



WAREHOUSE EQUIPMENT
REACH TRUCK (SIT IN) & REACH TRUCK (STAND IN)



UN FORKLIFT

INNOVATIVE POWER
THE UN FORKLIFT TRUCK

FORKLIFTS
AUSTRALIA ||

Warehouse Equipment

Reach Truck (Sit in) & Reach Truck (Stand in)

UN Forklift is one of earliest factories to produce reach truck, double deep reach truck and VNA in China. Ergonomic design and high performance supported by innovative technology help UN reach trucks become the perfect solution for various applications in different warehouses.



● New LED display



● Strong OHG



High Performance

- **Regeneration Function:**

The battery will withdraw electricity automatically when decelerating or parking.

- **Reliable AC Technology:**

INMOTION & Curtis controller provide the infinite variable drive and lift control. The brush-less AC motors offer improved efficiency and reduce maintenance cost.

- **CAN bus communications network:**

provides superior dependability.

- **America AMP waterproof plug and electrical parts greatly reduce electrical faults.**

- **EPS (electronic steering system):**

light steering, shows the driving wheel position in real-time. Automatic centering function when starts.



● Flexible EPS steering



● Pre selection height system (optional)

Safety & Ergonomics

- Turning automatic deceleration function to prevent the forklift from turning over when turning, making the operation safer.
- Automatic parking function.
- German imported steel for mast with high strength and high wear resistance.
- Wide view mast, strong OHG and comfortable seat.

Easy Maintenance

- Maintenance free AC Motor makes forklift release less heat and ensures higher efficiency.
- Simple structure and maintenance free components decrease maintenance cost.
- The removable maintenance cover helps to access to the controller and other key parts easier.

