



MOVING YOU FURTHER

13·15·18·20·30
25BR-9



Some of the photos may include optional equipment.

 **HYUNDAI**
MATERIAL HANDLING

Your satisfaction is our priority.

Robust AC technology! Hyundai's 9-series battery forklift trucks

Hyundai introduces a new line of 9-series reach-type battery forklifts.

The newly designed stand-up reach trucks maximize productivity by enabling comfortable driving and easy maintenance.

Safety first

- Anti-Roll Back system & regenerative braking
- Curve control
- Real-time indication of steering wheel position
- Speed limit setting & turtle mode
- Password starting system

Improved productivity & comfortable driving

- Optimized performance mode setting (H,N,E)
- Load weight indicator (OPT)
- Electric Power Steering
- Adjustable back pad
- Fork camera & LCD monitor (OPT)

Easy maintenance

- Improved controller maintainability
- Hydraulic oil level gauge
- Remote-controlled grease injection port in the axle
- Disc brake

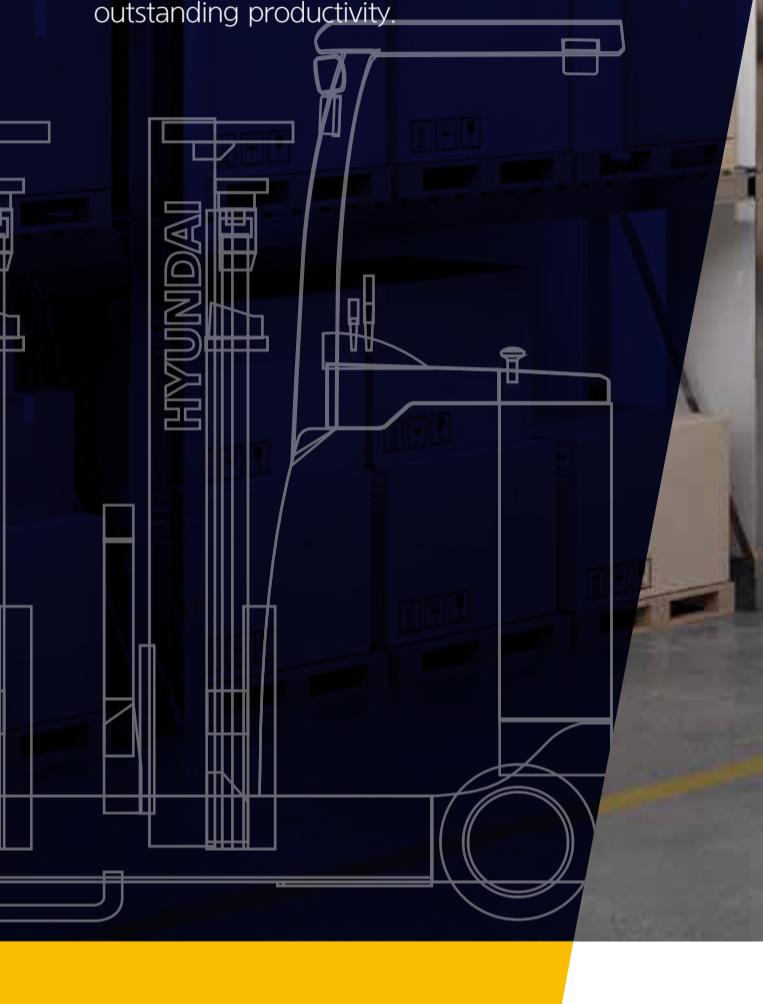




Power & Performance

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.

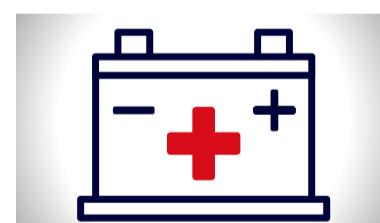
Robust and economical AC motor

Drive and pump motors using our AC technology provide great controllability and durability, compared to DC motors. Also, AC motors without the commutator and brushes cost less to maintain.



cutting-edge ZAPI controller

The almost noiseless 8 khz (high frequency) ZAPI controller enables high efficiency control and protects the system from low and high voltages and overheating.



