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)

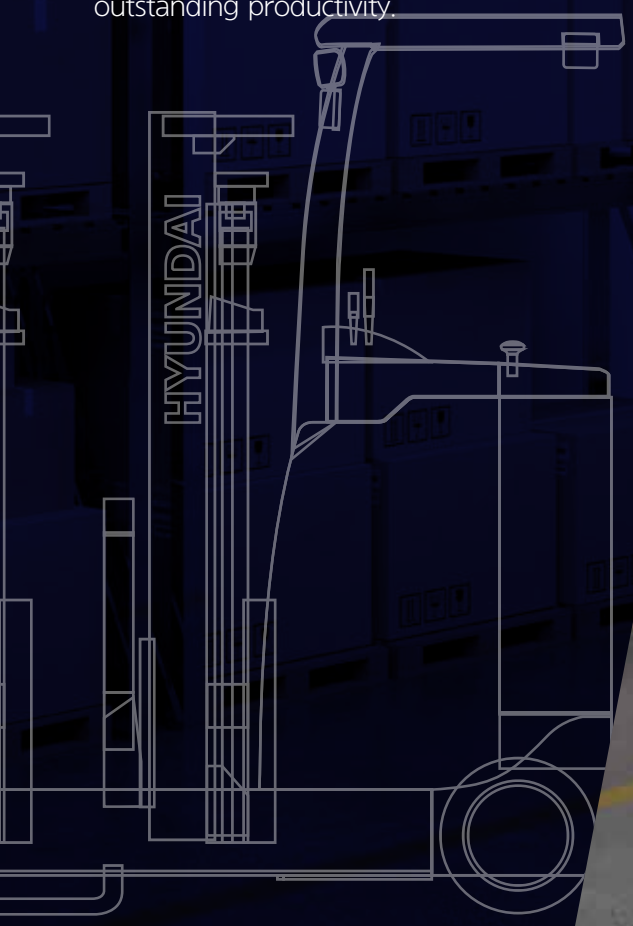
Easy maintenance
- Improved controller maintainability
- Hydraulic oil level gauge
- Remote-controlled grease injection port in the axle
- Disc brake

Some of the photos may include optional equipment.

Power & Performance

High Efficiency & Optimal Performance

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





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Robust and economical AC motor

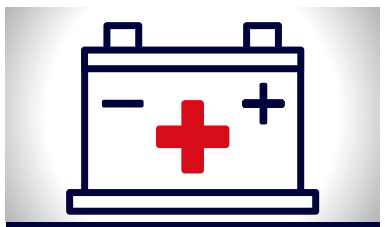
Drive and pump motors using our AC technology provide great controllability and durability, compared to DC motors. Also, AC motors without the commutator and brushes cost less to maintain.





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 form the energy conversion.

Fast & safe operation

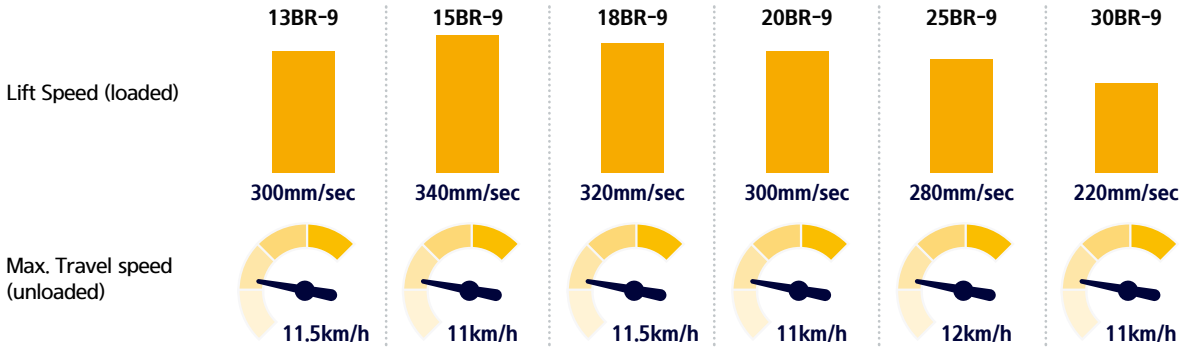
The 360 rotate function fits for narrow aisle work and provides fast and agile mobility, regardless of time and place.
The reach function with improved stability allows safer loading/unloading.

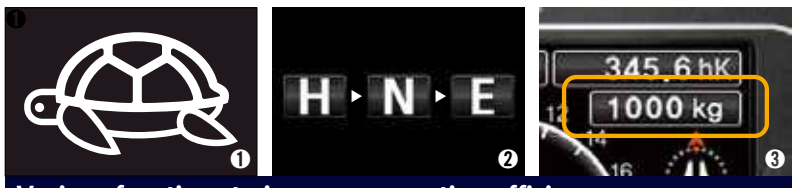


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Excellent driving & work performance

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.





