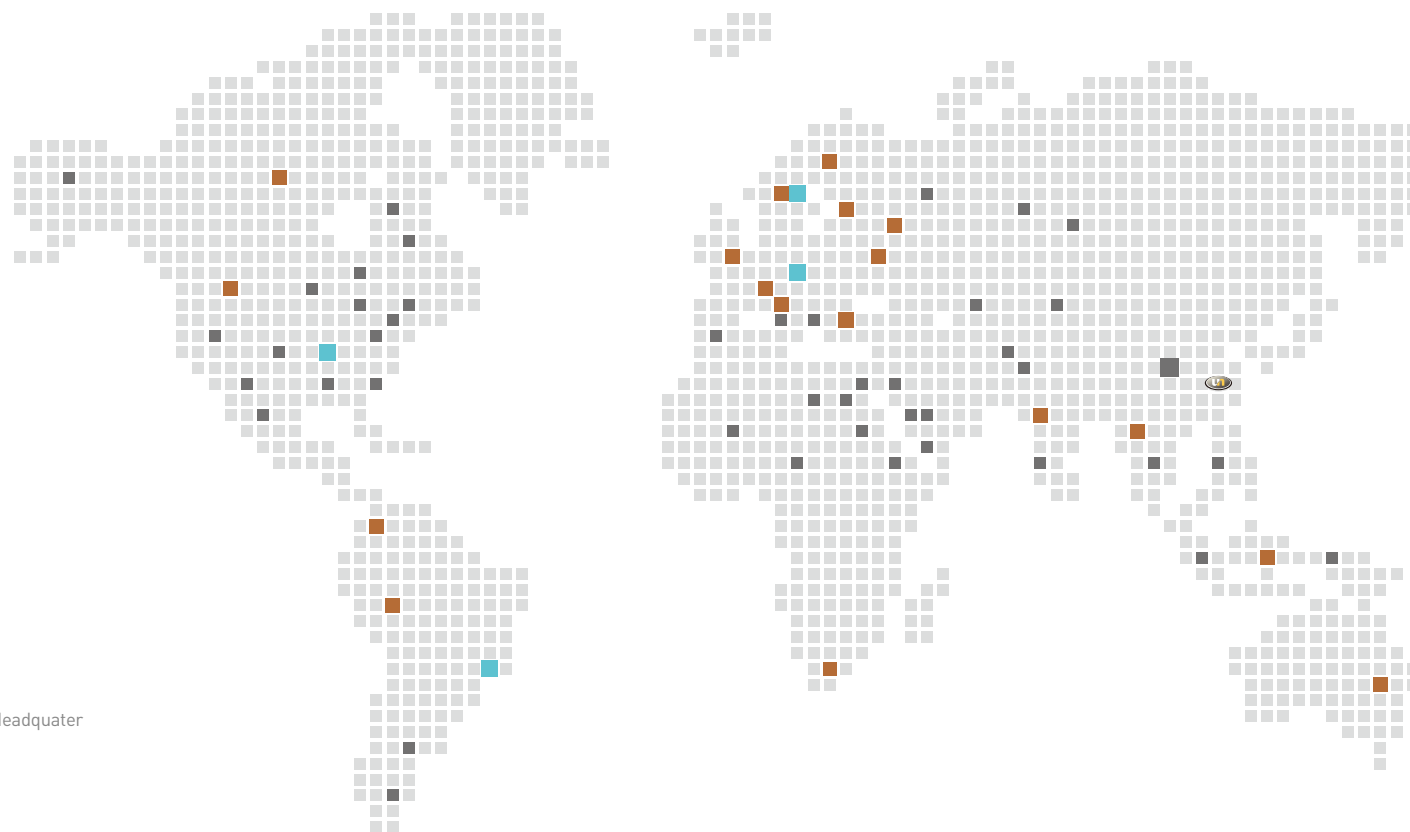




 Headquater



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**3-WHEEL
4-WHEEL**

***N SERIES ELECTRIC
FORKLIFT***



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EFFICIENT / ECONOMIC

THE UN FORKLIFT TRUCK



UN FORKLIFT

4-Wheel Electric Forklift

With capacities of 1.5 to 5.0 ton

UN 4-wheel electric forklifts are the most welcomed models due to the attractive appearance and excellent performance. With capacity from 1.5 ton to 5.0 ton, 4-wheel electric forklifts are well used for all kinds of applications especially warehouse.



