

**HYUNDAI**  
MATERIAL HANDLING



# 15BRP-X

3,000 lbs. capacity  
Electric Double Deep Reach Truck

# 18/20/23BRP-X

3,500/4,000/4,500 lbs. capacities  
Electric Single Deep Reach Truck





# NEXT-GENERATION PANTOGRAPH REACH TRUCK WITH PERFORMANCE COMPARABLE TO INDUSTRY LEADERS



## SUPERIOR POWER & OPTIMAL PERFORMANCE

Enhanced travel and lift speed along with advanced mast stability.



## ENHANCED DRIVER COMFORT & STABILITY

Easy entry and greater operator foot room, with increased floorboard cushioning.



## ERGONOMICALLY DESIGNED DASHBOARD

User-friendly control panel. Knee, back, and hip padding increased for operator comfort.



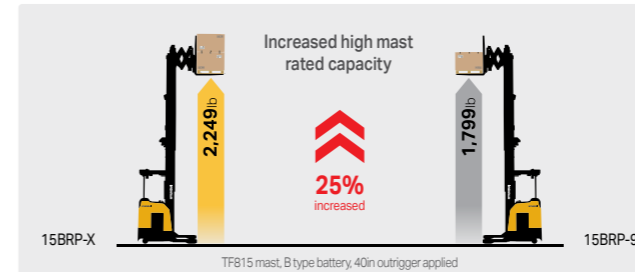
## ADVANCED SAFETY

New overhead guard for a clear view. Battery Side Gate Interlock Sensor.



# SUPERIOR POWER & OPTIMAL PERFORMANCE

Smooth running, efficient and ergonomically designed, 15/18/20/23BRP-X Series is built to meet your needs.



### Advanced Mast Stability

Height and position detection sensors with hydraulic cushions minimize shock during operations while enabling up to 25% increased mast capacity, allowing warehouses to store heavier loads at higher elevations for optimized vertical storage space. In addition, a height indicator sensor reduces shocks at the upper and lower ends of lifting. Hydraulic cushioning and rubber dampers also cut reach/retract shock and lower mast shake and sudden jerks. Altogether, the BRP-X offers smoother lifting and lowering with significantly less vibration.



### Drive Motor & Pump Motor

Upgraded motor, pump, and MCV boost travel and lift speed, reducing cycle times and improving warehouse efficiency.

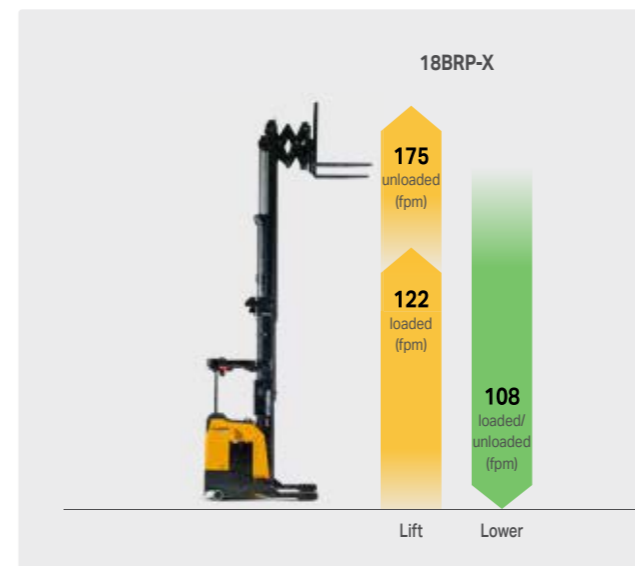


### Lithium Battery Pack (Optional)



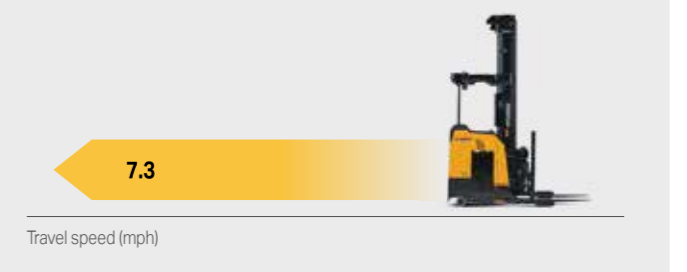
This is ideal for multi-shift work. Virtually maintenance-free, our Li-ion battery delivers 10% greater efficiency for reduced energy consumption and improved machine performance all to lower your infrastructure costs and drive up your profit. The 36V/690Ah high-capacity Lithium battery (LFP) delivers fast charging (0 → 100% in max 2.5 hours) and constant output with improved efficiency through cell heating pads.

