

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.



ERGONOMICALLY DESIGNED DASHBOARD

User-friendly control panel.

Knee, back, and hip padding increased for operator comfort.



ENHANCED DRIVER COMFORT & STABILITY

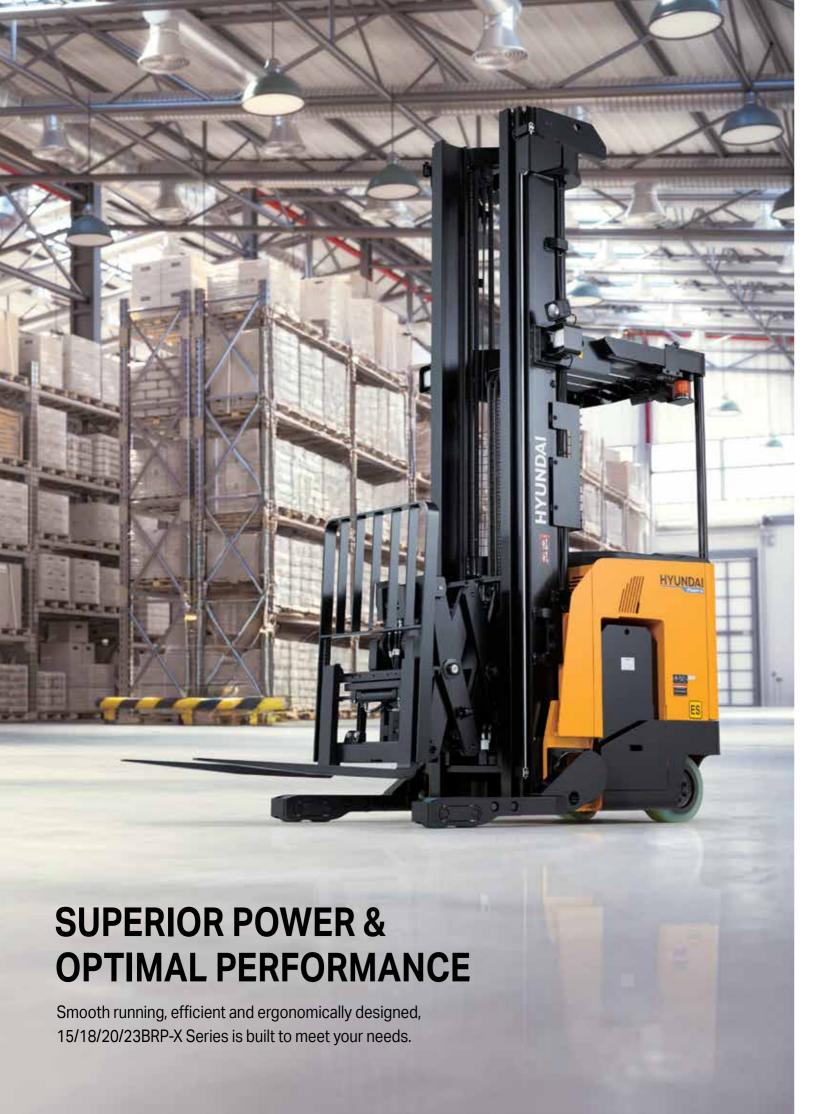
Easy entry and greater operator foot room, with increased floorboard cushioning.

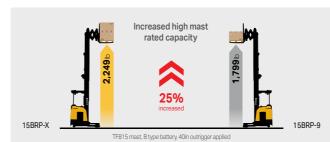


ADVANCED SAFETY

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







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 \rightarrow 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.



Travel speed (mph)

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.



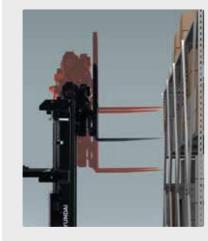
Comfort & Convenience Throughout
A hand grab makes entering the truck easier and safer, while a large, soft cushioned pad enhances comfort and a storage box makes it easy to keep manuals, booklets and other items onboard.

Convenient, Simplified Operation



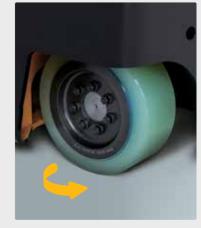
Driver Impact Reduction

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.

