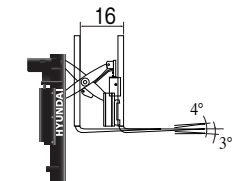
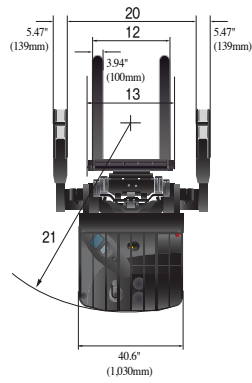
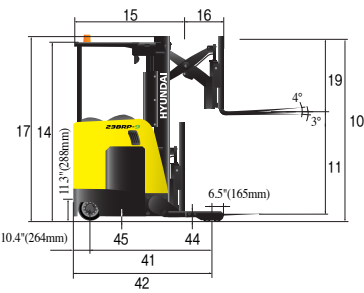


Technical Data for 15/18/20/23BRP-9

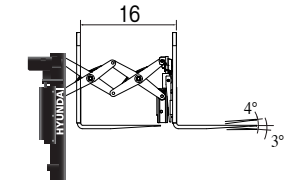
General Information							
1	Manufacturer			HYUNDAI	HYUNDAI	HYUNDAI	HYUNDAI
2	Model	Manufacturer's Designation		15BRP-9	18BRP-9	20BRP-9	23BRP-9
3	Load Capacity * (1)	Max.	lb(kg)	1,361(3,000)	1,588(3,500)	1,814(4,000)	2,041(4,500)
4	Load Center	Fork Face to Load CG	in(mm)	24(610)	24(610)	24(610)	24(610)
5	Power Unit	Type	Volt	36	36	36	36
9	Operator Type	Stand, Double/Single Reach		Stand,D/ Reach			
7	Tire Type	Load/Drive / Caster		Poly. / Poly. / Poly.			
8	Wheels (x=driven)	Number, Load/Drive / Caster		4 / 1 x / 2	4 / 1 x / 2	4 / 1 x / 2	4 / 1 x / 2
Basic Dimensions							
10	Lift Height	See Chart	in(mm)	210(5,335)	210(5,335)	210(5,335)	210(5,335)
11	Free Lift Height	See Chart	in(mm)	47(1,196)	47(1,196)	47(1,196)	47(1,196)
12	Overall Fork Width	Min. ~ Max.	in(mm)	13~30(330~760)	13~30(330~760)	13~30(330~760)	13~30(330~760)
	Fork Dimensions	TxWxL	in(mm)	1.57x4(40x100x1050)		1.75x4(45x100x1050)	
13	Carriage Width	in standard	in(mm)	33.7(856)	94.5(2,400)	94.5(2,400)	94.5(2,400)
14	Overhead Guard Height	Length	in(mm)	94.5(2,400)	1,050	1,050	1,050
15	Length to Fork Face * (3)	Battery Compartment * Type A*	in(mm)	59.2(1,504)	51.9(1,318) *(4)	N/A	N/A
		Battery Compartment * Type B*	in(mm)	61.2(1,555)	53.9(1,369)	53.9(1,369) *(4)	53.9(1,369)
		Battery Compartment * Type C*	in(mm)	63.0(1,599)*(4)	N/A	55.6(1,413)	55.6(1,413) *(4)
		Battery Compartment * Type D*	in(mm)	65.7(1,669)	N/A	N/A	58.4(1,483)
16	Reach (Pantograph)	Stroke	in(mm)	42.8(1,087)	23.3(592)	23.3(592)	23.3(592)
17	Overall Height * (2)	Lowered, See Chart	in(mm)	95.1(2,415)	95.1(2,415)	95.1(2,415)	95.1(2,415)
		Lifted, See Chart	in(mm)	258(6,554)	258(6,554)	258(6,554)	258(6,554)
19	Load Backrest Height		in(mm)	48(1,219)	48(1,219)	48(1,219)	48(1,219)
20	Outrigger ID	in 2" increments(34"~50")	in(mm)	42(1,067)	42(1,067)	42(1,067)	42(1,067)
21	Turning Radius	Battery Compartment * Type A*	in(mm)	70.8(1,799)	66.5(1,690) *(4)	N/A	N/A
		Battery Compartment * Type B*	in(mm)	72.8(1,849)	68.5(1,740)	68.5(1,740)*(4)	71.3(1,810)
		Battery Compartment * Type C*	in(mm)	74.5(1,892)*(4)	N/A	70.2(1,783)	73.0(1,853) *(4)
		Battery Compartment * Type D*	in(mm)	77.2(1,961)	N/A	N/A	75.7(1,922)
22	Battery Compartment * (4)	Length	in(mm)	18.0(457)	14.3(362)	16.3(413)	18.0(457)
Performance							
24	Travel Speed	loaded/unloaded	mph(kph)	7.3(11.8) / 7.3(11.8)		7.3(11.8) / 7.3(11.8)	