ZAPI Controller



Curtis Controller

Safety

The strong overhead guard offers great protection combined with excellent all-round visibility. It can protect operators and strengthen the truck's structure.



High Performance

Regeneration Function: The battery will withdraw electricity automatically when decelerating or parking.

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.

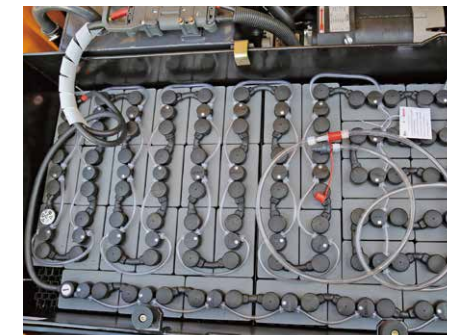
CAN bus communications network provides superior dependability.

Full AC system deliveries quiet ride and zero emission, reduces maintenance costs and enhances productivity.



Reliability

Adopts H-type axle design and low center of gravity by placing the battery deeper into the truck, which can enhance stability of the truck.



High capacity battery, easy to check and remove.

Comfort

Comfortable seat with larger seat-back angle provides maximum operator comfort. UN also has full suspension seat for option.



Water-resistant and dust-proof motor and controller: Provide excellent reliability even in wet weather.

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 and more convenient.

Product Features



Our small diameter steering wheel features a standard spinner knob to maximize maneuverability and operator confidence.



High strength mast and excellent visibility are desirable for safe operation. The panoramic mirror expands the driver's view when backing up.



Optimized pedal position: The position of accelerator has been optimized through human engineering.



Multifunctional Panel: Adopts streamline design with super wide LED screen which can display clear contents with abundant information, and can keep operator aware of truck conditions and enhance operator's safety.

Available Options

- Two stage full free mast
- Three stage full free mast
- Widen backrest or Carriage
- Side shift
- Solid tires
- Cabin
- Forks positioner
- Forks extensions
- Suspension seat
- Heater & Air conditioner
- LED lights
- OPS system
- Camera & display
- Mast top limited system
- Cold storage type
- 3rd Valve & Pipe
- 4th Valve & Pipe
- Attachments
- Automatic water filling system

3-Wheel Electric Forklift

With capacities of 1.3 to 2.0 ton

High-efficiency and newly matched AC motors and ZAPI controllers minimize energy loss, reduce heat generation greatly and lower energy consumption. This increases the operation time by 20%.

The compact body design and Pivot turning by the dual AC motors offer superior maneuverability in narrow worksites. Full AC system with ZAPI controller, and ZF transmission ensure a reliable performance.

Well known, reliable key parts and scientific design provide a great performance for material handling in a wide range of applications.



Side battery extraction system, the battery with fork pockets can be taken out from the right side of the truck by using a pallet truck.



Outstanding tight-turn performance for effective warehouse operations.

Smooth entry and exit for containers or low-height entranceways.



Double rear tires achieve stability during traveling and turning. It can also control the turn speed automatically according to the turning angle.