### Enhanced Speed



### Improved Travel, Lifting, and Lowering Speed

New BRP-X delivers faster material handling with reduced shock, increasing efficiency while protecting valuable goods. Improved electronic controls extend equipment life and reduce operator strain. This will allow the truck to operate in the most rigorous and demanding distribution centers where the highest KPI's for pallet moves per hour per truck are required.

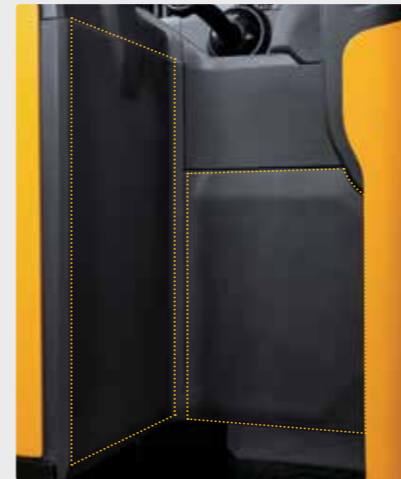


# ENHANCED DRIVER COMFORT & STABILITY

An ergonomically designed operator compartment reduces operator fatigue and boosts efficiency. The spacious compartment combined with intuitive controls delivers superior comfort throughout extended shifts.



## Driver Comfort



### Enhanced Knee and Hip Padding

The generous padding assures maximum comfort over long workdays and also provides added protection in the event of workplace accidents.



### Additional Toe Space & Lower Step Height

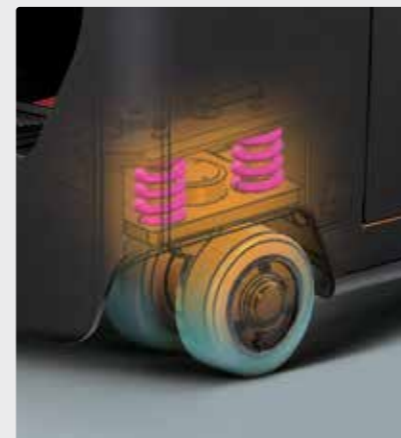
The additional toe space allows operators to naturally position their feet, reducing strain on the legs during long shifts. The step height has been lowered to just 10.6" for ease of entry.



### Comfort & Convenience Throughout

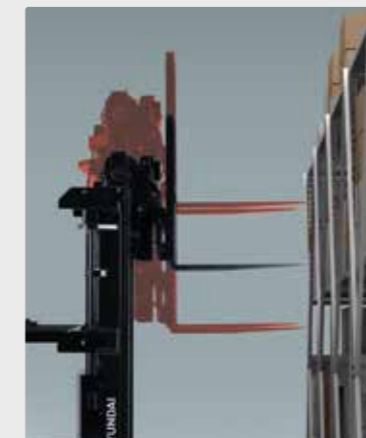
A hand grab makes entering the truck easier and safer, while a large, soft cushioned pad enhances comfort and a storage box makes it easy to keep manuals, booklets and other items onboard.

## Convenient, Simplified Operation



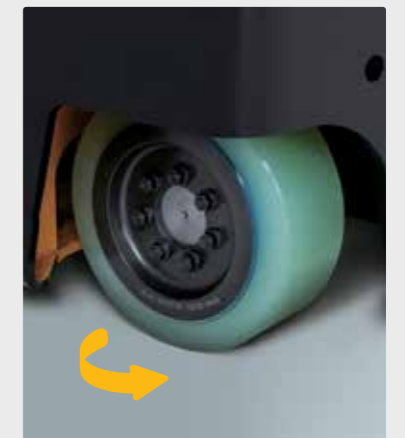
### Driver Impact Reduction

By applying a spring damper to the floorboard and adding a spring on the caster wheel, driver impact is reduced in rough or uneven work environments, providing improved comfort.



### Beam Height Select

There are 20 programmable presets with 10 load beam levels so operators can preselect the putaway and letdown fork positions. This standard feature works through the control handle not the dash.



### Auto Drive Tire Centering

Upon start up, the drive tire automatically centers, ensuring the truck is not starting with the drive tire at an angle, which also contributes to a safer operating environment.

