

WAREHOUSE EQUIPMENT

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EFFICIENT / ECONOMIC

THE ZENVAN FORKLIFT TRUCK



Warehouse Equipment

Reach truck

1.5-2.5T

Double deep reach truck

1.5T

VNA

1.5T

ZENVAN Forklift is one of earliest factories to produce Reach truck, Double deep reach truck and VNA in China.

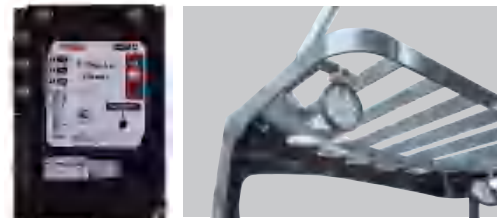
Adopting international advanced technology and ergonomic design concepts, it has the characteristics of comfortable operation, safe driving, high efficiency and convenient maintenance.



1737

High Performance

- 1.Regeneration Function: The battery will withdraw electricity automatically when decelerating or parking.
 - 2.Reliable AC Technology: Either Italian ZAPI controller or American Curtis controller provides the infinite variable drive and lift control. The brushless AC motors offer improved efficiency and reduce maintenance cost.
 - 3.CAN bus communications network provides superior dependability. Full AC system deliveries quiet ride and zero emission, reduces maintenance costs and enhances productivity.
- AC EPS(electronic steering system), light steering, shows the driving wheel position in real-time. Automatic centering function when starts.



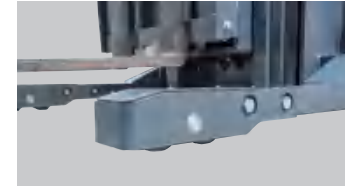
Safety

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.

Easy Maintenance

Maintenance Free AC Motor: Make 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 easier

LED lights, energy saving , long life.



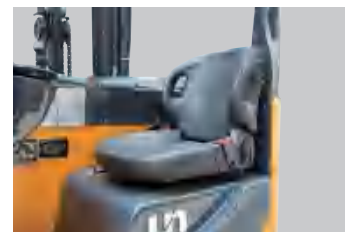
Small load front wheels can be directly inserted into the bottom of the shelf for stacking operations, which improves the utilization rate of the warehouse space.



The rear door is easy to open, which is convenient for the inspection, debugging and maintenance of the whole vehicle.



Large-arc overhead guard, wide view during stacking operation.



Standard seat OPS system ,safer operation and maintenance.



The maximal Fork Carriage Reach Distance can reach 920mm,which

Double Deep Reach Truck is ZENVAN's another breakthrough innovation your warehouse.The maximal Fork Carriage Reach Distance can reach 920mm,which provide the best solution to your double-rack system.With support the advanced technology and high quality components,UN's double deep reach truck provides the best operation experience and highest working efficiency.

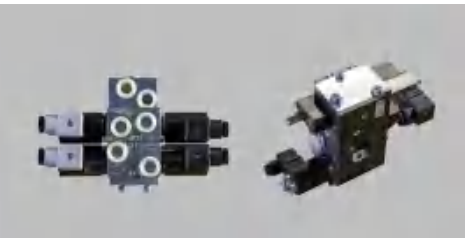


The service brake is the regenerative brake of the motor, which can recover more electric energy and prolong the endurance of the vehicle.

Curtis
1.5T

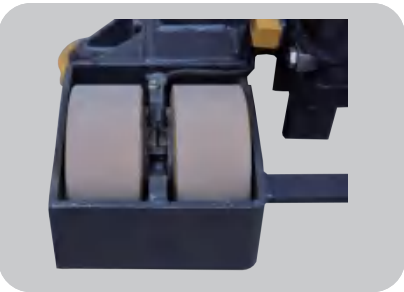
Man up VNA 1.5T/Man down VNA 1.3T

German Have proportional valve with proportional control. Good micromotion performance.Easy to position the forks.



