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

eneral Information							T			15/18/2
1 Manufacturer			HYUNDAI	HYUNDAI	HYUNDAI	HYUNDAI			1	
2 Model	Manufacturer's Designation		15BRP-9	18BRP-9	20BRP-9	23BRP-9			19	
3 Load Capacity * (1)	Max.	lb(kg)	1,361(3,000)	1,588(3,500)	1,814(4,000)	2,041(4,500)				Electric Reach Trucks
4 Load Center	Fork Face to Load CG	in(mm)	24(610)	24(610)	24(610)	24(610)	17 14 🚊	230RP-2	- 3-	0
Power Unit	Туре	Volt	36	36	36	36	288ir		11	
Operator Type	Stand, Double/Single Reach	VOIC	50		D/ Reach	50	13"((5005)	
Tire Type	Load/Drive / Caster				oly. / Poly.		ĪĪ		6.5"(165mm)	
			4/1./2	-		4/1./2	10.4"(264mm)	45 44		
Wheels (x=driven)	Number, Load/Drive / Caster		4/1×/2	4 / 1× / 2	4/1×/2	4 / 1× / 2	10.4 (204mm)	43 44	-	HYUNDAI HEAVY INDUST
ic Dimensions								42	-1	
0 Lift Height	See Chart	in(mm)	210(5,335)	210(5,335)	210(5,335)	210(5,335)		72		
1 Free Lift Height	See Chart	in(mm)	47(1,196)	47(1,196)	47(1,196)	47(1,196)				
2 Overall Fork Width	Min. ~ Max.	in(mm)	13~30(330~760)	13~30(330~760)	13~30(330~760)	13~30(330~760)		00		
Fork Dimensions	T×W×L	in(mm)	1.57×4(40	x100x1050)	1.75×4(45	x100x1050)	5.47"	12	5.47"	
3 Carriage Width	in standard	in(mm)	33.7(856)	94.5(2,400)	94.5(2,400)	94.5(2,400)	(139mm)		(139mm)	
4 Overhead Guard Height	Length	in(mm)	94.5(2,400)	1,050	1,050	1,050		3.94" (100mm)		
5 Length to Fork Face * (3)	Battery Compartment " Type A"	in(mm)	59.2(1,504)	51.9(1,318) *(4)	N/A	N/A		13		
	Battery Compartment " Type B"	in(mm)	61.2(1,555)	53.9(1,369)	53.9(1,369) *(4)	53.9(1,369)			4	
	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)				
Reach (Pantograph)	Stroke	in(mm)		23.3(592)	23.3(592)	23.3(592)	- K			
V Overall Height * (2)			42.8(1,087)							
	Lowered, See Chart	in(mm)	95.1(2,415)	95.1(2,415)	95.1(2,415)	95.1(2,415)	21 /			
+	Lifted, See Chart	in(mm)	258(6,554)	258(6,554)	258(6,554)	258(6,554)				
Load Backrest Height		in(mm)	48(1,219)	48(1,219)	48(1,219)	48(1,219)	\checkmark	4. C		
0 Outrigger ID	in 2" increments(34"~50")	in(mm)	42(1,067)	42(1,067)	42(1,067)	42(1,067)				
Turning Radius	Battery Compartment " Type A"	in(mm)	70.8(1,799)	66.5 *(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)		40.6"		
	Battery Compartment " Type C"	in(mm)	74.5(1,892)*(4)	N/A	70.2(1,783)	73.0(1,853) *(4)		(1,030mm)		
	Battery Compartment " Type D "	in(mm)	77.2(1,961)	N/A	N/A	75.7(1,922)				
2 Battery Compartment * (4	4) Length	in(mm)	18.0(457)	14.3(362)	16.3(413)	18.0(457)				
rformance								16_		
4 Travel Speed	loaded/unloaded	mph(kph)	7.3(11.8)	/ 7.3(11.8)	7.3(11.8)	/ 7.3(11.8)		h h		
6 Lift Speed	loaded/unloaded	fpm(m/s)		61(0.31)/89(0.45)						
B Lowering Speed	loaded/unloaded	fpm(m/s)		/ 89(0.45)		/ 89(0.45)	•			
eights		1					- OND	4°,) 1.	
Service weight	Including battery, standard	lb(kg)	8,781(3,983)	7,408(3,360)	7,727(3,505)	8,600(3,901)	È	r way	₩ _{3°}	
5 Axle loading	loaded front	lb(kg)	7,143(3,240)	7,031(3,189)	7,762(3,503)	8,576(3,890)			-	
	loaded rear									
		lb(kg)	4,639(2,104)	3,878(1,759)	3,964(1,798)	4,524(2,052)		•18/20/23BRP	P-9	
	unloaded front	lb(kg)	3,512(1,593)	2,879(1,306)	3,045(1,381)	3,406(1,545)			-	
<u> </u>	unloaded rear	lb(kg)	5,269(2,390)	4,528(2,054)	4,683(2,124)	5,194(2,356)				
assis			1		1			16		
Wheel Size	Front, Load Wheels	in(mm)		127×101)		127×101)		d d		
	Rear, Drive Wheel(Steer)	in(mm)		(ø345×140)		(ø345×140)				
	Rear, Caster Wheel	in(mm)	ø7×2.87	(ø178×73)	ø7×2.87((ø178×73)	r at			
I Wheelbase	Battery Compartment " Type A"	in(mm)	59.4(1,510)	55.1(1,399)*(4)	N/A	N/A	IND		4°	
	Battery Compartment " Type B"	in(mm)	61.5(1,561)	57.1(1,450)	57.1(1,450)*(4)	59.9(1,521)	H	ų L nų		
	Battery Compartment " Type C"	in(mm)	63.2(1,605)*(4)	N/A	58.8(1,494)	61.6(1,565)*(4)			5	
	Battery Compartment " Type D "	in(mm)	65.9(1,675)	N/A	N/A	64.4(1,635)				
2 Overall Length	in standard battery compartment	in(mm)	80.1(2,034)	72.0(1,828)	74.0(1,879)	78.5(1,994)		•15BRP-9		
4 Ground Clearance	With 5" diameter load wheels	in(mm)	2.0(51)	2.0(51)	2.0(51)	2.0(51)		13011-5		
	With 5" diameter load wheels		6.5(165)	6.5(165)	6.5(165)	6.5(165)				
Battery Koller Height	Type				Disc Brake					
	Туре				lectric release					
5 Service Brake										
5 Service Brake 7 Parking Brake	Tuno			Electric	Steering					
6 Service Brake 7 Parking Brake Steering	Туре									
ectric			1							
6 Service Brake 7 Parking Brake Steering	Туре			1	l Acid	1				
6 Service Brake 7 Parking Brake Steering cetric	Type Max. Amp -standard	Ah		775	930	1,085				
6 Service Brake 7 Parking Brake Steering cetric	Туре	Ah Ib(kg)	1,085 2,280(1,034)	1	1	1,085 2,280(1,034)				
6 Service Brake 7 Parking Brake Steering cetric	Type Max. Amp -standard			775	930					
6 Service Brake 7 Parking Brake Steering ectric 8 Battery	Type Max. Amp -standard Min. Weight -standard	lb(kg)	2,280(1,034)	775 1,598(725)	930 1,878(852)	2,280(1,034)				

