MOVING YOU FURTHER

40·45 50B-9



Some of the photos may include optional equipment.

HYUNDAI
MATERIAL HANDLING

Your satisfaction is our priority!

Proven AC technology!
Hyundai 9-Series battery forklift

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

- More powerful performance
- Spacious operating space
- Grammer seat as a standard
- 3.5 inch LCD color monitor (including speedometer)
- Curve control system
- Fingertip controlled mini levers (OPT)
- Load weight indicator (OPT)
- Side Battery Remove (OPT)

Some of the photos may include optional equipment.

Power & Performance

High Efficiency & Optimal Performance

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





Some of the photos may include optional equipment.

Powerful driving force - Dual drive system

The dual drive system, which consists of two independently operating drive motors on the left- and right-hand sides, ensures excellent drawbar pull and short turning radius. It provides powerful performance when turning on a contaminated road surface. Also, it enhances the efficiency of logistics in a narrow workplace.



Some of the photos may include optional equipment.



Strong 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.



Directional & horn switch on lever (OPT)

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



Finger tip control lever (OPT)

The electric control lever reduces operator fatigue, and the ergonomically designed armrests can be adjusted up, down, forward and backward for operator's body types.



Curve control

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



Auto fork leveling system (OPT)

In order to improve productivity the auto fork leveling system by automatically stopping when the forks are level.

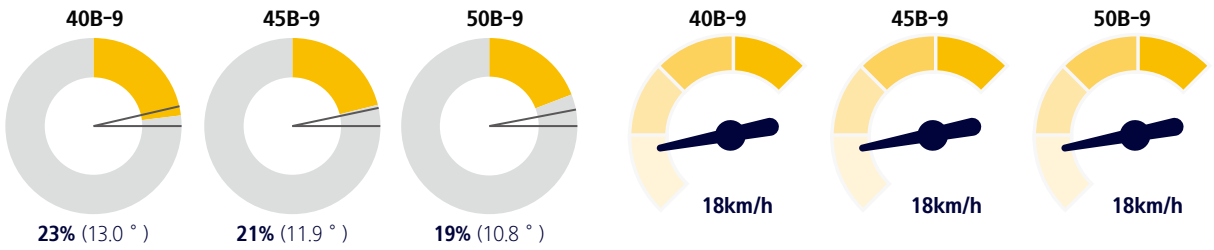


Vehicle Performance optimized for working condition

This function optimizes the performance of vehicle for the purpose of work, such as speed of operation, maximum working time and operator's proficiency. (High, Normal, Economy Mode)

Excellent gradeability and travel speed

It can perform stable operations and provide excellent gradeability and fast travel speed on any tough terrain or slope.

