

MOVING YOU FURTHER

25·30·32

35B-9U



Some of the photos may include optional equipment.

Your satisfaction is our priority.

Proven AC technology! Hyundai 9 Series battery forklift

An upgrade of the Hyundai 9 Series counterbalance electric forklift, a new model of B-9U Series is ready for the customers.

This new model will bring 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 a dual drive motor
- Vehicle performance optimized for working conditions
- Directional & horn switch on lever (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

- 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





Power & Performance

High Efficiency & Optimal Performance

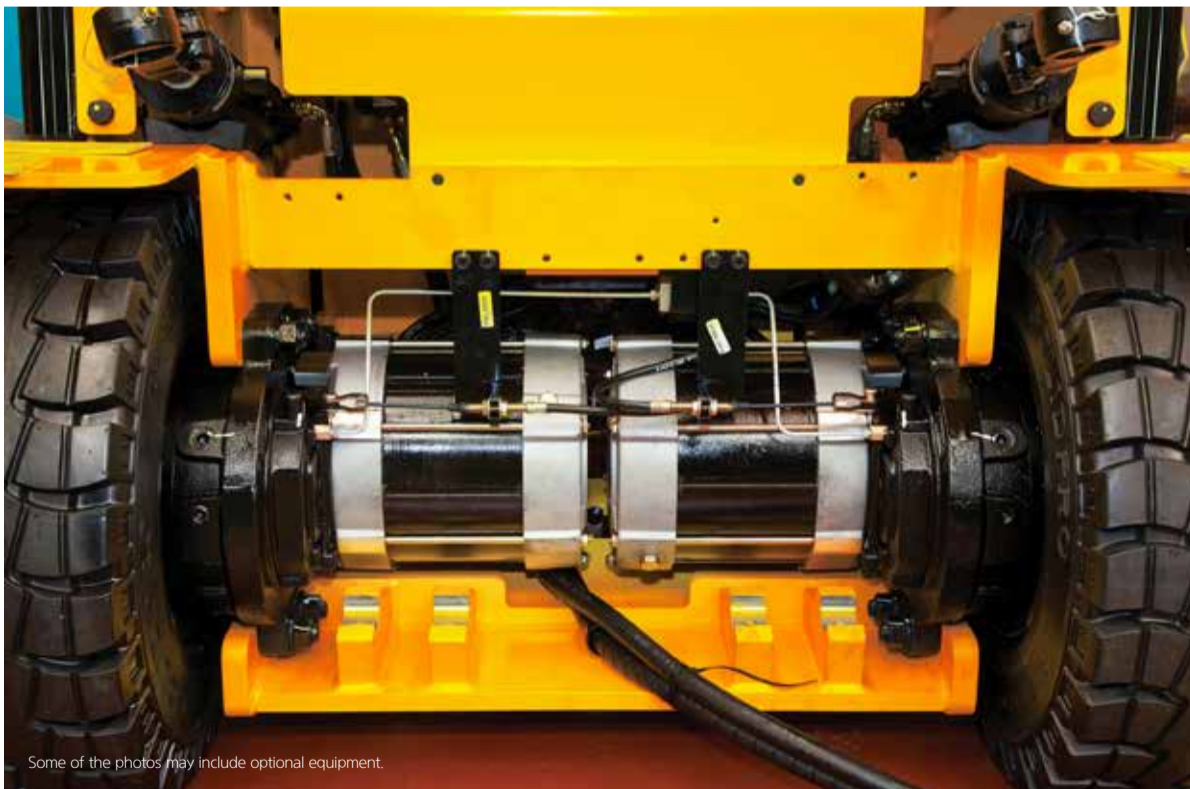
An efficient, smooth running and compact design provides enhanced performance and outstanding productivity.



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Strong driving power : Dual drive motor system

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 contaminated 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.



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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) : 185 minutes (100%)

Upgraded model (25B-9U) : 246 minutes (132%)

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



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.



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, high maintenance intervals and excellent durability. The brushless AC motors offer improved efficiency and reduction maintenance cost. It is certified IP43.



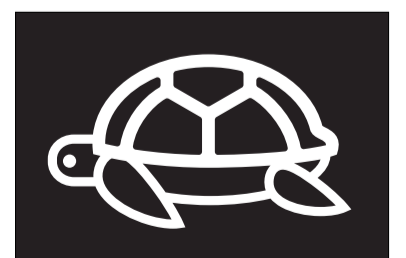
Wet disc brake

The semi-permanent brake improves work efficiency by providing consistent braking force without overheating despite lengthy. Maintenance costs are lower without brake linings that need regular replacement.