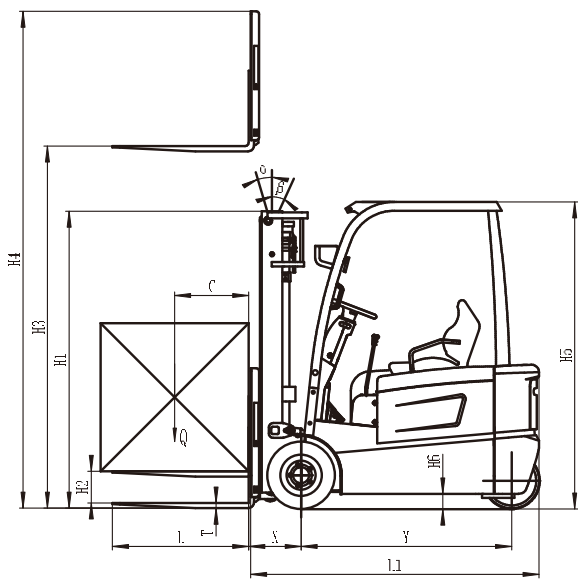
1.3-2.0 TON 3-WHEEL ELECTRIC FORKLIFT MAIN SPECIFICATIONS

Specification	1	Manufacturer	UN			
	2	Model	FBT13	FBT16	FBT18	FBT20
	3	Rated Load Capacity	Q(kg)	1300	1600	1800
	4	Load Centre	C(mm)	500	500	500
	5	Lift Height	H3(mm)	3000	3000	3000
	6	Free Lift	H2(mm)	100	100	100
	7	Fork Size (L×W×T)	L/W/T(mm)	920×120×35	920×120×35	1070X120X40
	8	F/B(α°/β°)	Deg	6°/6°	6°/6°	6°/6°
Dimension	9	Length (To Fork Face)	L1(mm)	1855	1955	2075
	10	Width	B1(mm)	1082	1082	1140
	11	Mast Lowered Height	H1(mm)	2085	2085	2085
	12	Mast Extended Height (With Backrest)	H4(mm)	4070	4070	4070
	13	Overhead Guard Height	H5(mm)	2080	2080	2080
	14	Turning Radius	Wa(mm)	1515	1615	1725
	15	Fork Overhang (Wheel Center to Fork Face)	X(mm)	412	412	412
	16	Front Tread	B2(mm)	922	922	922
	17	Rear Tread	B3(mm)	175	175	175
	18	Ground Clearance	H6(mm)	90	90	90
	19	Wheelbase	Y(mm)	1320	1420	1538
Performance	20	Fork Spread (Min/Max)	mm	200/1000	200/1000	200/1000
	21	Working Aisle Width With Pallet (1000×1200,1200 Lengthways)	As1(mm)	3190	3290	3410
	22	Working Aisle Width With Pallet (800×1200,800 Lengthways)	As1(mm)	3310	3410	3530
	23	Travel Speed (Full Load)	km/h	13	13	13
	24	Travel Speed (No Load)	km/h	14	14	14
	25	Lifting Speed (Full Load)	mm/s	300	290	250
	26	Lifting Speed (No Load)	mm/s	450	440	400
	27	Max.Gradeability (Full Load)	%	18	18	18
	28	Max.Gradeability (No Load)	%	20	20	20
	29	Total Weight (Contains the battery)	kg	2820	3100	3180
Drive	30	Tyre (Front x 2)		18X7-8	18X7-8	200/50-10
	31	Tyre (Rear x 2)		15X4.5-8	15X4.5-8	15X4.5-8
	32	Diver Motor	kw	4X2	4X2	4X2
	33	Pump Motor	kw	11	11	11
	34	Battery (Standard)	V/Ah	48/500	48/500	48/625
	35	Controller Type		AC	AC	AC
	36	Controller Manufacturer		ZAPI	ZAPI	ZAPI
	37	Operating Pressure	Mpa	14.5	14.5	14.5

