

14/16/20/25BRJ-9

Electric Reach Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



 **HYUNDAI**
HEAVY INDUSTRIES

■ Some of the photos may include optional equipment.

Your satisfaction is **our priority!**

Hyundai introduces a new line of **9-series** battery forklift trucks.
The newly designed sit-on reach 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
- Curve control system
- Load indicator (optional)
- Camera(optional)
- Auto Tilt Leveling(optional)



Superior Power & Optimal Performance

■ Some of the photos may include optional equipment.



Minimum Turning Radius

Compact design suitable for narrow aisle operation guarantees work efficiency and maximum space utilization.



Versatile Reach Stroke

Multi-roller reach assembly provides for a smooth, controlled and safe load handling system, extended reach allows unsurpassed versatility.

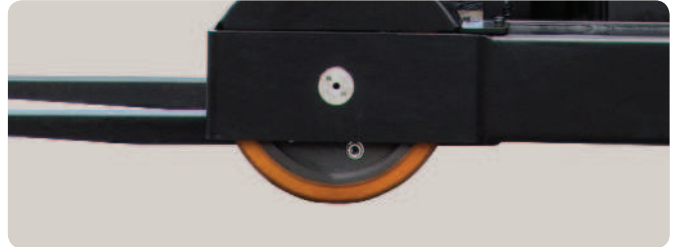
Efficient, smooth running and powerful performance make your work more productive.

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Automatic Center Position at Starting

When the key ON, prox switch detects the position of drive wheel, and the wheel turns to the center position automatically.



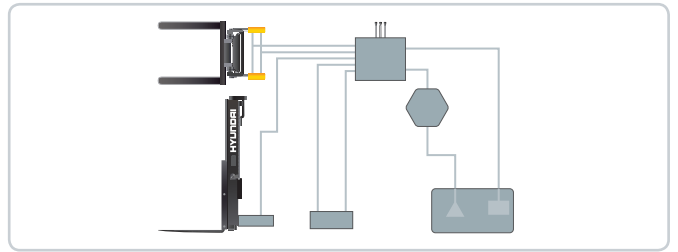
Electro Magnetic Brake

Increased brake torque and brake stability by electromagnetic load wheel brake.



FWD/REV Switch

The Forward/Reverse control provides the operator with precise and smooth directional control.



State-of-the-art Hydraulic System

The latest large-capacity hydraulic system reacts quickly during operation and the low noise control valve increases both efficiency and durability.



Drive Motor & Pump Motor

Efficient AC motor guarantees reliability and an optimized motor design provides for low noise levels. Temperature sensors ensure long motor life.



Energy Efficiency

H(High) mode : 100%

N(Normal) mode : 110%

E(Economic) mode : 120%

High Technology ZAPI Controller

The efficient, almost noiseless, 8kHz(high frequency) controller provides smooth quiet operation and protection for low & high voltage, overheating and fault recording.

Reach Cutback Control

Reach cutback control system reduces a reach in/out speed automatically at reach in/out end to suppress a shock and to secure a user safety & comfort

Traction Speed Cutback

Traction speed will be reduced automatically in case of mast going higher than free cylinder section for better user safety

End-Tip Cut Back

Lift speed will be reduced automatically at 100mm prior to lift-end to suppress a shock for securing a user safety&comfort



Excellent Gradeability Operation & Anti Roll Back

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

Optimised Ergonomics & Advanced Safety



■ Some of the photos may include optional equipment.



Newly Designed Steer Control Handle

A newly designed steering control coupled with our new Electric Power Steering control gives the operator exceptionally smooth and controlled steering for tight spaces.



Proportional Fingertip Control

Minimal operator effort is required for precise, safe and productive control. The operator can control the machine very easily at fingertip.



Non Slip Floor Mat

A heavy, vibration dampening, non-slip floor mat reduces operator fatigue and allows for increased productivity.



Break Pedal

Smoother breaking is assured by the balanced design of the pedal and maintenance costs are lowered as the cover is easily replaceable.

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

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Excellent visibility for safe operation

Optimized lift cylinder arrangement provides operator with wider visibility.