Prolonged Battery use

When the operator's foot is lifted from the accelerator, the kinetic energy is converted to electrical energy and stored in batteries. The operator can stop the vehicle with the energy generated from the energy conversion.

Fast & safe operation

The 360 rotate function fits for narrow aisle work and provides fast and agile mobility, regardless of time and place.

The reach function with improved stability allows safer loading/unloading.



Some of the photos may include optional equipment.

Excellent driving & work performance

The combination of best-in-class drive and pump motors and the latest ZAPI AC controller provide quick and agile driving and ideal operation speed, optimizing efficiency of loading/unloading.

Lift Speed (loaded)

13BR-9



300mm/sec

15BR-9



340mm/sec

18BR-9



320mm/sec

20BR-9



300mm/sec

25BR-9



280mm/sec

30BR-9



220mm/sec

Max. Travel speed (unloaded)



11.5km/h



11km/h



11km/h



11km/h



12km/h



11km/h



Various functions to improve operation efficiency

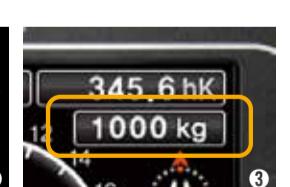
① Turtle Mode : Selecting turtle mode allows the operator to reduce travel to a pre-set speed, which is ideal when working in narrow and/or congested work areas.

② Optimized operation mode setting : The operator can select an optimal performance mode from H (High), N (Normal) to E (Economic), depending on working conditions, worksite size and operator proficiency.

③ Load weight indicator (OPT) : When lifting a load, a change in hydraulic pressure of the lift line is converted to a measurement of weight displayed in real time, and a warning is given at the time of overload.



②

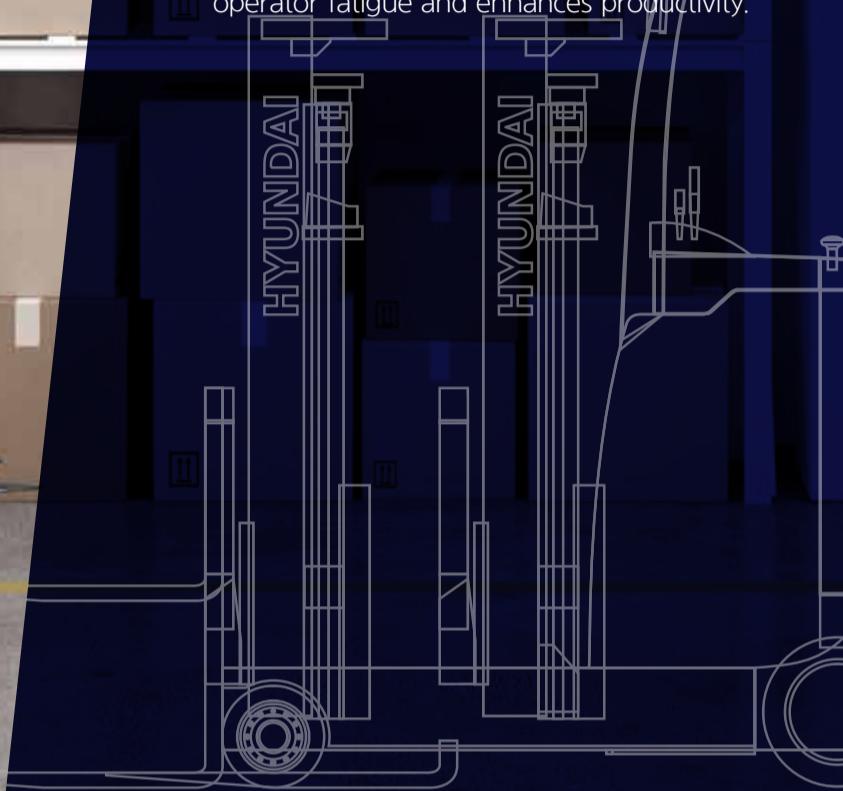




Easy & Comfort

Comfortable Workspace Intuitive Monitoring

Ergonomic design focusing on the operator convenience and maneuverability reduces operator fatigue and enhances productivity.



Some of the photos may include optional equipment.

Ergonomic design & excellent safety

Ergonomic design focusing on the operator convenience and maneuverability reduces operator fatigue and enhances productivity. In front of the driver's seat, control levers are ergonomically positioned to improve work efficiency.



