Electric Reach Trucks

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.







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.

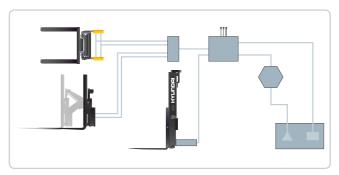
Smooth running, efficient and ergonomically designed, 15/18/20/23BRP-9 series are built to meet your needs.

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.



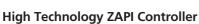
State-of-the-art Hydraulic System

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%



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.



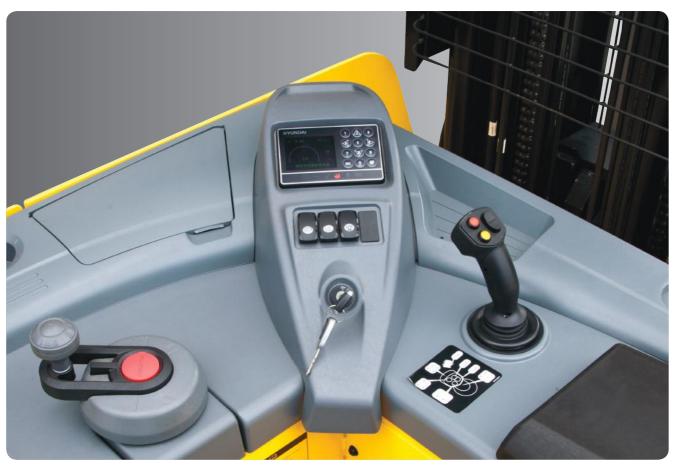
Excellent Gradeability Operation & Anti Roll Back

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	Gradeability (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

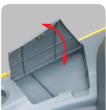
A steering control coupled with our Electric Power Steering system gives the operator exceptionally smooth and controlled steering for tight spaces.



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.



New High Visibility for Safe Operation

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



Strong Overhead Guard

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.

Advanced LCD Monitor



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

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.



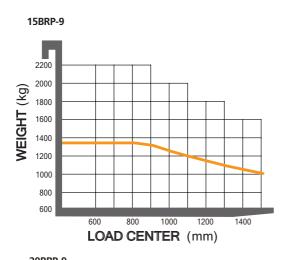
Monitor for load& height indicator

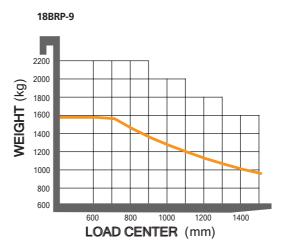
The load indicator displays the load weight in the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded. The optional height indicator displays the height of fork in the monitor.

New 9 Series

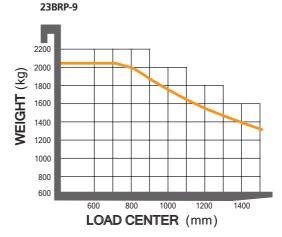
Load Capacity

MODEL	MAST	BATTERY TYPE	OUTTRIGGER-I.D
15BRP-9	TF530	С	42 in
18BRP-9	TF530	А	42 in
20BRP-9	TF530	В	42 in
23BRP-9	TF530	С	42 in









Optional Items

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

Mast Specification (15/23BRP-9)

				Overall	Free Lift					Truck V	Veight	- w/o l	Battery	,	
Mast Type		Maximum Fork Height	Overall Height (Lowered)	Height (Lifted) (With Backrest)	Height (With Backrest)	Over Headguard Height	Min. Outtrigger -I.D	"A" Type B.C 14.5 in		B.C 16.5 in		"C" Type B.C 18.3 in		l	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

* STANDARD

Mast Specification (18/20BRP-9)

Mast Type		Maximum Overall Height Fork Height (Lowered)			Overall Height Free Lift t (Lifted) Height (With (With Backrest) Backrest)		Over Headguard Height		Min. Outtrigger -I.D		Truck "A" Type B.C 14.5 in		Weight - w/o B "B" Type B.C 16.5 in		"C" Type B.C 18.3 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 (4	*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

* STANDARD

Battery Table

Battery Type	Battery Compartment	Battery	Max. Capacity	Batt	ions	Battery Weight	
	Size (Length)	Voltage	(6 Hour Rate)	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
Type B	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	•	-	•	•	•	•	•	•
TF530	•	-	•	•	•	•	•	•
TF610	•	-	•	•	•	•	•	•
TF685	•	-	•	•	•	•	•	•
TF760	•	-	-	-	•	-	•	•
TF815	•	-	-	-	•	-	•	•
TF865	•	-	-	-	-	-	•	-
TF930	•	-	-	-	-	-	•	-
TF1010	•	-	-	-	-	-	•	-