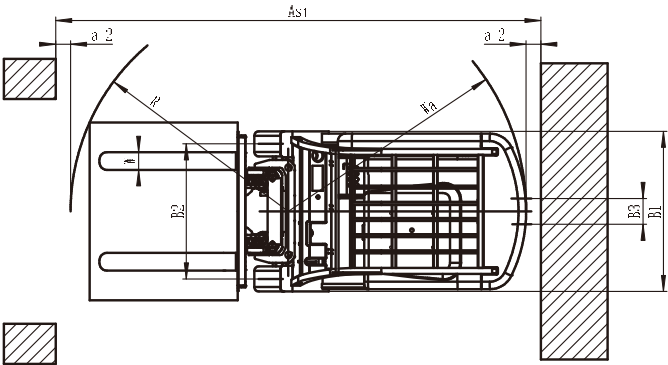
1.3-2.0 TON 3-WHEEL MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)				Overall Height (mm)			Free Lift (mm)		Tilt Angle	Total Weight (kg)				
							Lowered	Extended									
			FBT13	FBT16	FBT18	FBT20		1.3t/1.6t/1.8t/2.0t	1.3t/1.6t/1.8t/2.0t		Without Backrest		With Backrest	Without Backrest	With Backrest	FBT13	FBT16
Wide View Mast	SM200	2000	1300	1600	1800	2000	1585		2645	3170	100	100	6-6	2745	3022	3105	3260
	SM250	2500	1300	1600	1800	2000	1835		3045	3570	100	100	6-6	2795	3072	3155	3310
	SM270	2700	1300	1600	1800	2000	1935		3245	3770	100	100	6-6	2805	3085	3165	3325
	SM300	3000	1300	1600	1800	2000	2085		3545	4070	100	100	6-6	2820	3100	3180	3345
	SM330	3300	1300	1600	1800	2000	2235		3845	4370	100	100	6-6	2835	3115	3195	3365
	SM350	3500	1300	1600	1800	2000	2335		4045	4570	100	100	6-6	2845	3125	3205	3380
	SM370	3700	1300	1600	1800	2000	2435		4245	4770	100	100	6-6	2855	3135	3215	3395
	SM400	4000	1300	1600	1800	2000	2635		4545	5070	100	100	3-5	2885	3165	3245	3420
	SM430	4300	1200	1500	1700	1900	2785		4845	5370	100	100	3-5	2895	3175	3255	3440
	SM450	4500	1100	1400	1600	1800	2885		5045	5570	100	100	3-5	2910	3190	3270	3455
	SM470	4700	1000	1250	1500	1700	2985		5245	5770	100	100	3-5	2930	3210	3350	3500
	SM500	5000	900	1100	1300	1400	3185		5545	6070	100	100	3-5	2950	3240	3380	3530
	SM550	5500	700	950	1100	1200	3435		6045	6570	100	100	3-5	3000	3290	3430	3580
	SM600	6000	500	750	900	1000	3685		6545	7070	100	100	3-5	3050	3340	3480	3630
2-Stage Full Free Wide View Mast	SFM200	2000	1300	1600	1800	2000	1585		2540	3065	1000	525	6-6	2885	3165	3245	3435
	SFM250	2500	1300	1600	1800	2000	1835		2990	3515	1200	775	6-6	2935	3215	3295	3485
	SFM270	2700	1300	1600	1800	2000	1935		3190	3715	1300	875	6-6	2950	3230	3310	3500
	SFM300	3000	1300	1600	1800	2000	2085		3540	4065	1500	1025	6-6	2965	3245	3325	3520
	SFM330	3300	1300	1600	1800	2000	2235		3890	4415	1700	1175	6-6	2980	3260	3340	3540
	SFM350	3500	1300	1600	1800	2000	2335		4040	4565	1750	1275	6-6	2990	3270	3350	3555
	SFM370	3700	1300	1600	1800	2000	2435		4190	4715	1800	1375	6-6	3000	3280	3360	3570
	SFM400	4000	1300	1600	1800	2000	2685		4540	5065	2000	1625	3-5	3010	3290	3380	3590
3-Stage Full Free Wide View Mast	STFM370	3700	1300	1600	1800	2000	1835		4245	4770	1200	775	3-5	3075	3345	3425	3615
	STFM400	4000	1300	1600	1800	2000	1935		4545	5070	1300	875	3-5	3095	3365	3445	3635
	STFM430	4300	1200	1500	1700	1900	2035		4845	5370	1400	975	3-5	3105	3385	3465	3655
	STFM450	4500	1100	1400	1600	1800	2085		5045	5570	1500	1025	3-5	3115	3395	3475	3670
	STFM470	4700	1000	1300	1500	1550	2135		5245	5770	1600	1075	3-5	3130	3410	3490	3685
	STFM500	5000	950	1250	1450	1500	2235		5545	6070	1700	1175	3-5	3140	3420	3500	3705
	STFM550	5500	850	1150	1200	1300	2435		6045	6570	1800	1375	3-5	3165	3445	3525	3735
	STFM600	6000	750	1050	1100	1200	2635		6545	7070	2000	1575	3-5	3215	3495	3575	3785
STFM650	6500	650	950	1000	1100	2785		7045	7570	2200	1725	3-5	3245	3525	3600	3810	

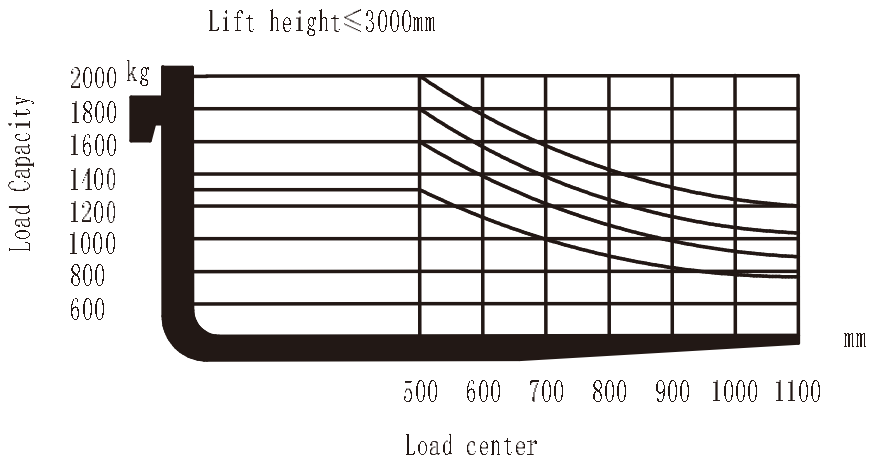
Note: With Separated Side shifter, load capacity subtract 150Kg, With Integrated side shifter, load capacity subtract 50Kg.