# ERGONOMICALLY DESIGNED DASHBOARD

The newly designed dashboard offers a more ergonomic layout, ensuring easier access to controls and a more intuitive experience.



**Cup Holder**  
The cup holder depth has been increased 3 inches in order to enhance storage stability and usability.

**Paper Clip**  
A dashboard clip has been applied for secure document storage.

**Emergency Switch**  
Cuts the main power to immediately stop the truck in critical situations.

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

**Accessory Switches**  
Convenience switches, including a light switch and a fan switch to provide operator comfort.

**Steering Control**  
The friction-based steering system prevents excessive free movement, requiring less continuous correction and reducing strain on the operator's arms.

## Control Handle

The redesigned control handle enables one-hand control of direction and speed with minimal effort, even during lifting and reaching operations, enhancing productivity while reducing operator fatigue.



Lift / Lowering



Traction Fwd / Rev

## Advanced LCD Monitor

**H (High) Mode / N (Normal) Mode / E (Economic) Mode / Turtle Mode**

The large LCD smart display provides real-time machine data, including speed, steer angle, battery status, and working mode. Operators can monitor load weight, fork height, and overall truck condition.



\* Some of the photos may include optional equipment.

# ADVANCED SAFETY

Experience optimal protection with a reinforced overhead guard, ergonomic backrest, and non-slip floor mat. Improved visibility and safety features ensure precise operation in any working environment.



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



**Protection Screen**  
Protection screen installed between mast and operator room for safety.



**Pedal Malfunction Prevention**  
This feature enhances safety by minimizing accidental movements, ensuring reliable and precise operation.



**Blue Spots & Red Zone (Optional)**  
Blue spotlights project a blue light on the ground to alert nearby workers of the forklift's presence, enhancing safety. Red Zone marks a restricted area around the forklift to prevent accidents and protect both operators and pedestrians.



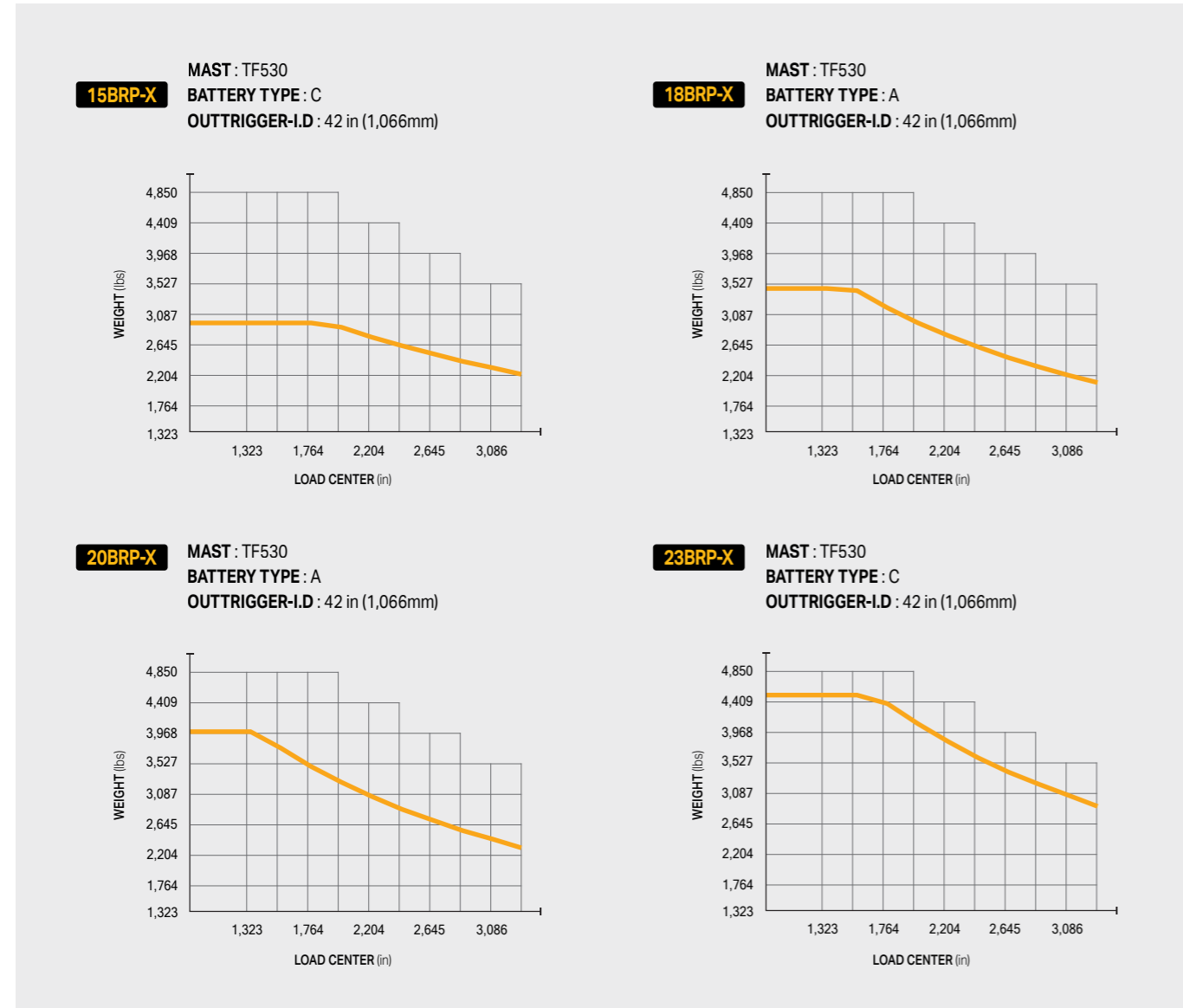
**Anti Roll Back**  
For greater safety, this system prevents the forklift from rolling rapidly down a slope when the control handle & brake pedal are not applied while also offering improved ramp start-up abilities.