Strong Overhead Guard

The safety overhead guard meets ISO 6055 and ANSI regulations and protects the operator during hazardous work.



Headrest Cushion Pad

A large and soft cushion pad is positioned for operator's safety and comfort.



Cup Holder, Console Box & Storage Space

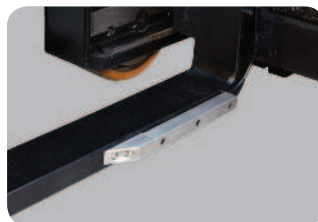
Additional storage spaces are located inside the operating space for operator's convenience.



Comfortable Operator Environment

A practically designed full suspension seat is fully adjustable for optimum operating position, reducing operating fatigue.

*Fabric seat (STD), PVC seat (optional)



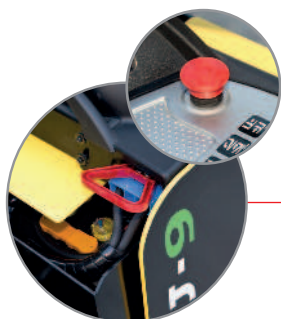
Camera & LCD monitor (optional)

A camera installed on fork side provides the operator with another excellent visibility. (apply to mast over TF700)



Durability, Easy Maintenance

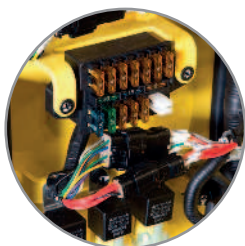
Maintenance



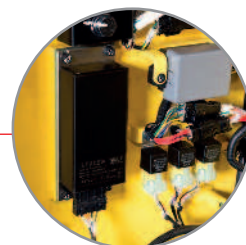
Battery Disconnect Lever & Emergency Switch



Easy Battery Replacement

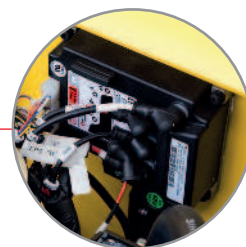


Concentrated Fuse Box for Easy Inspection

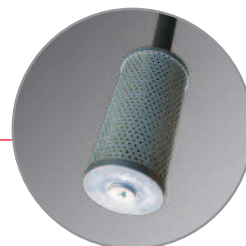


DC-DC Converter

DC-DC converter satisfied with UL & CE prevents from short circuit overload and reverse polarity.