*(3) Add 65mm with option side shift

*(1) Contact factory. Capacity may be subject to derating at height. (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)



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





Superior Power & **Optimal Performance**

Smooth running, efficient and ergonomically designed, **15/18/20/23BRP-9** 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.

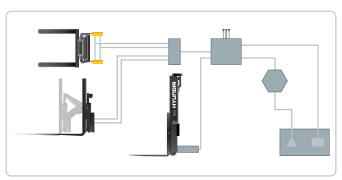


Energy Efficiency H(High) mode : 100% N(Normal) mode : 110% E(Economic) mode : 120%

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.





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.

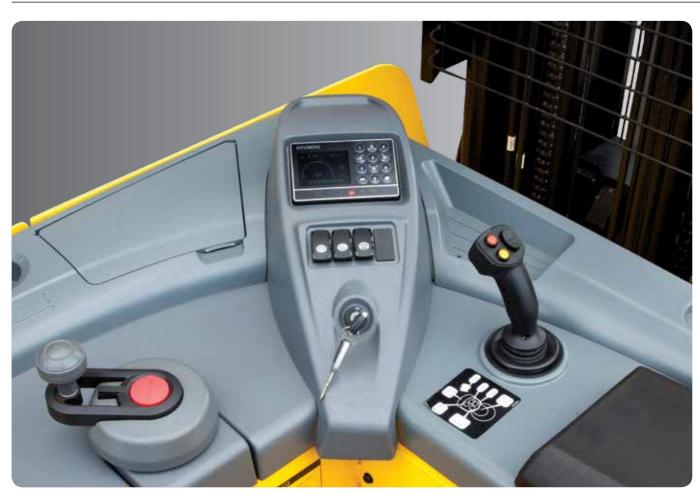
Excellent Gradeability Operation & Anti Roll Back

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	Gradeability (MAX)						
(MAX)	unloaded	loaded					
11.8 Km/h	22%	13%					
11.8 Km/h	15%	13%					
11.8 Km/h	15%	12%					
11.8 Km/h	20%	11%					
	(MAX) 11.8 Km/h 11.8 Km/h 11.8 Km/h	(MAX) unloaded 11.8 Km/h 22% 11.8 Km/h 15% 11.8 Km/h 15%					

Optimised Ergonomics & Advanced Safety

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



Some of the photos may include optional equipment.