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ERGONOMICALLY DESIGNED DASHBOARD

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





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

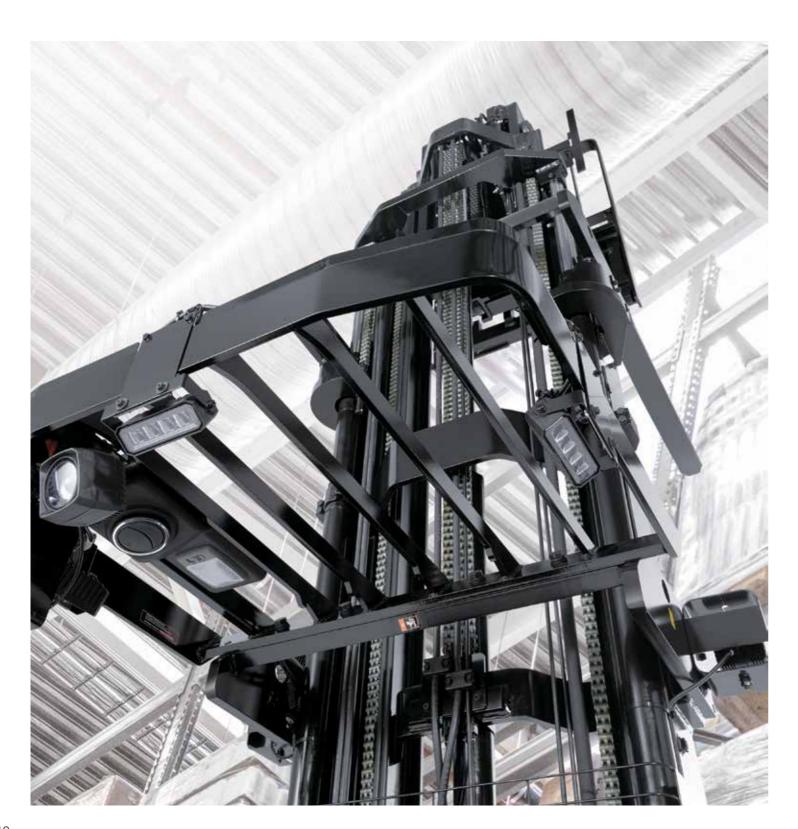
The large LCD smart display provides real-time machine data, including speed, steer angle, battery status, and working mode. Operators can monitor load weight, fork height, and overall truck condition.



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.

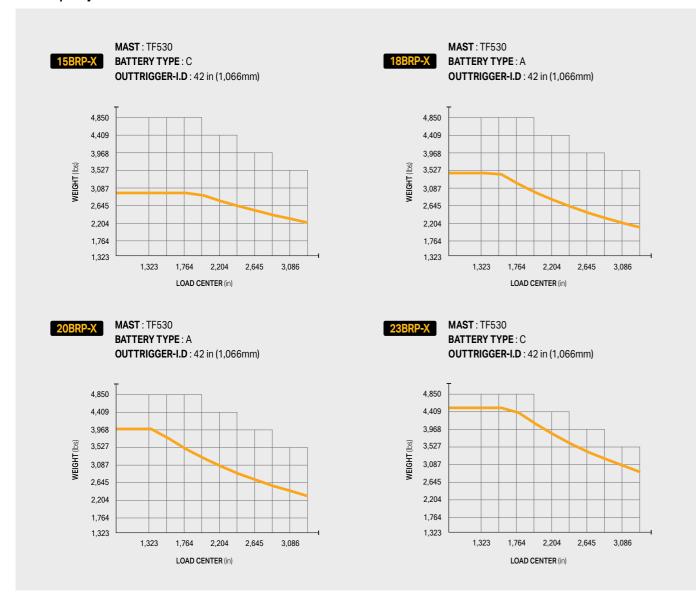


Battery Side Gate Interlock Sensor

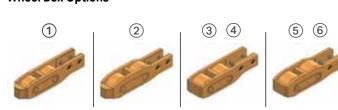
The system prevents accidents due to an improperly installed battery side gate. The system prevents travel if the battery side gates are not properly installed. This is a standard feature.