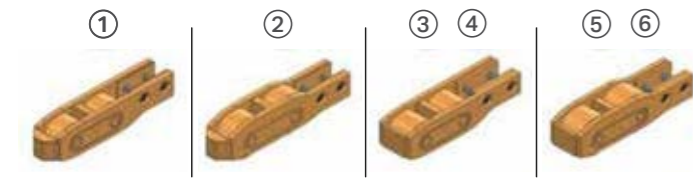
**Battery Side Gate Interlock Sensor**  
The system prevents accidents due to an improperly installed battery side gate. The system prevents travel if the battery side gates are not properly installed. This is a standard feature.

# New X Series

## Load Capacity



## Wheel Box Options



15BRP-X				
No.	Wheel Box Width	Tire Size	Tire Type	Guard
①	4.4"	ø5×2.9	Vulkollan	O
②		ø6×2.9	Vulkollan	O
③	5.6"	ø5×3.9	Urethane	X
④			Vulkollan	X
⑤		ø6×3.9	Urethane	X
⑥			Vulkollan	X

18BRP-X				20BRP-X				23BRP-X				
Wheel Box Width	Tire Size	Tire Type	Guard	Wheel Box Width	Tire Size	Tire Type	Guard	Wheel Box Width	Tire Size	Tire Type	Guard	
4.4	ø5×2.9	Vulkollan	O	4.4	ø5×2.9	Vulkollan	O	4.4	ø5×2.9	Vulkollan	O	
	ø6×2.9	Vulkollan	O		ø6×2.9	Vulkollan	O					
5.6	ø5×3.9	Urethane	X	ø5×3.9	Urethane	X	ø5×3.9	Urethane	X	ø5×3.9	Urethane	X
		Vulkollan	X		Vulkollan	X		Vulkollan	X			
	ø6×3.9	Urethane	X	ø6×3.9	Urethane	X	ø6×3.9	Urethane	X	ø6×3.9	Urethane	X
		Vulkollan	X		Vulkollan	X		Vulkollan	X			
	ø4.3×3.9	Urethane	X	ø4.3×3.9	Urethane	X	ø4.3×3.9	Urethane	X	ø4.3×3.9	Urethane	X
	ø10.5×3.9	Urethane	X	ø10.5×3.9	Urethane	X	ø10.5×3.9	Urethane	X	ø10.5×3.9	Urethane	X
ø10.5×3.9	Vulkollan	X	ø10.5×3.9	Vulkollan	X	ø10.5×3.9	Vulkollan	X	ø10.5×3.9	Vulkollan	X	

