





MOVING YOU FURTHER

**25·30·32**

**35B-9U**



Some of the photos may include optional equipment.

 **HYUNDAI**  
MATERIAL HANDLING



# Your satisfaction is our priority.

## **Proven AC technology!** **Hyundai 9 Series battery forklift**

Introducing the upgraded Hyundai 9 Series electric pneumatic tire forklift.

The new B-9U Series brings customer added value to the next level by dramatically reducing 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
- Oil Cooled Disc Brakes
- IP43 Motor & IP65 Controller

### **Safety**

- EHPS (Electro Hydraulic Power Steering)
- Curve Control
- 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



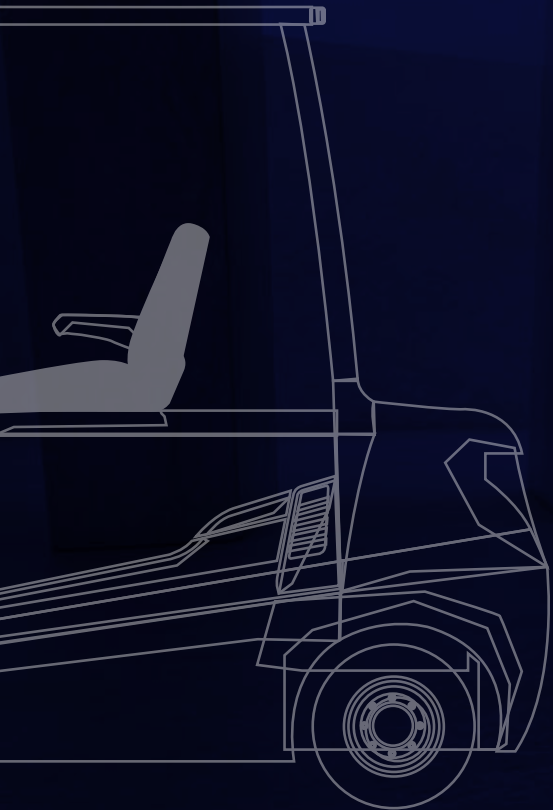




Power & Performance

# High Efficiency & Optimal Performance

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



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 traction 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) : 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.

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.



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.

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.



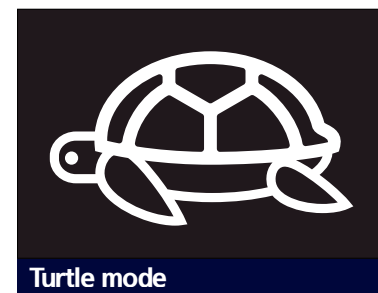
Wet disc brake

The semi-permanent brake improves work efficiency by providing consistent braking force since there are no 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

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.