Various functions to improve operation efficiency

❶ **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.

❷ **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.

❸ **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.

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 coshoiny 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.

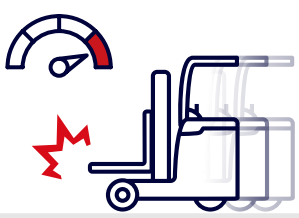


Some of the photos may include optional equipment.



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.

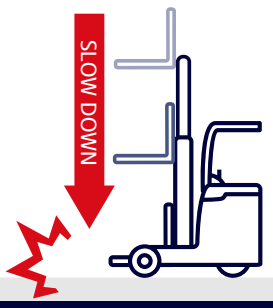
Safety features

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.

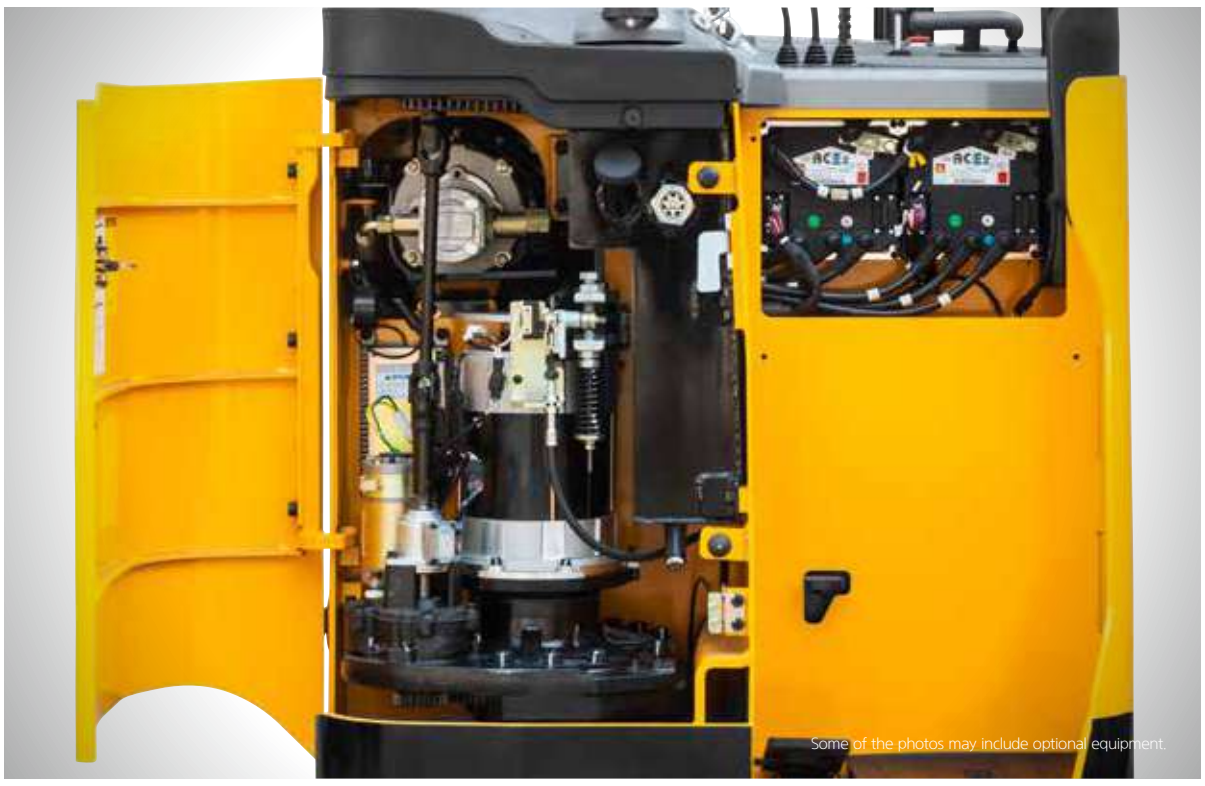


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Easy maintenance

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





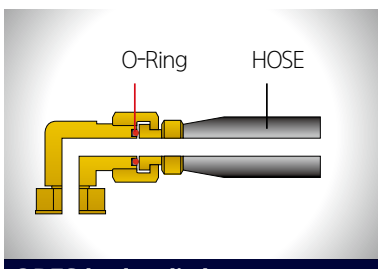
Improvement of controller maintenance

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.