Some of the photos may include optional equipment.



Steering handle

The newly designed steering handle and knob with the optimized size allow exceptionally smooth control and improve the marketability.



Responsive & durable levers

Minimal operator effort is required for precise, safe and productive control. In addition, the arrangement of hydraulic valves can be changed (L,T,R,A→R,T,L,A), depending on the operator's preference.



Back pad

Applying the height adjustable back pad increases the convenience. The use of high quality material enhances durability.

3.5 inch LCD color monitor

The LCD color monitor with 3.5 inch graphic smart display allows the operator to control the machine easily and efficiently. The monitor indicates speed, steering angle & driving direction, battery charge level, and hour meter & working mode. In addition, diagnostic error codes allow easy trouble-shooting. **H** (High) mode / **N** (Normal) mode / **E** (Economic) mode / Turtle mode (Driving speed control)



Main functions of the monitor

- Steering wheel position & driving direction
- Turtle mode
- Driving speed (Digital)
- Battery discharge indicator
- High temp warning lamp
- Wrench warning lamp
- Scroll up
- ESC / Back
- Menu / Scroll left
- Performance / Scroll right
- Enter
- Turtle / Scroll down



Comfortable floor mat

A cushiony floor mat reduces operator fatigue. The spacious room without the side cover improves work efficiency.



Electro Power Steering (EPS) system

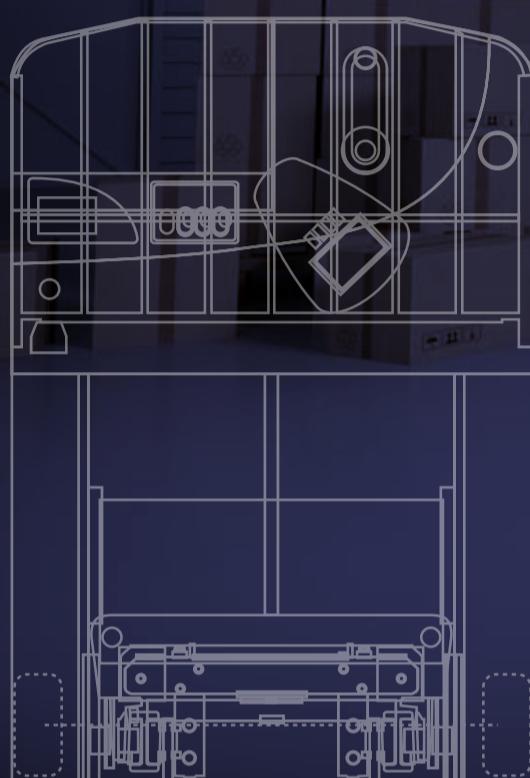
EPS system not only reduces operator fatigue but also maximizes work efficiency when used for a long time. The battery efficiency also improved.



Secure & Safety

Advanced Safety

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



Some of the photos may include optional equipment.

Great visibility for safe operation

Optimized lift cylinder arrangement provides the operator with great front visibility.

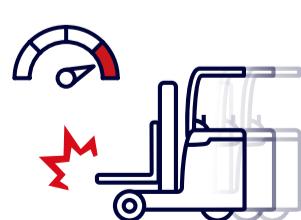


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Steering wheel position

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.



Speed limit setting

The operator can set and limit the maximum speed from 10 km/h by 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.

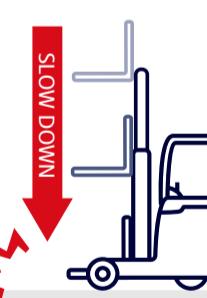
Safety features

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



Curve control

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



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.



Anti Roll Back system

Anti roll back system prevents the vehicle from rolling back when it restarts on a slope.



Fork camera & LCD monitor (OPT)

The camera installed on the fork side or in front of the carriage enables the operator to accurately lift and place the loads through the monitor mounted under the overhead guard, while preventing accidents and improving work efficiency.

Maintenance & Convenience

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.

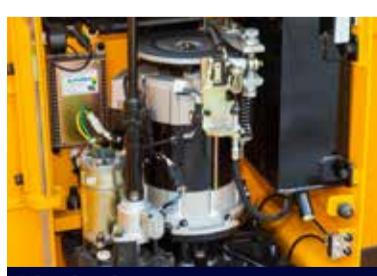
Easy maintenance

Ideal arrangement of drive, steering and hydraulic components allows for easy access and maintenance.