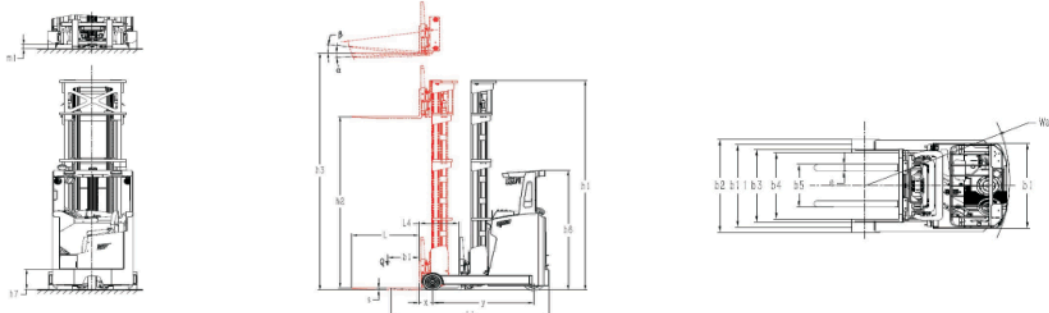
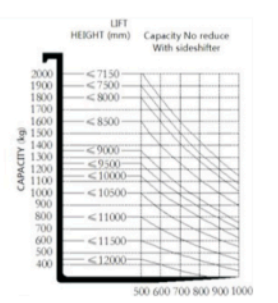
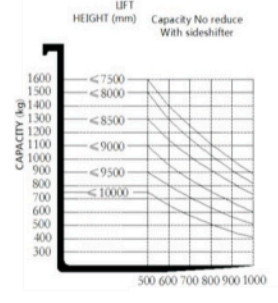
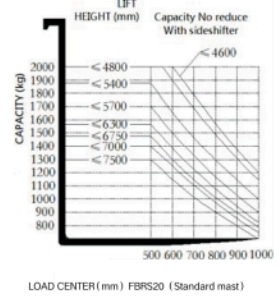
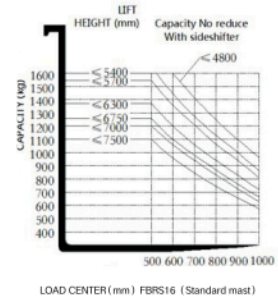
Reach Truck (Sit in) Main Specification				
Standard		UN		
1.1 Brand		FBR16(Standard mast)	FBR20(Standard mast)	FBR16(High-performance mast)
1.2 Model		FBR20(High-performance mast)		
1.3 Power type		Battery	Battery	Battery
1.4 Operation type		Seated	Seated	Seated
1.5 Rated capacity	Q(kg)	1600	2000	2000
1.6 Load center	C(mm)	500	500	500
1.7 Front overhang	x(mm)	205	205	205
1.8 Wheelbase	y(mm)	1425	1525	1600
Weight				
2.1 Service weight(incl. battery)	kg	3710	4000	4530
Wheel				
3.1 Wheel type		PU	PU	PU
3.2 Load wheel	mm	φ300×120	φ300×120	φ300×120
3.3 Drive wheel	mm	φ343×108	φ350×120	φ350×120
3.4 Auxiliary wheel	mm	/	/	/
3.5 Number of wheels,front/rear(x=drive wheel)		2/ 1X	2/ 1X	2/ 1X
3.6 Wheel tread,drive side	b10(mm)	/	/	/
3.7 Wheel tread,load side	b11(mm)	1170	1170	1270
Size				
4.1 Fork tilt	α/β(°)	3/5	3/5	3/5
4.2 Mast closed height	h1(mm)	3322	3322	4154
4.3 Free lift height	h2(mm)	2712	2712	3504
4.4 Lift height	h3(mm)	7500	7500	10000
4.5 Mast extended height with load-backrest	h4(mm)	8430	8430	10930
4.6 Overhead guard height	h6(mm)	2200	2200	2200
4.7 Pedal height	h7(mm)	376	376	376
4.8 Overall length	l1(mm)	2340	2421	2496
4.9 Overall width	b1/b2(mm)	1270/1290	1270/1290	1270/1390
4.10 Fork size	l/e/s(mm)	1070×100×35	1070×122×40	1070×122×40
4.11 Fork carriage width	b3(mm)	1090	1090	1090
4.12 Fork outside width	b5(mm)	222-750	266-772	266-725
4.13 Inner leg width	b4(mm)	890	890	990
4.14 Reach stroke	l4(mm)	583	617	617
4.15 Mast ground clearance	m1(mm)	75	75	75
4.16 Aisle width for pallet	Ast(mm)	2784	2838	2912
4.17 Aisle width for pallet	Ast(mm)	2814	2882	2956
4.18 Turning radius	Wa(mm)	1700	1798	1872
Function				
5.1 Driving speed(load/unload)	km/h	14/14	14/14	14/14
5.2 Lifting speed(load/unload)	mm/s	280/380	340/440	340/440
5.3 Lowering speed(load/unload)	mm/s	380/340	420/360	420/360
5.4 Max.gradeability(load/unload)	%(tanθ)	10	10	10
5.5 Brake type		Mechanical	Mechanical	Mechanical
Drive				
6.1 Driving Motor(S2-60min)	kw	5.5	6.5	6.5
6.2 Lifting Motor(S3-15%)	kw	8.6	12.8	12.8
6.3 Battery voltage/capacity	V/Ah	48/420	48/560	48/420
6.4 Options: Lithium battery voltage/capacity	V/Ah			
6.5 Battery weight	kg	715	920	920
6.6 Steering system		EPS	EPS	EPS
Other				
7.1 Battery replacement type		Front pull	Front pull	Front pull

[1]: Free lifting height is not including the size of the shelf. when including the standard shelf need to subtract 270mm;
 [2]: The length of the whole truck increases about 60mm when side shifter is added;
 [3]: When side shifter is added, the maximum outside width of the fork is 725mm