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)



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		Maximum Fork Height	Overall Mast Height (Lowered)	Overall Mast Height (Raised)		Free Lift Height			Tilting Angle		Load Capacity W/O Side Shift	Load capacity W/ Side Shift	Gross Vehicle Weight (No load)
				With Backrest	Without Backrest	With Backrest	Without Backrest	Without Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-Stage Full Free Lift	*V300	3,025	1,991	4,025	3,584	267	267	267	5	5	1,250	1,250	2,135
	V330	3,325	2,141	4,325	3,884	267	267	267	5	5	1,250	1,180	2,151
	V350	3,525	2,241	4,525	4,084	267	267	267	5	5	1,250	1,180	2,165
	V370	3,725	2,341	4,725	4,284	267	267	267	5	5	1,200	1,130	2,186
	V400	4,025	2,491	5,025	4,584	267	267	267	5	5	1,150	1,080	2,217
	V450	4,525	2,841	5,525	5,084	267	267	267	5	5	1,050	980	2,291
	V500	5,025	3,091	6,025	5,584	267	267	267	5	5	950	880	2,327
	V550	5,525	3,341	6,525	6,084	267	267	267	5	5	850	780	2,363
3-Stage Full Free Lift	TF370	3,735	1,807	4,735	4,294	772	1,213	1,105	5	5	1,200	1,130	2,265
	TF400	4,035	1,907	5,035	4,594	872	1,313	1,205	5	5	1,150	1,080	2,287
	TF430	4,335	2,007	5,335	4,894	972	1,413	1,305	5	5	1,100	1,030	2,309
	TF450	4,535	2,107	5,535	5,094	1,072	1,513	1,455	5	5	1,000	930	2,330
	TF470	4,735	2,157	5,735	5,294	1,122	1,563	1,455	5	5	950	880	2,341
	TF500	5,035	2,257	6,035	5,594	1,222	1,663	1,555	5	5	900	830	2,364
	TF550	5,535	2,457	6,535	6,094	1,422	1,863	1,805	5	5	750	680	2,426
	TF600	6,035	2,657	7,035	6,594	1,622	2,063	2,005	5	5	650	580	2,467
	TF650	6,535	2,857	7,535	7,094	1,822	2,263	2,185	5	5	550	480	2,510
	TF700	7,035	3,057	8,035	7,594	2,022	2,463	2,365	5	5	350	280	2,553

15BR-9

Mast Type		Maximum Fork Height	Overall Mast Height (Lowered)	Overall Mast Height (Raised)		Free Lift Height			Tilting Angle		Load Capacity W/O Side Shift	Load capacity W/ Side Shift	Gross Vehicle Weight (No load)
				With Backrest	Without Backrest	With Backrest	Without Backrest	Without Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-Stage Full Free Lif	*V300	3,025	1,991	4,025	3,584	267	267	267	5	5	1,500	1,500	2,289
	V330	3,325	2,141	4,325	3,884	267	267	267	5	5	1,500	1,430	2,304
	V350	3,525	2,241	4,525	4,084	267	267	267	5	5	1,500	1,430	2,319
	V370	3,725	2,341	4,725	4,284	267	267	267	5	5	1,500	1,430	2,340
	V400	4,025	2,491	5,025	4,584	267	267	267	5	5	1,450	1,380	2,371
	V450	4,525	2,841	5,525	5,084	267	267	267	5	5	1,350	1,280	2,445
	V500	5,025	3,091	6,025	5,584	267	267	267	5	5	1,250	1,180	2,480
	V550	5,525	3,341	6,525	6,084	267	267	267	5	5	1,100	1,030	2,516
3-Stage Full Free Lift	TF370	3,735	1,807	4,735	4,294	772	1,213	1,105	5	5	1,500	1,430	2,419
	TF400	4,035	1,907	5,035	4,594	872	1,313	1,205	5	5	1,450	1,380	2,441
	TF430	4,335	2,007	5,335	4,894	972	1,413	1,305	5	5	1,400	1,330	2,463
	TF450	4,535	2,107	5,535	5,094	1,072	1,513	1,455	5	5	1,350	1,280	2,484
	TF470	4,735	2,157	5,735	5,294	1,122	1,563	1,455	5	5	1,300	1,230	2,495
	TF500	5,035	2,257	6,035	5,594	1,222	1,663	1,555	5	5	1,200	1,130	2,518
	TF550	5,535	2,457	6,535	6,094	1,422	1,863	1,805	5	5	1,050	980	2,580
	TF600	6,035	2,657	7,035	6,594	1,622	2,063	2,005	5	5	900	830	2,621
	TF650	6,535	2,857	7,535	7,094	1,822	2,263	2,185	5	5	750	680	2,664
	TF700	7,035	3,057	8,035	7,594	2,022	2,463	2,365	5	5	550	480	2,707

