

Electric Reach Trucks

HYUNDAI HEAVY INDUSTRIES

MOVING YOU FURTHER



Your satisfaction is **our priority!**

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



Compact forklift with proven AC technology

- Maximum performance
- Comfortable operating room
- Curve control system
- Load weight indicator
- Camera (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 a smooth, controlled and safe load handling system, and shows unsurpassed versatility during extended reach.

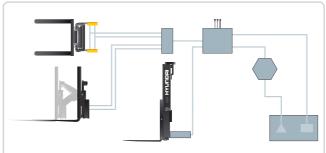
Smooth running, efficient and ergonomically designed, 15/18/20/23BRP-9 series are built to meet your needs.

15/18/20/23BRP-9



Automatic Center Position at Starting

When the key is turned to the on position, the steering sensor detects the position of the drive wheel and automatically returns the wheel to the center position.



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.



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 quite operation and protection for low & high voltage, overheating and fault recording.



Drive Motor & Pump Motor

AC motors are designed for optimum reliability and efficiency while providing low noise levels. The AC motors are equipped with temperature sensors to ensure long motor life.

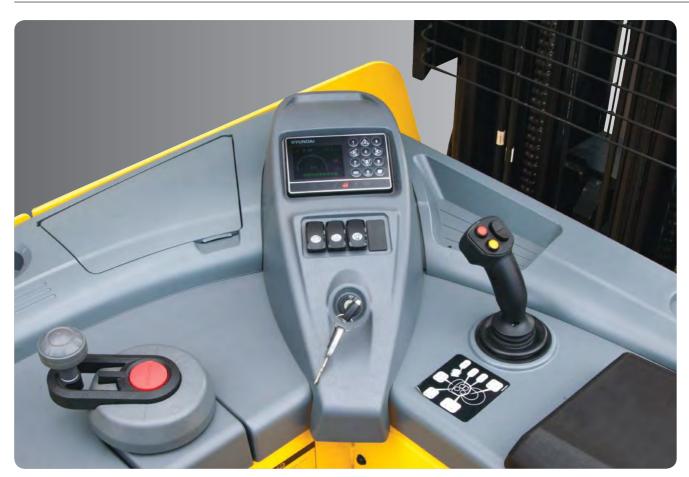


Excellent Gradeability Operation & Anti Roll Back

A powerful drive motor and four wheel configuration provide for exceptional stability and excellent gradeability. When restarting after stop on a slope, an anti-roll back function ensure operational safety.

	Travel Speed	Gradeabili	ity (MAX)
	(MAX)	unloaded	loaded
15BRP-9	7.3 mph	22%	13%
18BRP-9	7.3 mph	15%	13%
20BRP-9	7.3 mph	15%	12%
23BRP-9	7.3 mph	20%	11%

Optimized Ergonomics & Advanced Safety



■Some of the photos may include optional equipment.



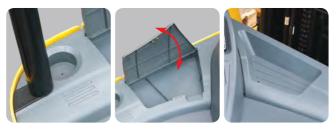
Steering Control

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



Joystick Lever

Minimal operator effort is required for precise, safe and productive control. The lever's contoured design and cushion armrest provide added comfort during operation.



Cup Holder, Console Box & Storage Space

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

A design based on human engineering relieves fatigue and increases operator efficiency.

15/18/20/23BRP-9



New High Visibility for Safe Operation

The operator is able to work with increased safety and accuracy due to a wider mast view.



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



Adjustable Backrest A large and soft cushion pad is applied for operator's safety and comfort.



Non Slip Floor Mat A heavy, vibration dampening, floor mat reduces operator fatigue and provides increased productivity.



Protection Fence Protection fence installed between mast and operator room for safety. *Tempered Glass Fence(Optional)



Camera & LCD monitor (optional)

A camera installed on fork side provides the operator with another excellent visibility. (Suggested for applications requiring 270" lift height and above.)

Durability, Easy Maintenance



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

15/18/20/23BRP-9

Advanced LCD Monitor



 ${\bf H}$ (High) mode $~{\bf N}$ (Normal) mode $~{\bf E}$ (Economic) mode $~{\bf Turtle\ mode}$

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 load indicator displays the load weight and 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.