Reliable MOSFET Type Controller

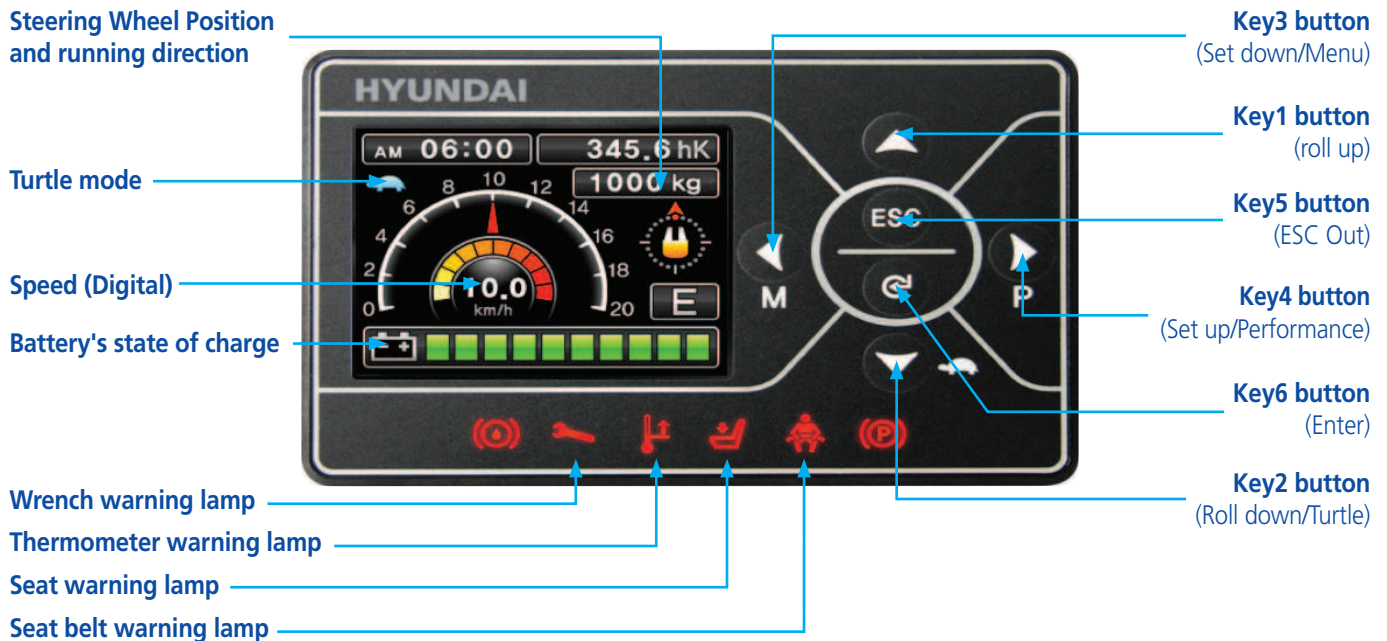


Hydraulic Filter

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

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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 & accelerator level, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The optional load indicator displays the load weight in the monitor. The optional indicator displays the height of fork in the monitor. The operator can select various performance modes to meet all working conditions. It is available multi-languages (maximum 11) for operator.

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.

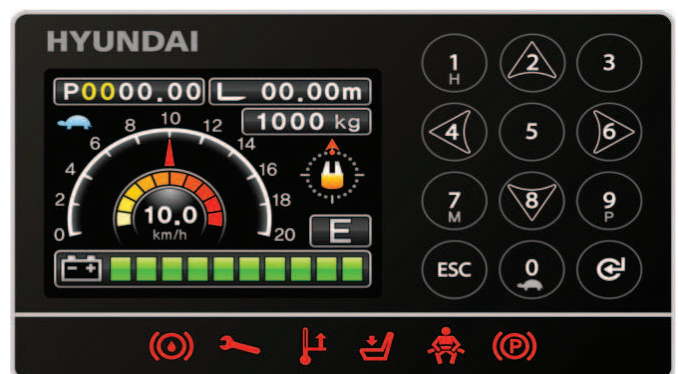
H (High) mode **N** (Normal) mode **E** (Economic) mode

Turtle mode



Easy maintenance

Hinged good makes daily maintenance easy and convenient.



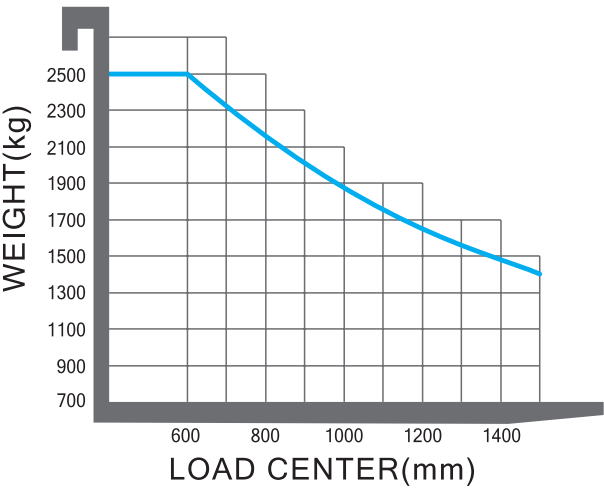
LCD Monitor (Option for Height Indicator)