Easy & Comfort

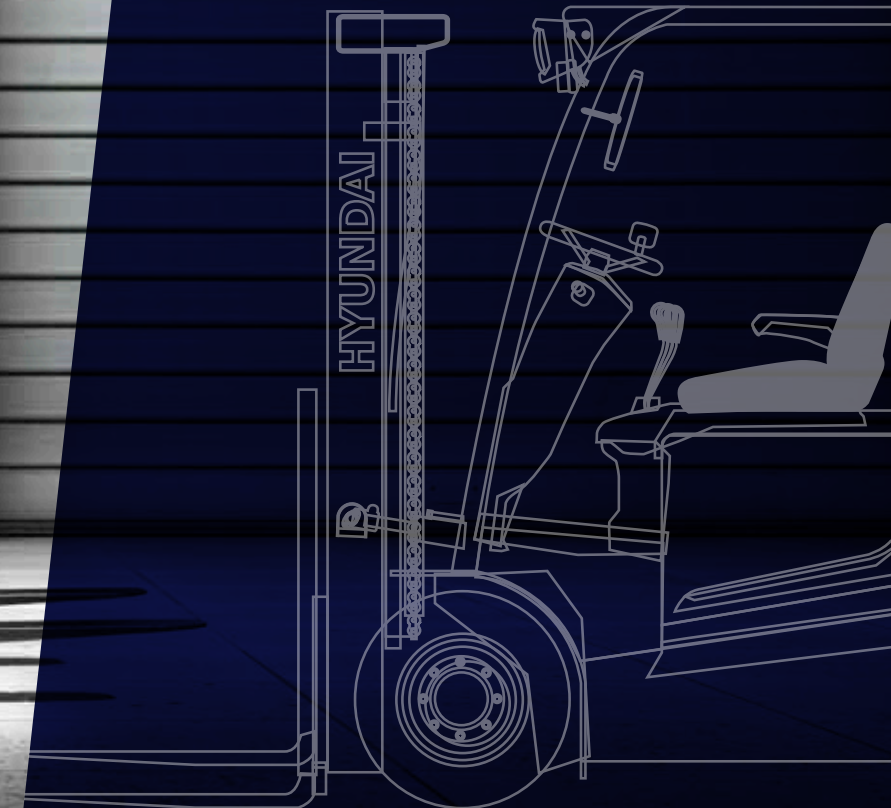
# Optimized Ergonomics & Fast and Easy Maintenance

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



COMFORTABLE WORKSPACE

ADVANCED MONITORING SYSTEM



## 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.



### Grammer seat

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

- Accommodates operator weights from 110 to 375 lbs.
- 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 provide quick access if needed.



### Adjustable steering wheel

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

## 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)                              | ⑦ Turtle / Scroll down       |
| ② Steering wheel position and travel direction | ⑧ ESC / Back                 |
| ③ Battery discharge indicator                  | ⑨ Enter                      |
| ④ Scroll up                                    | ⑩ Low brake oil warning lamp |
| ⑤ Menu / Scroll Left                           | ⑪ Error warning lamp         |
| ⑥ Performance / Scroll right                   | ⑫ 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.

EXCELLENT VISIBILITY

ADVANCED SAFETY



Some of the photos may include optional equipment.

## 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.



Some of the photos may include optional equipment.



### 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

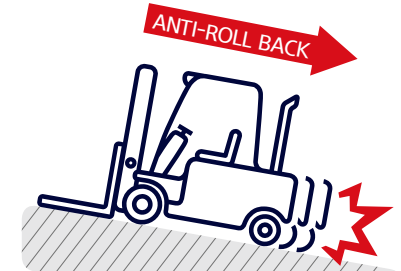
The operator can set and limit the maximum speed from 6 mph to 0.5 mph unit, given the curve & congestion of an aisle and the shape of the load.