26	Lift Speed	loaded/unloaded	fpm(m/s)	63(0.32)/89(0.45)		57(0.29)/57(0.46)	
28	Lowering Speed	loaded/unloaded	fpm(m/s)	98(0.50) / 89(0.45)		98(0.50) / 89(0.45)	
Weights							
34	Service weight	Including battery, standard	lb(kg)	8,781(3,983)	7,408(3,360)	7,727(3,505)	8,600(3,901)
35	Axle loading	loaded front	lb(kg)	7,143(3,240)	7,031(3,189)	7,762(3,521)	8,576(3,890)
		loaded rear	lb(kg)	4,639(2,104)	3,878(1,759)	3,964(1,798)	4,524(2,052)
		unloaded front	lb(kg)	3,512(1,593)	2,879(1,306)	3,045(1,381)	3,406(1,545)
		unloaded rear	lb(kg)	5,269(2,390)	4,528(2,054)	4,683(2,124)	5,194(2,356)
Chassis							
40	Wheel Size	Front, Load Wheels	in(mm)	ø5x4(ø127x101)		ø5x4(ø127x101)	
		Rear, Drive Wheel(Steer)	in(mm)	ø13.5x5.5(ø345x140)		ø13.5x5.5(ø345x140)	
		Rear, Caster Wheel	in(mm)	ø7x2.87(ø178x73)		ø7x2.87(ø178x73)	
41	Wheelbase	Battery Compartment * Type A*	in(mm)	59.4(1,510)	55.1(1,399)*(4)	N/A	N/A
		Battery Compartment * Type B*	in(mm)	61.5(1,561)	57.1(1,450)	57.1(1,450)*(4)	59.9(1,521)
		Battery Compartment * Type C*	in(mm)	63.2(1,605)*(4)	N/A	58.8(1,494)	61.6(1,565)*(4)
		Battery Compartment * Type D*	in(mm)	65.9(1,675)	N/A	N/A	64.4(1,635)
42	Overall Length	in standard battery compartment	in(mm)	104.3(2,649)	93.2(2,368)	95.2(2,419)	97.0(2,463)
44	Ground Clearance	With 5" diameter load wheels	in(mm)	2.0(51)	2.0(51)	2.0(51)	2.0(51)
45	Battery Roller Height	With 5" diameter load wheels		6.5(165)	6.5(165)	6.5(165)	6.5(165)
46	Service Brake	Type		Electric Disc Brake			
47	Parking Brake	Type		Automatic Electric release			
	Steering	Type		Electric Steering			
Electric							
48	Battery	Type		Lead Acid			
		Max. Amp -standard	Ah	1,085	775	930	1,085
		Min. Weight -standard	lb(kg)	2,280(1,034)	1,598(725)	1,878(852)	2,280(1,034)
49	Motors, Controls	Drive Motor, 60 Min Rating	kw	6.8	6.8	6.8	6.8
		Hydraulic Motor, 15% Rating	kw	16.0	16.0	16.0	16.0
		Drive& Hydraulic Motor control Type		AC	AC	AC	AC

\*(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 5,335mm)  
\*(4) Standard battery compartment (type A : 18BRP-9, type B: 20BRP-9, type C: 15/23BRP-9)



•18/20/23BRP-9



•15BRP-9

# 15/18/20/23BRP-9

Electric Reach Trucks

MOVING YOU FURTHER

## HYUNDAI MATERIAL HANDLING



Head Office (Sales office)

First tower, 55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

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2018. 08 Rev. 4





# 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 indicator (optional)
- Camera(optional)
- Height indicator (optional)



■ Some of the photos may include optional equipment.