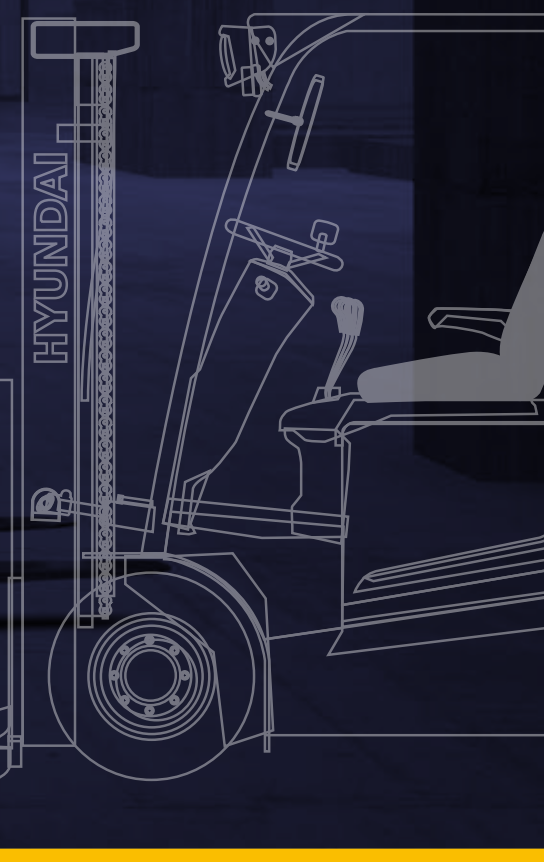


Easy & Comfort

Optimized Ergonomics & Fast and Easy Maintenance

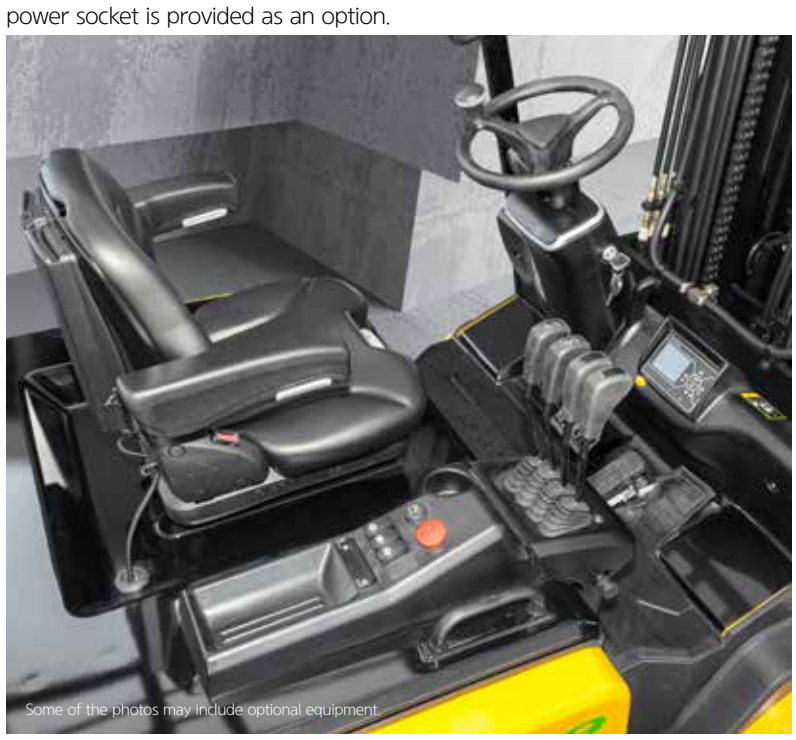
An ideal arrangement of components
ensures easy access and convenience for maintenance.





Spacious operating space

The ergonomically designed operating space was made for more space, a wider field of view and operator comfort. The smooth lever and pedal operation, adjustable tilting handle, suspension seat and multi-functional large-size cluster provide comfortable and efficient operation. In addition, a 12V power socket is provided as an option.


Some of the photos may include optional equipment.



Grammer Seat (OPT)

Easily adjustable suspension seat, based on a human engineering design, reduces operator fatigue and provides greater comfort.

- ELR(Emergency Locking Retractor) type seat belt as a standard
- Heat wire and head rest (OPT)

3.5 inch LCD color monitor

The LCD color monitor allows the operator to easily and efficiently control the machine. The monitor provides information about speed & accelerator level, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The monitor also displays information about operation error, system fault, battery level, hour meter plus other various functions. It enables the operator to maintain the forklift in optimum operating condition.



Advanced LCD Monitor

- Steering wheel position and travel direction
- Turtle mode
- Speed (Digital)
- Battery discharge indicator
- High temp warning lamp
- Wrench warning light
- Roll up
- ESC
- Menu/Scroll Left
- Performance/Scroll right
- Enter
- Turtle/Scroll down



Optimized pedal position and floor mat

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



Steering wheel position

The steering angle sensor can be used to predict the traveling direction of the equipment by displaying the symbol in real time on the large screen of the cluster.



Adjustable Tilting Handle

The steering column on the right can be easily adjusted by a lever.