### 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.

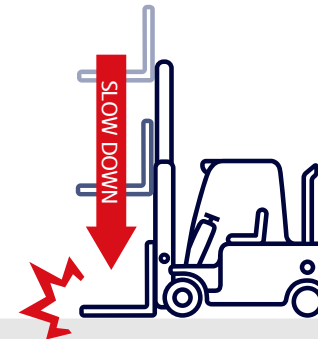
## Safety features

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



### Anti roll back system

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



### 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.



### Operator Presence Sensing System(OPSS)

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



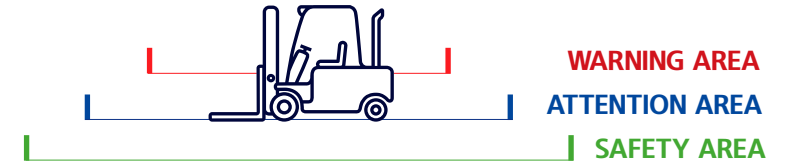
### Strengthened work safety

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



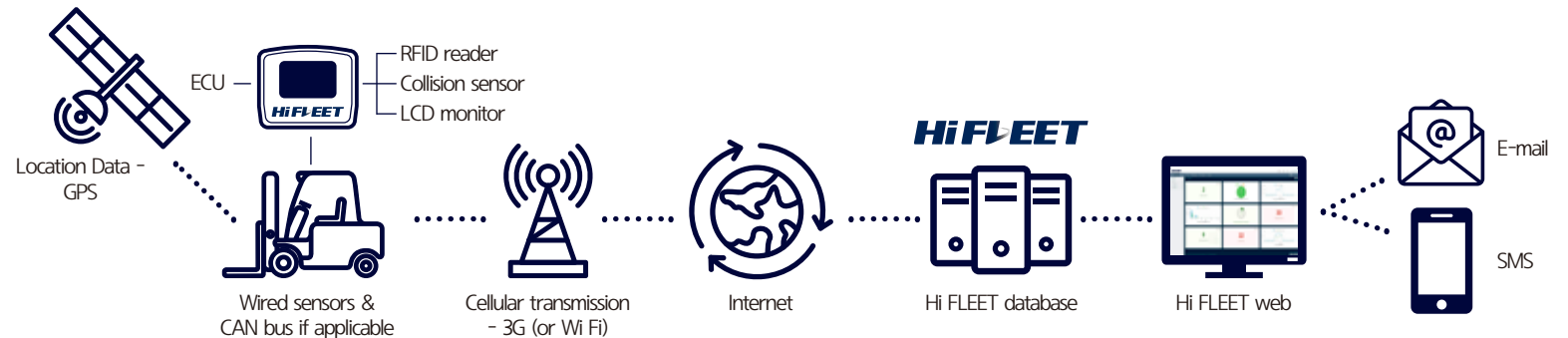
## IPAS : Intelligent Proximity Alert System (OPT)

Emits a warning (vibration, warning noise) in each area by measuring the distance between the forklift and a nearby pedestrian in real time via wireless communication.



## Fleet Management System(Hi FLEET) (OPT)

Hi FLEET, Hyundai Material Handling's fleet management system, is the optimal operation solution for a fleet of forklifts. It connects driver and vehicle in real time.





# 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 (24 inch LC) w/ side shift	Load capacity (24 inch LC) w/o side shift	Truck Weight (Unloaded)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SP00L)	Fwd	Bwd			
		inch	inch	inch	inch	inch	deg	deg	lb	lb	lb
2-STAGE LIMITED FREE LIFT	V300	118.3	79.2	4.5	4.5	4.5	6	10	5,000	5,000	9,556
	※V330	130.1	85.1				6	10	5,000	5,000	9,617
	V350	138.0	89.0				6	10	5,000	5,000	9,647
	V370	145.9	95.0				6	10	5,000	4,950	9,696
	V400	158.3	100.9				6	10	5,000	2,850	9,742
	V450	177.4	112.7				6	6	4,800	4,650	9,916
2-STAGE FULL FREE LIFT	VF325	129.9	85.1	38.7	60.2	60.2	6	6	5,000	5,000	9,742
3-STAGE FULL FREE LIFT	TF430	169.5	79.2	32.8	54.3	54.3	6	6	4,900	10,053	4538
	TF450	177.4	83.1	36.7	58.2	58.2	6	6	4,800	4,650	10,102
	TF470	185.2	85.1	38.7	60.2	60.2	6	6	4,700	4,550	10,128
	TF500	197.0	80.0	42.6	64.1	64.1	6	6	4,600	4,450	10,181
	TF550	216.7	96.9	50.5	72.0	72.0	6	6	4,400	4,250	10,271
	TF600	236.4	104.8	58.3	79.9	79.9	6	6	4,300	4,150	10,357
	TS430	169.5	79.2	32.8	54.3	54.3	3	3	4,900	2,750	10,053
	TS470	185.2	85.1	38.7	60.2	60.2	6	6	4,700	4,550	10,128
	TS500	197.0	89.0	42.6	64.1	64.1	6	6	4,600	4,450	10,181
TS550	216.7	96.9	50.5	72.0	72.0	6	6	4,400	4,250	10,271	
4-STAGE FULL FREE LIFT	QF700	276.2	96.3	49.9	67.4	69.4	3	3	2,600	1,450	11,028
	QF790	311.6	108.1	61.7	83.2	69.4	3	3	1,500	1,350	11,349