Emergency power-off function for main circuit and control circuit.

Two sets of brake systems: the front wheel electromagnetic brake and the motor brake disc brake, ensure the brake is smooth and stable.



Aisle Automatic Guiding Function

When the car enters the roadway, the track magnetic induction system on both sides of the roadway starts to work, the car turns back to the center automatically, the car will always keep straight, and will not cause the problem of scratching the shelves or colliding with the goods due to the flexible

Layer number positioning

select the number of layers after setting, flip the lift switch, and the lifting height will automatically decelerate and stop according to the set number of layers. If you need to lift again, must reset the lift switch, and then can lift again. Be able to set the highest to six layers.

The highest lifting limit (need to be set)

the forklift is limited by the set height (the height is showed on the man-machine interface).

Setting Storing Depth

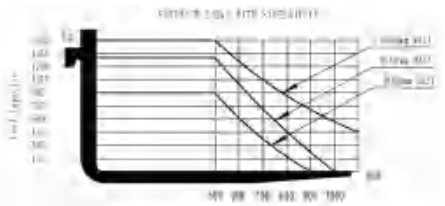
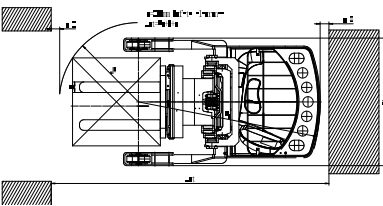
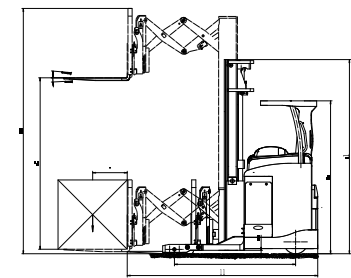
Side shift distance is visible on the man-machine interface. Deceleration can be automatically decelerated and stopped according to the set value.

All hydraulic actions have end deceleration function.

MAIN SPECIFICATIONS

Specification	1	Manufacturer		ZENVAN	1
	2	Model		FBRS15-KUQZ2	2
	3	Power		Battery	3
	4	Operation		Sit-on	4
	5	Rated Load Capacity	Q (kg)	1500	5
	6	Load Centre	C (mm)	500	6
	7	Lift Height	H3 (mm)	5000	7
	8	Free Lift	H2 (mm)	200	8
	9	Fork Size (L×W×T)	L/W/T(mm)	920×120×35	9
	10	F/B(α°/β°)	Deg	3°/5°	10
Dimensions	11	Length (To Fork Face)	L1 (mm)	2752	11
	12	Width	B1 (mm)	1450	12
	13	Mast Lowered Height	H1 (mm)	2950	13
	14	Mast Extended Height (With Backrest)	H4 (mm)	7045	14
	15	Overhead Guard Height	H5 (mm)	2205	15
	16	Turning Radius	Wa (mm)	2070	16
	17	Ground Clearance	H6 (mm)	50	17
	18	Fork Carriage Reach Distance	X(mm)	920	18
	19	Wheelbase	Y (mm)	1750	19
	20	Front Tread	B2 (mm)	1300	20
	21	Working Aisle Width With Pallet (1000×1200,1200 Lengthways)	Ast (mm)	3250	21
	22	Working Aisle Width With Pallet (800×1200,800 Lengthways)	Ast (mm)	3325	22
	23	Working Aisle Width With Pallet(Empty)	Ast (mm)	3055	23
Performance	24	Travel Speed (Full Load)	km/h	9.0	24
	25	Travel Speed (No Load)	km/h	9.5	25
	26	Lifting Speed (Full Load)	mm/s	240	26
	27	Lifting Speed (No Load)	mm/s	360	27
	28	Total Weight (Contains the battery)	Kg	4060	28
	29	Battery Weight	Kg	756	29
	30	Front Tyre×2 (Polyurethane)		125x75x4	30
	31	Rear Tyre×1 (Polyurethane)		343x135	31
	32	Diver Motor	Kw	6	32
Drive	33	Pump Motor	Kw	11	33
	34	Battery (Standard)	V/Ah	48/420	34
	35	Steering System		Electronic	35
	36	Service Brake		Electromagnetic	36
	37	Controller Type		AC	37
	38	Controller Manufacturer		ZAPI	38
	39	Operating Pressure	Mpa	16	39

Specifications and characteristics are subject to change without notice. Please contact us for detailed information.