Mast Specification

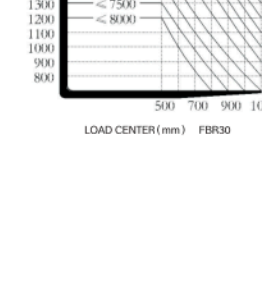
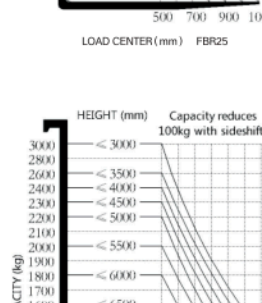
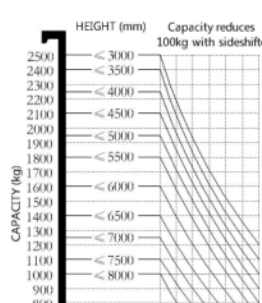
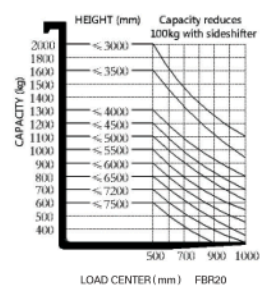
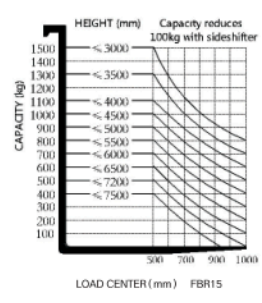
Triplex full free mast		FBR16 (Standard Mast)													
Model	FBR16	16-46	16-48	16-54	16-57	16-63	16-67	16-70	16-71	16-75					
Lift height	h3(mm)	4600	4800	5400	5700	6300	6750	7000	7150	7500					
Mast extended height with load-backrest	h4(mm)	5530	5730	6330	6630	7230	7680	7930	8080	8430					
Mast closed height	h1(mm)	2254	2320	2520	2620	2820	3070	3154	3204	3322					
Free lift height	h2(mm)	1644	1710	1910	2010	2210	2460	2544	2594	2712					
Triplex full free mast		FBR20 (Standard Mast)													
Model	FBR20	20-46	20-48	20-54	20-57	20-63	20-67	20-70	20-71	20-75					
Lift height	h3(mm)	4600	4800	5400	5700	6300	6750	7000	7150	7500					
Mast extended height with load-backrest	h4(mm)	5530	5730	6330	6630	7230	7680	7930	8080	8430					
Mast closed height	h1(mm)	2254	2320	2520	2620	2820	3070	3154	3204	3322					
Free lift height	h2(mm)	1644	1710	1910	2010	2210	2460	2544	2594	2712					
Triplex full free mast		FBR16 (High-Performance Mast)													
Model	FBR16H	16H-63	16H-67	16H-70	16H-71	16H-75	16H-80	16H-85	16H-90	16H-95	16H-100				
Lift height	h3(mm)	6300	6750	7000	7150	7500	8000	8500	9000	9500	10000				
Mast extended height with load-backrest	h4(mm)	7230	7680	7930	8080	8430	8930	9430	9930	10430	10930				
Mast closed height	h1(mm)	2820	3070	3154	3204	3322	3488	3654	3820	3988	4154				
Free lift height	h2(mm)	2170	2420	2544	2594	2712	2878	3044	3210	3378	3544				
Triplex full free mast		FBR20 (High-Performance Mast)													
Model	FBR20H	20H-63	20H-67	20H-70	20H-71	20H-75	20H-80	20H-85	20H-90	20H-95	20H-100	20H-105	20H-110	20H-115	20H-120
Lift height	h3(mm)	6300	6750	7000	7100	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000
Mast extended height with load-backrest	h4(mm)	7230	7680	7930	8080	8430	8930	9430	9930	10430	10930	11430	11930	12430	12930
Mast closed height	h1(mm)	2820	3070	3154	3204	3322	3488	3654	3820	3988	4154	4320	4488	4654	4820
Free lift height	h2(mm)	2170	2420	2544	2594	2712	2878	3044	3210	3378	3544	3710	3878	4044	4210

Note[1]: Above free lift height not include load-backrest; if including load-backrest,free lift height would be reduced 270mm.