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	0
2	4.4	ø6×2.9	Vulkollan	0
3		-520	Urethane	Х
4	F 611	ø5×3.9	Vulkollan	Х
5	5.6"	aCv2.0	Urethane	Х
6		ø6×3.9	Vulkollan	Х

	188	RP-X			201	BRP-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	0	4.4.	ø5×2.9	Vulkollan	0	4.4.	ø5×2.9	Vulkollan	0
4.4.	ø6×2.9	Vulkollan	0	4.4.	ø6×2.9	Vulkollan	0	4.4.	ø6×2.9	Vulkollan	0
	ø5×3.9	Urethane	Х		ø5×3.9	Urethane	Х		ø5×3.9	Urethane	Х
	Ø5×3.9	Vulkollan	Х		Ø5×3.9	Vulkollan	Х		Ø5×3.9	Vulkollan	Х
	ø6×3.9	Urethane	Х		~Cu2.0	Urethane	Х]	#C+2.0	Urethane	Х
5.6	Ø6×3.9	Vulkollan	Х	5.6	ø6×3.9	Vulkollan	Х	5.6	ø6×3.9	Vulkollan	Х
	ø4.3×3.9	Urethane	Х		ø4.3×3.9	Urethane	Х]	ø4.3×3.9	Urethane	Х
	ø10.5×3.9	Urethane	Х		-40 500	Urethane	Х]	-10500	Urethane	Х
		Vulkollan	Х		ø10.5×3.9	Vulkollan	Х		ø10.5×3.9	Vulkollan	Х

Mast Specifications (15/23BRP-X)

		Maximum Fork	Overall Height	Overall Height	Frankift Haight	Over Headguard	Min Outtringer			Ti	ruck Weight	- w/o Batte	ry		
Ma		Height	(Lowered)	(Lifted) (With Backrest)	(Mith Backroot)	Height	-I.D	"A" Type	B.C 14.5" 362mm)		B.C 16.5" 413mm)	71	B.C 18.3" 457mm)		B.C 21.1" 527mm)
Тур	ЭЕ	15/23BRP-X	15/23BRP-X	15/23BRP-X	15/23BRP-X	15/23BRP-X	15/23BRP-X	15BRP-X	23BRP-X	15BRP-X	23BRP-X	15BRP-X	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)	lb (kg)	lb (kg)
	TF500	197 (5,000)	89 (2,263)	246 (6,239)	41 (1,040)	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)
3-Stage Full Free Lift	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 Sp	Aast Specifications (18/20BRP-X) *STANDARD																		
															Т	ruck Weight	t - w/o Batte	ry	
	Mast Type		um Fork ight		l Height ered)	Overall Height (Lifted) (With Backrest)		Free Lift Height (With Backrest)		Over Headguard Height			ittrigger .D	14	B.C 14.5" I.5" ?mm)	16	B.C 16.5" 6.5" Bmm)	18	B.C 18.3" 3.3" 'mm)
		18BRP-X	20BRP-X	18BRP-X	20BRP-X	18BRP-X	20BRP-X	18BRP-X	20BRP-X	18BRP-X	20BRP-X	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)	in (mm)	in (mm)	in (mm)	in (mm)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)
	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)
3-Stage Full Free	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)
Lift	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	-	369 (9.384)	-	92	-	94	-	34 (864)	-	-	-	-	-	7,355 (3.336)

Battery Table

Battery Type	Battery Compartment Size (Length)		Battery Voltage	Max. Capacity (6 Hour Rate)		Ba dth V)	Len	ttery Dimensions Length Height (L) (H)				Battery Weight Min. Weight		
	in		Volt	Ah	in		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

* STANDARD

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

14.3"	Battery	Compa	rtment	and 42"	Outrigg	ger I.D	14.3"	Battery	Compa	rtment	and 42"	Outrigg	jer I.D	16.3"	Battery	Compa	rtment	and 42"	Outrigg	er I.D	16.3" Battery Compartment and 42" Outrigger I.D						
	15BRP-X 18BRP-X									20BRP->	(23BRP-										
			Pallet V	/idth (in)						Pallet W	/idth (in)						Pallet W	/idth (in)						Pallet V	Vidth (in)		
		33	36	40	44	48			33	36	40	44	48	1		33	36	40	44	48			33	36	40	44	48
Pallet	36	93	93	92	92	92	Pallet	36	85	85	85	84	84	Pallet	36	87	87	87	86	86	Pallet	36	87	86	86	85	85
Length (in)	40	98	97	97	97	96	Length (in)	40	90	90	89	89	89	Length (in)	40	92	92	91	91	91	Length (in)	40	92	91	91	91	91
(- 7	44	102	102	102	101	101	(7	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	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																										