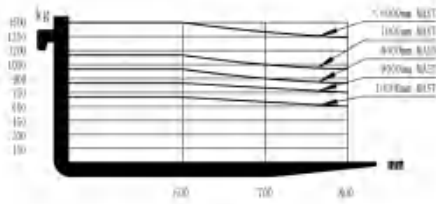
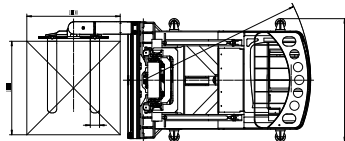
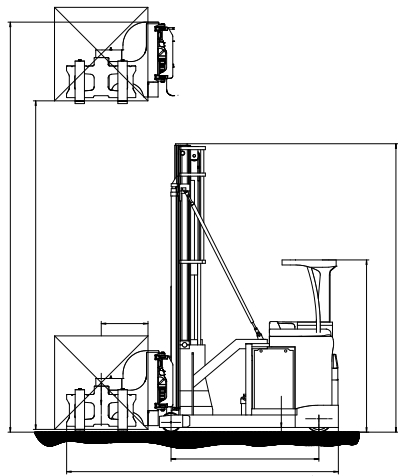
MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Max. Fork Reach (mm)	(Load Center Distance 500mm) Load Capacity (kg)	Overall Height (mm)			Free Lift (mm)		Tilt Angle
					Lowered	Extended		Without Backrest	With Backrest	
						Without Backrest	With Backrest			
				FBK15	1.5t			1.5t		
3-Stage Full Free Wide View Mast	RTFM400	4000	920	1500	2250	4910	5045	1285	1200	3-5
	RTFM450	4500	920	1500	2400	5410	5545	1485	1400	3-5
	RTFM500	5000	920	1500	2600	5910	6045	1685	1600	3-5
	RTFM550	5500	920	1400	2750	6460	6545	1835	1750	3-5
	RTFM600	6000	920	1300	2950	6960	7045	2035	1950	3-5
	RTFM650	6500	920	1200	3100	7410	7545	2185	2100	3-5
	RTFM700	7000	920	1100	3300	8010	8045	2385	2300	3-5
	RTFM750	7500	920	1000	3500	8460	8545	2585	2500	3-5
	RTFM800	8000	920	900	3665	9005	9045	2750	2650	3-5
	RTFM850	8500	920	800	3830	9505	9545	2915	2815	3-5
	RTFM900	9000	920	600	4095	9950	10045	3180	3100	3-5
	RTFM950	9500	920	450	4260	10450	10545	3345	3265	3-5
RTFM1000	10000	920	300	4450	11135	11045	3535	3450	3-5	

With Separated Side shifter, load capacity subtract 100Kg.