18BR-9

Mast Type		Maximum Fork Height	Overall Mast Height (Lowered)	Overall Mast Height (Raised)		Free Lift Height			Tilting Angle		Load Capacity W/O Side Shift	Load capacity W/ Side Shift	Gross Vehicle Weight (No load)
				With Backrest	Without Backrest	With Backrest	Without Backrest	Without Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-Stage Full Free Lif	*V300	3,025	1,991	4,025	3,584	267	267	267	5	5	1,800	1,800	2,338
	V330	3,325	2,141	4,325	3,884	267	267	267	5	5	1,800	1,730	2,356
	V350	3,525	2,241	4,525	4,084	267	267	267	5	5	1,800	1,730	2,370
	V370	3,725	2,341	4,725	4,284	267	267	267	5	5	1,800	1,730	2,391
	V400	4,025	2,491	5,025	4,584	267	267	267	5	5	1,800	1,730	2,423
	V450	4,525	2,841	5,525	5,084	267	267	267	5	5	1,800	1,730	2,496
	V500	5,025	3,091	6,025	5,584	267	267	267	5	5	1,600	1,530	2,532
	V550	5,525	3,341	6,525	6,084	267	267	267	5	5	1,050	980	2,568
3-Stage Full Free Lift	TF370	3,735	1,807	4,735	4,294	772	1,213	1,105	5	5	1,800	1,730	2,482
	TF400	4,035	1,907	5,035	4,594	872	1,313	1,205	5	5	1,800	1,730	2,504
	TF430	4,335	2,007	5,335	4,894	972	1,413	1,305	5	5	1,750	1,680	2,526
	TF450	4,535	2,107	5,535	5,094	1,072	1,513	1,455	5	5	1,700	1,630	2,547
	TF470	4,735	2,157	5,735	5,294	1,122	1,563	1,455	5	5	1,650	1,580	2,558
	TF500	5,035	2,257	6,035	5,594	1,222	1,663	1,555	5	5	1,550	1,480	2,581
	TF550	5,535	2,457	6,535	6,094	1,422	1,863	1,805	5	5	1,350	1,280	2,643
	TF600	6,035	2,657	7,035	6,594	1,622	2,063	2,005	5	5	1,050	980	2,684
	TF650	6,535	2,857	7,535	7,094	1,822	2,263	2,185	5	5	800	730	2,727
	TF700	7,035	3,057	8,035	7,594	2,022	2,463	2,365	5	5	550	480	2,770

* Standard ※ TF-Mast: A mast with 1 free lift cylinder in the center
※ When TF Mast is applied, the overall width increases (by 100 mm, by 120mm)

New 9 Series Mast Specifications

20BR-9

Mast Type		Maximum Fork Height	Overall Mast Height (Lowered)	Overall Mast Height (Raised)		Free Lift Height			Tilting Angle		Load Capacity W/O Side Shift	Load capacity W/ Side Shift	Gross Vehicle Weight (No load)
				With Backrest	Without Backrest	With Backrest	Without Backrest	Without Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-Stage Full Free Lift	*V300	3,035	1,991	4,025	3,584	277	277	277	5	5	2,000	2,000	2,499
	V330	3,335	2,141	4,325	3,884	277	277	277	5	5	2,000	1,920	2,517
	V350	3,535	2,241	4,525	4,084	277	277	277	5	5	2,000	1,920	2,531
	V370	3,735	2,341	4,725	4,284	277	277	277	5	5	2,000	1,920	2,552
	V400	4,035	2,491	5,025	4,584	277	277	277	5	5	2,000	1,920	2,584
	V450	4,535	2,841	5,525	5,084	277	277	277	5	5	1,950	1,870	2,657
	V500	5,035	3,091	6,025	5,584	277	277	277	5	5	1,850	1,770	2,693
	V550	5,535	3,341	6,525	6,084	277	277	277	5	5	1,750	1,670	2,729
3-Stage Full Free Lif	TF400	4,045	1,907	5,035	4,594	872	1,313	1,205	5	5	1,950	1,870	2,666
	TF430	4,345	2,007	5,335	4,894	972	1,413	1,305	5	5	1,900	1,820	2,688
	TF450	4,545	2,107	5,535	5,094	1,072	1,513	1,455	5	5	1,850	1,770	2,708
	TF470	4,745	2,157	5,735	5,294	1,122	1,563	1,455	5	5	1,800	1,720	2,719
	TF500	5,045	2,257	6,035	5,594	1,222	1,663	1,555	5	5	1,750	1,670	2,742
	TF550	5,545	2,457	6,535	6,094	1,422	1,863	1,805	5	5	1,700	1,620	2,804
	TF600	6,045	2,657	7,035	6,594	1,622	2,063	2,005	5	5	1,600	1,520	2,845
	TF650	6,545	2,857	7,535	7,094	1,822	2,263	2,185	5	5	1,300	1,220	2,888
	TF700	7,045	3,057	8,035	7,594	2,022	2,463	2,365	5	5	700	620	2,931