New 9 Series

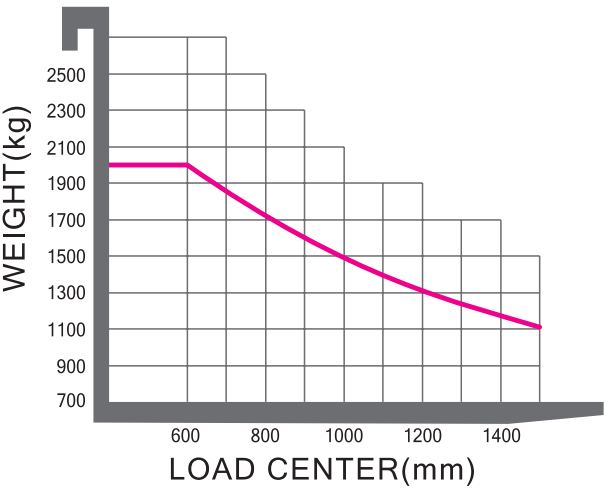
Load Capacity

MODEL	MAST	BATTERY WEIGHT
14/16BRJ-9	TF530	750 Kg
20/25BRJ-9	TF530	940 Kg

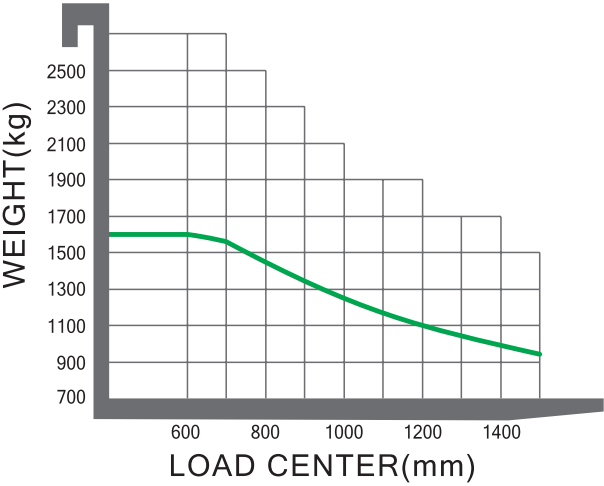
25BRJ-9



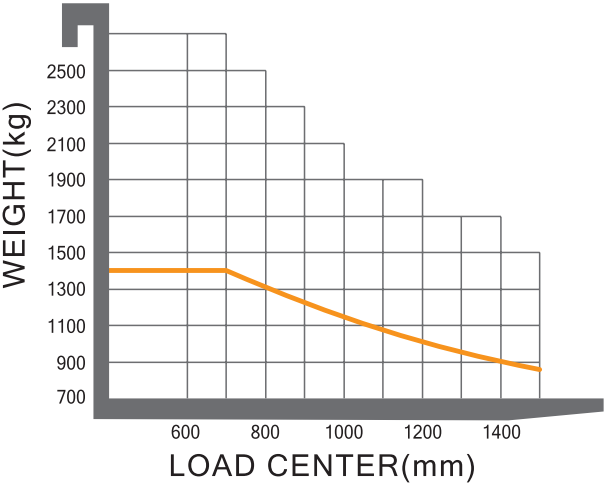
20BRJ-9



16BRJ-9



14BRJ-9



Optional Items

- UL(ES)
- Beacon Lamp (LED / bulb) - Amber, Blue, Red
- Fork Camera, Carriage Camera
- Cold Storage
- Work Lamp (LED)
- Rear Lamp (LED, Bulb)
- Auto Tilt Leveling
- Load Indicator
- Battery

- Charger 3Phrases 220 / 380V, 410V, 440V
- Joystick Lever
- Fork Height Indicator & Preselector
- Fork(mm)
 - 14/16BRJ-9: 900, 950, 1000, 1050, 1150, 1200 (STD), 1350, 1500, 1600
 - 20/25BRJ-9: 1000, 1050, 1200 (STD), 1350, 1500, 1650, 1800
- Sideshift: Max. 140 mm
- Tire: Urethane (STD), Vulkollan (Optional)
- Seat: Fabric (STD), PVC (optional)

Mast Specification (14/16BRJ-9)