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

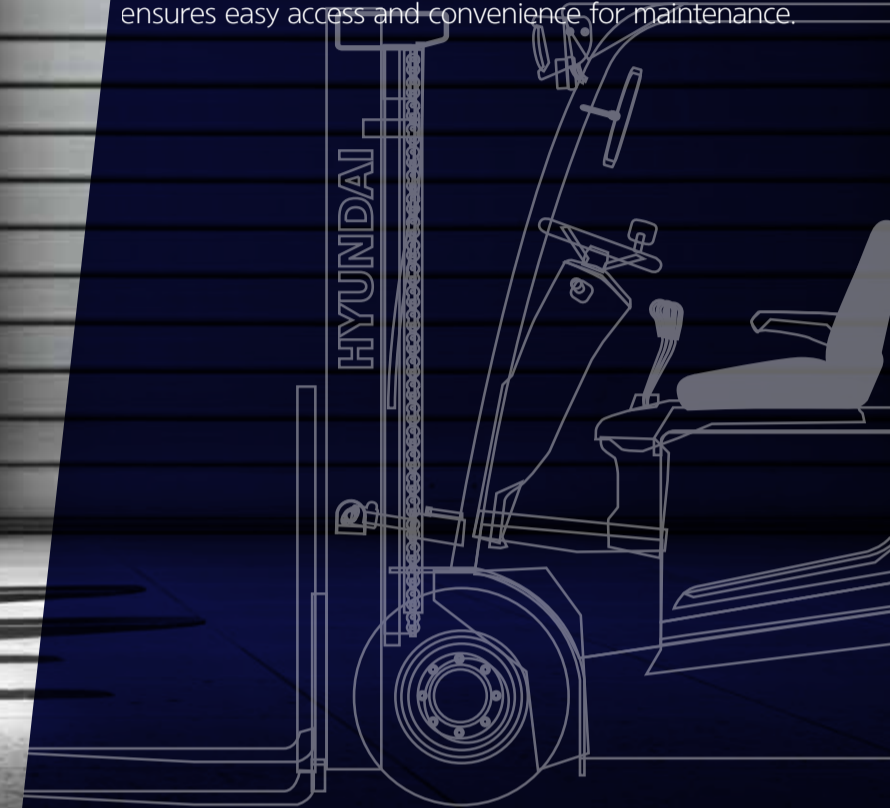
When selecting the turtle mode while working in narrow and congested workplace, the travel speed is reduced at a preset speed.



Easy & Comfort

Optimized Ergonomics & Fast and Easy Maintenance

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



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Ergonomically designed workspace

Ergonomic design focusing on operator convenience and maneuverability further enhances work efficiency. Easily operable 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.



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Grammer seat

The ergonomically designed suspension seat is adjustable to the driver's weight (50 – 160 kg), which reduces fatigue and increases comfort, and is highly stable due to the application of dual sensing (speed, angle control) ELR belts.
• Seat heater & headrest (OPT)

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 12) is available.



Main functions

- 1 Speed (Digital)
- 2 Steering wheel position and travel direction
- 3 Battery discharge indicator
- 4 Scroll up
- 5 Menu / Scroll Left
- 6 Performance / Scroll right
- 7 Turtle / Scroll down
- 8 ESC / Back
- 9 Enter
- 10 Low brake oil warning lamp
- 11 Error warning lamp
- 12 High temp warning lamp



Steering wheel position

As a measurement of the steering angle sensor, which is installed on the kingpin of the rear axle, is displayed on the large cluster screen as an image, the operator can predict the direction of the vehicle without difficulty.



Directional & horn switch on lever (OPT)

Electronic directional control and secondary horn are mounted to the hydraulic lift lever for quick and precise maneuvering. Also, the horn enables to enhance responsiveness in emergency.



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.



Easy maintenance of battery

The battery cover with full opened type enhances maintainability and the gas spring equipped with a cover to check the conditions easily.



Brake oil reservoir with level sensor

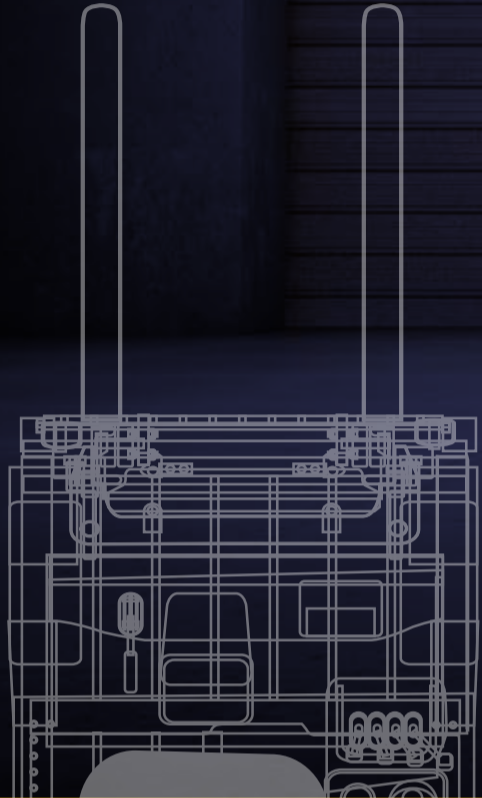
The enhanced brake oil reservoir, located in the upper left dash is equipped with an electronic level sensor and easily visible through the monitor.



