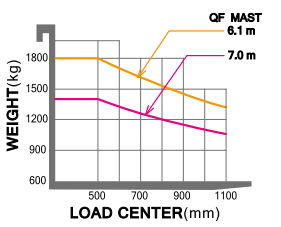


30B-9U

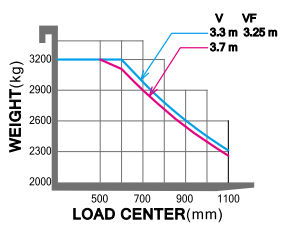


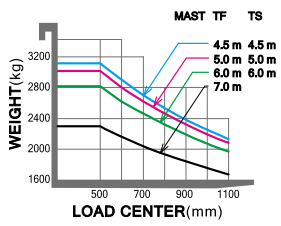


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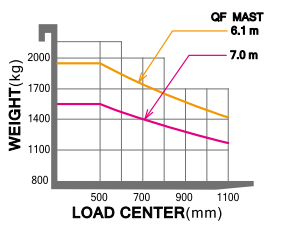


32B-9U

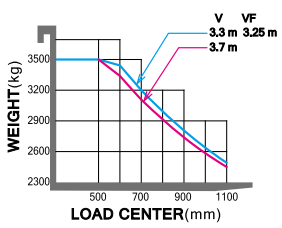


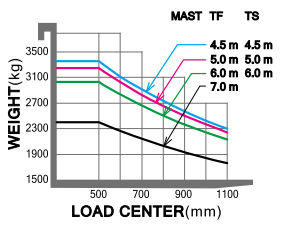


*TS700 MAST is N/A

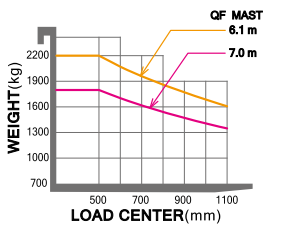


35B-9U





*TS700 MAST is N/A

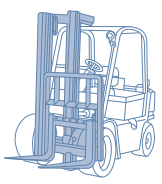


Optional Items

- Fork(mm)
  25B-9U : 900/1,000/1,050(STD)/1,200 1,350/1,500/1,650/1,800/2,100
  30/32/35B-9U : 900/1,050(STD)/1,150 1,200/1,350/1,500/1,650/1,800/1,970 2,120/2,300/2,400
- Integral side shift
- Tire :
  Solid (STD) / pneumatic / non-marking
  Wide [25/30/32B-9U : Front(23X10-12)]
- Finger Tip Control
- Cold Strage : Applicable to working conditions of up to -30°C
- M.C.V : 2-Spool(STD), 3-Spool, 4-Spool
- Auto fork leveling
- Load weight indicator
- Side battery removal
- Cabin (one-door)
  ① FRONT + ROOF + REAR
  ② FRONT + ROOF + REAR + DOOR
  ③ FRONT + ROOF + REAR + DOOR + HEATER

