

22/25/30/35BH-9

Electric Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



*Photo may include optional equipment.

 **HYUNDAI**

Your satisfaction is **our priority!**

Hyundai introduces a new line of **9-series** battery forklift trucks.
The newly designed 4 wheel counterbalance trucks provide every operator
comfortable driving, increased productivity and easy maintenance.



■ Some of the photos may include optional equipment.

Compact forklift with proven AC technology

- Maximum performance
- Comfortable operating room
- Battery side loading system
- Curve control system
- Weight indicator
- Fingertip controlled mini levers available (optional)
- Safety system that prevents over loading (optional)



High Efficiency & Optimal Performance



More efficient operating control levers (Optional)

Electronic directional control and secondary horn are mounted to the hydraulic lift lever for quick and precise maneuvering.

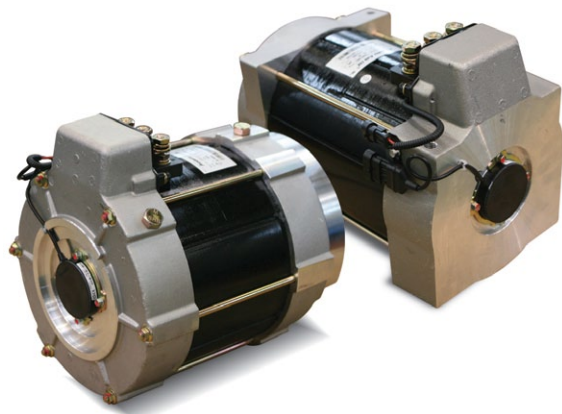


Finger tip control levers (Optional)

The finger tip control lever allows more precise control and fatigue-free working. The ergonomically designed armrest can be adjusted up, down, forward and backward for various operator's body type.



■ Some of the photos may include optional equipment.



Advanced drive and lift performance with proven durability and low maintenance

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.

Efficient, smooth running and powerful performance make your work more productive.

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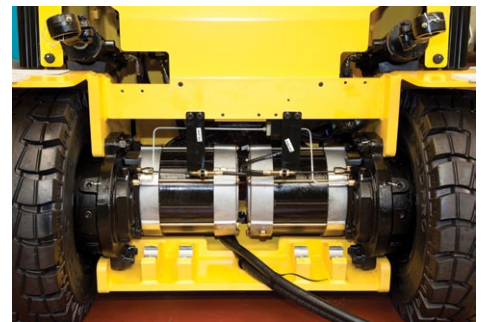


Curve control

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



Driving Speed



Dual drive system

The dual drive system enhances the operator's ability to maneuver in small aisle widths using minimum energy consumption. Plus, the drive units and AC motors intergrated in the front axle provide the operator with extremely improved gradient capacity.

■ Some of the photos may include optional equipment.



Auto fork leveling system (Optional)

In order to improve productivity the auto fork leveling system will automatically stop the tilt movement when the mast is in a straight position.



Max.Gradeability (Loaded)

Model	%
22BH-9	28
25BH-9	26
30BH-9	22
35BH-9	19

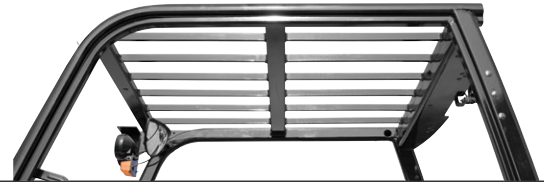
Max.Travel Speed (Unloaded)

Model	mph / km/h
22BH-9	11.8 / 19
25BH-9	11.8 / 19
30BH-9	11.8 / 19
35BH-9	11.8 / 19

Anti roll back system, travel speed and gradeability

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

Advanced **Safety**



■ Some of the photos may include optional equipment.

Excellent visibility for safe operation

Optimized lift cylinder arrangement provides operator with wider visibility.



Panoramic mirror

The panoramic mirror expands the driver's view during operation.

Strong overhead guard

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

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

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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.

OPSS (Operator Presence Sensing System)

When the operator is not in the seat all mast and drive movements are inactive.

Lift Lock

Tilt Lock

Drive Lock

■ Some of the photos may include optional equipment.



Safety lamps & rear reflectors

LED combination lights and halogen headlights offer the driver visibility in all circumstances. Rear reflectors mounted on the counterweight enhance safety for the driver and the work area.

Optimized Ergonomics & Fast and Easy Maintenance



■ Some of the photos may include optional equipment.

Spacious operator cabin

The newly designed cabin was conceived for more space, a wider field of view and operator comfort.



Optimized pedal position and floor mat

The position of accelerator and throttle have been optimized through human engineering.