※ 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 (24 inch LC) w/ side shift	Load capacity (24 inch LC) w/o side shift	Truck Weight (Unloaded)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SP00L)	Fwd	Bwd			
		inch	inch	inch	inch	inch	inch	deg	deg	lb	lb
2-STAGE LIMITED FREE LIFT	V300	118.3	79.2	4.5	4.5	4.5	6	10	6,000	6,000	10,172
	※V330	130.1	85.1				6	10	6,000	6,000	10,214
	V350	138.0	89.0				6	10	6,000	6,000	10,250
	V400	158.3	100.9				6	10	6,000	6,000	10,348
	V450	177.4	112.7				6	6	6,000	5,900	10,520
	V500	197.0	197.0				6	6	5,800	5,550	10,602
2-STAGE FULL FREE LIFT	VF295	117.2	79.2	32.8	54.3	54.3	6	6	6,000	6,000	10,216
3-STAGE FULL FREE LIFT	TF400	158.3	75.3	28.8	47.9	46.5	6	6	6,000	6,000	10,584
	TF430	169.5	79.2	32.8	51.9	50.4	6	6	6,000	5,900	10,628
	TF450	177.4	83.1	36.7	55.8	55.8	6	6	6,000	5,750	10,688
	TF470	185.2	85.1	38.7	57.8	56.3	6	6	5,900	5,650	10,721
	TF500	197.0	89.0	42.6	61.7	60.3	6	6	5,800	5,650	10,778
	TF550	216.7	96.9	50.5	69.6	1767	6	6	5,600	5,350	10,871
	TF600	236.4	104.8	58.3	77.4	77.4	6	6	5,400	5,150	10,959
	TS430	169.5	79.2	32.8	51.9	49.3	6	6	6,000	5,900	10,628
	TS450	177.4	83.1	36.7	55.8	55.2	6	6	6,000	5,740	10,688
	TS470	185.2	85.1	38.7	57.8	55.2	6	6	5,900	5,650	10,721
	TS500	197.0	89.0	42.6	61.7	59.2	6	6	5,800	5,550	10,778
	TS550	216.7	96.9	50.5	69.6	69.0	6	6	5,600	5,350	10,871
TS600	236.4	104.8	58.3	77.4	76.9	6	6	5,400	5,150	10,959	
4-STAGE FULL FREE LIFT	QF790	311.6	108.1	61.7	78.2	72.2	3	3	1,500	1,250	11,882