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Overall height (Lifted)				Free Lift Height				Tilt Angle Fwd / Bwd		Truck Weight (Unloaded)			
						With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest		Fwd	Bwd				
		14/16BRJ-9												14BRJ-9		16BRJ-9			
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	lb	kg	lb	kg	
3-STAGE FULL FREE LIFT	TF430	170.9	4,340	79.1	2,009	244.4	5,370	190.8	4,846	38.5	979	56.0	1,422	2	5	6,786	3,078	6,991	3,171
	TF470	186.6	4,740	85.0	2,159	227.2	5,770	206.5	5,246	44.4	1,129	61.9	1,572	2	5	6,878	3,120	7,083	3,213
	*TF530	208.9	5,306	92.4	2,348	249.4	6,336	228.8	5,812	51.9	1,318	69.3	1,761	2	5	6,980	3,166	7,185	3,259
	TF550	218.1	5,540	96.8	2,459	258.7	6,570	238.0	6,046	56.3	1,429	73.7	1,872	2	5	7,068	3,206	7,273	3,299
	TF600	237.8	6,040	104.7	2,659	278.3	7,070	257.7	6,546	64.1	1,629	81.6	2,072	2	5	7,196	3,264	7,401	3,357
	TF650	257.5	6,540	112.6	2,859	298.0	7,570	277.4	7,046	72.0	1,829	89.4	2,272	2	5	7,606	3,450	7,811	3,543
	TF700	275.8	7,006	118.7	3,014	316.4	8,036	295.7	7,512	78.1	1,984	95.5	2,427	2	5	7,670	3,479	7,875	3,572
	TF750	295.5	7,506	122.3	3,106	336.1	8,536	315.4	8,012	81.7	2,076	99.2	2,519	2	5	7,727	3,505	7,932	3,598
	TF800	315.2	8,006	130.2	3,306	355.7	9,036	335.1	8,512	89.6	2,276	107.0	2,719	2	5	7,864	3,567	8,069	3,660
	TF850	334.9	8,506	136.7	3,473	375.4	9,536	354.8	9,012	96.2	2,443	113.6	2,886	2	5	8,060	3,656	8,265	3,749
	TF900	354.6	9,006	143.3	3,640	395.1	10,036	374.5	9,512	102.8	2,610	120.2	3,053	2	5	8,172	3,707	8,377	3,800
	TF950	374.3	9,506	149.9	3,807	414.8	10,536	394.2	10,012	109.3	2,777	126.8	3,220	2	5	8,285	3,758	8,490	3,851
	TF1000	393.9	10,006	157.8	4,007	434.5	11,036	413.9	10,512	117.2	2,977	134.6	3,420	2	5	8,474	3,844	8,680	3,937
	TF1050	413.6	10,506	164.3	4,174	454.2	11,536	433.5	11,012	123.8	3,144	141.2	3,587	2	5	8,587	3,895	8,792	3,988

* Standard

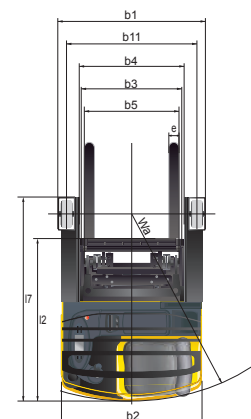
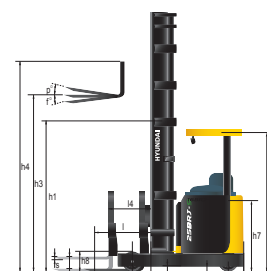
Mast Specification (20/25BRJ-9)