Improved battery maintenance

The battery cover is designed as a full open type to improve the maintenance. Also this is equipped with a gas spring system for safe and easy maintenance.



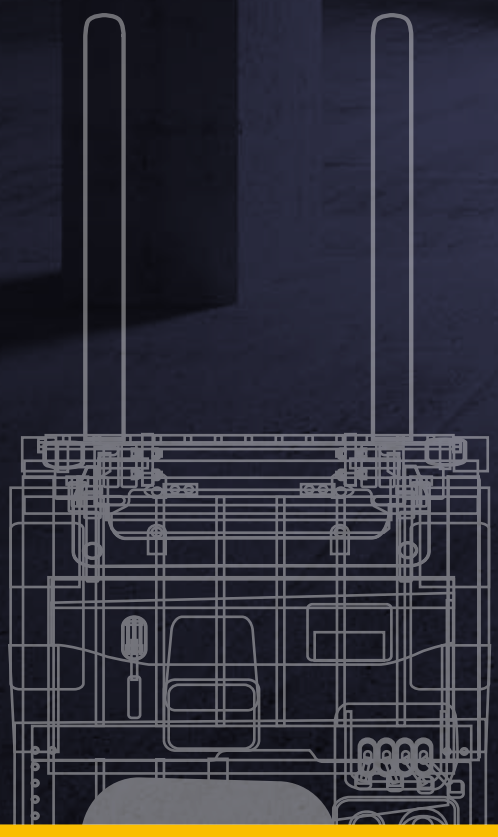
Brake oil reservoir with level senso

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.





Some of the photos may include optional equipment.

Wide visibility for Safe Operation

The optimized lift cylinder array design provides a clear, wide field of vision for the operator.
The adoption of a panorama mirror and rear camera(OPT) improve the rear side view, further enhancing safety.





Strong overhead guard

Exceeding the EEC and ANSI 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 travel speed limitation

By considering the working environment, the maximum speed can be set and limited from 10 km/h to 1km/h unit through the cluster.

Turtle mode

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

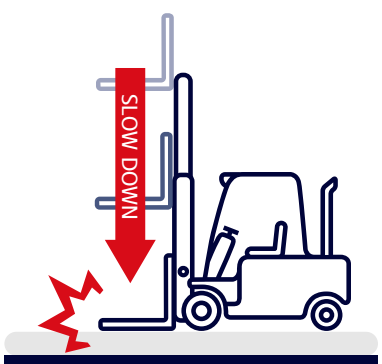
Safety features

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 (OPT)

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



Safety lamps

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 application.

New 9 Series Mast Specification

40B-9

Mast Type		Max-imum Fork Lift height	Overall Height (Fork Low-ered)	Free lift height		Tilt Angle		Load Capacity (500mm LC) w/o side shift		Load Capacity (500mm LC) with side shift		Truck Weight	
				with backrest	w/o backrest	Fwd	wd	Single tire	Dual tire	Single tire	Dual tire	Single tire	Dual tire
		mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
2-Stage full free lift	※V300	3,020	2,225	120	120	6	10	4,000	4,000	4,000	4,000	6,855	7,126
	V330	3,320	2,375	120	120	6	10	4,000	4,000	4,000	4,000	6,884	7,152
	V350	3,520	2,525	120	120	6	10	4,000	4,000	4,000	4,000	6,908	7,193
	V370	3,720	2,625	120	120	6	10	4,000	4,000	3,950	4,000	6,925	7,228
	V400	4,020	2,835	120	120	6	10	4,000	4,000	3,900	3,900	6,960	7,153
	V450	4,520	3,085	120	120	6	6	4,000	4,000	3,650	3,750	7,002	7,270
	V500	5,020	3,335	120	120	6	6	4,000	4,000	3,550	3,700	7,045	7,312
3-Stage full free lift	TF370	3,730	2,025	1,139	812	6	6	4,000	4,000	3,750	3,800	7,134	7,390
	TF400	4,030	2,125	1,239	912	6	6	4,000	4,000	3,700	3,800	7,160	7,416
	TF430	4,330	2,225	1,339	1,012	6	6	4,000	4,000	3,650	3,750	7,185	7,441
	TF450	4,510	2,285	1,399	1,072	6	6	4,000	4,000	3,600	3,650	7,201	7,457
	TF470	4,720	2,375	1,489	1,162	6	6	3,950	4,000	3,550	3,600	7,224	7,480
	TF500	5,020	2,475	1,589	1,262	6	6	3,900	3,900	3,500	3,550	7,250	7,506
	TF550	5,520	2,655	1,769	1,442	6	6	3,750	3,800	3,400	3,450	7,301	7,557
	TF600	6,030	2,835	1,949	1,622	6	6	3,650	3,650	3,300	3,300	7,341	7,596