Battery disconnector & emergency switch

The emergency switch allows immediate power-off in emergency, disconnecting the battery.



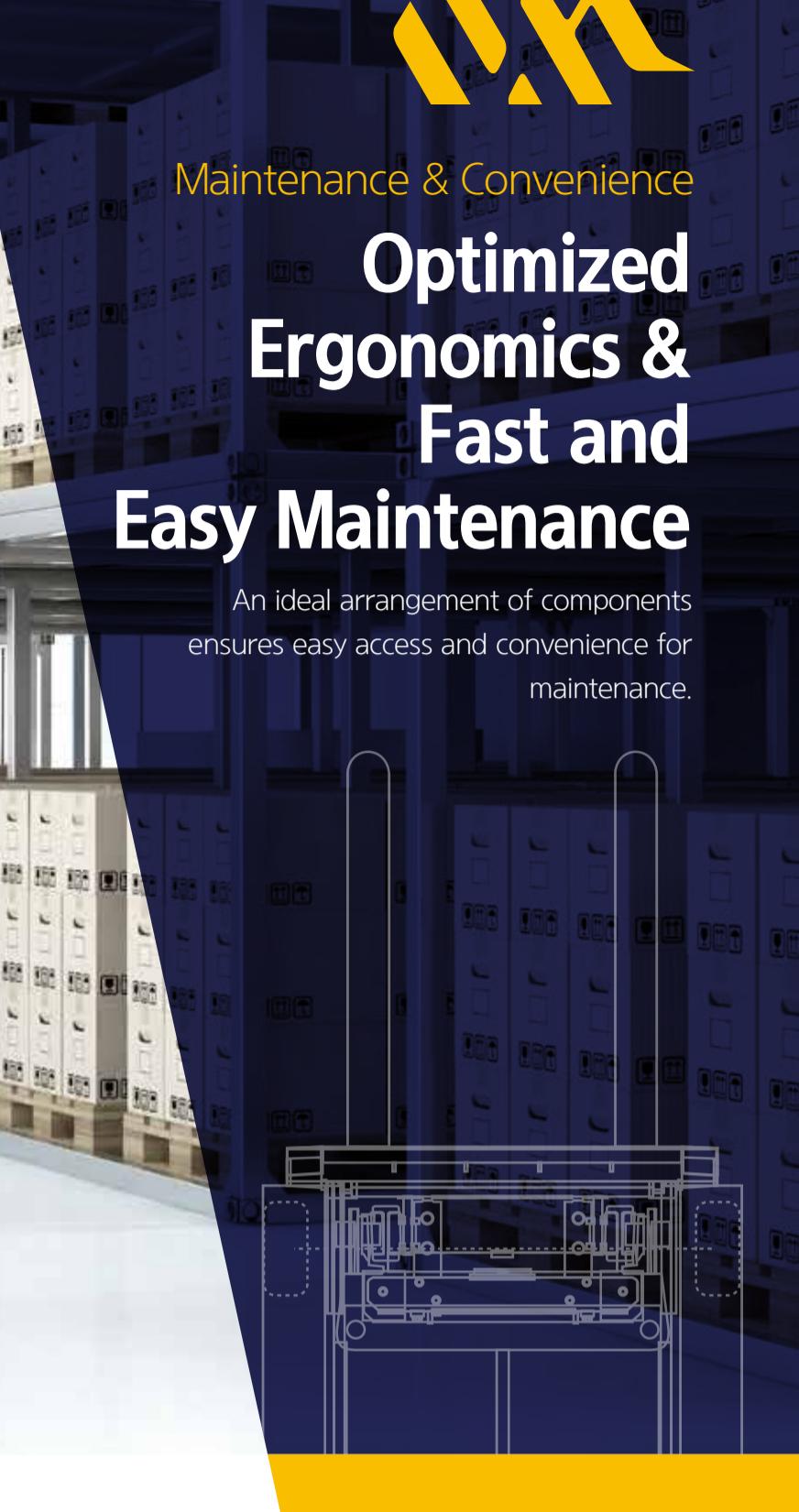
Disc brake

The disc brake improves braking force. Also, easy-to-replace brake pad cuts maintenance costs.