Secure & Safety

Advanced Safety

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



EXCELLENT VISIBILITY

ADVANCED SAFETY



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Excellent visibility for safe operation

Optimized lift cylinder arrangement provides the operator with wider 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 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.

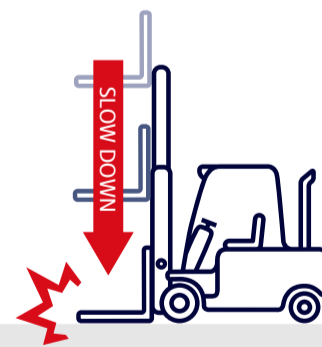
Safety features

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



Anti roll back system

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



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 an additional reflector on the counterweight.

New 9 Series

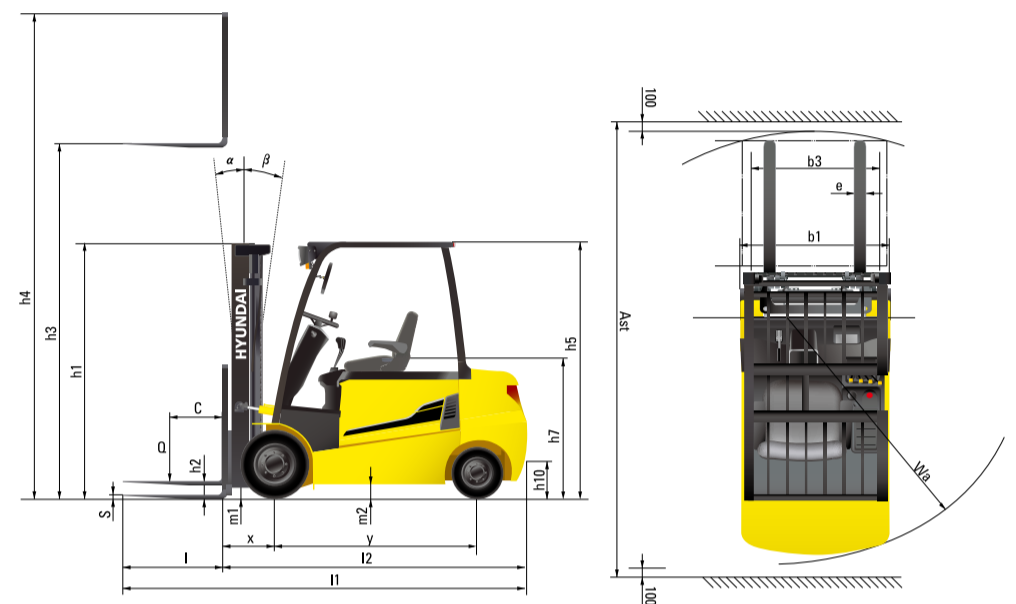
25/30/32/35B-9U

Specification

DISTINGUISHING MARK						
1.1	Manufacturer (Abbreviation)					
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 / Backward	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)	1,180	1,180	1,180	1,180
4.12	Coupling Height	h10 (mm)	325	325	325	325
4.19	Overall Length	l1 (mm)	3,345	3,538	3,553	3,640
4.20	Length To Face Of Forks	l2 (mm)	2,295	2,488	2,503	2,590
4.21	Overall Width	b1 (mm)	1,200	1,200	1,200	1,250
4.22	Fork Dimensions	l x e x s (mm)	1,050 x 100 x 45	1,050 x 122 x 45	1,050 x 122 x 45	1,050 x 122 x 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 x 1200 Crossways (L x W)	Ast (mm)	3,637	3,829	3,843	3,896
4.34	Aisle Width Of Pallets 800 x 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	420 / 600	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 / Unloaded	%(°)	22 (12.4)	19 (10.8)	18 (10.2)	17 (9.6)
5.10	Service Brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
ELECTRIC-MOTOR						
6.1	Drive Motor Rating S2 60 Min	kw	7.0x2	7.0x2	7.0x2	7.0x2
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
6.7	Battery Compartment Dimensions L/W/H	mm	1,066 / 796 / 537	1,066 / 990 / 537	1,066 / 990 / 537	1,066 / 990 / 537
ADDITION DATA						
8.1	Type Of Drive Control		AC	AC	AC	AC

Dimension



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

MEMO