a=200mm Safety clearance
As1=11a-R-a

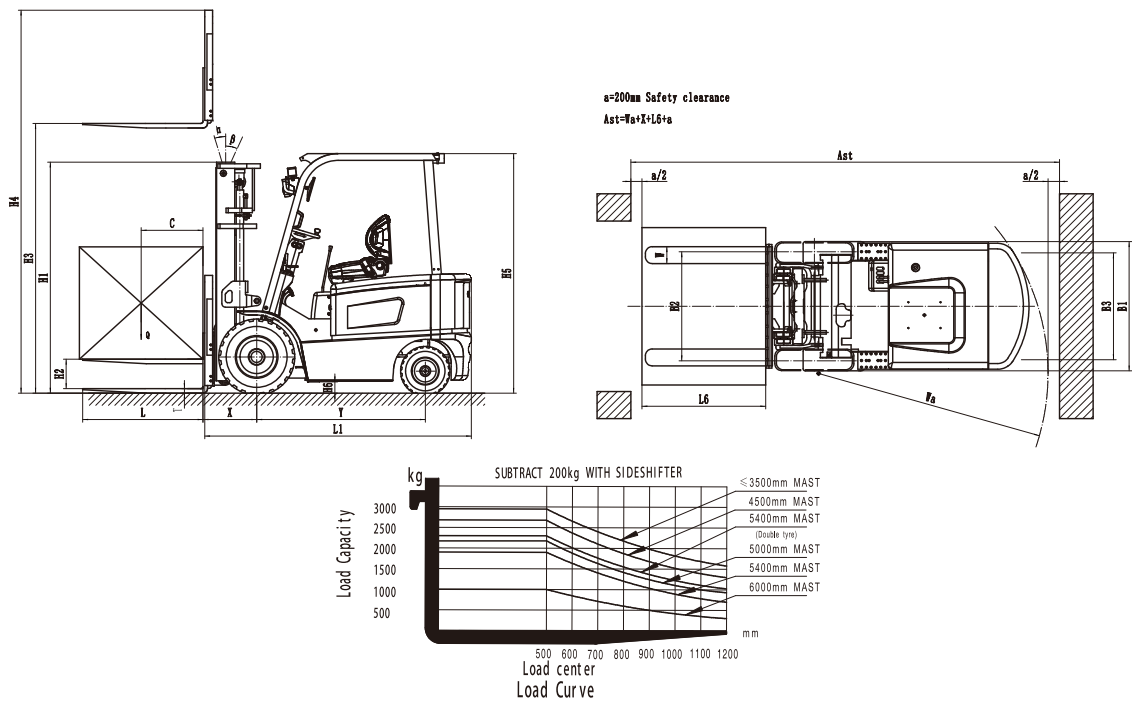


Load chart



1.5-3.5 TON 4-WHEEL ELECTRIC FORKLIFT MAIN SPECIFICATIONS

Specification	1	Manufacturer		UN				
	2	Model		FB15	FB20	FB25	FB30	FB35
	3	Rated Load Capacity	Q(kg)	1500	2000	2500	3000	3500
	4	Load Centre	C(mm)	500	500	500	500	500
	5	Lift Height	H3(mm)	3000	3000	3000	3000	3000
	6	Free Lift	H2(mm)	100	100	100	100	100
	7	Fork Size (L×W×T)	L/W/T(mm)	920×120×35	1070×120×40	1070×120×40	1070×125×45	1070×125×45
	8	F/B(α°/β°)	Deg	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°
Dimension	9	Length (To Fork Face)	L1(mm)	2150	2380	2380	2475	2535
	10	Width	B1(mm)	1090	1150	1150	1225	1225
	11	Mast Lowered Height	H1(mm)	2025	2055	2055	2070	2070
	12	Mast Extended Height (With Backrest)	H4(mm)	4055	4070	4070	4070	4070
	13	Overhead Guard Height	H5(mm)	2125	2125	2125	2125	2125
	14	Turning Radius	Wa(mm)	1995	2080	2080	2215	2280
	15	Fork Overhang (Wheel Center to Fork Face)	X(mm)	409	478	478	485	485
	16	Front Tread	B2(mm)	890	970	970	1000	1000
	17	Rear Tread	B3(mm)	920	950	950	980	980
	18	Ground Clearance	H6(mm)	110	120	120	130	130
	19	Wheelbase	Y(mm)	1380	1500	1500	1600	1600
	20	Fork Spread (Min/Max)	mm	240/970	250/1040	250/1040	250/1100	250/1100
	21	Working Aisle Width With Pallet (1000×1200,1200 Lengthways)	As1(mm)	3605	3830	3830	3970	4035
	22	Working Aisle Width With Pallet (800×1200,800 Lengthways)	As1(mm)	3805	3960	3960	4100	4165
Performance	23	Travel Speed (Full Load)	km/h	12	12	12	12	12
	24	Travel Speed (No Load)	km/h	13	13	13	13	13
	25	Lifting Speed (Full Load)	mm/s	280	300	300	280	280
	26	Lifting Speed (No Load)	mm/s	380	420	420	440	440
	27	Max.Gradeability (Full Load)	%	16	18	18	16	12
	28	Max.Gradeability (No Load)	%	18	20	20	18	13
	29	Total Weight (Include Battery Box)	kg	3060	4160	4420	5160	5420
	30	Tyre (Front x 2)		6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	28×9-15-12PR	28×9-15-12PR
	31	Tyre (Rear x 2)		5.00-8-8PR	18×7-8-14PR	18×7-8-14PR	18×7-8-14PR	18×7-8-14PR