DC-DC converter

Strong resistance to water, dust and vibration improves the product quality. High-frequency chopping reduces noise while improving efficiency.
(Compliant with UL, CE standards)



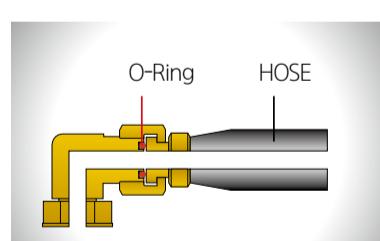
Improvement of controller maintenance

As drive and hydraulic controllers are located in front of the driver's seat, you can simply open the bolted cover and check/repair the vehicle in a comfortable position.



Concentrated fuse box

All-in-one fuse box installed in the side cover enhances maintainability.



ORFS hydraulic hose

ORFS (O-Ring Face Seal) hydraulic hose prevents oil leakages caused by vibration and external force.



Hydraulic oil level gauge

The level gauge is installed on the outside of hydraulic oil tank and it helps to check the oil level easily and to refill at a proper time.



Easy battery replacement

The side battery extraction system provides easy refilling of distilled water and improves maintainability.
(Battery roller shaft : OPT)



Remote-type grease injection port

Remote-type grease injection port is installed around the axle bearing, which requires regular lubrication, in the interest of operator convenience.

New 9 Series Mast Specification

**13/15/18/20BR-9
25/30BR-9**

13BR-9

Mast Type	Gross Vehicle Weight (No load)											
	Load Capacity W/Side Shift	500mm LC	Load Capacity W/Side Shift	500mm LC	Load Capacity W/O Side Shift	500mm LC	Load Capacity W/Side Shift	500mm LC	Load Capacity W/O Side Shift	500mm LC		
mm	mm	mm	mm	deg	kg	kg	kg	kg	kg	kg		
2-Stage Limited Free Lift	V250	2525	1741	3525	3084	267	267	5	5	1250	1250	
	V270	2725	1841	3725	3284	267	267	5	5	1250	1250	
	*V300	3025	1991	4025	3584	267	267	5	5	1250	1250	
	V330	3325	2141	4325	3884	267	267	5	5	1250	1180	
	V350	3525	2241	4525	4084	267	267	5	5	1250	1180	
	V370	3725	2341	4725	4284	267	267	5	5	1200	1130	
	V400	4025	2491	5025	4584	267	267	5	5	1150	1080	
	V450	4525	2841	5525	5084	267	267	5	5	1050	980	
	V500	5025	3091	6025	5584	267	267	5	5	950	880	
	V550	5525	3341	6525	6084	267	267	5	5	850	780	
3-Stage Full Free Lift	TF370	3735	1807	4735	4294	772	1213	1105	5	5	1200	1130
	TF400	4035	1907	5035	4594	872	1313	1205	5	5	1150	1080
	TF430	4335	2007	5335	4894	972	1413	1305	5	5	1100	1030
	TF450	4535	2107	5535	5094	1072	1513	1455	5	5	1000	930
	TF470	4735	2157	5735	5294	1122	1563	1455	5	5	950	880
	TF500	5035	2257	6035	5594	1222	1663	1555	5	5	900	830
	TF550	5535	2457	6535	6094	1422	1863	1805	5	5	750	680
	TF600	6035	2657	7035	6594	1622	2063	2005	5	5	650	580
	TF650	6535	2857	7535	7094	1822	2263	2185	5	5	550	480
	TF700	7035	3057	8035	7594	2022	2463	2365	5	5	350	280