Right Angle Aisle Stacking - Zero Clearance

14.3" B	attery	Compar	tment	and 42"	Outrig	ger I.D	14.3" B	attery	Compai	rtment	and 42"	Outrig	ger I.D	16.3" B	attery	Compai	tment a	and 42'	Outrig	ger I.D
15BRP-9							18/20BRP-9						23BRP-9							
		P	allet W	idth (ir	1)				Р	allet W	idth (ir	1)				P	allet W	idth (ir	1)	
Dallat		33	36	40	44	48	Dallat		33	36	40	44	48	Dallat		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
(111)	44	101	101	100	100	100	(111)	44	93	93	93	92	92	(111)	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

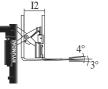
 $[\]cdot$ Add 2.0 in for 16 in Battery Compartment \cdot Add 3.5 in for 18 in Battery Compartment

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

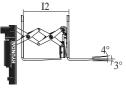
Genera	al Information						
1	Manufacturer			HYUNDAI	HYUNDAI	HYUNDAI	HYUNDAI
2	Model	Manufacturer's Designation		15BRP-9	18BRP-9	20BRP-9	23BRP-9
3	Load Capacity * (1)	Max.	lb	3000	3,500	4,000	4,500
4	Load Center	Fork Face to Load CG	in	24	24	24	24
5	Power Unit	Туре	Volt	36	36	36	36
9	Operator Type			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	Dimensions						
10	Mast * (2)	Lift height - See Chart	(h1) in	210	210	210	210
11		Free Lift - See Chart	(h2) in	47	47	47	47
12	Fork	Overall Fork Width , Max.	(h1) in	30	30	30	30
		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
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)	(b2) in	42	42	42	42
21	Turning Radius	in standard battery compartment	(wa) in	73	66	67	72
22	Battery Compartment * (4)	Length	in	18	14	16	18
	mance	zengu					
24	Speed - Travel	W/O Load	mph	7.3	7.3	7.3	7.3
25	Specu Havei	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	Speed - Lift	Lift Speed, with Load	ft/s	1.48	1.48	1.51	1.51
28	Speed - Lower	Lower Speed, with Load	ft/s	1.64	1.64	1.64	1.64
29	Speed - Lower	Lower Speed, without Load	ft/s	1.48	1.48	1.48	1.48
Veigh	tr	Lower speed, without Load	105	1.40	1.40	1.40	1.40
34	Service weight	Including battery, less load, standard	lb	8,781	7,408	7,727	8,600
35	-	With Load, Front	Ib	7,143	7,408	7,762	8,576
33	Axle loading		lb				
		With Load, Rear	lb	4,639	3,878	3,964	4,524 3,406
		W/O Load, Front	lb	3,512	2,879	3,045	
l !		W/O Load, Rear	ID	5,269	4,528	4,683	5,194
hassis		New least to a difficulty of Control		4/4/2	4/4/2	4/4/2	4/4/2
39	Tires/Wheels Wheel Size	Number, Load/Drive/Caster		4/1/2	4/1/2	4/1/2	4/1/2
40	vvneei 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
	Land II	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
41	Wheelbase	Battery Compartment " Type A"	in .	59.4	55.1 * (4)	N/A	N/A
		Battery Compartment " Type B"	in	61.5	57.1	57.1 * (4)	61.5
		Battery Compartment " Type C"	in	63.2 * (4)	N/A	58.8	61.6 * (4)
		Battery Compartment " Type D"	in	65.9	N/A	N/A	64.4
44	Ground Clearance	With 5.0" diameter load wheels	in	2.0	2.0	2.0	2.0
46	Service Brake	Туре		Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake	Electromagnet Brake
47	Parking Brake	Туре		Automatic	Automatic	Automatic	Automatic
				Electric release	Electric release	Electric release	Electric release
	Steering	Туре		Electric Steering	Electric Steering	Electric Steering	Electric Steerin
lectric	:						
48	Battery	Туре		Lead Acid	Lead Acid	Lead Acid	Lead Acid
		Max. Amp -standard	Ah	1,085	775	930	1,085
		Min. Weight -standard	lb	2,280	1,598	1,878	2,280
49	Motors, Controls	Drive Motor, 60 Min Rating	kw	6.8	6.8	6.8	6.8
		Hydraulic Motor, 15% Rating	kw	16	16	16	16
		,		L			







•18/20/23BRP-9



•15BRP-9



Drive& Hydraulic Motor control Type

6100 Atlantic Blvd Norcross, GA 30071 TEL (678) 823 7777 FAX (678) 823 7778

PLEASE CONTACT		

www.hceamericas.com

AC

2015. 03 Rev. 0

^{*(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 : 18BRP-9, type B: 20BRP-9, type C: 15/23BRP-9)