Monitor for load& height indicator

The load indicator displays the load weight in the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded. The optional height indicator displays the height of fork in the monitor.

New 9 Series

Load Capacity

WEIGHT (kg)

1888P-9 ir530 d. d. d. d. d. in 1000000000000000000000000000000000000										
15RP-9 17530 C 42 in 15RP-9 15RP-9 16RP-9 000000000000000000000000000000000000				[18BRP-9	TF530		А		
15RP-9 16P 16P-9 16P-9 100 100 100 100 100 100 100 10					20BRP-9	TF530		В		
					23BRP-9	TF530		C	42 in	
00 00 00 00 00 00 00 00 00 00	15BRP	9		18BRP	-9					
LOAD CENTER (mm) 20BP-9 20P 20P 20P 20P 20P 20P 20P 20P	2000 1800 1600 1400 1200 1000 800		WEIGHT (kg)	2000 - 1800 - 1600 - 1400 - 1200 - 800 -						
									1400	
2000 2000 2000 2000 2000 2000 1800 1600 1600 1600 1600 1600 1600 1600 1000 1000 1000 1200 1400 1000 1000 1200 1400	20BRP			23BRI			()		
LOAD CENTER (mm) LOAD CENTER (mm)	2000 1800 1600 1400 1200 1000 800		WEIGHT (kg)	2000 = 1800 = 1600 = 1400 = 1200 = 800 =					1400	
		LOAD CENTER (mm)			LOAI	D CENT	ER (mm)		

BATTERY TYPE

С

MODEL

15BRP-9

MAST

TF530

OUTTRIGGER-I.D

42 in

Optional Items

WEIGHT (kg)

Outrigger I.D (in) - 34, 36, 38, 40, 44, 46, 48, 50 Integral Sideshift - Max. 4.7 in UL - UL" EE" Beacon Lamp - Amber, Blue , Red Rear Work Lamp Fork Length (in) - 15/18BRP: 35, 37, 39, 45, 47, 53, 59, 63 - 20/23BRP: 35, 39, 47, 53, 59, 65, 71

Fence

- Wire net type (STD)
- Tempered glass type (OPT)
- Tire
- Vulkollan
- Height Indicator Cold Storage Battery - 600AH, 700AH, 800AH Charger 3P
- 220/380V, 410V, 440V

15/18/20/23BRP-9

				Overall	Free Lift					Truck V	Veight	- w/o l	Battery	,	
	ast pe	Maximum Fork Height	Overall Height (Lowered)	Height (Lifted) (With Backrest)	Height (With Backrest)	Over Headguard Height	Min. Outtrigger -I.D		vpe B.C 5 in	"B" B.C 10	Type 6.5 in	"C" B.C 1	Type 8.3 in		Type 1.1 in
		15/23BRP-9	15/23BRP-9	15/23BRP-9	15/23BRP-9	15/23BRP-9	15/23BRP-9	15BRP-9	23BRP-9	15BRP-9	23BRP-9	*15BRP-9	*23BRP-9	15BRP-9	23BRP-9
		in	in	in	in	in	in	lb	lb	lb	lb	lb	lb	lb	lb
	TF500	197	89	245	41	88	34	6,327	-	6,367	6,184	6,398	6,217	6,449	6,268
	* TF530	210	96	258	47	94	34	6,433	-	6,471	6,290	6,501	6,321	6,552	6,371
	TF610	240	107	288	59	94	34	6,783	-	6,823	6,640	6,854	6,673	6,905	6,724
3-Stage	TF685	270	119	318	71	94	34	-	-	7,024	6,843	7,057	6,876	7,108	6,927
Full Free	TF760	300	131	348	83	94	34	-	-	7,227	7,046	7,260	7,076	7,311	7,128
Lift	TF815	321	140	369	92	94	34	-	-	7,385	7,203	7,416	7,236	7,467	7,286
	TF865	341	149	389	101	94	40	-	-	-	-	7,591	7,408	7,641	7,458
	TF930	366	160	414	112	94	42	-	-	-	-	-	-	7,829	7,648
	TF1010	400	172	448	124	94	44	-	-	-	-	-	-	8,073	7,892
														* 9	TANDARD