## Mast Specifications (15/23BRP-X)

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" (14.3 in 362mm)		"B" Type B.C 16.5" (16.3 in 413mm)		"C" Type B.C 18.3" (18.0 in 457mm)		"D" Type B.C 21.1" (20.7 in 527mm)	
								15/23BRP-X	15/23BRP-X	15/23BRP-X	15/23BRP-X	15/23BRP-X	15/23BRP-X	15BRP-X	23BRP-X
		in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)		
3-Stage Full Free Lift	TF500	197 (5,000)	89 (2,263)	246 (6,239)	41 (1,044)	88 (2,240)	34 (864)	6,735 (3,055)	-	6,777 (3,074)	6,614 (3,000)	6,812 (3,090)	6,649 (3,016)	6,867 (3,115)	6,706 (3,042)
	TF530	209 (5,300)	95 (2,418)	258 (6,563)	47 (1,195)	94 (2,395)	34 (864)	6,848 (3,106)	-	6,887 (3,124)	6,726 (3,051)	6,923 (3,140)	6,762 (3,067)	6,980 (3,166)	6,819 (3,093)
	TF610	240 (6,100)	107 (2,723)	288 (7,323)	59 (1,500)	94 (2,395)	34 (864)	7,203 (3,267)	-	7,242 (3,285)	7,081 (3,212)	7,277 (3,301)	7,117 (3,228)	7,335 (3,327)	7,172 (3,253)
	TF685	270 (6,850)	119 (3,028)	318 (8,087)	71 (1,805)	94 (2,395)	34 (864)	-	-	7,487 (3,396)	7,324 (3,322)	7,522 (3,412)	7,359 (3,338)	7,577 (3,437)	7,416 (3,364)
	TF760	299 (7,600)	131 (3,328)	348 (8,849)	83 (2,105)	94 (2,395)	34 (864)	-	-	7,694 (3,490)	7,533 (3,417)	7,729 (3,506)	7,568 (3,433)	7,787 (3,532)	7,624 (3,458)
	TF815	321 (8,150)	140 (3,558)	369 (9,383)	92 (2,335)	94 (2,395)	34 (864)	-	-	7,859 (3,565)	7,696 (3,491)	7,893 (3,580)	7,732 (3,507)	7,950 (3,606)	7,789 (3,533)
	TF865	341 (8,650)	149 (3,788)	389 (9,889)	101 (2,565)	94 (2,395)	40 (1,016)	-	-	-	-	8,095 (3,672)	7,934 (3,599)	8,153 (3,698)	7,992 (3,625)
	TF930	366 (9,300)	160 (4,068)	415 (10,529)	112 (2,845)	94 (2,395)	42 (1,067)	-	-	-	-	-	-	8,349 (3,787)	8,188 (3,714)
	TF1010	398 (10,100)	172 (4,373)	448 (11,389)	124 (3,150)	94 (2,395)	44 (1,118)	-	-	-	-	-	-	8,563 (3,884)	8,402 (3,811)

## Mast Specifications (18/20BRP-X)

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" 14.5" (362mm)		"B" Type B.C 16.5" 16.5" (413mm)		"C" Type B.C 18.3" 18.3" (457mm)								
								18BRP-X	20BRP-X	18BRP-X	20BRP-X	18BRP-X	20BRP-X	18BRP-X	20BRP-X					
		in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lb (kg)	lb (kg)	lb (kg)	lb (kg)							
3-Stage Full Free Lift	TF500	197 (5,000)	197 (5,000)	89 (2,263)	89 (2,263)	246 (6,240)	246 (6,240)	41 (1,044)	41 (1,044)	88 (2,240)	88 (2,240)	34 (864)	34 (864)	6,279 (2,848)	-	6,321 (2,867)	6,321 (2,867)	-	6,356 (2,883)	
	TF530	209 (5,300)	209 (5,300)	95 (2,418)	95 (2,418)	258 (6,564)	258 (6,564)	47 (1,199)	47 (1,199)	94 (2,395)	94 (2,395)	34 (864)	34 (864)	6,378 (2,893)	-	6,418 (2,911)	6,418 (2,911)	-	6,453 (2,927)	
	TF610	240 (6,100)	240 (6,100)	107 (2,723)	107 (2,723)	288 (7,324)	288 (7,324)	59 (1,504)	59 (1,504)	94 (2,395)	94 (2,395)	34 (864)	34 (864)	6,702 (3,040)	-	6,742 (3,058)	6,742 (3,058)	-	6,777 (3,074)	
	TF685	270 (6,850)	270 (6,850)	119 (3,028)	119 (3,028)	318 (8,088)	318 (8,088)	71 (1,809)	71 (1,809)	94 (2,395)	94 (2,395)	34 (864)	34 (864)	-	-	7,000 (3,175)	7,000 (3,175)	-	7,035 (3,191)	
	TF760	-	299 (7,600)	-	131 (3,328)	-	348 (8,850)	-	83 (2,109)	-	94 (2,395)	-	34 (864)	-	-	-	-	-	-	7,214 (3,272)
	TF815	-	321 (8,150)	-	140 (3,558)	-	369 (9,384)	-	92 (2,339)	-	94 (2,395)	-	34 (864)	-	-	-	-	-	-	7,355 (3,336)