	Drive	32	Diver Motor	kw	7.5	11	11	12
33		Pump Motor	kw	10	12	12	13.5	13.5
34		Battery (Standard)	V/Ah	48/450	48/620	48/620	80/500	80/500
		Li-ion battery	V/Ah	51.2/300	51.2/405	51.2/405	83.2/405	83.2/405
35		Controller Type		AC	AC	AC	AC	AC
36		Controller Manufacturer		ZAPI	ZAPI	ZAPI	ZAPI	ZAPI
37	Operating Pressure	Mpa	14.5	17.5	17.5	17.5	17.5	



1.5 TON 4-WHEEL MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)	Overall Height (mm)			Free Lift (mm)		Tilt Angle
				Lowered	Extended				
					Without Backrest	With Backrest			
						FB15	1.5t		
Wide View Mast	BM200	2000	1500	1525	2575	3055	100	100	6-12
	BM250	2500	1500	1775	3075	3555	100	100	6-12
	BM270	2700	1500	1875	3275	3755	100	100	6-12
	BM300	3000	1500	2025	3575	4055	100	100	6-12
	BM330	3300	1500	2175	3875	4355	100	100	6-12
	BM350	3500	1500	2275	4075	4555	100	100	6-12
	BM370	3700	1500	2375	4275	4755	100	100	6-6
	BM400	4000	1500	2575	4575	5055	100	100	6-6
	BM430	4300	1300	2725	4875	5355	100	100	6-6
	BM450	4500	1250	2825	5075	5555	100	100	6-6
	BM470	4700	1100	2925	5275	5755	100	100	6-6
	BM500	5000	950	3125	5575	6055	100	100	6-6
	BM550	5500	800	3375	6075	6555	100	100	3-6
	BM600	6000	500	3625	6575	7055	100	100	3-6
2-Stage Full Free Wide View Mast	BFM200	2000	1500	1525	2570	3050	960	480	6-12
	BFM250	2500	1500	1775	3020	3500	1200	730	6-12
	BFM270	2700	1500	1875	3220	3700	1300	830	6-12
	BFM300	3000	1500	2025	3570	4050	1460	980	6-12
	BFM330	3300	1500	2175	3920	4400	1610	1130	6-12
	BFM350	3500	1500	2275	4070	4550	1710	1230	6-12
	BFM370	3700	1500	2375	4220	4700	1800	1330	6-6
	BFM400	4000	1500	2625	4570	5050	2000	1580	6-6
3-Stage Full Free Wide View Mast	BTFM370	3700	1500	1825	4270	4735	1200	800	6-6
	BTFM400	4000	1500	1925	4570	5035	1300	900	6-6
	BTFM430	4300	1250	2025	4870	5335	1400	1000	6-6
	BTFM450	4500	1200	2075	5070	5535	1500	1050	6-6
	BTFM470	4700	1180	2125	5270	5735	1565	1100	6-6
	BTFM500	5000	900	2225	5570	6035	1665	1200	6-6
	BTFM550	5500	800	2425	6070	6535	1800	1400	3-6
	BTFM600	6000	600	2625	6570	7035	2000	1600	3-6