# Superior Power & Optimal Performance

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

■ Some of the photos may include optional equipment.



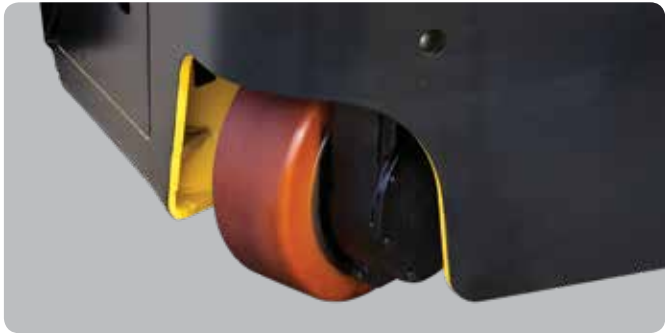
### Minimum Turning Radius

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.



### 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.

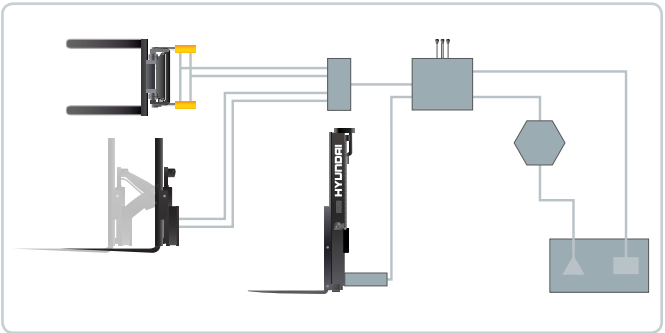


### High Technology ZAPI Controller

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

### Energy Efficiency

H(High) mode : 100%  
N(Normal) mode : 110%  
E(Economic) mode : 120%



### 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

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 (MAX)	Gradeability (MAX)	
		unloaded	loaded
15BRP-9	11.8 Km/h	22%	13%
18BRP-9	11.8 Km/h	15%	13%
20BRP-9	11.8 Km/h	15%	12%
23BRP-9	11.8 Km/h	20%	11%



# Optimised Ergonomics & Advanced Safety

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

15/18/20/23BRP-9



■Some of the photos may include optional equipment.



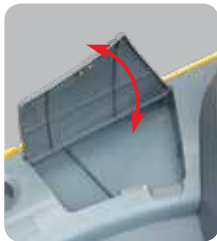
Steering Control

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.