Large entrance step

Wide and non-slip step offers convenience and safety when entering and exiting truck.



Adjustable steering wheel

To achieve a comfortable drive position, the angle of the steering column can easily be adjusted through a lever on the right-hand side of the steering column.



Grammer seat

Based on a human engineering design, the easily adjustable suspension seat provides greater comfort reducing operator fatigue.

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

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■ Some of the photos may include optional equipment.

Easy battery replacement

The battery compartment is equipped with a side battery removal assembly for easy removal and replacement.



Advanced LCD Monitor

The LCD color monitor with 3.5 inch graphic smart display allows the operator to easily and efficiently control the machine. The monitor provides information about speed level, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The load indicator displays the load weight in the monitor. The operator can select various performance modes to meet all working conditions. It is available multiple languages (maximum 12) for operator.

H (High) mode **N** (Normal) mode **E** (Economic) mode
Turtle mode



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.

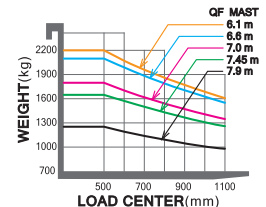
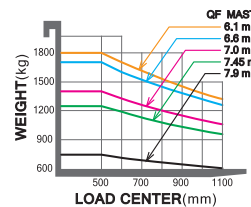
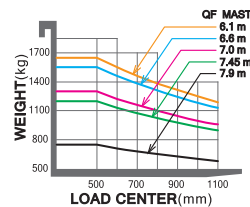
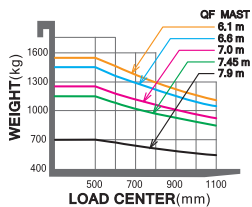
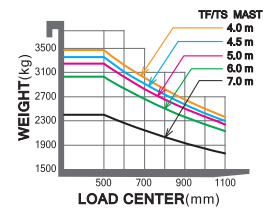
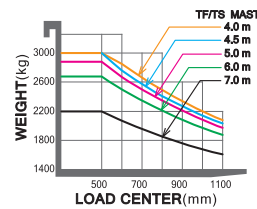
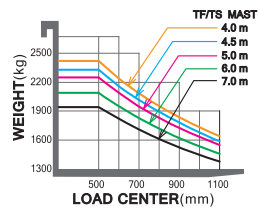
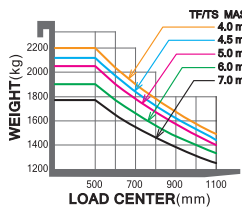
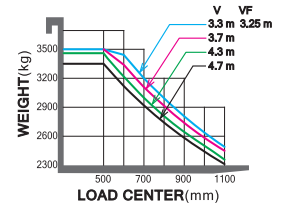
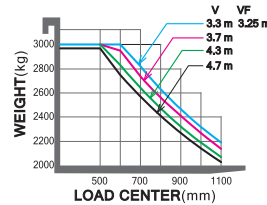
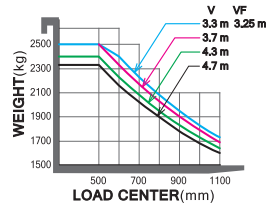
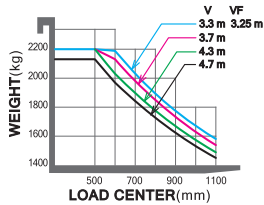
Load Capacity

22BH-9

25BH-9

30BH-9

35BH-9



Various Attachments

Side Shift

Hinged Fork

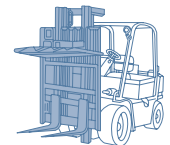
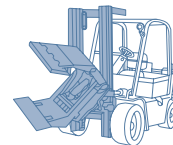
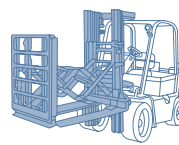
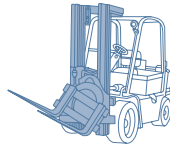
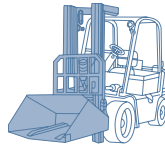
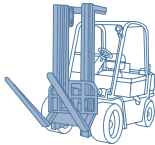
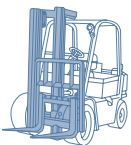
Hinged Bucket

Rotating Fork

Push Pull

Rotating Roll Clamp

Load Stabilizer



Carton Clamp

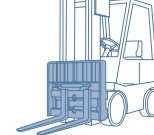
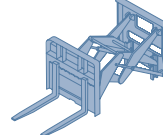
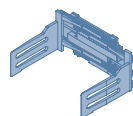
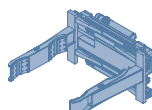
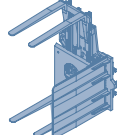
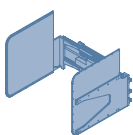
Pallet Invert