25BR-9

Mast Type		Maximum Fork Height	Overall Mast Height (Lowered)	Overall Mast Height (Raised)		Free Lift Height			Tilting Angle		Load Capacity W/O Side Shift	Load capacity W/ Side Shift	Gross Vehicle Weight (No load)
				With Backrest	Without Backrest	With Backrest	Without Backrest	Without Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-Stage Full Free Lif	*V300	3,005	2,025	4,030	3,626	293	293	293	5	5	2,500	2,500	2,905
	V330	3,305	2,175	4,330	3,926	293	293	293	5	5	2,500	2,420	2,929
	V350	3,505	2,275	4,530	4,126	293	293	293	5	5	2,500	2,420	2,945
	V370	3,705	2,425	4,730	4,326	293	293	293	5	5	2,500	2,420	2,977
	V400	4,005	2,575	5,030	4,626	293	293	293	5	5	2,500	2,420	3,017
	V430	4,305	2,725	5,330	4,926	293	293	293	5	5	2,500	2,420	3,074
	V450	4,505	2,875	5,530	5,126	293	293	293	5	5	2,450	2,370	3,099
	V470	4,705	2,975	5,730	5,326	293	293	293	5	5	2,400	2,320	3,115
	V500	5,005	3,125	6,030	5,626	293	293	293	5	5	2,300	2,220	3,139
3-Stage Full Free Lift	TF400	4,005	1,927	5,128	4,678	759	1,266	1,183	5	5	2,500	2,420	3,119
	TF430	4,305	2,027	5,428	4,978	859	1,366	1,283	5	5	2,500	2,420	3,144
	TF450	4,505	2,127	5,628	5,178	959	1,466	1,433	5	5	2,450	2,370	3,167
	TF470	4,705	2,177	5,828	5,378	1,009	1,516	1,433	5	5	2,400	2,320	3,181
	TF500	5,005	2,277	6,128	5,678	1,109	1,616	1,533	5	5	2,300	2,220	3,205
	TF550	5,505	2,477	6,628	6,178	1,309	1,816	1,783	5	5	2,150	2,070	3,294
	TF600	6,005	2,677	7,128	6,678	1,509	2,016	1,983	5	5	2,100	2,020	3,342
	TF650	6,505	2,877	7,628	7,178	1,709	2,216	2,183	5	5	1,500	1,420	3,393
	TF700	7,005	3,077	8,128	7,678	1,909	2,416	2,383	5	5	1,050	970	3,441
	TF750	7,505	3,227	8,628	8,178	2,059	2,566	2,483	5	5	600	520	3,474

30BR-9

Mast Type		Maximum Fork Height	Overall Mast Height (Lowered)	Overall Mast Height (Raised)		Free Lift Height			Tilting Angle		Load Capacity W/O Side Shift	Load capacity W/ Side Shift	Gross Vehicle Weight (No load)
				With Backrest	Without Backrest	With Backrest	Without Backrest	Without Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg
2-Stage Full Free Lif	*V300	3,005	2,025	4,030	3,667	293	293	293	5	5	3,000	3,000	3,269
	V330	3,305	2,175	4,330	3,967	293	293	293	5	5	3,000	2,920	3,294
	V350	3,505	2,275	4,530	4,167	293	293	293	5	5	3,000	2,920	3,310
	V370	3,705	2,425	4,730	4,367	293	293	293	5	5	3,000	2,920	3,342
	V400	4,005	2,575	5,030	4,667	293	293	293	5	5	3,000	2,920	3,382
	V430	4,305	2,725	5,330	4,967	293	293	293	5	5	3,000	2,920	3,439
	V450	4,505	2,875	5,530	5,167	293	293	293	5	5	2,950	2,870	3,464
	V470	4,705	2,975	5,730	5,367	293	293	293	5	5	2,900	2,820	3,480
	V500	5,005	3,125	6,030	5,667	293	293	293	5	5	2,850	2,770	3,504
3-Stage Full Free Lift	TF370	3,705	1,827	4,828	4,378	659	1,166	1,083	5	5	3,000	2,920	3,464
	TF400	4,005	1,927	5,128	4,678	759	1,266	1,183	5	5	3,000	2,920	3,488
	TF430	4,305	2,027	5,428	4,978	859	1,366	1,283	5	5	3,000	2,920	3,513
	TF450	4,505	2,127	5,628	5,178	959	1,466	1,433	5	5	3,000	2,920	3,536
	TF470	4,705	2,177	5,828	5,378	1,009	1,516	1,433	5	5	2,900	2,820	3,551
	TF500	5,005	2,277	6,128	5,678	1,109	1,616	1,533	5	5	2,850	2,770	3,574
	TF550	5,505	2,477	6,628	6,178	1,309	1,816	1,783	5	5	2,600	2,520	3,663
	TF600	6,005	2,677	7,128	6,678	1,509	2,016	1,983	5	5	2,250	2,170	3,712
	TF650	6,505	2,877	7,628	7,178	1,709	2,216	2,183	5	5	1,550	1,470	3,762
	TF700	7,005	3,077	8,128	7,678	1,909	2,416	2,383	5	5	1,100	1,020	3,810
	TF750	7,505	3,227	8,628	8,178	2,059	2,566	2,483	5	5	850	770	3,843