## 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	625	38.4	975	14.0	355	31.0	787	1,633	730
Type B	16.3	413	36	750	38.4	975	16.0	406	31.0	787	1,884	850
Type C	18.0	457	36	875	38.4	975	17.7	450	31.0	787	2,261	1,030
Type D	20.7	525	36	1000	38.4	975	20.5	520	31.0	787	2,569	1,200

## Load Tire Option Table

Mast Type	15BRP-X		18BRP-X		20BRP-X		23BRP-X	
	ø5x2.9" (ø127x 101mm)	ø6x2.9" (ø127x 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

14.3" Battery Compartment and 42" Outrigger I.D						14.3" Battery Compartment and 42" Outrigger I.D						16.3" Battery Compartment and 42" Outrigger I.D						16.3" Battery Compartment and 42" Outrigger I.D									
15BRP-X						18BRP-X						20BRP-X						23BRP-X									
Pallet Length (in)	Pallet Width (in)					Pallet Length (in)	Pallet Width (in)					Pallet Length (in)	Pallet Width (in)					Pallet Length (in)	Pallet Width (in)								
		33	36	40	44		48		33	36	40		44	48		33	36		40	44	48		33	36	40	44	48
	36	93	93	92	92		92	36	85	85	85		84	84	36	87	87		87	86	86	36	87	86	86	85	85
	40	98	97	97	97		96	40	90	90	89		89	89	40	92	92		91	91	91	40	92	91	91	91	91
44	102	102	102	101	101	44	94	94	94	94	93	44	96	96	96	96	95	44	96	96	96	96	95				
48	106	106	106	106	105	48	99	99	98	98	98	48	101	101	100	100	100	48	100	100	100	100	100				

For all trucks and battery compartments, add 6-12" for Ease of Maneuverability

- Add 2" for 16.3" Battery Compartment
- Add 3.5" for 18" Battery Compartment
- Add 6" for 20.7" Battery Compartment
- Add 2" for 16.3" Battery Compartment
- Add 2" for 18.0" Battery Compartment
- Add 1.5" for 18" Battery Compartment
- Add 4.5" for 20.7" Battery Compartment

## Technical Data for 15/18/20/23BRP-X

General Information							
1	Manufacturer		HYUNDAI	HYUNDAI	HYUNDAI	HYUNDAI	
2	Model	Manufacturer's Designation	15BRP-X	18BRP-X	20BRP-X	23BRP-X	
3	Load Capacity *(1)	Max.	lb	3,000	3,500	4,000	4,500
4	Load Center	Fork Face to Load CG	in	24	24	24	24
5	Power Unit	Type	Volt	36	36	36	36
9	Operator Type	Stand, Double/Single Reach		Standing			
7	Tire Type	Load/Drive / Caster		PE			
8	Wheels (x=driven)	Number, Load/Drive / Caster		4 / 1× / 2	4 / 1× / 2	4 / 1× / 2	4 / 1× / 2