15BR-9

Mast Type	Gross Vehicle Weight (No load)											
	Load Capacity W/Side Shift	500mm LC	Load Capacity W/Side Shift	500mm LC	Load Capacity W/O Side Shift	500mm LC	Load Capacity W/Side Shift	500mm LC	Load Capacity W/O Side Shift	500mm LC		
mm	mm	mm	mm	deg	kg	kg	kg	kg	kg	kg		
2-Stage Limited Free Lift	V250	2525	1741	3525	3084	267	267	5	5	1250	1250	
	V270	2725	1841	3725	3284	267	267	5	5	1250	1250	
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	V330	3325	2141	4325	3884	267	267	5	5	1250	1180	
	V350	3525	2241	4525	4084	267	267	5	5	1250	1180	
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	V450	4525	2841	5525	5084	267	267	5	5	1050	980	
	V500	5025	3091	6025	5584	267	267	5	5	950	880	
	V550	5525	3341	6525	6084	267	267	5	5	850	780	
3-Stage Full Free Lift	TF370	3735	1807	4735	4294	772	1213	1105	5	5	1200	1130
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	TF470	4735	2157	5735	5294	1122	1563	1455	5	5	950	880
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	TF650	6535	2857	7535	7094	1822	2263	2185	5	5	550	480
	TF700	7035	3057	8035	7594	2022	2463	2365	5	5	350	280