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

※ : Standard

45B-9

Mast Type		Max-imum Fork Lift height	Overall Height (Fork Low-ered)	Free lift height		Tilt Angle		Load Capacity (500mm LC) w/o side shift		Load Capacity (500mm LC) with side shift		Truck Weight	
				with backrest	w/o backrest	Fwd	wd	Single tire	Dual tire	Single tire	Dual tire	Single tire	Dual tire
		mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
2-Stage full free lift	※V300	3,020	2,225	120	120	6	10	4,500	4,500	4,500	4,500	7,345	7,560
	V330	3,320	2,375	120	120	6	10	4,500	4,500	4,500	4,500	7,370	7,586
	V350	3,520	2,525	120	120	6	10	4,500	4,500	4,450	4,500	7,395	7,610
	V370	3,720	2,625	120	120	6	10	4,500	4,500	4,400	4,450	7,411	7,627
	V400	4,020	2,835	120	120	6	10	4,500	4,500	4,300	4,350	7,447	7,662
	V450	4,520	3,085	120	120	6	6	4,500	4,500	4,150	4,200	7,489	7,704
	V500	5,020	3,335	120	120	6	6	4,500	4,500	4,100	4,150	7,531	7,748
3-Stage full free lift	TF370	3,730	2,025	1,139	812	6	6	4,500	4,500	4,200	4,250	7,538	7,794
	TF400	4,030	2,125	1,239	912	6	6	4,500	4,500	4,150	4,200	7,564	7,820
	TF430	4,330	2,225	1,339	1,012	6	6	4,500	4,500	4,100	4,150	7,590	7,846
	TF450	4,510	2,285	1,399	1,072	6	6	4,450	4,450	4,050	4,050	7,605	7,861
	TF470	4,720	2,375	1,489	1,162	6	6	4,400	4,400	4,000	4,000	7,629	7,885
	TF500	5,020	2,475	1,589	1,262	6	6	4,300	4,350	3,900	3,900	7,655	7,911
	TF550	5,520	2,655	1,769	1,442	6	6	4,200	4,200	3,800	3,850	7,707	7,963
	TF600	6,030	2,835	1,949	1,622	6	6	4,050	4,050	3,650	3,700	7,746	8,002