Ergonomic 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

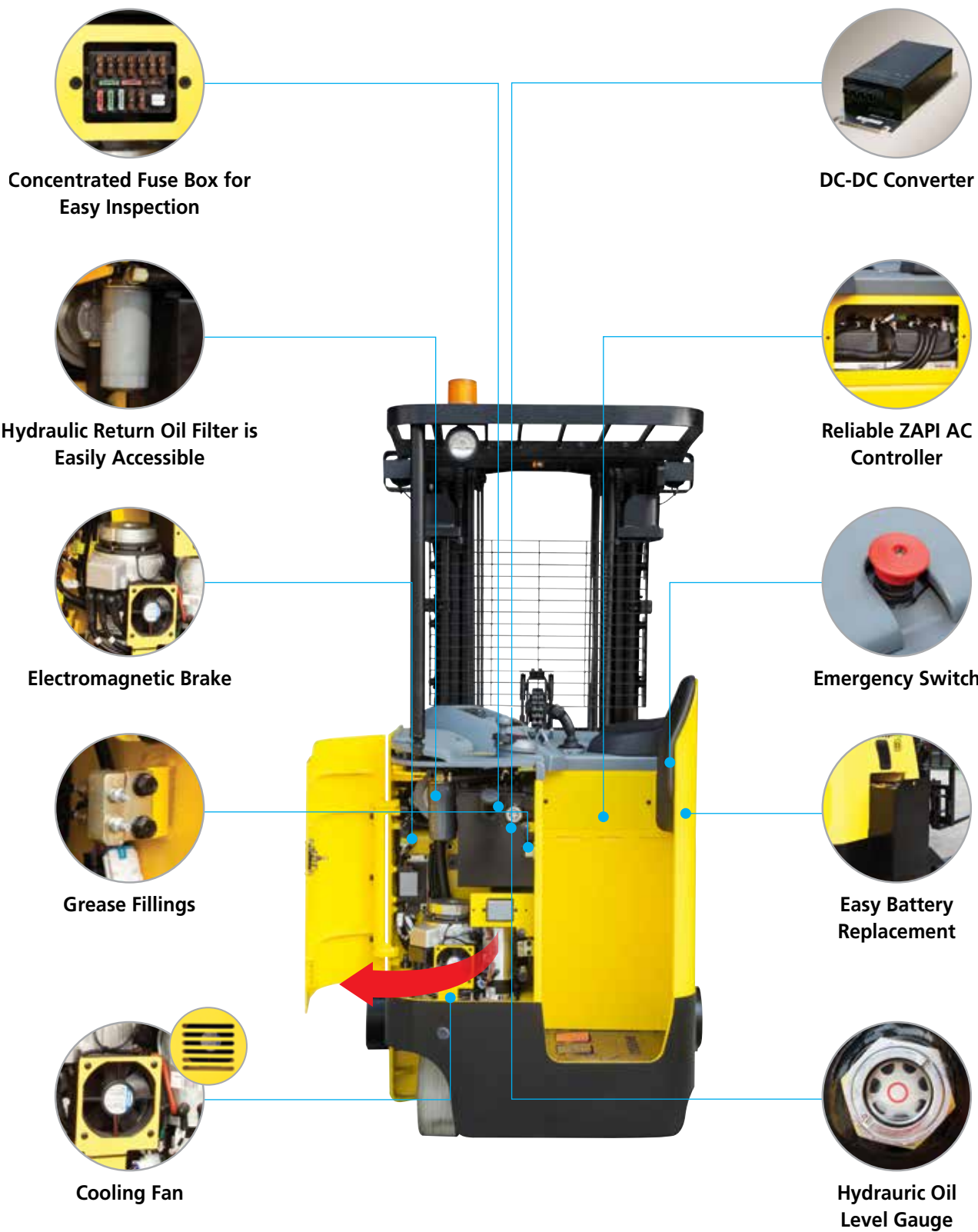
Protection fence installed between mast and operator room for safety.  
\*Tempered Glass Fence(Optional)



Camera & LCD monitor (optional)