Reach Truck (Stand in) Main Specification

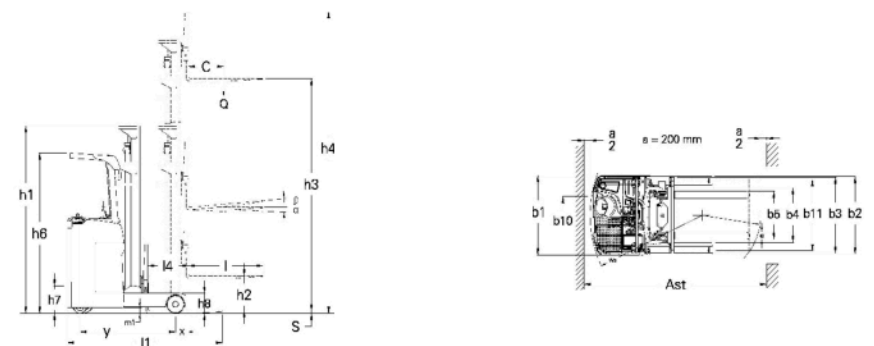
Standard	GB									
	FBR15(Duplex mast)	FBR15(Triples mast)	FBR20(Duplex mast)	FBR20(Triples mast)	FBR25(Duplex mast)	FBR25(Triples mast)	FBR30(Duplex mast)	FBR30(Triples mast)	FBR35(Duplex mast)	FBR35(Triples mast)
1.1 Model	FBR15	FBR15	FBR20	FBR20	FBR25	FBR25	FBR30	FBR30	FBR35	FBR35
1.2 Motor	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
1.3 Power type	Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery
1.4 Operation type	Stand on	Stand on	Stand on	Stand on	Stand on	Stand on	Stand on	Stand on	Stand on	Stand on
1.5 Rated capacity	1500	1500	2000	2000	2500	2500	3000	3000	3500	3500
1.6 Load center	500	500	500	500	500	500	500	500	500	500
1.7 Front overhang	300	300	300	300	300	300	300	300	300	300
1.8 Wheelbase	1345	1345	1545	1545	1720	1720	1900	1900	2120	2120
1.9 Height										
2.1 Service weight (incl. battery)	2400	2400	2800	2800	3200	3200	3600	3600	4000	4000
2.2 Fork capacity with no load drive side/lead side	1520/1520	1520/1520	1920/1920	1920/1920	2320/2320	2320/2320	2720/2720	2720/2720	3120/3120	3120/3120
2.3 Fork capacity with full load-back/ load-back/ drive side/lead side	1460/1290	1460/1290	1860/1700	1860/1700	2260/2100	2260/2100	2660/2500	2660/2500	3060/2900	3060/2900
2.4 Fork capacity with full load-back/ load-back/ drive side/lead side	1460/1290	1460/1290	1860/1700	1860/1700	2260/2100	2260/2100	2660/2500	2660/2500	3060/2900	3060/2900
3.1 Wheel type	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU
3.2 Front wheel	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114
3.3 Drive wheel	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114	Φ204×114
3.4 Axle type	Φ104×76	Φ104×76	Φ104×76	Φ104×76	Φ104×76	Φ104×76	Φ104×76	Φ104×76	Φ104×76	Φ104×76
3.5 Number of wheels/ front/ rear (incl. drive wheel)	2/1+2	2/1+2	2/1+2	2/1+2	2/1+2	2/1+2	2/1+2	2/1+2	2/1+2	2/1+2
3.6 Wheel tread drive side	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104
3.7 Wheel tread lead side	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104
4.1 Fork in	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5
4.2 Mast closed height	2680	2680	2980	2980	3280	3280	3580	3580	3880	3880
4.3 Free lift height	1520/1520	1520/1520	1820/1820	1820/1820	2120/2120	2120/2120	2420/2420	2420/2420	2720/2720	2720/2720
4.4 Lift height	4300	4300	4600	4600	4900	4900	5200	5200	5500	5500
4.5 Mast extended height with load-back	4400	4400	4700	4700	5000	5000	5300	5300	5600	5600
4.6 Mast closed height	2680	2680	2980	2980	3280	3280	3580	3580	3880	3880
4.7 Mast height	330	330	330	330	330	330	330	330	330	330
4.8 Overall length	2254	2254	2398	2398	2542	2542	2686	2686	2830	2830
4.9 Overall width	1060/1170	1060/1170	1060/1170	1060/1170	1060/1170	1060/1170	1060/1170	1060/1170	1060/1170	1060/1170
4.10 Fork size	1070/1035	1070/1035	1070/1035	1070/1035	1070/1035	1070/1035	1070/1035	1070/1035	1070/1035	1070/1035
4.11 Fork carriage width	1068	1068	1068	1068	1068	1068	1068	1068	1068	1068
4.12 Fork outlet width	222-450/111	222-330/111	244-772/111	244-772/111	266-772/111	266-772/111	288-772/111	288-772/111	310-772/111	310-772/111
4.13 Fork tip width	140	140	140	140	140	140	140	140	140	140
4.14 Reach distance	550	525	525	525	525	525	525	525	525	525
4.15 Mast ground clearance	60	60	60	60	60	60	60	60	60	60
4.16 Fork width for pallet 1000/1200mm(C-800mm)	300	300	300	300	300	300	300	300	300	300
4.17 Fork width for pallet 800/1200mm(C-600mm)	274	274	274	274	274	274	274	274	274	274
4.18 Turning radius	1554	1554	1734	1734	1914	1914	2094	2094	2274	2274
5.1 Driving speed (forward)	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10
5.2 Max speed (backward)	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11	3000/2700/11
5.3 Lifting speed (load/unload)	3000/2700	3000/2700	3000/2700	3000/2700	3000/2700	3000/2700	3000/2700	3000/2700	3000/2700	3000/2700
5.4 Mast gas lift (load/unload)	3/15	3/15	3/15	3/15	3/15	3/15	3/15	3/15	3/15	3/15
5.5 Brake type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
6.1 Driving Motor (3.0kW)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
6.2 Lifting Motor (3.0kW)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
6.3 Battery voltage capacity	48/300	48/300	48/300	48/300	48/300	48/300	48/300	48/300	48/300	48/300
6.4 Battery weight	500	500	500	500	500	500	500	500	500	500
6.5 Steering system	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS