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

※ : Standard

50B-9

Mast Type		Max-imum Fork Lift height	Overall Height (Fork Low-ered)	Free lift height		Tilt Angle		Load Capacity (500mm LC) w/o side shift		Load Capacity (500mm LC) with side shift		Truck Weight	
				with backrest	w/o backrest	Fwd	wd	Single tire	Dual tire	Single tire	Dual tire	Single tire	Dual tire
		mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
	※V290	2,920	2,230	120	120	6	10	4,990	4,990	4,990	4,990	7,805	7,950
	V320	3,220	2,380	120	120	6	10	4,990	4,990	4,990	4,990	7,831	7,975
	V340	3,420	2,530	120	120	6	10	4,990	4,990	4,990	4,990	7,856	8,000
	V360	3,620	2,630	120	120	6	10	4,990	4,990	4,990	4,990	7,873	8,016
	V390	3,920	2,840	120	120	6	10	4,990	4,990	4,990	4,990	7,908	8,052
	V440	4,420	3,090	120	120	6	6	4,990	4,990	4,900	4,900	7,950	8,094
	V490	4,920	3,340	120	120	6	6	4,990	4,990	4,800	4,850	7,993	8,137
3-Stage full free lift	TF360	3,662	2,030	1,074	807	6	6	4,990	4,990	4,900	4,900	7,942	8,138
	TF390	3,962	2,130	1,174	907	6	6	4,990	4,990	4,900	4,900	7,968	8,164
	TF420	4,262	2,230	1,274	1,007	6	6	4,990	4,990	4,800	4,800	7,994	8,190
	TF440	4,442	2,290	1,334	1,067	6	6	4,990	4,990	4,750	4,750	8,010	8,205
	TF460	4,652	2,380	1,424	1,157	6	6	4,900	4,950	4,700	4,700	8,033	8,229
	TF490	4,952	2,480	1,524	1,257	6	6	4,800	4,850	4,600	4,600	8,059	8,255
	TF540	5,452	2,660	1,704	1,437	6	6	4,700	4,700	4,400	4,400	8,110	8,306
	TF590	5,962	2,840	1,884	1,617	6	6	4,550	4,550	4,250	4,250	8,150	8,346

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

※ : Standard

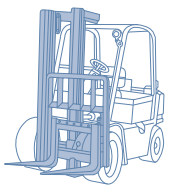
New 9 Series Mast Specification

Optional Items

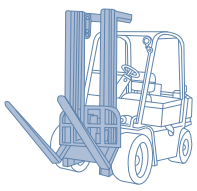
- **Mast :** Refer to the Mast Specification
- Fork (mm)
  - 40B-9 : 1,070 / 1,220(STD) / 1,370 / 1,520 / 1,670 / 1,820 / 1,970 / 2,120 / 2,400
  - 45B-9 : 1,070 / 1,220(STD) / 1,370 / 1,520 / 1,670 / 1,820 / 1,970 / 2,200 / 2,400
  - 50B-9 : 1,070 / 1,220(STD) / 1,370 / 1,670 / 1,820 / 1,970 / 2,200 / 2,400
- Side shift
- TIRE : Solid(standard) / Non-marking / Pneumatic / Double tire
- Finger Tip Control
- Cold Storage (for -30° cold working environments)
- M. C. V : 2-Spool(STD), 3-Spool, 4-Spool
- Auto Fork Leveling
- Load Indicator
- Side Battery Remove
- Direction Switch on Lever
- Side mirror
- Cabin
  - ① FRONT + ROOF
  - ② FRONT + ROOF + REAR
  - ③ FRONT + ROOF + REAR + DOOR
  - ④ FRONT + ROOF + REAR + DOOR + HEATER
  - ⑤ FRONT + ROOF + REAR + DOOR + HEATER + AUDIO