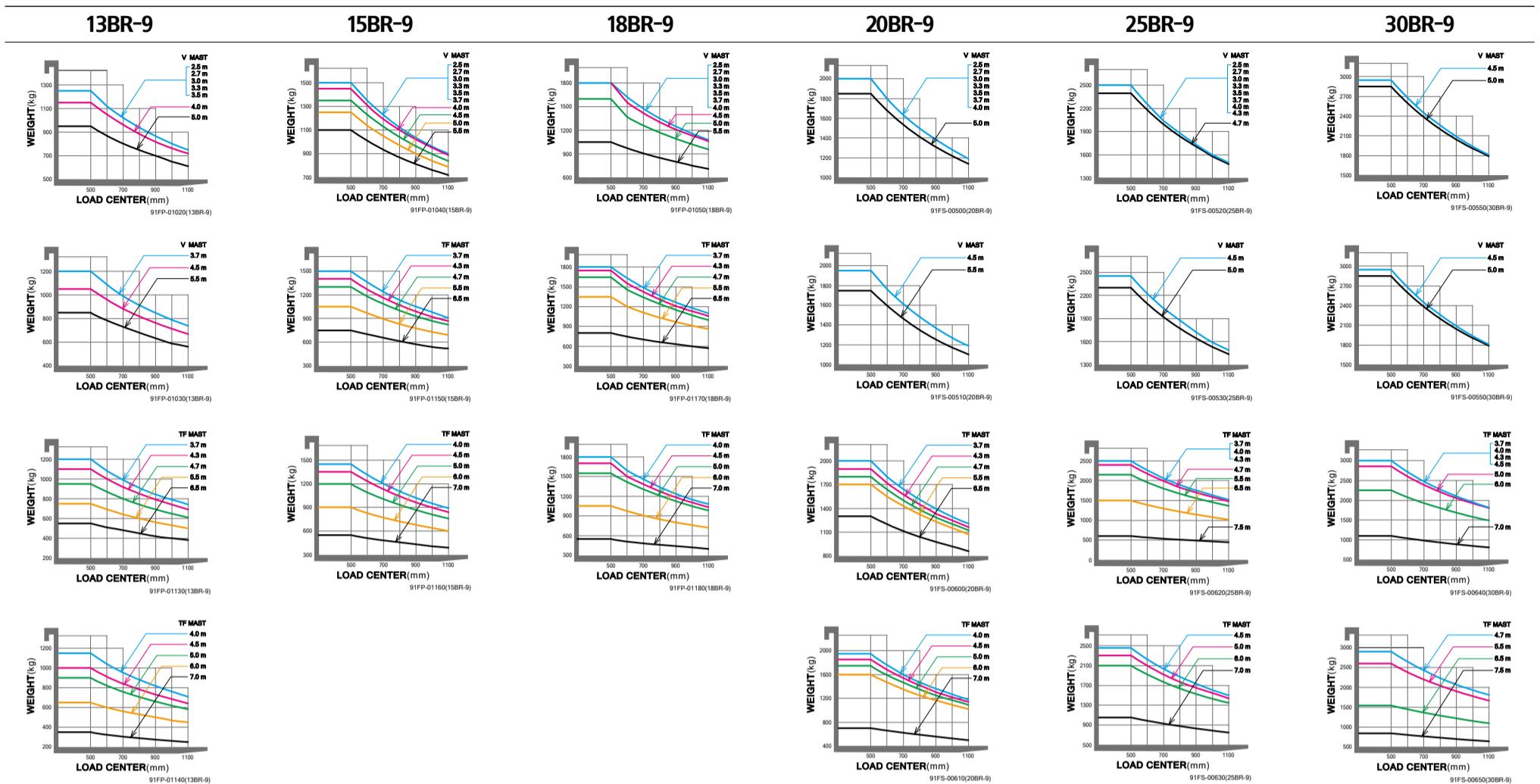
18BR-9

Mast Type	Gross Vehicle Weight (No load)										
	Load Capacity W/Side Shift	500mm LC	Load Capacity W/Side Shift	500mm LC	Load Capacity W/O Side Shift	500mm LC	Load Capacity W/Side Shift	500mm LC	Load Capacity W/O Side Shift	500mm LC	
mm	mm	mm	mm	deg	kg	kg	kg	kg	kg	kg	
2-Stage Limited Free Lift	V250	2525	1741	3525	3084	267	267	5	5	1250	1250
	V270	2725	1841	3725	3284	267	267	5	5	1250	1250
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	V450	4525	2841	5525	5084	267	267	5	5	1050	980
	V500	5025	3091	6025	5584	267	267	5	5	950	880
	V550	5525	3341	6525	6084	26					

New 9 Series

13/15/18/20BR-9
25/30BR-9

Load Curve



* The exterior of the vehicle and optional items may change for improvement.

New 9 Series

Equipment Data



Identification						
1.1	Manufacturer	Hyundai				
1.2	Manufacturer's type designation	13BR-9	15BR-9	18BR-9	20BR-9	25BR-9
1.3	Drive : electric(battery or mains),diesel, petrol ,fuel gas, manual	electric	electric	electric	electric	electric
1.4	Type of operation : hand, pedestrian, standing, seated, order - picker	standing	standing	standing	standing	standing
1.5	Load capacity / rated load	Q kg	1,250	1,500	1,800	2,000
1.6	Load center distance	c mm	500	500	500	500
1.8	Lod distance, center of drive axle to fork	x mm	189	271	489	484
1.9	Wheelbase	y mm	1,150	1,315	1,500	1,695
Weights						
2.1	Service weight (inc. battery)	kg	2,135	2,289	2,338	2,499
2.3	Axle loading, Fork retracted , Unloaded(Load end/Drive end)	kg	778 / 1,357	804 / 1,485	737 / 1,601	830 / 1,669
2.4	Axle loading, Fork extended , Loaded(Load end/Drive end)	kg	2,969 / 416	3,306 / 483	3,630 / 508	4,020 / 479
2.5	Axle loading, Fork retracted , Loaded(Load end/Drive end)	kg	2,371 / 1,014	2,526 / 1,263	2,549 / 1,589	2,941 / 1,558
Wheels, Chassis						
3.1	Tires : solid rubber, polyurethane (Load / Drive / Caster)	P-Ure. / Rub. / Rub				
3.2	Tires size, Load (Ø x width)	Ø 254 x 100	Ø 267 x 114	Ø 267 x 135		
3.3	Tires size, Drive (Ø x width)	Ø 306 x 127	Ø 306 x 145	Ø 306 x 145	Ø 382 x 142	Ø 382 x 142
3.4	Tires size, Caster (Ø x width)	Ø 178 x 73	Ø 178 x 73	Ø 178 x 73	Ø 204 x 76	Ø 204 x 76
3.5	Wheels number : load x drive(driven wheels) x caster	2x1x2	2x1x2	2x1x2	2x1x2	2x1x2
3.6	Track width, Load end	b1*1(mm)	970	970	970	994
3.7	Track width, Drive end	b11 mm	613	613	613	689
Basic Dimensions						
4.1	Tilt angle, Mast / fork carriage (forward / backward)	degrees	5/5	5/5	5/5	5/5
4.2	Lowered mast height	h1 mm	1,991	1,991	1,991	2,025
4.3	Free lift	h2 mm	267	267	277	293
4.4	Lift height	h3 mm	3,000	3,000	3,000	3,000
4.5	Extended mast height	h4 mm	4,025	4,025	4,025	4,030
4.7	Overhead load guard (cab) height	h5 mm	2,260	2,260	2,260	2,294
4.8	Step height	h7 mm	324	324	324	345
4.9	Overall length (Reach In, With Fork)	l1 mm	2,106	2,189	2,151	2,301
4.10	Length to face of forks (Reach In)	l2 mm	1,206	1,289	1,251	1,323
4.11	Overall width (Load end / Drive end)	b1*b2 (mm)	1,070	1,070	1,116 / 1070	1,200
4.12	Fork dimensions(hook type)	s/e/l mm	900x100x35	900x100x35	900x100x35	1,050x100x45
4.13	Fork carriage ISO 2328, class/type A,B	II /A	II /A	II /A	II /A	III /A
4.14	Fork-carriage width	b3*2 mm	1,037	1,037	1,037	1,110
4.15	Overall fork width	b5*3 mm	722	722	722	722
4.16	Distance between support arms/ loading surface	b4*1 (mm)	768	768	771	837
4.17	Reach distance	l4 mm	365	447	665	807
4.18	Ground clearance, loaded, under mast	m1 mm	106	106	106	130
4.19	Ground clearance, centre of wheelbase	m2 mm	88	88	75	81
4.20	Aisle width for pallets 1000x1200 crossways	Ast mm	2,647	2,740	2,763	2,781
4.21	Aisle width for pallets 800x1200 lengthways	Ast mm	2,725	2,807	2,791	2,810
4.22	Turning radius	Wa mm	1,438	1,596	1,775	1,980
4.23	Length across wheel arms	l7 mm	1,530	1,695	1,880	2,080
Performance Data						
5.1	Travel speed, (loaded / unloaded)	km/h	11.5	11	11	11
5.2	Lift speed (loaded / unloaded)	mm/s	300 / 500	340 / 550	320 / 550	300 / 470
5.3	Lowering speed (loaded / unloaded)	mm/s	500 / 450	500 / 450	500 / 450	500 / 450
5.7	Max gradient performance, S2 3min (loaded / unloaded)	%	19 / 32	27 / 50	25 / 49	23 / 45
5.9	Acceleration time, 10m over (loaded / unloaded)		6.7	5.4	5.6	5.8
5.10	Service brake		DISC	DISC	DISC	DISC
Motor						
6.1	Drive motor, rating S2 = 60min	kW	4.5	6	6	6
6.2	Lift motor, rating at S3 = 15% (S2 5min)	kW	14	14	14	14
6.3	Battery acc. to DIN 43531 / 35 / 36 A, B, C,no	no	no	no	no	no
6.4	Battery voltage, nominal capacity K5 (Option)48	V / AH	230 (198)	280 (335)	300 (280,335)	335 (300,365)
6.5	Battery weight (min)	kg	380 (370)	480 (560)	500 (480,560)	560 (500)
6.6	Battery dimensions L / W / H	mm	994 / 270 / 582	994 / 378 / 582	994 / 378 / 582	994 / 378 / 582
Other Details						
8.1	Type of drive control		FET Inverter	FET Inverter	FET Inverter	FET Inverter
8.2	Operating pressure for attachments	bar	130	130	130	130
8.3	Oil volume for attachments	l / min	18	18	18	24