※ 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

# New 9 Series Mast Specification

**25/30/32/35B-9U**

## 32B-9U



Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free lift height			Tilt Angle		Load capacity w/ side shift	Load capacity w/o side shift	Truck Weight (Unloaded)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	Fwd	Bwd			
2-STAGE LIMITED FREE LIFT	V300	118.3	81.9	4.5	4.5	4.5	6	10	6,400	6,400	10,580
	※V330	130.1	87.9				6	10	6,400	6,400	10,626
	V350	138.0	91.8				6	10	6,400	6,150	10,644
	V370	145.9	97.9				6	10	6,380	6,130	10,864
	V400	158.3	105.6				6	10	6,240	5,990	10,721
	V450	177.4	115.4				6	6	6,000	5,750	10,875
2-STAGE FULL FREE LIFT	VS345	136.9	91.8	45.8	64.1	64.1	6	6	6,400	6,150	10,792
3-STAGE FULL FREE LIFT	TF430	169.5	82.0	35.5	51.7	51.7	6	6	6,120	5,870	11,089
	TF450	177.4	85.9	39.4	55.6	55.6	6	6	6,020	5,770	11,182
	TF470	185.2	87.9	41.4	57.6	57.6	6	6	5,976	5,710	11,215
	TF500	197.0	91.8	41.4	61.5	61.5	6	6	5,840	5,590	11,268
	TF550	216.7	99.7	53.2	69.3	69.3	6	6	5,640	5,390	11,367
	TS600	236.4	107.6	61.1	77.2	77.2	6	6	5,460	5,210	11,464
	TS450	177.4	85.9	39.4	55.6	55.6	6	6	6,020	5,770	11,182
	TS470	185.2	87.9	41.4	57.6	57.6	6	6	5,960	5,710	11,215
	TS500	197.0	91.8	41.4	61.5	61.5	6	6	5,840	5,590	11,268
	TS550	216.7	99.7	53.2	69.3	69.3	6	6	5,640	5,390	11,367
	TS600	236.4	107.6	61.1	77.2	61.5	6	6	5,460	5,210	11,464
	TS650	256.1	115.4	69.0	85.1	80.0	3	3	4,600	4,350	11,561
TS700	275.8	123.3	76.9	93.0	87.9	3	3	3,800	3,550	11,660	
4-STAGE FULL FREE LIFT	QF610	240.7	84.1	38.1	59.6	59.6	3	3	3,620	3,370	11,834
	QF790	311.6	107.7	61.7	81.5	75.5	3	3	1,000	750	12,355

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

※ : Standard

## 35B-9U



Mast Type		Maximum Fork Height	Overall Height (Low-ered)	Free lift height			Tilt Angle		Load capacity w/ side shift	Load capacity w/o side shift	Truck Weight (Unloaded)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	Fwd	Bwd			
2-STAGE LIMITED FREE LIFT	V300	118.3	82.4	4.5	4.5	4.5	6	10	7,000	7,000	11,021
	※V330	130.1	88.3				6	10	7,000	7,000	11,067
	V350	138.0	92.2				6	10	7,000	7,000	11,085
	V370	145.9	98.1				6	10	7,000	7,000	11,125
	V400	158.3	104.1				6	10	7,000	6,860	11,162
	V450	177.4	115.9				6	6	6,900	6,600	11,233
2-STAGE FULL FREE LIFT	VS345	136.9	88.3	45.8	64.1	64.1	6	6	7,000	6,700	11,233
3-STAGE FULL FREE LIFT	TF430	169.4	82.4	35.9	54.2	54.2	6	6	6,900	6,600	11,530
	TF450	169.5	86.3	39.9	58.1	58.1	6	6	6,800	6,500	11,623
	TF470	185.2	88.3	41.8	60.1	60.1	6	6	6,700	6,400	11,656
	TF500	197.0	92.2	45.8	64.1	64.1	6	6	6,600	6,300	11,709
	TF550	236.4	100.1	53.7	71.9	71.9	6	6	6,300	6,000	11,808
	TF600	236.4	108.0	61.5	79.8	79.8	6	6	6,200	5,900	11,905
	TS450	177.4	86.3	39.9	58.1	58.1	6	6	6,800	6,500	11,623
	TS470	185.2	88.3	41.9	60.1	60.1	6	6	6,700	6,400	11,656
	TS500	197.0	92.2	45.8	64.1	64.1	6	6	6,600	6,300	11,709
	TS550	236.4	100.1	53.7	71.9	71.9	6	6	6,300	6,000	11,808
	TS600	236.4	108.0	61.5	79.8	79.8	6	6	6,200	5,900	11,905
	TS650	256.1	115.9	69.4	85.6	80.0	3	3	5,200	4,900	12,002
TS700	275.8	123.7	77.3	93.4	87.9	3	3	4,400	4,100	12,101	
4-STAGE FULL FREE LIFT	QF610	240.7	84.5	38.0	59.6	59.6	3	3	3,860	3,610	12,275
	QF790	311.6	108.1	61.7	81.5	75.5	3	3	1,200	950	11,882