Basic Dimensions							
10	Lift Height	See Chart	in	210	210	210	210
11	Free Lift Height	See Chart	in	47	47	47	47
12	Overall Fork Spread	Min. ~ Max.	in	13~30	13~30	13~30	13~30
	Fork Dimensions	T×W×L	in	1.57x4x41.3"		1.75x4x41.3"	
13	Carriage Width	In Standard	in	33.7	33.7	33.7	33.7
14	Overhead Guard Height	Length	in	94.5	94.5	94.5	94.5
15	Length to Fork Face *(3)	Battery Compartment " Type A"	in	59.3	51.8 *(4)	N/A	N/A
		Battery Compartment " Type B"	in	61.3	53.8	53.8 *(4)	53.8
		Battery Compartment " Type C"	in	63.0 *(4)	N/A	55.6	55.6 *(4)
		Battery Compartment " Type D"	in	65.7	N/A	N/A	58.3
16	Reach (Pantograph)	Stroke	in	42.8	23.3	23.3	23.3
17	Overall Height *( 2)	Lowered, See Chart	in	95.1	95.1	95.1	95.1
		Lifted, See Chart	in	258	258	258	258
19	Load Backrest Height		in	48	48	48	48
20	Outrigger ID	In 2" Increments(34"~50")	in	42	42	42	42
21	Turning Radius	Battery Compartment "Type A"	in	70.8	66.5 *(4)	N/A	N/A
		Battery Compartment "Type B"	in	72.8	68.5	68.5 *(4)	71.3
		Battery Compartment "Type C"	in	74.5 *(4)	N/A	70.2	73.0 *(4)
		Battery Compartment "Type D"	in	77.2	N/A	N/A	75.7

Performance							
24	Travel Speed	Loaded / Unloaded	mph	7.3 / 7.3		7.3 / 7.3	
26	Lift Speed	Loaded / Unloaded	fpm	133 / 170	122 / 175	105 / 175	105 / 175
28	Lowering Speed	Loaded / Unloaded	fpm (m/s)	108 / 108		108 / 108	

Weights							
34	Service Weight	Including Battery, Standard	lb	8,446	7,976	8,296	8,605
35	Axle Loading	Loaded Front	lb	6,943	7,253	7,916	8,471
		Loaded Rear	lb	4,503	4,222	4,379	4,633
		Unloaded Front	lb	3,273	3,108	3,207	3,288
		Unloaded Rear	lb	5,173	4,868	5,089	5,316

Chassis							
	Model	Manufacturer's Designation		15BRP-X	18BRP-X	20BRP-X	23BRP-X
40	Wheel Size	Front, Load Wheels	in	ø5×2.9 or ø6×2.9		ø5×4	
		Rear, Drive Wheel (Steer)	in	ø13.5×5.5		ø13.5×5.5	
		Rear, Caster Wheel	in	ø7×2.87		ø7×2.87	
41	Wheelbase	Battery Compartment " Type A"	in	55.6	55.1 *(4)	N/A	N/A
		Battery Compartment " Type B"	in	61.5	55.6	57.6 *(4)	59.9
		Battery Compartment " Type C"	in	63.2 *(4)	N/A	58.8	62.2 *(4)
		Battery Compartment " Type D"	in	65.9	N/A	N/A	64.4
42	Overall Length	In Standard Battery Compartment	in	104.3	93.2	95.2	97.0
44	Ground Clearance	With 5" Diameter Load Wheels	in	2.0	2.0	2.0	2.0
45	Battery Roller Height	With 5" Diameter Load Wheels		6.5	6.5	6.5	6.5
46	Service Brake	Type		Electric Disc Brake			
47	Parking Brake	Type		Automatic Electric Release			
	Steering	Type		Electric Steering			

Electric							
48	Battery	Type		Lead Acid and Li-Ion			
		Max. Amp – Standard	Ah	625	750	875	1,000
		Min. Weight – Standard	lb	2,381	1,720	1,984	2,381
49	Motors, Controls	Drive Motor, 60 Min Rating	hp	9.1	9.1	9.1	9.1
		Hydraulic Motor, 15% Rating	hp	26.8	26.8	26.8	26.8
		Drive & Hydraulic Motor Control Type		AC	AC	AC	AC

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

\*(2) Spec data is based on the standard mast (TF530, maximum fork height 210")