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

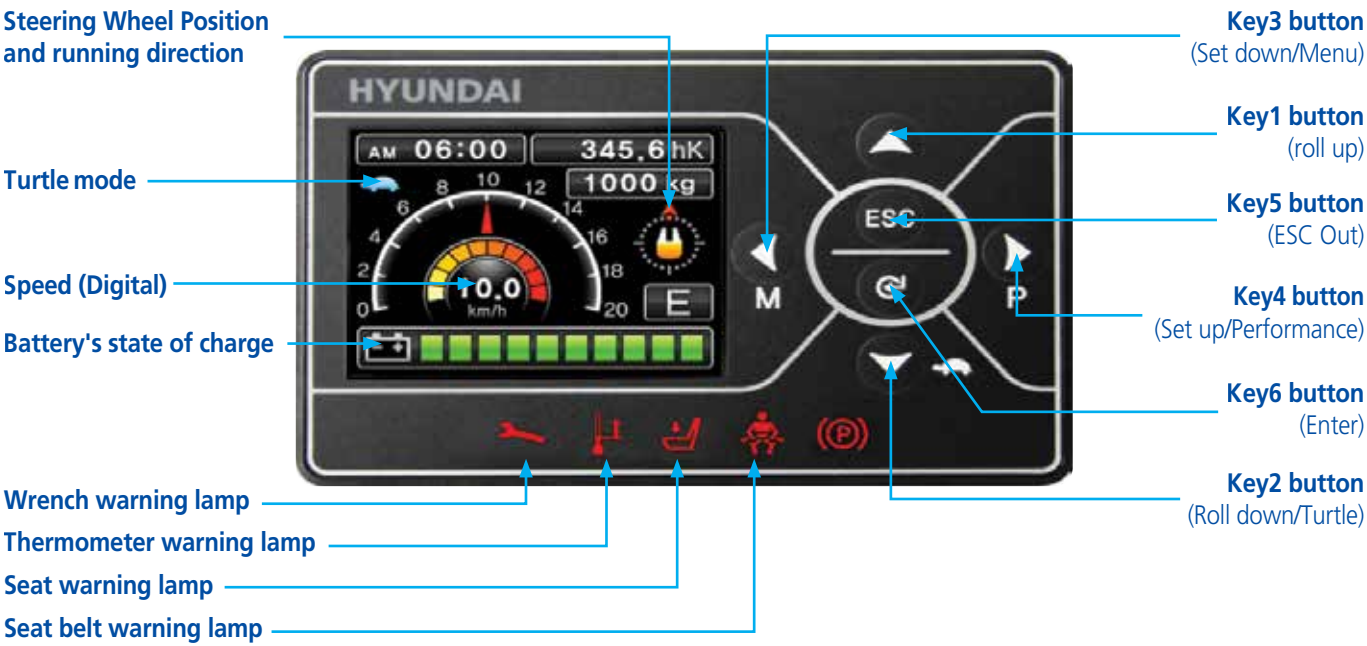
# Durability, Easy Maintenance



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

**15/18/20/23BRP-9**

## Advanced LCD Monitor



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

The optional 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 indicator displays the height of fork in the monitor.

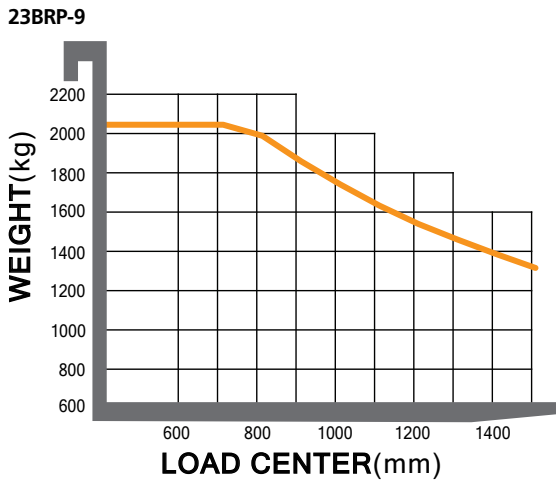
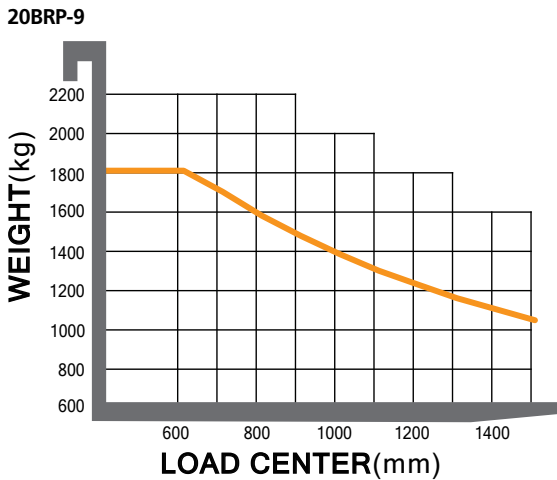
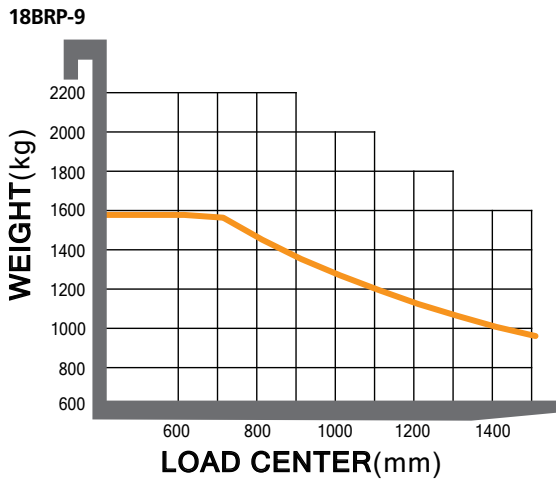
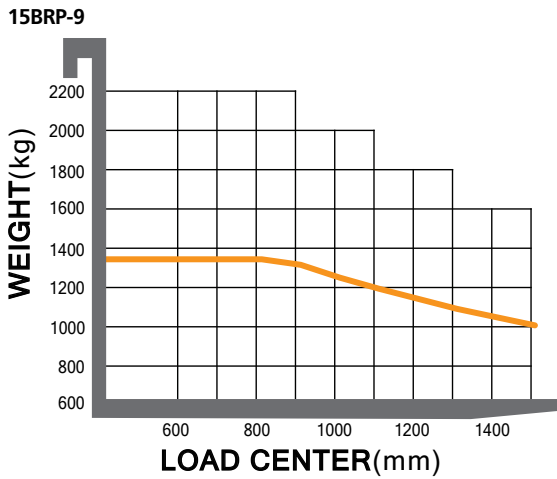