Attachments

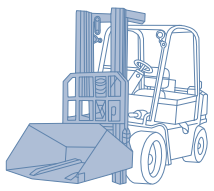
Side shift



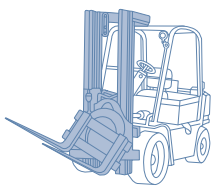
Hinged fork



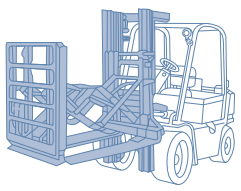
Hinged bucket



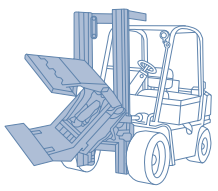
Rotating fork



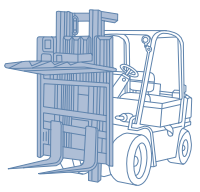
Push Pull



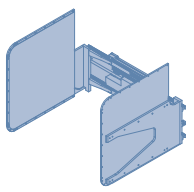
Rotating roll clamp



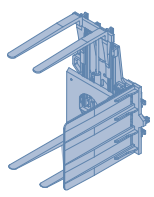
Load stabilizer



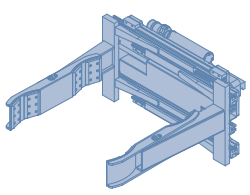
Carton clamp



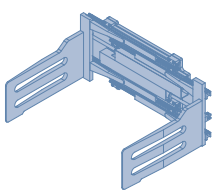
Pallet inverter



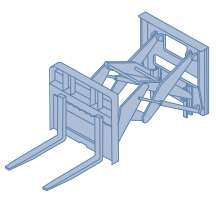
Drum clamp



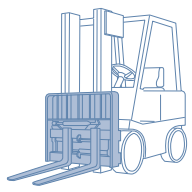
Bale clamp



Load extender

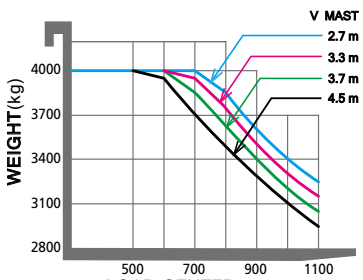


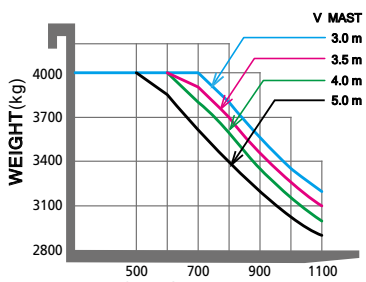
Fork positioner

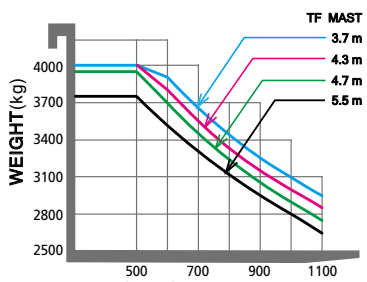


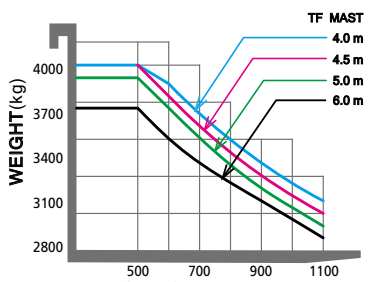
Load Capacity

40B-9

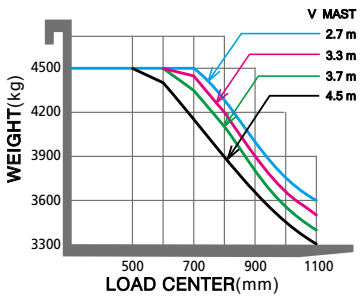


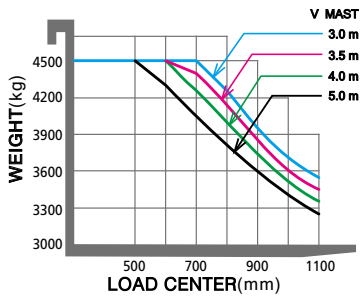


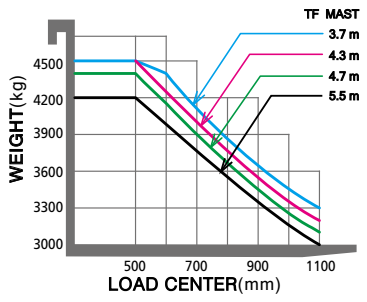


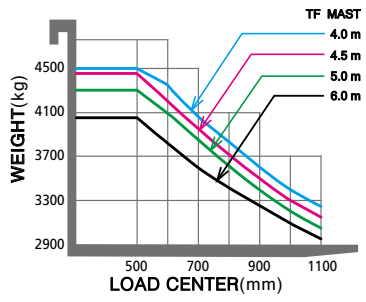


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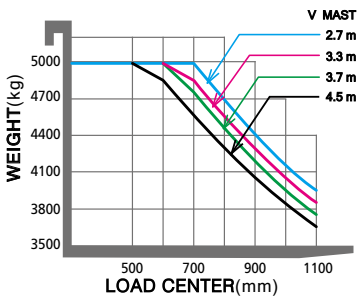