Various Attachments

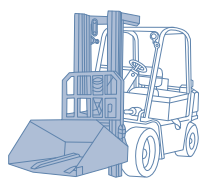
Side Shift



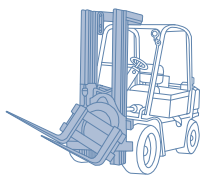
Hinged Fork



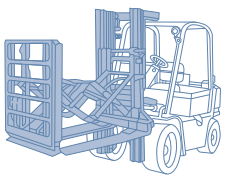
Hinged Bucket



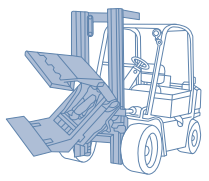
Rotating Fork



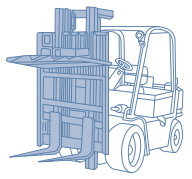
Push Pull



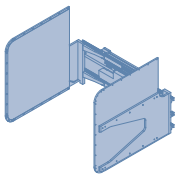
Rotating Roll Clamp



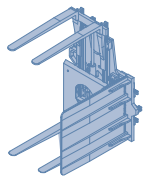
Load Stabilizer



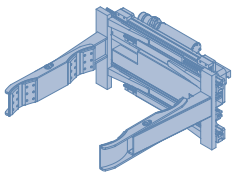
Carton Clamp



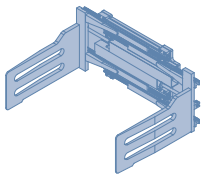
Pallet Invert



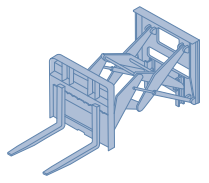
Drum Clamp



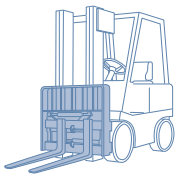
Bale Clamp



Load Extender



Fork Positioner



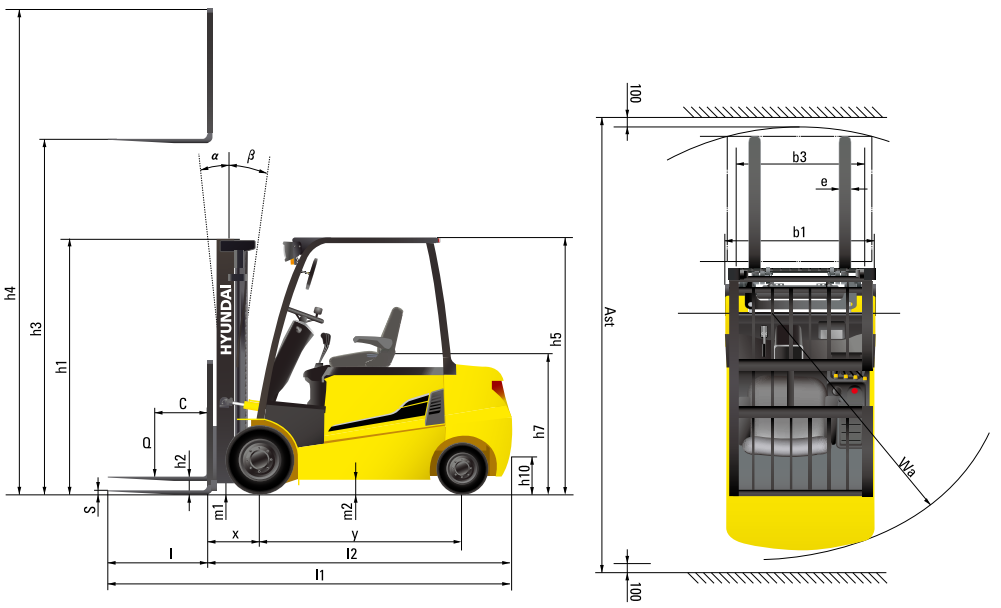
* Exterior designs and forklift options in this catalog may change for improvement