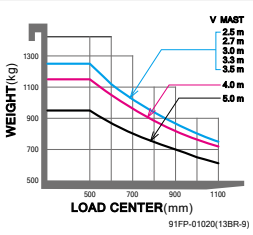
* Standard ※ TF-Mast: A mast with 1 free lift cylinder in the center
※ When TF Mast is applied, the overall width increases (by 100 mm, by 120mm)

New 9 Series

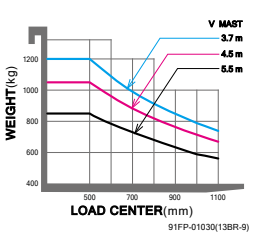
13/15/18/20BR-9
25/30BR-9

Load Curve

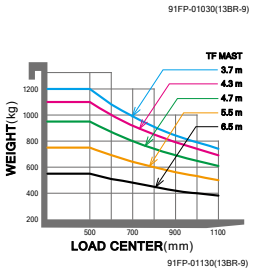
13BR-9



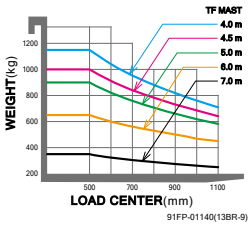
91FP-01020(13BR-9)



91FP-01030(13BR-9)

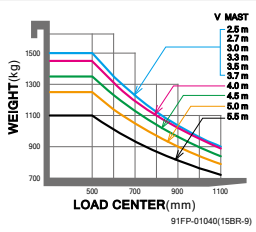


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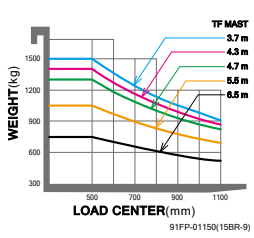


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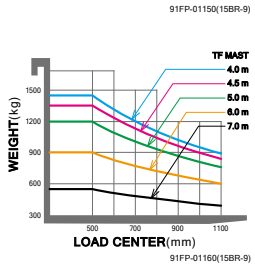
15BR-9



91FP-01040(15BR-9)

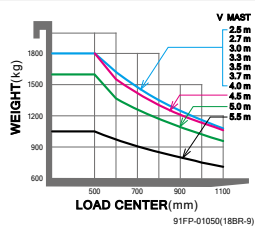


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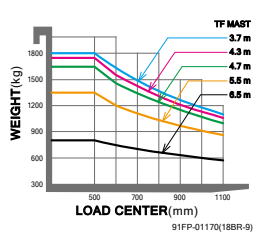


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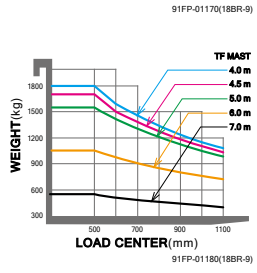
18BR-9



91FP-01050(18BR-9)

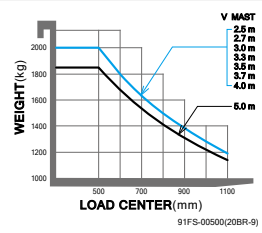


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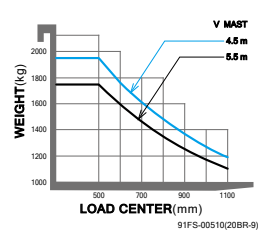


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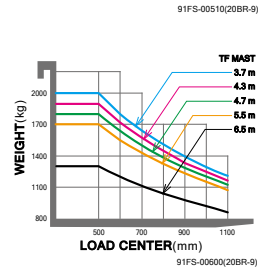
20BR-9



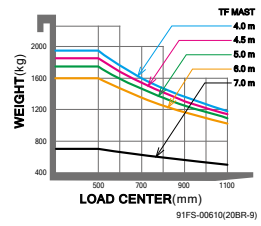
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91FS-00510(20BR-9)

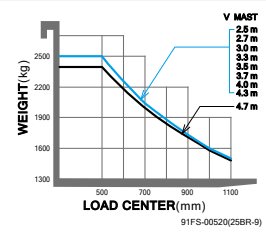


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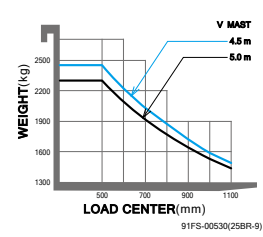


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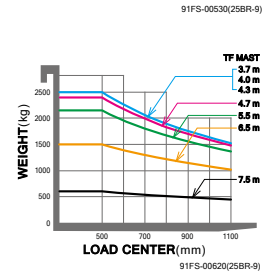
25BR-9