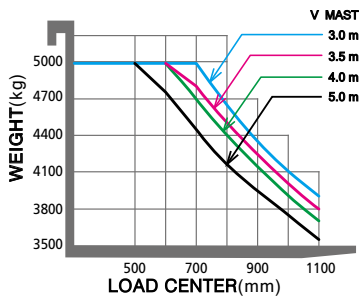


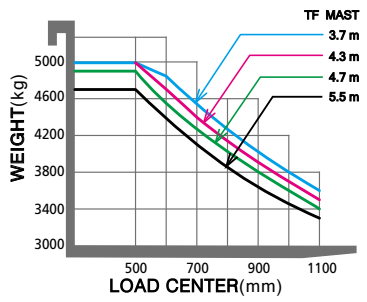


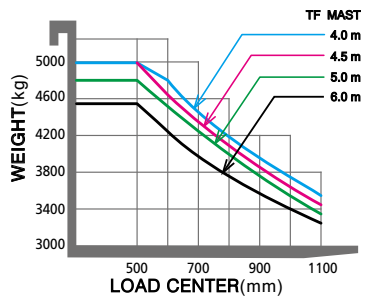


50B-9









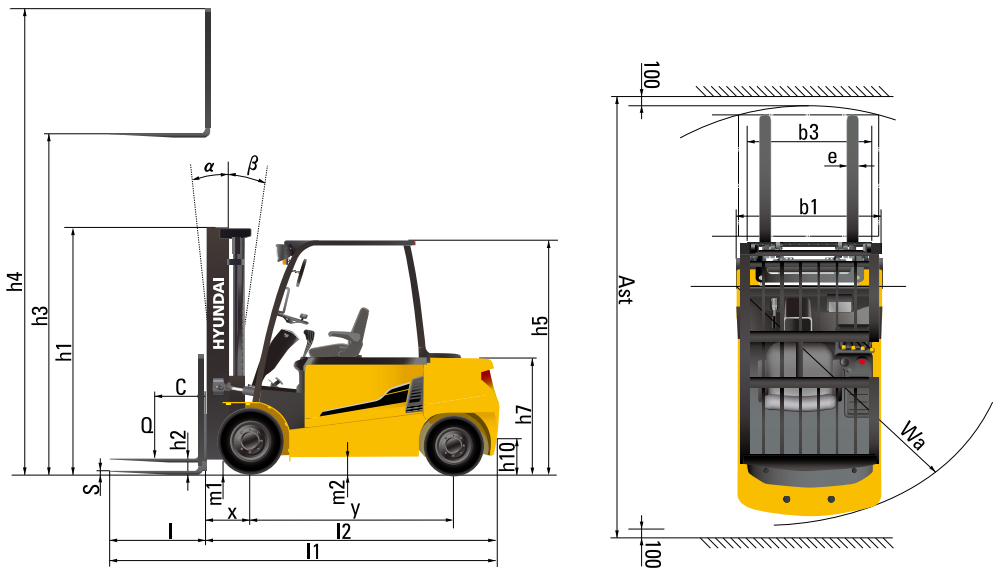
New 9 Series Mast Specification

Specification

Distinguishing mark					
1.1	Manufacturer (abbreviation)		Hyundai		
1.2	Manufacturer's type designation		40B-9	45B-9	50B-9
1.3	Drive : electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker		Seat type	Seat type	Seat type
1.5	Load capacity / rated load	Q kg	4,000	4,500	4,990
1.6	Load center distance	c mm	500	500	500
1.8	Load center distance	x mm	535	535	540
1.9	Wheelbase	y mm	2,025	2,025	2,025
Weight					
2.1	Service weight (Includes the battery)	kg	6,855	7,345	7,805
2.2	Axle loading, loaded front/rear	kg	9,548 / 1,307	10,456 / 1,389	11,332 / 1,463
2.3	Axle loading, unloaded front/rear	kg	3,504 / 3,351	3,656 / 3,689	3,779 / 4,026
Tires, chassis					
3.1	Tire type : solid (V), Superelastic(SE), pneumatic (P), polyurethane (PE)		SE, P	SE, P	SE, P
3.2	Tire size, front		250-15	250-15	28×12.5-15
3.3	Tire size, rear		23×9-10	23×9-10	23×9-10
3.5	Wheels, number front / rear (x = driven wheels)		2×/2	2×/2	2×/2
3.6	Tread, front	mm	1,114	1,141	1,114
3.7	Tread, rear	mm	1,098	1,098	1,098
Dimensions					
4.1	Tilt Aangle(forward/backward)	deg	6/10	6/10	6/10
4.2	Height, mast lowered	h1 (mm)	2,225	2,225	2,230
4.3	Free lift	h2 (mm)	120	120	120
4.4	Lift height	h3 (mm)	3,020	3,020	2,920
4.5	Height, mast extended	h4 (mm)	4,224	4,224	4,135
4.7	Height of overhead guard (cabin)	h5 (mm)	2,320	2,320	2,320
4.8	Seat height	h7 (mm)	1,285	1,285	1,285
4.12	Coupling height	h10 (mm)	460	460	460
4.19	Overall length	l1 (mm)	4,215	4,215	4,260