\*(3) Add 2.5" with option side shift

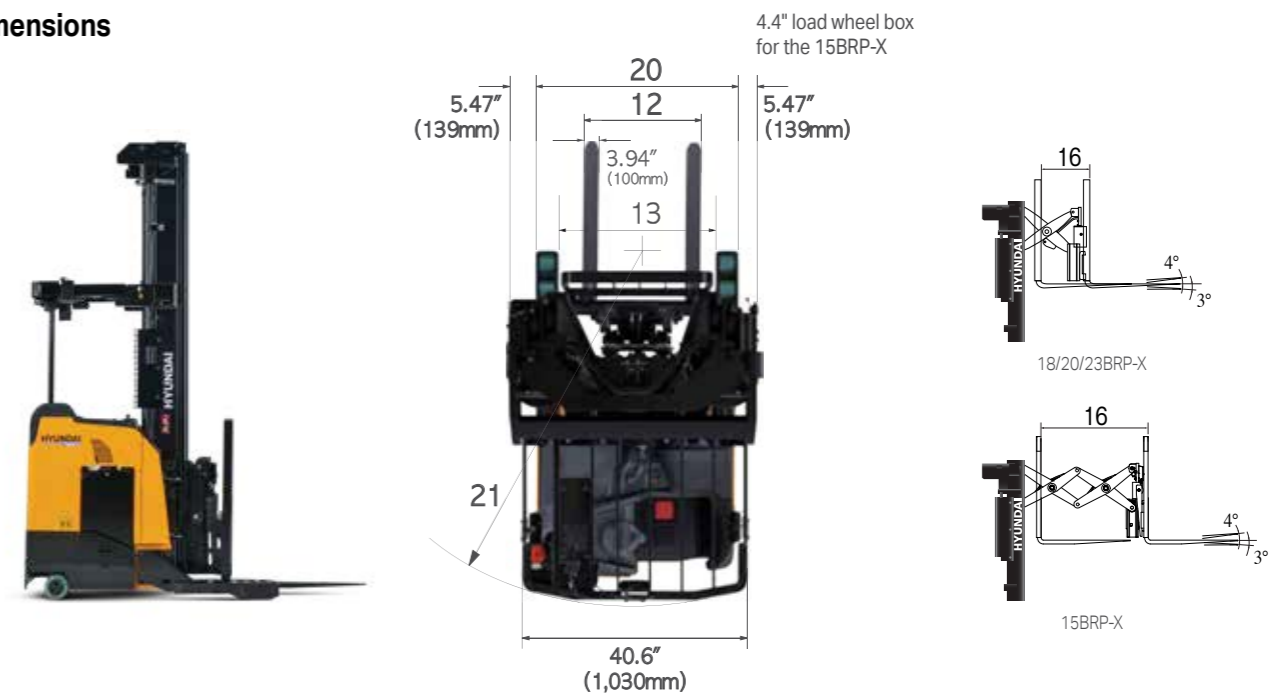
\*(4) Standard battery compartment

- type A: 18BRP-X

- type B: 20BRP-X

- type C: 15/23BRP-X

## Dimensions



## Optional items

	Option Name	15BRP-X	18BRP-X	20BRP-X	23BRP-X		Option Name	15BRP-X	18BRP-X	20BRP-X	23BRP-X					
Convenience	Authentication (AD)	○	○	○	○	Safety	Rear Blue Spot	○	○	○	○					
	One Key Type Handle	●	●	●	●		Front Blue Spot	○	○	○	○					
	Keyless (US only)	○	○	○	○	Carriage	Carriage Option – Hook Type	●	●	●	●					
	Load Sensor	○	○	○	○		Carriage Option – Integral Shaft Type	○	○	○	○					
	Side Battery Removal	○	○	○	○	Certification	PART-UL-E, N.A	○	○	○	○					
	Room Lamp	○	○	○	○		PART-UL-EE, N.A	○	○	○	○					
	Room Lamp with Operator Fan	○	○	○	○		PART-UL-ES, N.A	●	●	●	●					
	Hi-MATE (Remote Management System)	○	○	○	○	Part Toolkit	○	○	○	○	Oil	HYD Oil – VG46	●	●	●	●
	Carriage Camera	○	○	○	○	HYD Oil Option – VG 68 for Tropical, VG15 for Cold Area	○	○	○	○						
	LCD Monitor	○	○	○	○	Tire	Solid Urethane	●	●	●	●					
Travel Speed Limit	○	○	○	○	Vulkollan Tire		○	○	○	○						
LED Beacon Lamp	○	○	○	○	Urethane, Load: 10.5" – Single		X	○	○	○						
Safety	Working Lamp – Front & Rear LED	○	○	○	○		Vulkollan, Load: 10.5" – Single	X	○	○	○					
Anti-rollback	○	○	○	○	Urethane, Load: 4" – Dual		X	○	X	X						
Curve Control	○	○	○	○												
Red Zone Lamp	○	○	○	○												



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