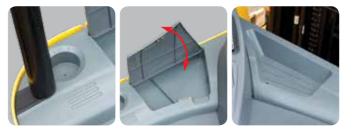
Steering Control

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.





Adjustable Backrest

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

A large and soft cushion pad is A heavy, vibration dampening, applied for operator's safety and floor mat reduces operator comfort. fatigue and provides increased productivity.



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





Non Slip Floor Mat



Protection Fence

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

Durability, **Easy Maintenance**

Concentrated Fuse Box for

Easy Inspection

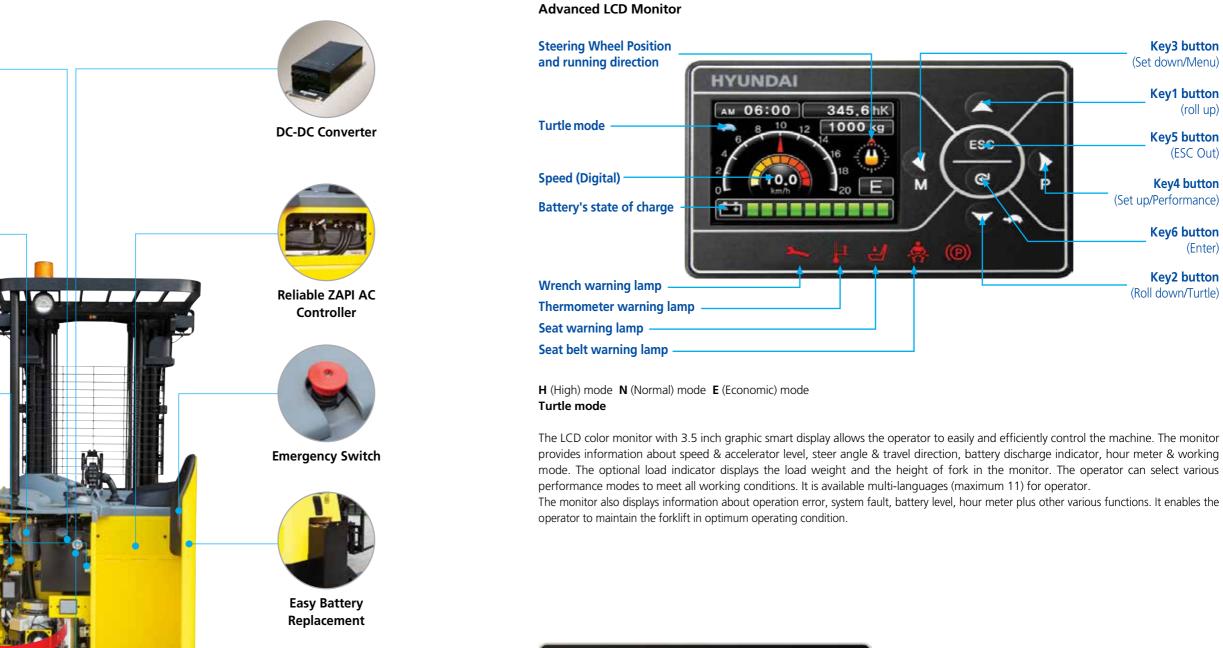
Hydraulic Return Oil Filter is

Easily Accessible

Electromagnetic Brake

Grease Fillings

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



Hydrauric Oil

Level Gauge



Cooling Fan



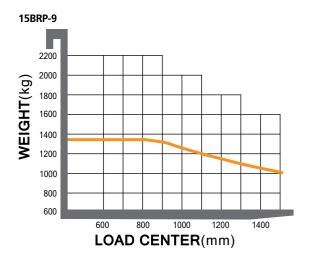
Monitor for load& height indicator (optional)

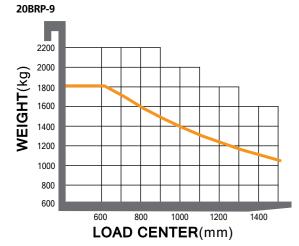
The optional load indicator displays the load weight in the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded. The optional indicator displays the height of fork in the monitor.