 \cdot Add 2" for 16.3" Battery Compartment \cdot Add 3.5" for 18" Battery Compartment \cdot 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

Gei	neral 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	Туре	Volt	36	36	36	36
9	Operator Type	Stand, Double/Single Reach			l Star	lding	
7	Tire Type	Load/Drive / Caster			P	E	
8	Wheels (x=driven)	Number, Load/Drive / Caster		4/1×/2	4/1×/2	4/1×/2	4/1×/2
Bas	ic 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	1.57x4	x41.3"	1.75x4	1 4x41.3"
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
Per	formance						
24	Travel Speed	Loaded / Unloaded	mph	7.37	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
We	ights						
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	1
	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 Cleara	nce With 5" Diameter Load Wheels	in	2.0	2.0	2.0	2.0
45 Battery Roller	leight With 5" Diameter Load Wheels		6.5	6.5	6.5	6.5
46 Service Brake	Туре			Electric D	Disc Brake	
47 Parking Brake	Туре			Automatic Ele	ectric Release	
Steering	Туре			Electric	Steering	
Electric						
48 Battery	Туре			Lead Acid	and Li-lon	
	Max. Amp – Standard	Ah	625	750	875	1,000

2,381

9.1

26.8

AC

hp

1,720

9.1

26.8

1,984

9.1

26.8

AC

2,381

9.1

26.8

AC

15

Min. Weight - Standard

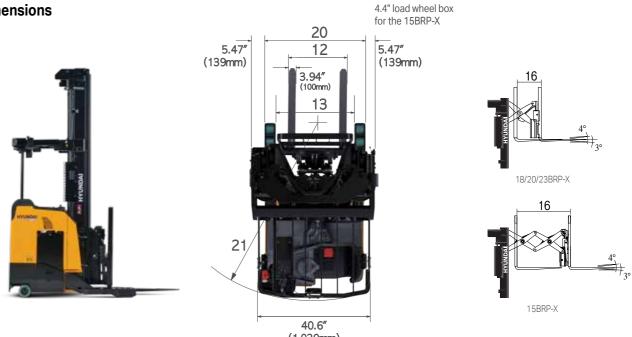
Drive Motor, 60 Min Rating

Hydraulic Motor, 15% Rating

Drive & Hydraulic Motor Control Type

49 Motors, Controls

Dimensions



(1,030mm) 14

^{*(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

Optional items

	Option Name	15BRP-X	18BRP-X	20BRP-X	23BRP-X
	Authentication (AD)	0	0	0	0
	One Key Type Handle	•	•	•	•
	Keyless (US only)	0	0	0	0
	Load Sensor	0	0	0	0
0	Side Battery Removal	0	0	0	0
Convenience	Room Lamp	0	0	0	0
	Room Lamp with Operator Fan	0	0	0	0
	Hi-MATE (Remote Management System)	0	0	0	0
	Carriage Camera	0	0	0	0
	LCD Monitor	0	0	0	0
	Travel Speed Limit	0	0	0	0
	LED Beacon Lamp	0	0	0	0
0-6-1	Working Lamp – Front & Rear LED	0	0	0	0
Safety	Anti-rollback	0	0	0	0
	Curve Control	0	0	0	0
	Red Zone Lamp	0	0	0	0

	Option Name	15BRP-X	18BRP-X	20BRP-X	23BRP-X
Cofot	Rear Blue Spot	0	0	0	0
Safety	Front Blue Spot	0	0	0	0
Carriaga	Carriage Option – Hook Type	•	•	•	•
Carriage	Carriage Option – Intergral Shaft Type	0	0	0	0
	PART-UL-E, N.A	0	0	0	0
Certification	PART-UL-EE, N.A	0	0	0	0
Ceruncauori	PART-UL-ES, N.A	•	•	•	•
	Part Toolkit	0	0	0	0
	HYD Oil – VG46	•	•	•	•
Oil	HYD Oil Option – VG 68 for Tropical, VG15 for Cold Area	0	0	0	0
	Solid Urethane	•	•	•	•
	Vulkollan Tire	0	0	0	0
Tire	Urethane, Load: 10.5" – Single	Х	0	0	0
	Vulkollan, Load : 10.5" – Single	Х	0	0	0
	Urethane,, Load: 4" – Dual	Х	0	Х	Х

NO ONE DELIVERS MORE