# New 9 Series

15/18/20/23BRP-9

## Load Capacity

MODEL	MAST	BATTERY TYPE	OUTTRIGGER-I.D
15BRP-9	TF530	C	1066mm (42in)
18BRP-9	TF530	A	1066mm (42in)
20BRP-9	TF530	B	1066mm (42in)
23BRP-9	TF530	C	1066mm (42in)



## Optional Items

### Outrigger I.D (mm)

- 864, 914, 965, 1016, 1118, 1168, 1219, 1270

### Integral Sideshift

- Max. 120mm

### UL

- UL" EE"

### Beacon Lamp

- Amber, Blue, Red

### Rear Work Lamp

### Fork Length (mm)

- 15/18BRP: 900, 950, 1000, 1150, 1200, 1350, 1500, 1600

- 20/23BRP: 900, 1000, 1200, 1350, 1500, 1650, 1800

### 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)

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Overall Height (Lifted) (With Backrest)	Free Lift Height (With Backrest)	Over Headguard Height	Min. Outrigger -I.D	Truck Weight - w/o Battery							
								"A" Type B.C 14.5" (362mm)		"B" Type B.C 16.5" (413mm)		"C" Type B.C 18.3" (457mm)		"D" Type B.C 21.1" (527mm)	
								15BRP-9	23BRP-9	15BRP-9	23BRP-9	*15BRP-9	*23BRP-9	15BRP-9	23BRP-9
								mm	mm	mm	mm	mm	mm	kg	kg
3-Stage Full Free Lift	TF500	5,011	2,260	6,230	1,041	2,240	864	2,870	-	2,888	2,805	2,902	2,820	2,925	2,843
	*TF530	5,335	2,415	6,554	1,196	2,395	864	2,918	-	2,935	2,853	2,949	2,867	2,972	2,890
	TF610	6,095	2,720	7,314	1,501	2,395	864	3,077	-	3,095	3,012	3,109	3,027	3,132	3,050
	TF685	6,859	3,025	8,078	1,806	2,395	864	-	-	3,186	3,104	3,201	3,119	3,224	3,142
	TF760	7,621	3,325	8,840	2,106	2,395	864	-	-	3,278	3,196	3,293	3,210	3,316	3,233
	TF815	8,155	3,555	9,374	2,336	2,395	864	-	-	3,350	3,267	3,364	3,282	3,387	3,305
	TF865	8,661	3,785	9,880	2,566	2,395	1,016	-	-	-	-	3,443	3,360	3,466	3,383
	TF930	9,301	4,065	10,520	2,846	2,395	1,067	-	-	-	-	-	-	3,551	3,469
	TF1010	10,161	4,370	11,380	3,151	2,395	1,118	-	-	-	-	-	-	3,662	3,580