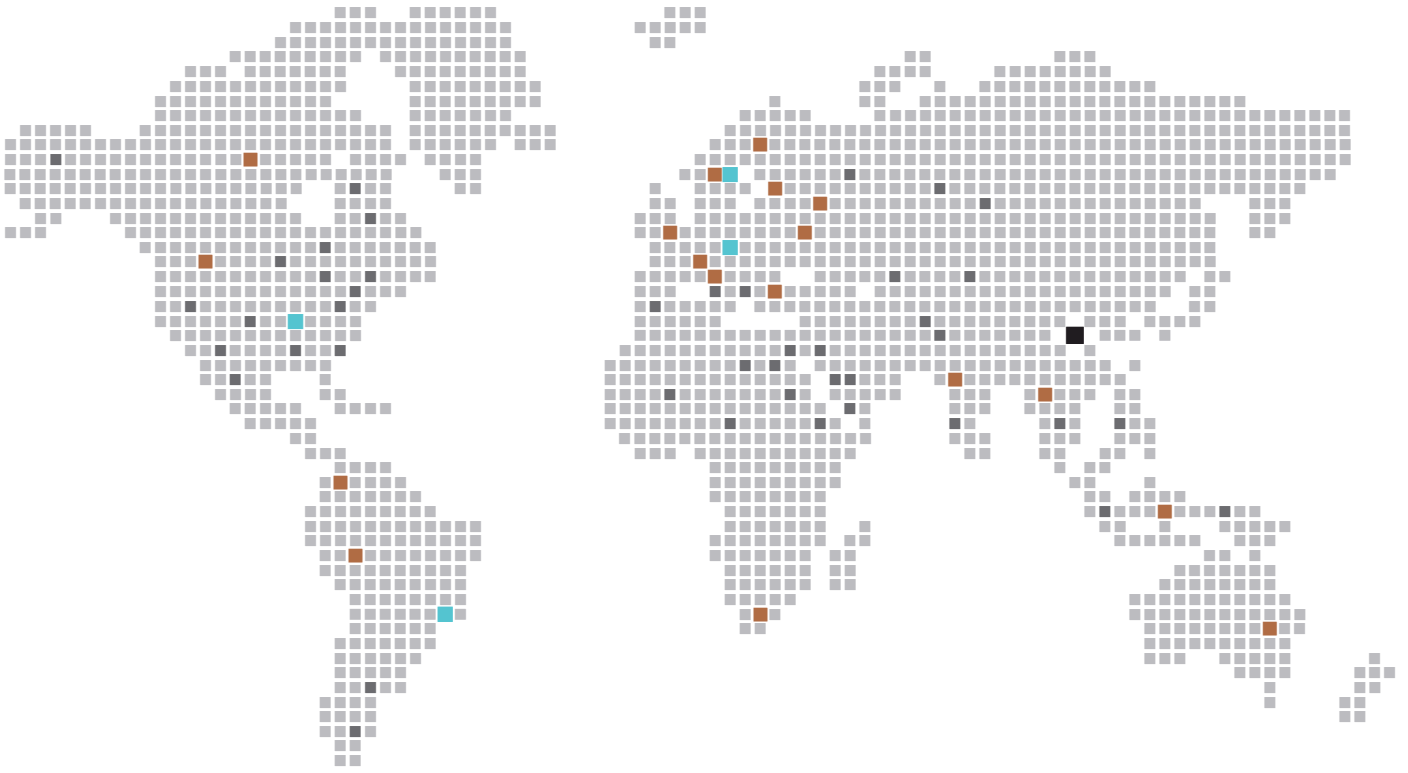


Mast Specification

		FBR15								
Model	FBR	15-30	15-35	15-40	15-45					
Lift height	h3(mm)	3000	3500	4000	4500					
Mast extended height with load-back	h4(mm)	3960	4460	4960	5460					
Mast closed height	h1(mm)	2082	2332	2632	2882					
Free lift height	h2(mm)	400	400	400	400					
		FBR15								
Model	FBR	15-45	15-50	15-55	15-60	15-65	15-70	15-72	15-75	
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7200	7500	
Mast extended height with load-back	h4(mm)	5460	5960	6460	6960	7460	7960	8160	8460	
Mast closed height	h1(mm)	2142	2309	2475	2642	2809	2975	3042	3142	
Free lift height	h2(mm)	1542	1709	1875	2042	2209	2375	2442	2542	
		FBR20								
Model	FBR	20-30	20-35	20-40	20-45					
Lift height	h3(mm)	3000	3500	4000	4500					
Mast extended height with load-back	h4(mm)	3960	4460	4960	5460					
Mast closed height	h1(mm)	2082	2332	2632	2882					
Free lift height	h2(mm)	80	80	80	80					
		FBR20								
Model	FBR	20-45	20-50	20-55	20-60	20-65	20-70	20-72	20-75	
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7200	7500	
Mast extended height with load-back	h4(mm)	5460	5960	6460	6960	7460	7960	8160	8460	
Mast closed height	h1(mm)	2142	2309	2475	2642	2809	2975	3042	3142	
Free lift height	h2(mm)	1542	1709	1875	2042	2209	2375	2442	2542	
		FBR25								
Model	FBR	25-30	25-35	25-40	25-45					
Lift height	h3(mm)	3000	3500	4000	4500					
Mast extended height with load-back	h4(mm)	3960	4460	4960	5460					