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※ : Standard

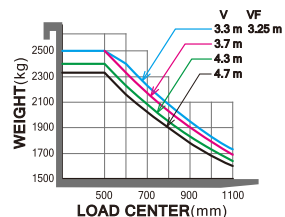
# New 9 Series

25/30/32/35B-9U

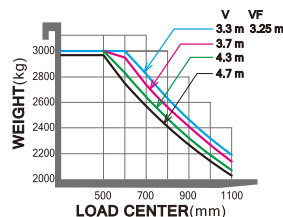
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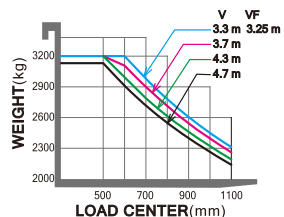
25B-9U



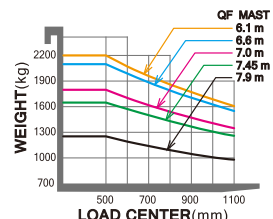
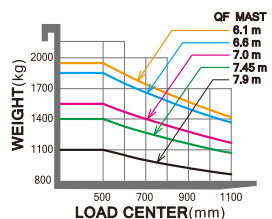
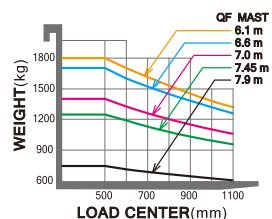
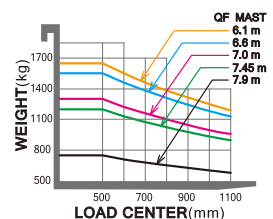
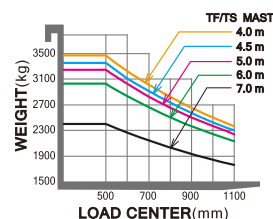
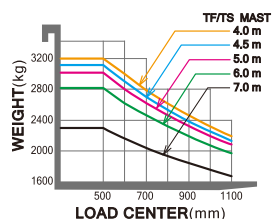
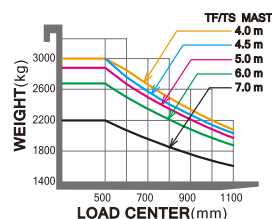
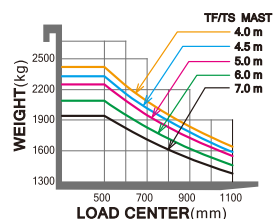
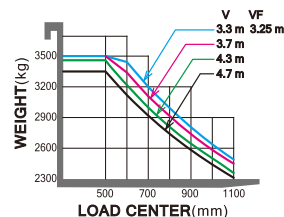
30B-9U



32B-9U



35B-9U



## Optional Items



- Fork (mm)  
25B-9U : 900, 1000, 1050(STD), 1200, 1350, 1500, 1650, 1800, 2100  
30/32/35B-9U : 900, 1050(STD), 1150, 1200, 1350, 1500, 1650, 1800, 1970, 2120, 2300, 2400
- Integral side shift
- Tire : Solid (STD) / pneumatic / non-marking

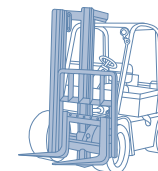
- Wide [25/30/32B-9U : Front(23X10-12)]
- Finger Tip Control
- Cold Storage: Applicable to working conditions to -22F
- M.C.V : 2-Spool, 3-Spool (STD), 4-Spool
- Auto fork leveling
- Side Battery Removal (STD), Top Battery Removal (No Charge)

- Directional Switch and Horn on Lift Lever
- Cabin (one-door)
  - FRONT + ROOF + REAR
  - FRONT + ROOF + REAR + DOOR
  - FRONT + ROOF + REAR + DOOR + HEATER