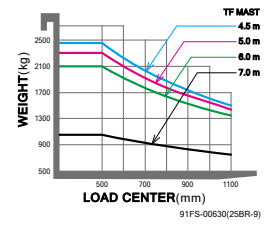
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91FS-00530(25BR-9)

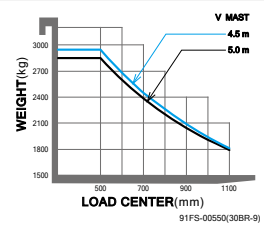


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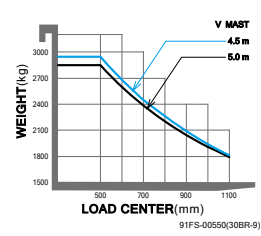


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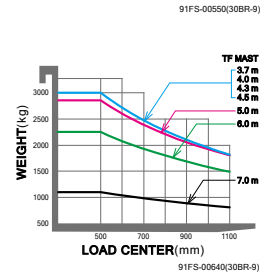
30BR-9



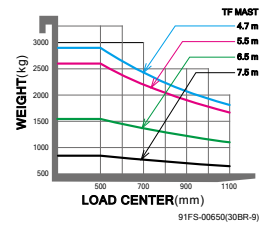
91FS-00550(30BR-9)



91FS-00550(30BR-9)



91FS-00640(30BR-9)



91FS-00650(30BR-9)