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Overall height (Lifted)				Free Lift Height				Tilt Angle Fwd / Bwd		Truck Weight (Unloaded)			
						With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest		Fwd	Bwd				
		20/25BRJ-9												20BRJ-9		25BRJ-9			
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	lb	kg	lb	kg	
3-STAGE FULL FREE LIFT	TF430	169.5	4,305	80.2	2,036	212.8	5,406	195.8	4,974	36.8	935	53.8	1,367	2	5	8,190	3,715	8,686	3,940
	TF470	185.2	4,705	86.1	2,186	228.6	5,806	211.6	5,374	42.7	1,085	59.7	1,517	2	5	8,280	3,756	8,779	3,982
	* TF530	208.9	5,305	93.9	2,386	252.2	6,406	235.2	5,974	50.6	1,285	67.6	1,717	2	5	8,375	3,799	8,874	4,025
	TF570	224.6	5,705	99.2	2,519	268.0	6,806	250.9	6,374	55.8	1,418	72.8	1,850	2	5	8,472	3,843	8,971	4,069
	TF630	248.2	6,305	108.0	2,744	291.6	7,406	274.6	6,974	64.7	1,643	81.7	2,075	2	5	8,607	3,904	9,103	4,129
	TF670	264.0	6,705	113.3	2,877	307.3	7,806	290.3	7,374	69.9	1,776	86.9	2,208	2	5	9,039	4,100	9,535	4,325
	TF700	275.8	7,005	117.2	2,977	319.1	8,106	302.1	7,674	73.9	1,876	90.9	2,308	2	5	9,112	4,133	9,608	4,358
	TF750	295.5	7,505	123.8	3,144	338.8	8,606	321.8	8,174	80.4	2,043	97.4	2,475	2	5	9,233	4,188	9,729	4,413
	TF800	315.2	8,005	131.3	3,336	358.5	9,106	341.5	8,674	88.0	2,235	105.0	2,667	2	5	9,372	4,251	9,870	4,477
	TF850	334.9	8,507	137.9	3,503	378.3	9,608	361.3	9,176	94.6	2,402	111.6	2,834	2	5	9,594	4,352	10,090	4,577
	TF900	354.6	9,007	144.5	3,670	398.0	10,108	380.9	9,676	101.1	2,569	118.1	3,001	2	5	9,716	4,407	10,214	4,633
	TF950	374.4	9,509	151.1	3,837	417.7	10,610	400.7	10,178	107.7	2,736	124.7	3,168	2	5	9,839	4,463	10,335	4,688
	TF1000	394.0	10,007	158.6	4,029	437.3	11,108	420.3	10,676	115.3	2,928	132.3	3,360	2	5	9,978	4,526	10,476	4,752
	TF1050	413.7	10,507	165.2	4,196	457.0	11,608	440.0	11,176	121.9	3,095	138.9	3,527	2	5	10,203	4,628	10,699	4,853
	TF1100	433.3	11,007	171.8	4,363	476.7	12,108	459.7	11,676	128.4	3,262	145.4	3,694	2	5	10,318	4,680	10,814	4,905
	TF1150	453.0	11,507	179.3	4,555	496.4	12,608	479.4	12,176	136.0	3,454	153.0	3,886	2	5	10,456	4,743	10,955	4,969
	TF1200	472.7	12,007	185.9	4,722	516.1	13,108	499.1	12,676	142.6	3,621	159.6	4,053	2	5	10,578	4,798	11,074	5,023