Note: With Separated Side shifter, load capacity subtract 150Kg, With Integrated side shifter, load capacity subtract 50Kg.

2.0-2.5 TON 4-WHEEL MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)		Overall Height (mm)			Free Lift (mm)		Tilt Angle
					Lowered	Extended				
					FB20	FB25	2.0t/2.5t			
Wide View Mast	BM200	2000	2000	2500	1550	2580	3070	100	100	6-12
	BM250	2500	2000	2500	1805	3080	3570	100	100	6-12
	BM270	2700	2000	2500	1905	3280	3770	100	100	6-12
	BM300	3000	2000	2500	2055	3580	4070	100	100	6-12
	BM330	3300	2000	2500	2205	3880	4370	100	100	6-12
	BM350	3500	2000	2500	2305	4080	4570	100	100	6-12
	BM370	3700	2000	2450	2405	4280	4770	100	100	6-6
	BM400	4000	2000	2400	2605	4580	5070	100	100	6-6
	BM430	4300	1850	2250	2755	4880	5370	100	100	6-6
	BM450	4500	1800	2150	2855	5080	5570	100	100	6-6
	BM470	4700	1700	1900	2955	5280	5770	100	100	6-6
	BM500	5000	1600	1600	3155	5580	6070	100	100	6-6
	BM550	5500	1500	1500	3405	6080	6570	100	100	3-6
	BM600	6000	950	950	3655	6580	7070	100	100	3-6
2-Stage Full Free Wide View Mast	BFM200	2000	2000	2500	1570	2605	3068	970	507	6-12
	BFM250	2500	2000	2500	1820	3055	3518	1200	757	6-12
	BFM270	2700	2000	2500	1920	3255	3718	1300	857	6-12
	BFM300	3000	2000	2500	2070	3605	4068	1470	1007	6-12
	BFM330	3300	2000	2500	2220	3955	4418	1620	1157	6-12
	BFM350	3500	2000	2500	2320	4105	4568	1720	1257	6-12
	BFM370	3700	2000	2450	2420	4255	4718	1800	1357	6-6
	BFM400	4000	2000	2400	2670	4605	5068	2000	1607	6-6
3-Stage Full Free Wide View Mast	BTFM370	3700	2000	2500	1845	4307	4770	1200	785	6-6
	BTFM400	4000	1900	2400	1945	4607	5070	1300	885	6-6
	BTFM430	4300	1850	2200	2045	4907	5370	1400	985	6-6
	BTFM450	4500	1750	2100	2095	5107	5570	1498	1035	6-6
	BTFM470	4700	1720	2000	2145	5307	5770	1548	1085	6-6
	BTFM500	5000	1600	1600	2245	5607	6070	1648	1185	6-6
	BTFM550	5500	1500	1500	2445	6107	6570	1800	1385	3-6
	BTFM600	6000	950	950	2645	6607	7070	2000	1585	3-6
	BTFM650	6500	600	600	2895	7107	7570	2200	1835	3-6
	BTFM700	7000	400	400	3095	7607	8070	2300	2035	3-6

Note: With Separated Side shifter, load capacity subtract 200Kg, With Integrated side shifter, load capacity subtract 50Kg.