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

Equipment Data

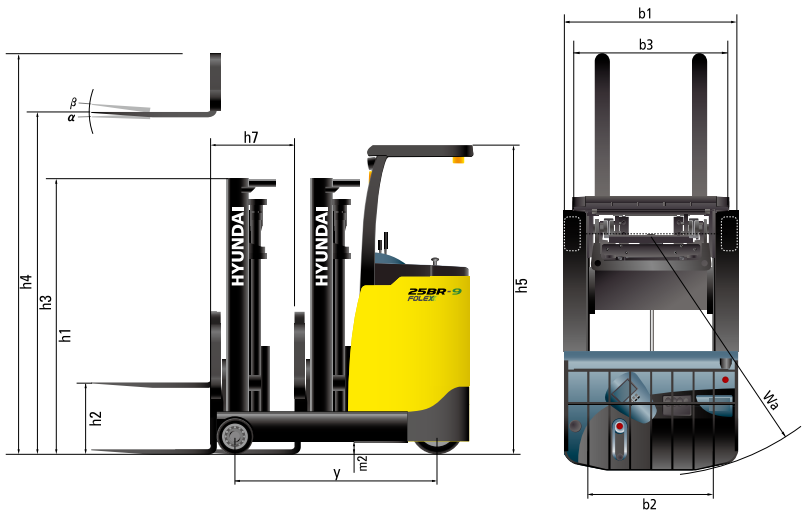
Identification								
1.1	Manufacturer		Hyundai					
1.2	Manufacturer's type designation		13BR-9	15BR-9	18BR-9	20BR-9	25BR-9	30BR-9
1.3	Drive : electric(battery or mains) ,diesel, petrol ,fuel gas, manual		electric	electric	electric	electric	electric	electric
1.4	Type of operation : hand, pedestrian, standing, seated, order - picker		standing	standing	standing	standing	standing	standing
1.5	Load capacity / rated load	Q kg	1,250	1,500	1,800	2,000	2,500	3,000
1.6	Load center distance	c mm	500	500	500	500	500	500
1.8	Load distance, center of drive axle to fork	x mm	189	271	489	484	612	682
1.9	Wheelbase	y mm	1,150	1,315	1,500	1,500	1,695	1,795
Weights								
2.1	Service weight (inc. battery)	kg	2,135	2,289	2,338	2,499	2,905	3,269
2.3	Axle loading, Unloaded front/rear		778 / 1,357	804 / 1,485	731 / 1,588	830 / 1,669	929 / 1,976	1,055 / 2,214
2.4	Axle loading, Fork advanced, Loaded front/rear	kg	2,969 / 416	3,306 / 483	3,624 / 496	4,020 / 479	4,840 / 565	5,692 / 577
2.5	Axle loading, Fork retracted, Loaded front/rear	kg	2,371 / 1,014	2,526 / 1,263	2,543 / 1,576	2,941 / 1,558	3,257 / 2,148	3,967 / 2,303
Wheels, Chassis								
3.1	Tires : Solid rubber(V), Superelastic(SE), Pneumatic(P), Polyurethane(PE)		PE, V					
3.2	Tires size, Load (∅ x width)			∅254 x 100		∅267 x 114		∅267 x 135
3.3	Tires size, Drive (∅x width)		∅306 x 127	∅306 x 145	∅306 x 145	∅306 x 145	∅382 x 142	∅382 x 142
3.4	Tires size, Caster (∅x width)		∅178 x 73	∅178 x 73	∅178 x 73	∅178 x 73	∅204 x 76	∅204x 76
3.5	Wheels number : load x drive(driven wheels) x caster		2x1x2	2x1x2	2x1x2	2x1x2	2x1x2	2x1x2
3.6	Track width, Load end	b10*1(mm)	970	970	970	994	1,060	1,075
3.7	Track width, Drive end	b11 mm	609	613	613	613	689	689
Basic Dimensions								
4.1	Tilt angle, Mast / fork carriage (forward / backward)	degrees	5/5	5/5	5/5	5/5	5/5	5/5
4.2	Lowered mast height	h1 mm	1,991	1,991	1,991	1,991	2,025	2,025
4.3	Free lift	h2 mm	267	267	267	277	293	293
4.4	Lift height	h3 mm	3,000	3,000	3,000	3,000	3,000	3,000
4.5	Extended mast height	h4 mm	4,025	4,025	4,025	4,025	4,030	4,030
4.7	Overhead load guard (cab) height	h5 mm	2,260	2,260	2,260	2,260	2,294	2,294
4.8	Step height	h7 mm	324	324	324	324	345	345
4.9	Overall length (Reach In, With Fork)	l1 mm	2,106	2,189	2,151	2,313.5	2,378	2,408
4.10	Length to face of forks (Reach In)	l2 mm	1,206	1,289	1,251	1,263.5	1,328	1,358
4.11	Overall width (Load end / Drive end)	b1*1/b2 (mm)	1,070	1,070	1,070	1,116	1,200	1,212
4.12	Fork dimensions(hook type)	s/e/ℓ mm	900x100x35	900x100x35	900x100x35	1,050x100x45	1,050x100x45	1,050x100x45
4.13	Fork carriage ISO 2328, class/type A,B		II /A	II /A	II /A	II /A	II /A	III /A
4.14	Fork-carriage width	b3*2 mm	1,037	1,037	1,037	1,037	1,110	1,110
4.15	Overall fork width	b5*3 mm	722	722	722	722	722	722
4.16	Distance between support arms/ loading surface	b4*1 (mm)	768	768	771	771	837	837
4.17	Reach distance	l4 mm	365	447	665	665	807	877
4.18	Ground clearance, loaded, under mast	m1 mm	106	106	106	106	130	130
4.19	Ground clearance, centre of wheelbase	m2 mm	94	94	79	79	85	78
4.20	Aisle width for pallets 1000x1200 crossways	Ast mm	2,647	2,740	2,763	2,781	2,895	2,956
4.21	Aisle width for pallets 800x1200 lengthways	Ast mm	2,725	2,807	2,791	2,810	2,891	2,931
4.22	Turning radius	Wa mm	1,438	1,596	1,775	1,775	1,980	2,077
4.23	Length across wheel arms	l7 mm	1,530	1,695	1,880	1,880	2,080	2,180
Performance Data								
5.1	TTravel speed, (loaded / unloaded)	km/h	11.5	11	11.5	11	12	11
5.2	Lift speed (loaded / unloaded)	mm/s	300 / 500	340 / 550	320 / 550	300 / 470	280 / 470	220 / 430
5.3	Lowering speed (loaded / unloaded)	mm/s	500 / 450	500 / 450	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	15 / 30	13 / 26
5.9	Acceleration time, 10m over (loaded / unloaded)		6.7	5.4	5.6	5.8	5.3	5.4
5.10	Service brake		DISC	DISC	DISC	DISC	DISC	DISC
Motor								
6.1	Dirve motor, rating S2 = 60min	kW	4.5	6	6	6	6	6
6.2	Lift motor, rating at S3 = 15% (S2 5min)	kW	14	14	14	14	14	14
6.3	Battery acc. to DIN 43531 / 35 / 36 A, B, C,no		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)	335 (300,365)	365
6.5	Battery weight (min)	kg	380 (370)	480 (560)	500 (480,560)	560 (500)	560 (500)	580
6.7	Battery compartment dimensions L / W / H	mm	1,006 / 275 / 603	1,006 / 383 / 603	1,006 / 383 / 603	1,006 / 383 / 603	1,006 / 383 / 603	1,006 / 383 / 603
Other Details								
8.1	Type of drive control		FET Inverter	FET Inverter	FET Inverter	FET Inverter	FET Inverter	FET Inverter
8.2	Operating pressure for attachments	bar	130	130	130	130	130	130
8.3	Oil volume for attachments	ℓ / min	18	18	18	18	18	18

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

Optional Items

- Fork (mm)
  13/15/18BR-9 : 900 / 1,050 / 1,200 / 1,350 / 1,500
  20/25/30BR-9 : 900 / 1,050 / 1,200 / 1,350 / 1,500 / 1,650 / 1,800
  30BR-9(Hook) : 900 / 1,150 / 1,200 / 1,350 / 1,500 / 1,650 / 1,800 / 2,400
- **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℃ 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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MATERIAL HANDLING

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