Mast closed height	h1(mm)	2082	2332	2632	2882					
Free lift height	h2(mm)	80	80	80	80					
		FBR25								
Model	FBR	25-45	25-50	25-55	25-60	25-65	25-70	25-72	25-75	25-80
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7200	7500	8000
Mast extended height with load-back	h4(mm)	5460	5960	6460	6960	7460	7960	8160	8460	8960
Mast closed height	h1(mm)	2292	2459	2625	2792	2959	3125	3192	3292	3559
Free lift height	h2(mm)	1550	1716	1884	2050	2216	2384	2450	2550	2816
		FBR30								
Model	FBR	30-30	30-35	30-40	30-45					
Lift height	h3(mm)	3000	3500	4000	4500					
Mast extended height with load-back	h4(mm)	4050	4550	5050	5550					
Mast closed height	h1(mm)	2082	2332	2632	2882					
Free lift height	h2(mm)	80	80	80	80					
		FBR30								
Model	FBR	30-45	30-50	30-55	30-60	30-65	30-70	30-72	30-75	30-80
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7200	7500	8000
Mast extended height with load-back	h4(mm)	5550	6050	6550	7050	7550	8050	8250	8550	9050
Mast closed height	h1(mm)	2292	2459	2625	2792	2959	3125	3192	3292	3559
Free lift height	h2(mm)	1550	1716	1884	2050	2216	2384	2450	2550	2816

Note[1]: Above free lift height not include load-backrest. If including load-backrest, free lift height would be reduced 230mm.
 Note[2]: Above free lift height not include load-backrest. If including load-backrest, free lift height would be reduced 320mm.





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