MAIN SPECIFICATIONS

Specification	1	Manufacturer			1
	2	Model		FBAP15-UQZ2	2
	3	Power		Battery	3
	4	Operation		Sit-on	4
	5	Rated Load Capacity		1500	5
	6	Load Centre	C (mm)	600	6
	7	Rated Lift Height	H3 (mm)	6000	7
	8	Fork Size (L×W×T)	mm	1070×120×40	8
Dimensions	9	Overall Length	L1 (mm)	4250/3615	9
	10	Overall Width	B1 (mm)	1600	10
	11	Mast Lowered Height	H1 (mm)	3034	11
	12	Mast Extended Height (With Backrest)	H4(mm)	7046	12
	13	Height to Safeguard	H5 (mm)	2220	13
	14	Min. Turning Radius	Wa (mm)	2270	14
	15	Ground Clearance	H6 (mm)	60	15
	16	Side shifter distance	X (mm)	1320	16
	17	Fork Side Time	s	8	17
	18	Fork Rotation Angle	Deg	180	18
	19	Fork Rotation Time	s	8	19
	20	Wheelbase	B2 (mm)	1950	20
	21	Min. Turning Aisle Width (1200X1200)	Ast (mm)	4125	21
	22	Working Aisle Width	Au (mm)	1700	22
Performance	23	Travel Speed (Full Load)	km/h	9	23
	24	Travel Speed (No Load)	km/h	9.5	24
	25	Lifting Speed (Full Load)	mm/s	220	25
	26	Lifting Speed (No Load)	mm/s	250	26
	27	Total Weight (Include Battery Box)	kg	5700	27
Drive	28	Front Tyre×2 (Polyurethane)		250×110×4	28
	29	Rear Tyre×1 (Polyurethane)		343×135	29
	30	Drive Motor	kw	6	30
	31	Lift Motor	kw	11	31
	32	Standard Battery	V/Ah	48/840	32
	33	Steering System		Electronic	33
	34	Service Brake		Electromagnetic	34
	35	Height Control		Automatic	35
	36	Controller Type		AC	36
	37	Controller Manufacturer		ZAPI	37
	38	Operating Pressure for Attachment	Mpa	20	38




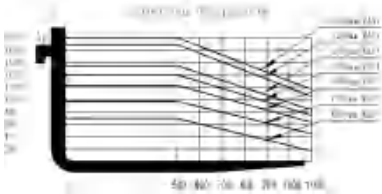
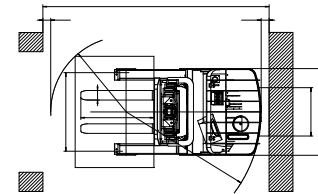
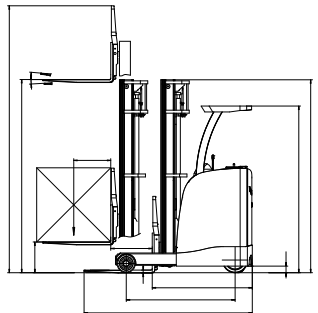
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MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	(Load Center Distance 600mm) Load Capacity (kg)		Overall Height (mm)		Free Lift (mm)
					Lowered	Extended	
			FBAP13t	FBAP15t	1.3t/1.5t		
3-Stage Full Free Wide View Mast	VTFM400	4000	1300	1500	2326	4997	1309
	VTFM450	4500	1300	1500	2493	5504	1482
	VTFM500	5000	1300	1500	2660	6046	1689
	VTFM550	5500	1300	1500	2827	6508	1816
	VTFM600	6000	1300	1500	3034	7046	2023
	VTFM650	6500	1030	1230	3201	7546	2189
	VTFM700	7000	950	1150	3368	8046	2357
	VTFM750	7500	850	1050	3494	8548	2527
	VTFM800	8000	800	1000	3700	9046	2689
	VTFM850	8500	700	900	3846	9550	2840
	VTFM900	9000	650	850	4034	10046	3023
	VTFM950	9500	550	750	4201	10546	3190
	VTFM1000	10000	500	700	4368	11046	3357
	VTFM1100	11000	200	400	4702	12046	3691