Specification

DISTINGUISHING MARK						
1.1	Manufacturer (Abbreviation)		HYUNDAI			
1.2	Manufacturer's Type Designation		25B-9U	30B-9U	32B-9U	35B-9U
1.3	Drive : Electric (Battery Or Mains), Diesel, Petrol, Fuel Gas		Electric	Electric	Electric	Electric
1.4	Type Of Operation: Hand, Pedestrian, Standing, Seated, Order-Picker		seated	seated	seated	seated
1.5	Load Capacity / Rated Load	kg	2,500	3,000	3,200	3,500
1.6	Load Center Distance	c mm	500	500	500	500
1.8	Load Distance, Center Of Drive Axle To Fork	x mm	458	458	458	470
1.9	Wheelbase	y mm	1,400	1,600	1,600	1,600
WEIGHT						
2.1	Service Weight	kg	4,360	4,633	4,820	5,020
2.2	Axle Loading, Loaded Front / Rear	kg	6,016 / 844	6,812 / 820	7,095 / 925	7,537 / 983
2.3	Axle Loading, Unloaded Front / Rear	kg	1,805 / 2,555	2,016 / 2,617	1,980 / 2,840	1,915 / 3,105
TIRES, CHASSIS						
3.1	Tires : Solid Rubber, Superelastic, Pneumatic, Polyurethane		SE, P	SE, P	SE, P	SE, P
3.2	Tire Size, Front		23X9-10	23X9-10	23X9-10	23X10-12
3.3	Tire Size, Rear		18X7-8	18X7-8	18X7-8	18X7-8
3.5	Wheels, Number Front / Rear (X = Driven Wheels)		2x/2	2x/2	2x/2	2x/2
3.6	Tread, Front	mm	993	993	993	1005
3.7	Tread, Rear	mm	980	980	980	980
DIMENSIONS						
4.1	Tilt Of Mast / Fork Carriage Forward / Backrward	degrees	6 / 10	6 / 10	6 / 10	6 / 10
4.2	Height, Mast Lowered	h1 (mm)	2,162	2,162	2,232	2,243
4.3	Free Lift	h2 (mm)	115	115	115	115
4.4	Lift Height	h3 (mm)	3,300	3,300	3,300	3,300
4.5	Height, Mast Extended	h4 (mm)	4,485	4,485	4,485	4,485
4.7	Height Of Overhead Guard (Cabin)	h5 (mm)	2,230	2,230	2,230	2,230
4.8	Seat Height / Stand Height Rel. To Sip	h7 (mm)	1,275	1,275	1,275	1,275
4.12	Coupling Height	h10 (mm)	325	325	325	325
4.19	Overall Length	l1 (mm)	3,345	3,535	3,553	3,640
4.20	Length To Face Of Forks	l2 (mm)	2,295	2,485	2,503	2,590
4.21	Overall Width	b1 (mm)	1,200	1,200	1,200	1,250
4.22	Fork Dimensions	l ×e ×s (mm)	1,050×100×45	1,050×122×45	1,050×122×45	1,050×122×45
4.23	Fork Carriage Iso 2328, Class / Type A, B		II/A	III /A	III /A	III /A
4.24	Fork-Carriage Width	b3 (mm)	1,102	1,102	1,102	1,102
4.31	Ground Clearance, Below Mast, Loaded	m1 (mm)	117	117	117	128
4.32	Ground Clearance, Center Of Wheelbase	m2 (mm)	130	130	130	130
4.33	Aisle Width For Pallets 1000 × 1200 Crossways (L×W)	Ast (mm)	3,637	3,829	3,843	3,896
4.34	Aisle Width Of Pallets 800 × 1200 Crossways (W L)	Ast (mm)	3,803	4,009	4,023	4,076
4.35	Turning Radius	Wa (mm)	1,940	2,150	2,165	2,205

PERFORMANCE DATA						
5.1	Travel Speed, Loaded / Unloaded	km/h	17 / 18	17 / 18	17 / 18	17 / 18
5.2	Lift Speed, Loaded / Unloaded	mm/s	410 / 610	340 / 500	330 / 500	300 / 460
5.3	Lowering Speed, Loaded / Unloaded	mm/s	500 / 450	500 / 450	500 / 450	500 / 450
5.6	Max. Drawbar Pull, Loaded / Unloaded	N	14,710 / 14,690	14,640 / 14,700	14,580 / 14,660	14,580 / 14,410
5.8	Max. Gradeability, Loaded	%(°)	20(11.3)	19 (10.8)	18 (10.2)	16(9.1)
5.10	Service Brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
ELECTRIC-MOTOR						
6.1	Drive Motor Rating S2 60 Min	kw	7.0×2	7.0×2	7.0×2	7.0×2
6.2	Lift Motor Rating At S3 15%	kw	17	17	17	17
6.4	Battery Voltage, Nominal Capacity K5	V/Ah	48 / 660	48 / 715	48 / 715	48 / 715
6.5	Battery Weight (Min.)	kg	1,090	1,150	1,150	1,150
	Battery Compartment Dimensions L/W/H	mm	1,035/802/540	1,035/1,000/540	1,035/1,000/540	1,035/1,000/540
ADDITION DATA						
8.1	Type Of Drive Control		AC	AC	AC	AC

Dimension



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MEMO