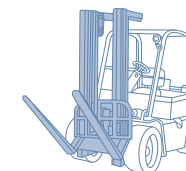
## Various Attachments



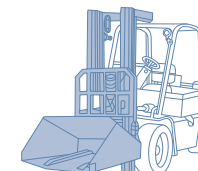
Side Shift



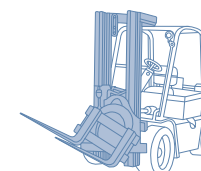
Hinged Fork



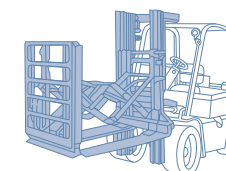
Hinged Bucket



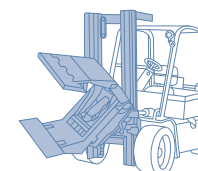
Rotating Fork



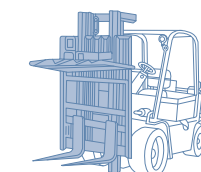
Push Pull



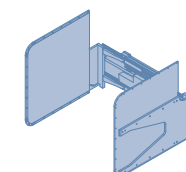
Rotating Roll Clamp



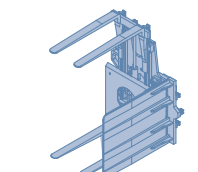
Load Stabilizer



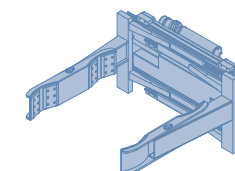
Carton Clamp



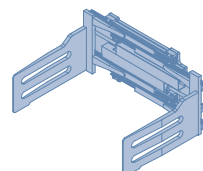
Pallet Invert



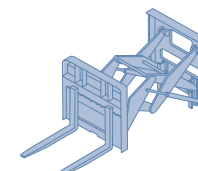
Drum Clamp



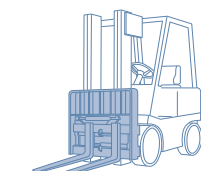
Bale Clamp



Load Extender



Fork Positioner



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



# New 9 Series

**25/30/32/35B-9U**

## 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	lb	5,000	6,000	6,400	7,000
1.6	Load Center Distance	c inch	24.0	24	24	24
1.8	Load Distance, Center Of Drive Axle To Fork	x inch	18.0	18.0	18.0	18.5
1.9	Wheelbase	y inch	55.1	63.0	63.0	63.0

### WEIGHT

2.1	Service Weight	lb	9,612	10,214	10,626	11,067
2.2	Axle Loading, Loaded Front / Rear	lb	13,262 / 1,861	15,018 / 1808	15642 / 2,039	16,616 / 2,167
2.3	Axle Loading, Unloaded Front / Rear	lb	3,979 / 5,633	4445 / 5769	4,365 / 6,261	4,301 / 6,845

### 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	inch	39.1	39.1	39.6
3.7	Tread, Rear	inch	38.6	38.6	38.6

### 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 (inch)	85.1	85.1	87.9	88.3
4.3	Free Lift	h2 (inch)	4.5	4.5	4.5	4.5
4.4	Lift Height	h3 (inch)	130.0	130.0	130.0	130.0
4.5	Height, Mast Extended	h4 (inch)	176.6	176.6	176.6	176.6
4.7	Height Of Overhead Guard (Cabin)	h5 (inch)	87.8	87.8	87.8	87.8
4.8	Seat Height / Stand Height Rel. To Sip	h7 (inch)	87.8	87.8	87.8	87.8
4.12	Coupling Height	h10 (inch)	12.8	12.8	12.8	12.8
4.19	Overall Length	l1 (inch)	131.7	139.2	139.9	143.3
4.20	Length To Face Of Forks	l2 (inch)	90.4	97.8	98.5	102.0
4.21	Overall Width	b1 (inch)	47.2	47.2	47.2	49.2
4.22	Fork Dimensions	l x e x s (inch)	41.3 / 3.9 / 1.7	41.3 / 3.9 / 1.7	41.3 / 3.9 / 1.7	41.3 / 3.9 / 1.7
4.23	Fork Carriage ITA Class	II	III	III	III	III
4.24	Fork-Carriage Width	b3 (inch)	43.4	43.4	43.4	43.4
4.31	Ground Clearance, Below Mast, Loaded	m1 (inch)	4.6	4.6	4.6	5.0
4.32	Ground Clearance, Center Of Wheelbase	m2 (inch)	5.1	5.1	5.1	5.1
4.33	Aisle Width For Pallets 1000 × 1200 Crossways (L×W)	Ast (inch)	143.2	150.7	151.3	153.4
4.34	Aisle Width Of Pallets 800 × 1200 Crossways (W L)	Ast (inch)	149.7	157.8	158.4	160.5
4.35	Turning Radius	Wa (inch)	76.4	84.6	85.2	86.8