New 9 Series

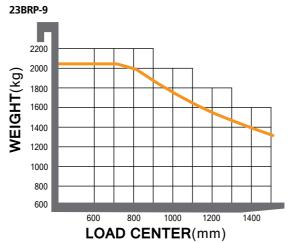
Load Capacity

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

	ast pe	Maximum Fork Height (Lowered)		Overall Height (Lifted) (With Backrest)	Free Lift Height (With Backrest)	Over Headguard Height	Min. Outtrigger -I.D	14	pe B.C	"B" B.C 1	Veight Type 16.5" mm)	"C" B.C 1	Туре	"D" Type B.C 21.1" (527mm)	
		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
		mm	mm	mm	mm	mm	mm	kg	kg	kg	kg	kg	kg	kg	kg
	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
3-Stage	TF685	6,859	3,025	8,078	1,806	2,395	864	-	-	3,186	3,104	3,201	3,119	3,224	3,142
Full Free	TF760	7,621	3,325	8,840	2,106	2,395	864	-	-	3,278	3,196	3,293	3,210	3,316	3,233
Lift	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

Mast Specification (18/20BRP-9)

						Overall	Height	Free	Lift	0	Over		Min.		Truck Weight - w/o Battery								
Mast Type		Maximum Fork Height		Overall Height (Lowered)		t (Lifted) (With Backrest)		Height (With Backrest)		Headguard Height		Outtrigger -I.D		"A" Type B.C 14.5" (362mm)		"B" Type B.C 16.5" (413mm)		B.C 1	Type 18.3" 'mm)				
		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				
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg	kg	kg				
	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				
2 6+242	*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				
3-Stage Full Free	11610	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				
Lift	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				
LITT	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 Compartment		Batterv	Max. Capacity	Battery Dimensions					1	tery ight	Mast	15BRP-9 ø5x4" ø10.5x4"		18BRP-9						
Battery Type		ze	Voltage	• •	'I I		gth	h Height (H)		Min. Weight		Туре	(ø127x 101mm)	(ø267x 101mm)	(ø127x 101mm)	(ø267x 101mm)	(ø127x 101mm)	(ø267x 101mm)	(ø127x 101mm)	(ø267x 101mm)	
туре	(Len	gth)		Rate)			(L)					TF500	•	-	•	•	•	•	•	•	
	in	mm	Volt	Ah	in	mm	in	mm	in	mm	lb	kg	TF530	•	-	•	•	•	•	•	•
Type A	14.3	362	36	775	38.4	975	14.0	355	31.0	787	1598		TF610	•	-	•	•	•	•	•	•
Туре В	16.3	413	36	930	38.4	975	16.0	406	31.0	787	1878	852	TF685	•	-	•	•	•	•	•	•
Type C	18.0	457	36	1085	38.4	975	17.7	450	31.0	787	2280		TF760	•	-	-	-	•	-	•	•
Type D	20.7	527	36	1240	38.4	975	20.5		31.0		2601		TF815	•	-	-	-	•	-	•	•
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2017	527	50	1210	50.1	575	20.5	520	5110	707	2001	1100	TF865	•	-	-	-	-	-	•	-
													TF930	•	-	-	-	-	-	•	-
Dialat	_						Cla						TF1010	•	-	-	-	-	-	•	-

Right Angle Aisle Stacking - Zero Clearance

362 Bat	362 Battery Compartment and 1,067 Outrigger I.D								362 Battery Compartment and 1,067 Outrigger I.D 4								413 Battery Compartment and 1,067 Outrigger I.D							
		1	5BRP-9	9					18	/20BRP	-9		23BRP-9											
		Pa	llet Wi	dth (m	m)				Ра	llet Wi	dth (m	m)				Pa	allet Wi	dth (m	m)					
Dallat		838	914	1,016	1,118	1,219	Dellat		838	914	1,016	1,118	1,219	Pallet		838	914	1,016	1,118	1,219				
Pallet	914	2,333	2,326	2,317	2,307	2,298	Pallet	914	2,137	2,129	2,117	2,106	2,094		914	2,217	2,208	2,196	2,196	2,171				
Length (mm)	1,016	2,447	2,441	2,434	2,426	2,418	Length (mm)	1,016	2,255	2,248	2,239	2,230	2,221	Length (mm)	1,016	2,337	2,330	2,321	2,321	2,302				
(1111)	1,118	2,558	2,553	2,546	2,539	2,533	(1111)	1,118	2,368	2,363	2,355	2,348	2,340		1,118	2,452	2,446	2,438	2,438	2,422				
	1,219	2,665	2,661	2,655	2,649	2,643		1,219	2,477	2,472	2,466	2,460	2,453		1,219	2,561	2,556	2,550	2,550	2,536				

 Add 51mm for 413mm Battery Compartment
Add 89mm for 457mm Battery Compartment Add152mm for 527mm Battery Compartment

Add 51mm for 413mm Battery Compartment · Add 89mm for 457mm Battery Compartment 15/18/20/23BRP-9

* STANDARD

Load Tire Option Table

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