MAIN SPECIFICATIONS

Specification	1	Manufacturer			1
	2	Model		FBR15-NQC3 FBR18-NQC3 FBR20-NQC3 FBR25-NQC3	2
	3	Power		Battery	3
	4	Operation		Stand-on	4
	5	Rated Load Capacity	Q (kg)	1500 1800 2000 2500	5
	6	Load Centre	C (mm)	500 500 500 500	6
	7	Lift Height	H3 (mm)	4000 4000 4000 4000	7
	8	Free Lift	H2 (mm)	1010 1010 1010 910	8
Dimensions	9	Fork Size (L×W×T)	L/W/T(mm)	920×120×35 1070×120×40 1070×120×40 1070×120×40	9
	10	F/B(α°/β°)	Deg	2°/4°	10
	11	Overall Length(without fork)	L1 (mm)	1800 1885 1885 1885	11
	12	Main Body Length	L2 (mm)	1260 1270 1270 1330	12
	13	Width	B1 (mm)	1090 1200 1200 1200	13
	14	Mast Lowered Height	H1 (mm)	1975 1975 1975 1875	14
	15	Mast Extended Height (With Backrest)	H4 (mm)	5705 5705 5705 5405	15
	16	Overhead Guard Height	H5 (mm)	2310/2255	16
	17	Turning Radius	Wa (mm)	1660 1660 1750 1920	17
	18	Ground Clearance	H6 (mm)	94 94 82 82	18
	19	Reach Distance	X (mm)	560 560 640 670	19
	20	Wheelbase	Y (mm)	1370 1370 1485 1655	20
	21	Front Tread	B2 (mm)	1005 1005 1080 1080	21
	22	Rear Tread	B3 (mm)	625 625 705 705	22
	23	Working Aisle Width With Pallet (1000×1200,1200 Lengthways)	Ast(mm)	2715 2715 2750 2850	23
	24	Working Aisle Width With Pallet (800×1200,800 Lengthways)	Ast(mm)	2760 2760 2780 2855	24
Performance	25	Travel Speed (Full Load)	km/h	9.5	25
	26	Travel Speed (No Load)	km/h	10	26
	27	Lifting Speed (Full Load)	mm/s	320 320 300 280	27
	28	Max gradeability (Full Load)	%	12 10 10 10	28
	29	Total Weight (Contains the battery)	Kg	2440 2440 2510 2625	29
	30	Front×2		250×85 250×120	30
	31	Rear×1		300×135 343×135	31
Drive	32	Balance×2		178×76	32
	33	Diver Motor	kw	4.5	33
	34	Pump Motor	kw	12.5	34
	35	Battery (Standard)	V/Ah	48/375 48/375 48/425 48/425	35
	36	Steering System		Eletronic Power Steering	36
	37	Service Brake		Electromagnetic Brake	37
	38	Controller Type		AC	38
	39	Controller Manufacturer		Curtis	39



MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	(Load Center Distance500mm) Load Capacity (kg)					Overall Height (mm)					Free Lift (mm)				Tilt Angle	
								Lowered		Extended			Without Backrest		With Backrest			
			1.3-2.0t	2.5t	1.3-2.0t	2.5t	1.3-2.0t			2.5t								
	FBRN350	3500	/	/	/	/	2400	/	1810	/	4775	/	5205	/	1275	/	845	
	FBRN370	3700	/	/	/	/	2400	/	1875	/	4975	/	5405	/	1340	/	910	
3-Stage Full Free Wide View Mast	RTFM400	4000	1300	1500	1800	2000	2400	1975	1975	5275	5275	5705	5705	1440	1440	1010	1010	2-4
	RTFM430	4300	1300	1500	1800	2000	2300	2075	2075	5575	5575	6005	6005	1540	1540	1110	1110	2-4
	RTFM450	4500	1300	1400	1700	1900	2200	2145	2145	5775	5775	6205	6205	1610	1610	1180	1180	2-4
	RTFM470	4700	1200	1300	1600	1800	2000	2210	2210	5975	5975	6405	6405	1675	1675	1245	1245	2-4
	RTFM500	5000	1100	1200	1500	1600	1900	2310	2310	6275	6275	6705	6705	1775	1775	1345	1345	2-4
	RTFM530	5300	1040	1140	1440	1540	1780	2445	2445	6575	6575	7005	7005	1910	1910	1480	1480	2-4
	RTFM550	5500	1000	1100	1400	1500	1700	2510	2510	6775	6775	7205	7205	1975	1975	1545	1545	2-4
	RTFM570	5700	960	1060	1240	1420	1720	2580	2580	6975	6975	7405	7405	2045	2045	1615	1615	2-4
	RTFM600	6000	900	1000	1100	1300	1500	2680	2680	7275	7275	7705	7705	2145	2145	1715	1715	2-4
	FBRN630	6300	/	/	/	/	1380	/	2780	/	7575	/	8005	/	2245	/	1815	
	RTFM650	6500	750	850	1000	1100	1300	2880	2880	7775	7775	8205	8205	2345	2345	1915	1915	2-4
	RTFM670	6700	730	830	910	1060	1260	2945	2945	7975	7975	8405	8405	2410	2410	1980	1980	2-4
	RTFM700	7000	600	700	900	1000	1200	3045	3045	8275	8275	8705	8705	2510	2510	2080	2080	2-4
	FBRN730	7300	/	/	/	/	1080	/	3145	/	8575	/	9005	/	2610	/	2180	
	RTFM750	7500	500	600	700	800	1000	3210	3210	8775	8775	9205	9205	2675	2675	2245	2245	2-4
	FBRN770	7700	/	/	/	/	920	/	3275	/	8975	/	9405	/	2740	/	2310	
	RTFM800	8000	300	400	500	600	800	3410	3410	9275	9275	9705	9705	2825	2875	2395	2445	2-4
RTFM850	8500	/	/	300	400	/	3410	/	9775	/	10205	/	2990	/	2560	/	2-4	