### PERFORMANCE DATA

5.1	Travel Speed, Loaded / Unloaded	mph	10 / 11	10 / 11	10 / 11	10 / 11
5.2	Lift Speed, Loaded / Unloaded	inch/s	16.5 / 23.6	13.4 / 19.7	13.0 / 19.7	11.8 / 18.1
5.3	Lowering Speed, Loaded / Unloaded	inch/s	19.7 / 17.7	19.7 / 17.7	19.7 / 17.7	19.7 / 17.7
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	%(°)	22 (12.4)	19 (10.8)	18 (10.2)	17 (9.6)
5.10	Service Brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic

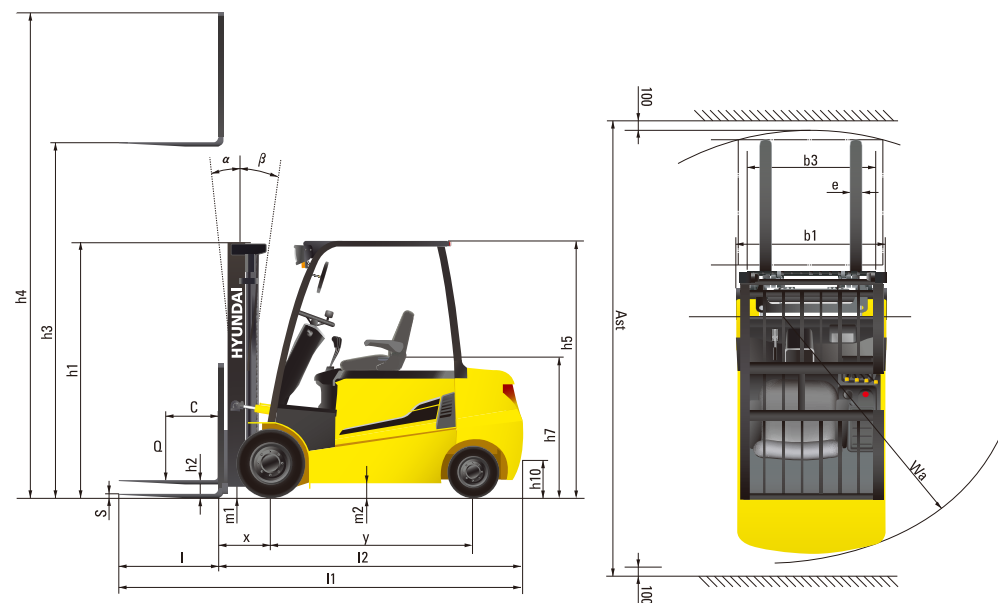
### ELECTRIC-MOTOR

6.1	Drive Motor Rating S2 60 Min	kw	7.0×2	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.)	lb	2,403	2,535	2,535	2,535
	Battery Compartment Dimensions L/W/H	inch	40.7 / 31.5 / 22.2	40.7 / 39.4 / 22.2	40.7 / 39.4 / 22.2	40.7 / 39.4 / 22.2

### ADDITION DATA

8.1	Type Of Drive Control		AC	AC	AC	AC
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## Dimension



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