Mast Specification (15/23BRP-9)

Mast Specification (18/20BRP-9)

						Overall	Height	Free	Lift	0\	or	м	in.		Truck	Weight	- w/o B	attery	
	ast pe	Maxi Fork H	mum leight		Height ered)	(W	ted) 'ith trest)	(W	ght ith rest)	Head	guard ght	Outtr -I	igger	"A" B.C 14		"B" B.C 1	Type 6.5 in		Type 8.3 in
		18BRP-9	20BRP-9	18BRP-9	20BRP-9	18BRP-9	20BRP-9	18BRP-9	20BRP-9	18BRP-9	20BRP-9	18BRP-9	20BRP-9	*18BRP-9	20BRP-9	18BRP-9	*20BRP-9	18BRP-9	20BRP-9
		in	in	in	in	in	in	in	in	in	in	in	in	lb	lb	lb	lb	lb	lb
	TF500	197	197	89	89	245	245	41	41	88	88	34	34	5,725	-	5,765	5,765	-	5,796
2 644 444	*TF530	210	210	96	96	258	258	47	47	94	94	34	34	5,809	-	5,849	5,849	-	5,880
3-Stage	11-610	240	240	107	107	288	288	59	59	94	94	34	34	6,120	-	6,158	6,158	-	6,188
Full Free	TF685	270	270	119	119	318	318	71	71	94	94	34	34	-	-	6,354	6,354	-	6,385
Lift	TF760	-	300	-	131	-	348	-	83	-	94	-	34	-	-	-	-	-	6,548
	TF815	-	321	-	140	-	369	-	92	-	94	-	34	-	-	-	-	-	6,673

Battery Table

	Battery Compartment	Batterv	Max. Capacity	Batt	ery Dimens	ions	Battery Weight
Battery Type	Size (Length)	Voltage		Width (W)	Length (L)	Height (H)	Min. Weight
	in	Volt	Ah	in	in	in	lb
Type A	14.3	36	775	38.4	14.0	31.0	1,598
Туре В	16.3	36	930	38.4	16.0	31.0	1,878
Type C	18.0	36	1085	38.4	17.7	31.0	2,280
Type D	20.7	36	1240	38.4	20.5	31.0	2,601

Load Tire Option Table

Mast	15B	RP-9	18B	RP-9	20B	RP-9	23B	RP-9
Туре	ø5x4"	ø10.5x4"	ø5x4"	ø10.5x4"	ø5x4"	ø10.5x4"	ø5x4"	ø10.5x4"
TF500	٠	-	٠	•	٠	•	٠	٠
TF530	٠	-	٠	•	٠	•	٠	٠
TF610	•	-	٠	•	٠	•	٠	٠
TF685	•	-	٠	•	•	•	٠	٠
TF760	•	-	-	-	•	-	•	•
TF815	•	-	-	-	•	-	•	•
TF865	•	-	-	-	-	-	•	-
TF930	•	-	-	-	-	-	•	-
TF1010	•	-	-	-	-	-	•	-

Right Angle Aisle Stacking - Zero Clearance

14.3" Battery Compartment and 42" Outrigger I.D 14.3" Battery Compartment and 42" Outrigger I.D 16.3" Battery Compar	mont and 12" Outriggor !
14.5 Dallery Comparinent and 42 Outriquer 1.0 14.5 Dallery Comparinent and 42 Outriquer 1.0 10.5 Dallery Compar	Henri and 42 Outnuder
······································	

		1	5BRP-9	9					18	/20BRF	-9					2	3BRP-9	9		
		Р	allet W	/idth (ir	ו)				P	allet W	/idth (ir	ı)				Р	allet W	/idth (ir	ı)	
Dellat		33	36	40	44	48	Dellat		33	36	40	44	48	Dellat		33	36	40	44	48
Pallet	36	92	92	91	91	90	Pallet	36	84	84	83	83	82	Pallet	36	87	87	86	86	85
Length (in)	40	96	96	96	96	95	Length (in)	40	89	89	88	88	87	Length (in)	40	92	92	91	91	91
(11)	44	101	101	100	100	100	(11)	44	93	93	93	92	92		44	97	96	96	96	95
	48	105	105	105	104	104		48	98	97	97	97	97		48	101	101	100	100	100