* When installed with a 3-stage mast, the overall width increases (by 120 mm)

Optional Items

- Fork (mm) : 13/15/18BR-9 : 750, 850, 1050, 1200, 1350, 1500
20/25/30BR-9 : 900, 1000, 1200, 1350, 1500, 1650, 1800
30BR-9(Hook) : 900, 1150, 1200, 1350, 1500, 1650, 1800, 2400
- Sideshift : • Carriage (Hook type)
- Carriage (Narrow, Hook type) : • M.C.V : 3-Spool (STD), 4-Spool
- Tire 13/15/18BR-9 Option 1 : All Urethane
Option 2 : All Rubber
Option 3 : All Non - Marking
Option 4 : All Vulkollan
Option 5 : Load Urethane Caster, Drive Non - Marking
- 20/25/30BR-9 Option 1 : All Urethane
Option 2 : Load Urethane Caster, Drive Non - Marking
Option 3 : All Vulkollan
- Cold Storage (for -30°C cold working environments)
- Beacon Lamp (AMBER, RED, BLUE) : • Load weight indicator
- Rear Work Lamp : • UL : ES
- High Head Guard : • Reverse Steering
- Fork camera & LCD monitor

Standard Dimensions



* Specifications are based on information available at time of printing and may change without notice.



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by scanning the QR code.