4.20	Length to face of forks	l2 (mm)	2,995	2,995	3,040
4.21	Overall width	b1 (mm)	1,376	1,376	1,424
4.22	Fork dimensions (l×w×t)	(mm)	50×122×1,070	50×150×1,070	50×150×1,070
4.23	Fork carriage iso 2328		III/A	III/A	III/A
4.24	Fork-carriage width	b3 (mm)	1,376	1,376	1,376
4.31	Ground clearance, below mast	m1 (mm)	160	160	165
4.32	Ground clearance, center of vehicle	m2 (mm)	150	150	155
4.34.1	Cross-passage width (pallet 1000×1200)	Ast (mm)	4,405	4,405	4,445
4.34.2	Aisle width of pallets 800×1200 crossways (w×l)	Ast (mm)	4,605	4,605	4,645
4.35	Turning radius	Wa (mm)	2,670	2,670	2,705

Performance data					
5.1	Travel speed, loaded / unloaded (80V)	km/h	18 / 18	18 / 18	18 / 18
5.2	Fort lift speed, loaded / unloaded (80V)	mm/s	360 / 520	330 / 500	320 / 450
5.3	Fork descending speed, loaded / unloaded	mm/s	500 / 450	500 / 450	500 / 420
5.6	Max. drawbar pull, loaded / unloaded	N	28,185 / 29,075	28,662 / 29,003	28,558 / 28,469
5.8	Gradeability, loaded	% (°)	23 (13.0)	21 (11.9)	19 (10.8)
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
Motor					
6.1	Drive Motor, 60 Min Rating (80V)	kW	10.0×2	10.0×2	10.0×2
6.2	Hydraulic Motor, 15% Rating (80V)	kW	28	28	28
6.4	Battery voltage (80V)	Ah	700	700	700
6.5	Battery weight	kg	2,200	2,095	2,095
6.7	Battery compartment dimensions (L×W×H)	mm	1,030 / 1,004 / 794	1,030 / 1,004 / 794	1,030 / 1,004 / 794
Addition data					
8.1	Type of drive control		AC	AC	AC

Dimension



* All specifications in this catalog are subject to change according to the optional items.

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MATERIAL HANDLING

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