\* STANDARD

## Mast Specification (18/20BRP-9)

Mast Type			Maximum Fork Height		Overall Height (Lowered)		Overall Height (Lifted) (With Backrest)		Free Lift Height (With Backrest)		Over Headguard Height		Min. Outrigger -I.D		Truck Weight - w/o Battery					
															"A" Type B.C 14.5" (362mm)		"B" Type B.C 16.5" (413mm)		"C" Type B.C 18.3" (457mm)	
															18BRP-9	20BRP-9	18BRP-9	20BRP-9	18BRP-9	20BRP-9
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg	kg	kg	
3-Stage Full Free Lift	*TF500	5,011	5,011	2,260	2,260	6,230	6,230	1,041	1,041	2,240	2,240	864	864	2,597	-	2,615	2,615	-	2,629	
	TF530	5,335	5,335	2,415	2,415	6,554	6,554	1,196	1,196	2,395	2,395	864	864	2,635	-	2,653	2,653	-	2,667	
	TF610	6,095	6,095	2,720	2,720	7,314	7,314	1,501	1,501	2,395	2,395	864	864	2,776	-	2,793	2,793	-	2,807	
	TF685	6,859	6,859	3,025	3,025	8,078	8,078	1,806	1,806	2,395	2,395	864	864	-	-	2,882	2,882	-	2,896	
	TF760	-	7,621	-	3,325	-	8,840	-	2,106	-	2,395	-	864	-	-	-	-	-	2,970	
	TF815	-	8,155	-	3,555	-	9,374	-	2,336	-	2,395	-	864	-	-	-	-	-	3,027	

\* STANDARD

## Battery Table

Battery Type	Battery Compartment Size (Length)	Battery Voltage	Max. Capacity (6 Hour Rate)	Battery Dimensions						Battery Weight	
				Width (W)		Length (L)		Height (H)		Min. Weight	
				in	mm	in	mm	in	mm	lb	kg
Type A	14.3	362	36	775	38.4	975	14.0	355	31.0	787	725
Type B	16.3	413	36	930	38.4	975	16.0	406	31.0	787	1878
Type C	18.0	457	36	1085	38.4	975	17.7	450	31.0	787	2280
Type D	20.7	527	36	1240	38.4	975	20.5	520	31.0	787	2601

## Load Tire Option Table

Mast Type	15BRP-9		18BRP-9		20BRP-9		23BRP-9	
	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)
TF500	●	-	●	●	●	●	●	●
TF530	●	-	●	●	●	●	●	●
TF610	●	-	●	●	●	●	●	●
TF685	●	-	●	●	●	●	●	●
TF760	●	-	-	-	●	-	●	●
TF815	●	-	-	-	●	-	●	●
TF865	●	-	-	-	-	-	●	-
TF930	●	-	-	-	-	-	●	-
TF1010	●	-	-	-	-	-	●	-

## Right Angle Aisle Stacking - Zero Clearance

362 Battery Compartment and 1,067 Outrigger I.D						362 Battery Compartment and 1,067 Outrigger I.D						413 Battery Compartment and 1,067 Outrigger I.D					
15BRP-9						18/20BRP-9						23BRP-9					
Pallet Width (mm)						Pallet Width (mm)						Pallet Width (mm)					
Pallet Length (mm)						Pallet Length (mm)						Pallet Length (mm)					
	914	2,333	2,326	2,317	2,307		914	2,137	2,129	2,117	2,106		914	2,217	2,208	2,196	2,171
	1,016	2,447	2,441	2,434	2,426		1,016	2,255	2,248	2,239	2,230		1,016	2,337	2,330	2,321	2,302
	1,118	2,558	2,553	2,546	2,539		1,118	2,368	2,363	2,355	2,348		1,118	2,452	2,446	2,438	2,422
	1,219	2,665	2,661	2,655	2,649		1,219	2,477	2,472	2,466	2,460		1,219	2,561	2,556	2,550	2,536

· Add 51mm for 413mm Battery Compartment  
· Add 89mm for 457mm Battery Compartment  
· Add 152mm for 527mm Battery Compartment

· Add 51mm for 413mm Battery Compartment  
· Add 89mm for 457mm Battery Compartment

· Add 51mm for 457mm Battery Compartment  
· Add 102mm for 527mm Battery Compartment