With side shifter, load capacity subtract 150Kg. With built-in side shift, load capacity subtract 100Kg.

MAIN SPECIFICATIONS

Specification	1	Manufacturer		ZENVAN								1
	2	Model		FBR516-NQC5	FBR518-NQC5	FBR520-NQC5	FBR525-NQC5	FBR516-N1QC5	FBR518-N1QC5	FBR520-N1QC5		2
	3	Power		Battery	Battery	Battery	Battery	Battery	Battery	Battery		3
	4	Operation		Sit on	Sit on	Sit on	Sit on	Sit on	Sit on	Sit on		4
	5	Rated Load Capacity	Q (kg)	1600	1800	2000	2500	1600	1800	2000		5
	6	Load Centre	C (mm)	600	600	600	600	600	600	600		6
	7	Lift Height	H3 (mm)	5500	5500	3000	4700	8500(Lost load after 6000)	8500(Lost load after 6000)	8500(Lost load after 6000)		7
	8	Free Lift	H2(mm)	1545	1545	1545	1245	2610	2610	2610		8
	9	Fork Size (L×W×T)	mm	1070×120×35	1070×120×40	1070×120×40	1070×120×40	1070×120×40	1070×120×40	1070×120×40		9
	10	FB(α°/β°)	Deg		2°/4°	2°/4°	2°/4°	2°/4°	2°/4°	2°/4°		10
Dimensions	11	Overall Length	L1 (mm)	1876	1906	1926	2026	1926	2026	2026		11
	12	Main Body Length	L2 (mm)	1243	1280	1300	1400	1400	1400	1400		12
	13	Width	B1 (mm)	1270	1270	1270	1270	1270	1270	1270		13
	14	Mast Lowered Height	H1 (mm)	2529	2529	2529	2229	3581	3581	3581		14
	15	Mast Extended Height (With Backrest)	H4 (mm)	6478	6478	6478	5678	9465	9465	9465		15
	16	Overhead Guard Height	H5 (mm)	2195	2195	2195	2195	2195	2195	2195		16
	17	Turning Radius	Wa (mm)	1700	1735	1750	1850	1750	1850	1850		17
	18	Ground Clearance	H6 (mm)	76	76	76	76	76	76	76		18
	19	Reach Distance	X (mm)	660	660	660	650	550	650	650		19
	20	Wheelbase	Y (mm)	1450	1485	1500	1600	1500	1600	1600		20
	21	Front Tread	B2 (mm)	1160	1160	1160	1160	1160	1160	1160		21
	22	Working Aisle Width With Pallet (1000×1200,1200 Lengthways)	Ast (mm)	2710	2740	2760	2865	2835	2865	2865		22
	23	Working Aisle Width With Pallet (800×1200,800 Lengthways)	Ast (mm)	2745	2775	2795	2900	2890	2900	2900		23
Performance	24	Travel Speed (Full Load)	km/h	9.5	9	9	9	9	9	9		24
	25	Travel Speed (No Load)	km/h	10	9.5	9.5	9.5	9.5	9.5	9.5		25
	26	Lifting Speed (Full Load)	mm/s	320	310	300	290	340	330	320		26
	27	Max gradeability (Full Load)	%	12	12	10	10	10	10	10		27
	28	Total Weight (Contains the battery)	kg	3105	3150	3295	3745	4115	4150	4185		28
	29	Front×2		∅ 310x100	∅ 310x100	∅ 310x100	∅ 310x100	∅ 310x100	∅ 310x100	∅ 310x100		29
	30	Rear×1		∅ 343x140	∅ 343x140	∅ 343x140	∅ 343x140	∅ 343x140	∅ 343x140	∅ 343x140		30
Drive	31	Diver Motor	kw	6.4	6.4	6.4	6.4	6.4	6.4	6.4		31
	32	Pump Motor	kw	12.5	12.5	12.5	12.5	12.5	12.5	12.5		32
	33	Battery (Standard)	V/Ah	48/420	48/500	48/560	48/700	48/560	48/700	48/700		33
	34	Steering System		Electronic Power Steering	Electronic Power Steering	Electronic Power Steering	Electronic Power Steering	Electronic Power Steering	Electronic Power Steering	Electronic Power Steering		34
	35	Service Brake		Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake		35
	36	Controller Type		AC	AC	AC	AC	AC	AC	AC		36
	37	Controller Manufacturer		Curtis	Curtis	Curtis	Curtis	Curtis	Curtis	Curtis		37

MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	(Load Center Distance500mm) Load Capacity (kg)				Overall Height (mm)			Free Lift (mm)		Tilt Angle
							Lowered	Extended		Without Backrest	With Backrest	
			Without Backrest	With Backrest								
			FBR516-NQC5	FBR518-NQC5	FBR520-NQC5	FBR525-NQC5	1.6t/1.8t/2.0t/2.5t			1.6t/1.8t/2.0t/2.5t		
3-Stage Full Free Wide View Mast	RTFM470	4700	1600	1800	2000	2500	2229	5343	5678	1500	1245	2-4
	RTFM500	5000	1600	1800	2000	2400	2329	5643	5978	1600	1345	2-4
	RTFM550	5500	1600	1800	2000	2300	2529	6143	6478	1800	1545	2-4
	RTFM600	6000	1500	1650	1850	2200	2699	6643	6978	2050	1715	2-4
	RTFM650	6500	1400	1500	1700	2100	2899	7143	7478	2250	1915	2-4
	RTFM700	7000	1100	1200	1400	1800	3064	7643	7978	2415	2080	2-4
	RTFM750	7500	900	1000	1200	1500	3229	8143	8478	2580	2245	2-4
	RTFM800	8000	600	700	900	1300	3429	8643	8978	2780	2445	2-4
			FBR516-N1QC5	FBR518-N1QC5	FBR520-N1QC5		1.6t/1.8t/2.0t			1.6t/1.8t/2.0t		
	RTFM850	8500	700	1000	1200		3581	9130	9465	2945	2610	2-4
	RTFM900	9000	600	900	1100		3781	9630	9955	3140	2815	2-4
	RTFM950	9500	500	800	950		3951	10130	10455	3310	2985	2-4
	RTFM1000	10000	400	700	800		4151	10630	10955	3510	3185	2-4