• Add 2.0 in for 16 in Battery Compartment • Add 3.5 in for 18 in Battery Compartment • Add 6.0 in for 21 in Battery Compartment \cdot Add 2.0 in for 16 in Battery Compartment \cdot Add 3.5 in for 18 in Battery Compartment

 \cdot Add 2.0 in for 16 in Battery Compartment \cdot Add 3.5 in for 18 in Battery Compartment

* STANDARD

Technical Data for 15/18/20/23BRP-9

	I Information			1	1	1		
1	Manufacturer			HYUNDAI	HYUNDAI	HYUNDAI	HYUNDAI	
2	Model	Manufacturer's Designation		15BRP-9	18BRP-9	20BRP-9	23BRP-9	DAL.
3	Load Capacity * (1)	Max.	lb	3000	3,500	4,000	4,500	INAN
4	Load Center	Fork Face to Load CG	in	24	24	24	24	h3
5	Power Unit	Туре	Volt	36	36	36	36	
9	Operator Type			Stand,D/ Reach	Stand,D/ Reach	Stand,D/ Reach	Stand,D/ Reach	
7	Tire Type	Load / Drive / Caster		Poly./Poly./Poly.	Poly./Poly./Poly.	Poly./Poly./Poly.	Poly./Poly./Poly.	
8	Wheels (x=driven)	Load / Drive / Caster		4 / 1x / 2	4 / 1x / 2	4 / 1x / 2	4 / 1x / 2	
asic D	imensions							227mm
10	Mast * (2)	Lift height - See Chart	(h1) in	210	210	210	210	
11		Free Lift - See Chart	(h2) in	47	47	47	47	b2
12	Fork	Overall Fork Width , Max.	(h1) in	30	30	30	30	139mm b1
		Overall Fork Width , Min.	(h1) in	13	13	13	13	
		Tickness x width	in	1.5 x 3.9	1.5 x 3.9	1.7 x 3.9	1.7 x 3.9	
		Length	in	41	41	41	41	
15	Length to Fork Face * (3)	Battery Compartment " Type A"	(I1) in	58	50 * (4)	N/A	N/A	
		Battery Compartment " Type B"	in	60	52	52 * (4)	54	
-		Battery Compartment " Type C"	in	61 * (4)	N/A	54	56 * (4)	
		Battery Compartment " Type D"	in	64	N/A	N/A	58	
16	Reach (Pantograph)	Stroke	(I2) in	43	23	23	23	Wa
17	Overall Height * (2)	Lowered -See Chart	(h3) in	95	95	95	95	
18		Lifted -See Chart	in	258	258	258	258	
19	Load Backrest Height		(h4) in	48	48	48	48	
20	Outrigger ID	In 50mm increments (34~1,270)	(h4) in (b2) in	48	48	40	48	
20	Turning Radius	in standard battery compartment	(wa) in	73	66	67	72	1,030mm
21	Battery Compartment * (4)	Length	(wa) in in	18	14	16	18	
erforn		Length		18	14	10	10	
24	Speed - Travel	W/O Load	na na la	7.3	7.3	7.3	7.3	10
	speed - Travel		mph					
25	Constant 116	Max. With Load	mph	7.3	7.3	7.3	7.3	
26	Speed - Lift	Lift Speed, with Load	ft/s	1.05	1.02	0.95	0.89	
27		Lift Speed, without Load	ft/s	1.48	1.48	1.51	1.51	4°
28	Speed - Lower	Lower Speed, with Load	ft/s	1.64	1.64	1.64	1.64	
29		Lower Speed, without Load	ft/s	1.48	1.48	1.48	1.48	. 1
Veight								
34	Service weight	Including battery, less load, standard	lb	8,781	7,408	7,727	8,600	•18/20/23BRP-9
35	Axle loading	With Load, Front	lb	7,143	7,031	7,762	8,576	* 10/20/25DI(F-5
		With Load, Rear	lb	4,639	3,878	3,964	4,524	
		W/O Load, Front	lb	3,512	2,879	3,045	3,406	12
		W/O Load, Rear	lb	5,269	4,528	4,683	5,194	
hassis								
39	Tires/Wheels	Number, Load/Drive/Caster		4/1/2	4/1/2	4/1/2	4/1/2	
40	Wheel Size	Front, Load Wheels	in	ø 5.0 x 4.0	ø 5.0 x 4.0	ø 5.0 x 4.0	ø 5.0 x 4.0	
		Rear, Drive Wheel(Steer)	in	ø 13.6 x 5.5	ø 13.6 x 5.5	ø 13.6 x 5.5	ø 13.6 x 5.5	
		Rear, Caster Wheel	in	ø 7.0 x 2.9	ø 7.0 x 2.9	ø 7.0 x 2.9	ø 7.0 x 2.9	
	Wheelbase	Battery Compartment " Type A"	in	59.4	55.1 * (4)	N/A	N/A	1
41				61.5	57.1	57.1 * (4)	61.5	•15BRP-9
41		Battery Compartment " Type B"	in	01.5			·	
41		Battery Compartment " Type B" Battery Compartment " Type C"	in in	63.2 * (4)	N/A	58.8	61.6 * (4)	
41					N/A N/A	58.8 N/A	61.6 * (4) 64.4	
41	Ground Clearance	Battery Compartment " Type C" Battery Compartment " Type D"	in	63.2 * (4)				
44	Ground Clearance	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels	in in	63.2 * (4) 65.9 2.0	N/A 2.0	N/A 2.0	64.4 2.0	
		Battery Compartment " Type C" Battery Compartment " Type D"	in in	63.2 * (4) 65.9	N/A 2.0	N/A 2.0	64.4 2.0	