* Standard

Technical Data for 14/16/20/25BRJ-9

Identification	1.1	Manufacturer		HYUNDAI		HYUNDAI	
	1.2	Manufacturer's model designation		14BRJ-9	16BRJ-9	20BRJ-9	25BRJ-9
	1.3	Power supply(electric ,diesel,petrol,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 (t)	1.4	1.6	2	2.5
	1.6	Load center distance	c (mm)	600	600	600	600
	1.8	Load distance, center of drive axle(Loadwheel) to fork	x(mm)	314	364	340	490
	1.9	Wheelbase	y(mm)	1410	1460	1520	1670
Weights	2.1	Service weight (Incl. battery)	kg	3166	3259	3799	4025
	2.3	Axle loading, reach in, unloaded front(drive)/rear(load)		1,896 / 1,270	2,015 / 1,244	2,247 / 1,552	2,537 / 1,488
	2.4	Axle loading, reach out, loaded front(drive)/rear(load)	kg	602 / 3,964	610 / 4,249	631 / 5,168	688 / 5,837
	2.5	Axle loading, reach in , loaded front(drive)/rear(load)	kg	1,612 / 2,954	1,756 / 3,103	1,905 / 3,895	2,372 / 4,152
Wheels/Chassis	3.1	Tires(solid rubber, superelastic, pneumatic, polyurethane)		PE	PE	PE	PE
	3.2	Tires size, front<Drive>(Ø x width)		305x140	305x140	345x140	345x140
	3.3	Tires size, rear<Load>(Ø x width)		285x100	285x100	355x106	355x135
	3.5	Wheels, numbers(x=driven wheels), front(drive)/rear(load)		1x/2	1x/2	1x/2	1x/2
	3.6	Track width, front(drive)	b10 (mm)	0	0	0	0
	3.7	Track width, rear(load)	b11 (mm)	1149	1149	1155	1184
Basic Dimensions	4.1	Mast/fork carriage tilt forward/backward	degrees	2 / 5	2 / 5	2 / 5	2 / 5
	4.2	Lowered mast height	h1 (mm)	2348	2348	2386	2386
	4.3	Free lift (without backrest)	h2 (mm)	1761	1761	1717	1717
	4.4	Lift height	h3 (mm)	5306	5306	5305	5305
	4.5	Extended mast height (without backrest)	h4 (mm)	5812	5812	5974	5974
	4.7	Overhead load guard (cab) height	h6 (mm)	2116	2116	2135	2135
	4.8	Seat height/ standing height	h7 (mm)	922	922	942	942
	4.10	Height of wheel arms	h8 (mm)	303	303	374	374
	4.19	Overall length (Reach In, Fork End)	l1 (mm)	2511	2511	2595	2595
	4.20	Length to face of forks (Reach In)	l2 (mm)	1311	1311	1395	1395
	4.21	Overall width	b1/b2 (mm)	1279 / 1270	1279 / 1270	1291 / 1270	1349 / 1270
	4.22	Fork dimensions(hook type)	s/e/l(mm)	40x100x1200	40x100x1200	45x100x1200	45x122x1200
	4.23	Fork carriage ISO 2328, class/type A,B		2A	2A	2B	2B
	4.24	Fork-carriage width	b3 (mm)	800	800	800	800
	4.25	Overall fork width	b5 (mm)	732	732	732	732
	4.26	Distance between support arms	b4 (mm)	951	951	951	951
	4.28	Reach Stroke	l4 (mm)	504	554	544	692
	4.31	Ground clearance, loaded, under mast	m1(mm)	91	91	109	109
	4.32	Ground clearance, centre of wheelbase	m2(mm)	56	58	71	77
4.33	Aisle width for pallets 1000x1200 crossways	Ast(mm)	2749	2759	2834	2872	
4.34	Aisle width for pallets 800x1200 lengthways	Ast(mm)	2810	2812	2890	2900	
4.35	Turning radius	Wa(mm)	1638	1685	1742	1885	
Performance Data	4.37	Length across wheel arms	l7(mm)	1790	1860	1935	2085
	5.1	Travel speed, unloaded	km/h	14	14	14	14
	5.2	Lift speed, loaded/ unloaded	m/s	0.37 / 0.58	0.37 / 0.58	0.3 / 0.47	0.3 / 0.47
	5.3	Lowering speed, loaded/unloaded	m/s	0.5 / 0.45	0.5 / 0.45	0.5 / 0.45	0.5 / 0.45
	5.6	Max. drawbar pull, loaded/ unloaded S2 5min	N	580 / 610	570 / 600	710 / 750	700 / 750
	5.8	Max. gradient performance, loaded/ unloaded S2 5min	%	13 / 18	12 / 18	12 / 19	11 / 18
E-Motor	5.10	Service brake		electric	electric	electric	electric
	6.1	Dirve motor rating S2 60min	kW	7.5	7.5	7.5	7.5
	6.2	Lift motor rating at S2 5min	kW	14	14	14	14
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C,no		DIN43531	DIN43531	DIN43531	DIN43531
	6.4	Battery voltage, nominal capacity K5	V/Ah	48 / 420	48 / 420	48 / 560	48 / 560
	6.5	Battery weight(min)	kg	750	750	940	940
		Battery dimensions L/W/H	mm	1223 / 283 / 787	1223 / 283 / 787	1223 / 353 / 787	1223 / 353 / 787
Other Details	8.1	Type of drive control		AC Mosfet	AC Mosfet	AC Mosfet	AC Mosfet
	8.2	Operating pressure for attachments	bar	160	170	170	190
	8.3	Oil volume for attachments	l/min	25	25	25	25
	8.4	Sound level at driver's ear according to DIN 12 053	db(A)	70	70	70	70



* Standard and optional equipment may vary per country. Contact your Hyundai dealer for more information.

* The photos may include attachments and optional equipment that are not available in your area.

* Materials and specifications are subject to change without advance notice.

* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT



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