Drum Clamp

Bale Clamp

Load Extender

Fork Positioner

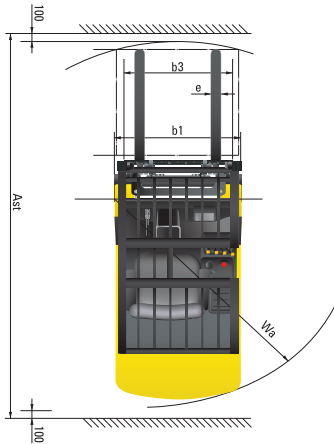
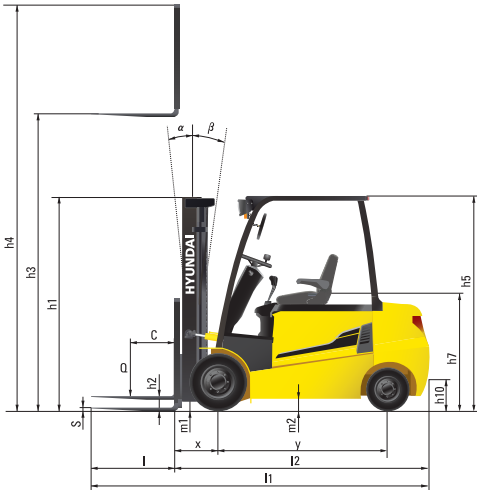


Optional Items

- Fork (in)
22 / 25BH-9 : 35.4, 39.4, 41.3 (STD), 47.2, 53.1, 59.1, 65.0, 70.9
30 / 35BH-9 : 35.4, 41.3 (STD), 45.3, 47.2, 65.0, 70.9, 77.6, 83.5, 90.6, 94.5
- Overshoe (in)
22 / 25BH-9 : 51.2, 59.1, 66.9, 70.9
30 / 35BH-9 : 59.1, 66.9, 70.9
- Integral Sideshift
- Tire : Solid (STD) / Pneumatic / Non-marking
Wide tire [22/25/30BH-9 : Front tire (23x10-12)]
- Seat : KAB

- Finger Tip Control
- Cold Storage (for -30° cold working environments)
- M.C.V : 2-Spool (STD), 3-Spool, 4-Spool
- Auto Fork Leveling
- Beacon Lamp
- Work Lamp
- OPSS : Mast
- UL : ES, EE
- Cabin
- Direction Switch on Lever

Dimension



Specification

Identification

		HYUNDAI				
1.1	Manufacturer	HYUNDAI				
1.2	Manufacturer's type designation	22BH-9	25BH-9	30BH-9	35BH-9	
1.3	Drive : electric(battery or mains) ,diesel, petrol, fuel gas, manual	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	Q (lb / kg)	4,850 / 2,200	5,500 / 2,500	6,600 / 3,000	7,700 / 3,500
1.6	Load center distance	c (in / mm)	19.7 / 500	19.7 / 500	19.7 / 500	19.7 / 500
1.7	Load distance, center of drive axle to fork	x (in / mm)	18.0 / 458	18.0 / 458	18.0 / 458	18.5 / 470
1.8	Wheelbase	y (in / mm)	62.0 / 1,575	62.0 / 1,575	67.7 / 1,719	67.7 / 1,719

Weights

2.1	Service weight	(lb / kg)	10,042 / 4,555	10,384 / 4,710	11,310 / 5,130	12,357 / 5,605
2.2	Axle loading, loaded front / rear	(lb)	12,963 - 1,929	13,977 - 1,918	15,955 - 1,969	17,756 - 2,317
2.3	Axle loading, unloaded front / rear	(lb)	5,170 - 4,872	5,115 - 5,269	5,655 - 5,655	5,686 - 6,671

Wheels, Chassis

3.1	Tires : solid rubber(V), superelastic(SE), pneumatic(P), polyurethane(PE)	SE, P	SE, P	SE, P	SE, P	
3.2	Tires size, front (Φ x width)	23X9-10	23X9-10	23X9-10	23X10-12	
3.3	Tires size, rear (Φ x width)	18X7-8	18X7-8	18X7-8	18X7-8	
3.4	Wheels, number front rear (x = driven wheels)	2x/2	2x/2	2x/2	2x/2	
3.5	Track width, front	(in / mm)	39.1 / 993	39.1 / 993	39.1 / 993	39.6 / 1,005
3.6	Track width, rear	(in / mm)	38.6 / 980	38.6 / 980	38.6 / 980	38.6 / 980