44	Ground Clearance	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels	in in	63.2 * (4) 65.9 2.0 Electromagnetic	N/A 2.0 Electromagnetic	N/A 2.0 Electromagnetic	64.4 2.0 Electromagnetic	
44 46	Ground Clearance Service Brake	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type	in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake	N/A 2.0 Electromagnetic Brake	N/A 2.0 Electromagnetic Brake	64.4 2.0 Electromagnetic Brake	
44 46	Ground Clearance Service Brake Parking Brake	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type Type	in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic	N/A 2.0 Electromagnetic Brake Automatic Electric release	N/A 2.0 Electromagnetic Brake Automatic	64.4 2.0 Electromagnetic Brake Automatic Electric release	
44 46 47	Ground Clearance Service Brake Parking Brake Steering	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type	in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic Electric release	N/A 2.0 Electromagnetic Brake Automatic Electric release	N/A 2.0 Electromagnetic Brake Automatic Electric release	64.4 2.0 Electromagnetic Brake Automatic Electric release	
44 46 47 lectric	Ground Clearance Service Brake Parking Brake Steering	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type Type Type	in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic Electric release Electric Steering	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering	64.4 2.0 Electromagnetic Brake Automatic Electric release Electric Steering	
44 46 47	Ground Clearance Service Brake Parking Brake Steering	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type Type Type Type	in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid	64.4 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid	
44 46 47 lectric	Ground Clearance Service Brake Parking Brake Steering	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type Type Type Type Max. Amp -standard	in in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 1,085	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 775	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 930	64.4 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 1,085	
44 46 47 lectric 48	Ground Clearance Service Brake Parking Brake Steering Battery	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type Type Type Type Max. Amp -standard Min. Weight -standard	in in in Ah	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 1,085 2,280	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 775 1,598	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 930 1,878	64.4 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 1,085 2,280	
44 46 47 Electric	Ground Clearance Service Brake Parking Brake Steering	Battery Compartment " Type C" Battery Compartment " Type D" With 5.0" diameter load wheels Type Type Type Type Max. Amp -standard	in in in	63.2 * (4) 65.9 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 1,085	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 775	N/A 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 930	64.4 2.0 Electromagnetic Brake Automatic Electric release Electric Steering Lead Acid 1,085	

*(1) Contact factory. Capacity may be subject to derating at height. *(3) Add 65mm with option side shift *(2) Spec data is based on the standard mast (TF530, maximum fork height 210mm) *(4) Standard battery compartment (type A : 188RP-9, type B : 208RP-9, type C : 15/238RP-9)



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PLEASE CONTACT

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