3.0-3.5 TON 4-WHEEL MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)		Overall Height (mm)			Free Lift (mm)		Tilt Angle
					Lowered	Extended				
					FB30	FB35	3.0t/3.5t			
Wide View Mast	BM200	2000	3000	3500	1570	2595	3070	100	100	6-12
	BM250	2500	3000	3500	1820	3095	3570	100	100	6-12
	BM270	2700	3000	3500	1920	3295	3770	100	100	6-12
	BM300	3000	3000	3500	2070	3595	4070	100	100	6-12
	BM330	3300	3000	3500	2220	3895	4370	100	100	6-12
	BM350	3500	3000	3500	2320	4095	4570	100	100	6-12
	BM370	3700	3000	3500	2420	4295	4770	100	100	6-6
	BM400	4000	3000	3500	2620	4595	5070	100	100	6-6
	BM430	4300	2800	3300	2770	4895	5370	100	100	6-6
	BM450	4500	2700	3200	2870	5095	5570	100	100	6-6
	BM470	4700	2500	3000	2970	5295	5770	100	100	6-6
	BM500	5000	2200	2700	3170	5595	6070	100	100	6-6
	BM550	5500	2000	2500	3420	6095	6570	100	100	3-6
	BM600	6000	1300	1800	3670	6595	7070	100	100	3-6
2-Stage Full Free Wide View Mast	BFM200	2000	3000	3500	1570	2590	3065	882	407	6-12
	BFM250	2500	3000	3500	1820	3040	3515	1132	657	6-12
	BFM270	2700	3000	3500	1920	3240	3715	1232	757	6-12
	BFM300	3000	3000	3500	2070	3590	4065	1382	907	6-12
	BFM330	3300	3000	3500	2220	3940	4415	1532	1057	6-12
	BFM350	3500	3000	3500	2320	4090	4565	1632	1157	6-12
	BFM370	3700	3000	3500	2420	4240	4715	1732	1257	6-6
	BFM400	4000	3000	3500	2670	4590	5065	1982	1507	6-6
3-Stage Full Free Wide View Mast	BTFM370	3700	3000	3500	1860	4400	4875	1172	697	6-6
	BTFM400	4000	2800	3500	1960	4700	5175	1272	797	6-6
	BTFM430	4300	2700	3200	2060	5000	5475	1372	897	6-6
	BTFM450	4500	2600	3100	2110	5200	5675	1422	947	6-6
	BTFM470	4700	2500	3000	2160	5400	5875	1472	997	6-6
	BTFM500	5000	2100	2600	2260	5700	6175	1572	1097	6-6
	BTFM550	5500	2000	2500	2460	6200	6675	1772	1297	3-6
	BTFM600	6000	1300	1800	2660	6700	7175	1972	1497	3-6
	BTFM650	6500	900	1400	2910	7200	7675	2200	1747	3-6
	BTFM700	7000	700	1200	3110	7700	8175	2300	1947	3-6

Note: With Separated Side shifter, load capacity subtract 200Kg, With Integrated side shifter, load capacity subtract 50Kg.

4.0-5.0 TON 4-WHEEL MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)		Overall Height (mm)			Free Lift (mm)		Tilt Angle
					Lowered	Extended		Free Lift (mm)		
						Without Backrest	With Backrest	Without Backrest	With Backrest	
			FB40/45	FB50	4.0t/4.5t/5.0t			4.0t/4.5t/5.0t		
Wide View Mast	BM300	3000	4500	5000	2250	3730	4260	84	84	6-9
	BM330	3300	4500	5000	2400	4030	4560	84	84	6-9
	BM350	3500	4500	5000	2500	4230	4760	84	84	6-9
	BM370	3700	4500	4850	2600	4430	4960	84	84	6-9
	BM400	4000	4500	4650	2800	4730	5260	84	84	6-6
	BM430	4300	4200	4300	2950	5030	5560	84	84	6-6
	BM450	4500	4000	4200	3050	5230	5760	84	84	6-6
	BM470	4700	3600	3700	3150	5430	5960	84	84	6-6
	BM500	5000	3400	3550	3300	5730	6260	84	84	6-6
	BM550	5500	2700	2700	3550	6230	6760	84	84	6-6
	BM600	6000	2400	2400	3850	6730	7260	84	84	6-6
3-Stage Full Free Wide View Mast	BTFM400	4000	4300	4600	2236	4830	5160	1406	1079	6-6
	BTFM435	4350	3800	4100	2359	5179	5505	1525	1202	6-6
	BTFM450	4500	3700	4000	2410	5332	5658	1576	1253	6-6
	BTFM470	4700	3300	3600	2476	5530	5856	1642	1319	6-6
	BTFM500	5000	3100	3400	2609	5830	6155	1775	1452	6-6
	BTFM550	5500	2600	2900	2767	6323	6650	1933	1610	3-6
	BTFM600	6000	2000	2300	2974	6824	7150	2140	1817	3-6