Basic Dimensions

		6/8	6/8	6/8	6/8	
4.1	Mast / fork carriage tilt forward / backward (deg)	6/8	6/8	6/8	6/8	
4.2	Lowered mast height	h1 (in / mm)	85.1 / 2,162	85.1 / 2,162	85.1 / 2,162	88.3 / 2,243
4.3	Free lift height	h2 (in / mm)	4.5 / 115	4.5 / 115	4.5 / 115	4.5 / 115
4.4	Lift height	h3 (in / mm)	130.1 / 3,305	130.1 / 3,305	130.1 / 3,305	130.1 / 3,305
4.5	Extended mast height	h4 (in / mm)	176.6 / 4,485	176.6 / 4,485	176.6 / 4,485	176.6 / 4,485
4.6	Overhead guard (cab) height	h5 (in / mm)	87.0 / 2,210	87.0 / 2,210	87.0 / 2,210	87.0 / 2,210
4.7	Seat height / Standing height	h7 (in / mm)	44.0 / 1,118	44.0 / 1,118	44.0 / 1,118	44.0 / 1,118
4.8	Coupling height	h10 (in / mm)	15.6 / 396	15.6 / 396	15.6 / 396	15.6 / 396
4.9	Overall length	l1 (in / mm)	133.3 / 3,385	134.4 / 3,415	139.6 / 3,545	143.7 / 3,650
4.10	Length to face of forks	l2 (in / mm)	91.9 / 2,335	93.1 / 2,365	98.2 / 2,495	102.4 / 2,600
4.11	Overall width	b1 (in / mm)	47.0 / 1,195	47.0 / 1,195	47.0 / 1,195	49.0 / 1,245
4.12	Fork dimensions	l / e / s (in)	41.3 x 3.9 x 1.8	41.3 x 3.9 x 1.8	41.3 x 4.8 x 1.8	41.3 x 4.8 x 1.8
4.13	Fork carriage ISO 2328, class / type A, B	II / A	II / A	III / A	III / A	
4.14	Fork - carriage width	b3 (in / mm)	43.4 / 1,102	43.4 / 1,102	43.4 / 1,102	43.4 / 1,102
4.15	Ground clearance, loaded, under mast	m1 (in / mm)	4.6 / 117	4.6 / 117	4.6 / 117	5.0 / 128
4.16	Ground clearance, centre of wheelbase	m2 (in / mm)	4.6 / 116	4.6 / 116	4.6 / 116	4.6 / 116
4.17	Aisle width for pallets 1,000 x 1,200 crossways	Ast (in / mm)	138.4 / 3,516	138.4 / 3,516	144.3 / 3,664	144.7 / 3,676
4.18	Aisle width for pallets 800 x 1,200 lengthways	Ast (in / mm)	145.4 / 3,694	145.4 / 3,694	151.6 / 3,851	152.1 / 3,863
4.19	Turning radius	Wa (in / mm)	74.6 / 1,895	75.8 / 1,925	80.9 / 2,055	84.4 / 2,145

Performance Data

5.1	Travel speed, loaded/ unloaded (80V)	(mph)	11.2 - 11.8	11.2 - 11.8	11.2 - 11.8	11.2 - 11.8
5.2	Lift speed, loaded/ unloaded (80V)	(ft/s)	1.4 / 2.0	1.3 / 2.0	1.1 / 1.6	1.0 / 1.6
5.3	Lowering speed, loaded/unloaded	(ft/s)	1.6 / 1.5	1.6 / 1.5	1.6 / 1.5	1.6 / 1.5
5.4	Max. drawbar pull, loaded/ unloaded S2 5min	(N)	18,810 / 17,777	18,022 / 17,767	17,865 / 17,747	16,846 / 16,914
5.5	Max. gradient performance, loaded/ unloaded S2 5min (%)		28 / 26	26 / 24	22 / 24	19 / 22
5.6	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic

E - Motor

6.1	Drive motor rating S2 60 min	(HP / kW)	10.7 / 8.0 x2	10.7 / 8.0 x2	10.7 / 8.0 x2	10.7 / 8.0 x2
6.2	Lift motor rating at S3 20% (S2 10min)	(HP / kW)	19.7	19.7	19.7	19.7
6.3	Battery voltage	(V)	80	80	80	80
6.4	Battery weight	(lb / kg)	3,241 / 1,470	3,241 / 1,470	3,924 / 1,780	3,924 / 1,780
6.5	Battery compartment dimensions L / W / H	(in)	40.5 / 28.1 / 31.2	40.5 / 28.1 / 31.2	40.5 / 33.8 / 31.3	40.5 / 33.8 / 31.3

Other Details

7.1	Type of drive control	AC	AC	AC	AC
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