

TCM

FB-VIII SERIES

ELECTRIC COUNTERBALANCED FORKLIFT TRUCKS



1.0-3.5tons

Class 1 - sit-down type

SPECIFICATIONS

STANDARD SPECIFICATIONS

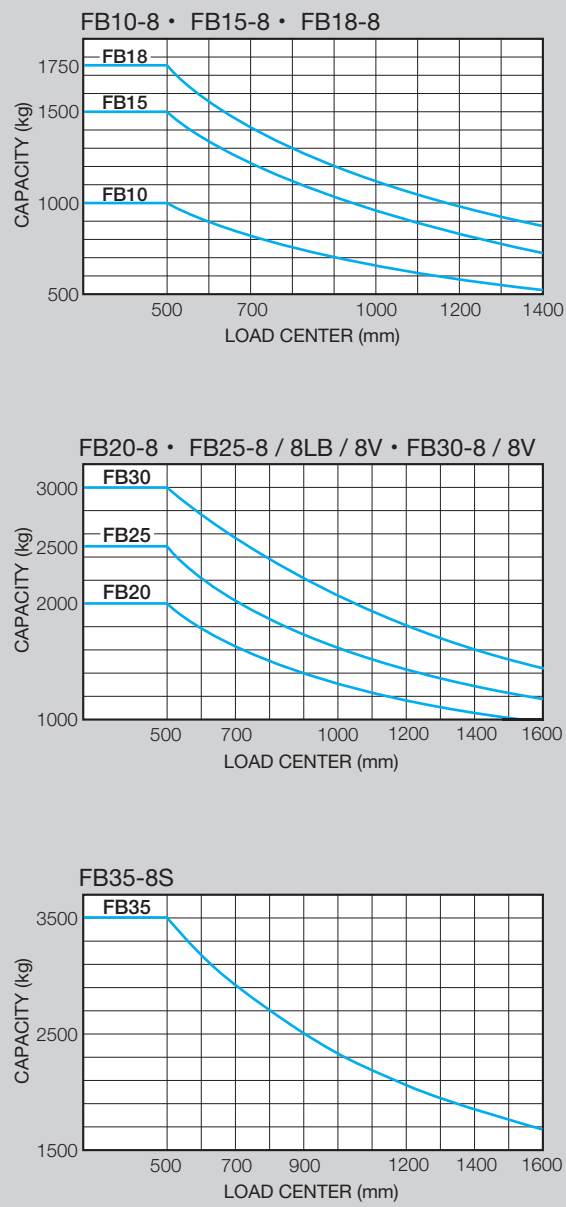
Characteristics	1	Manufacturer				TCM				
	2	Model				FB10-8	FB15-8	FB18-8	FB20-8	FB25-8
	3	Load Capacity			kg	1000	1500	1750	2000	2500
	4	Load Center			mm	500				
	5	Power Type				Battery				
	6	Control Type				Sit - Down Rider Type				
	7	Tire Type	Front / Rear			Pneumatic				
	8	Wheels (X = driven)	Front / Rear			2 x / 2				
Dimensions	9	Maximum Fork Height			mm	3000				
	10	Free Lift			mm	155			110	
	13	Fork Size	L x W x T		mm	920 x 100 x 35			1070 x 122 x 40	
	14	Tilt Angle	Fwd / Bwd		deg	6 / 12				
	15	Length to Fork Face			mm	1955		2055	2245	2285
	16	Overall Width			mm	1070			1150	
	17	Mast Height Fork Lowered			mm	1995			2030	
	18	Overall Height Fork Raised			mm	4030				
	19	Overhead Guard Height			mm	2080 (2140 ⁴⁾)			2125 (2185 ⁴⁾)	
	21	Turning Radius (Outside)			mm	1800 (1700 ⁵⁾)		1890 (1790 ⁵⁾)	2070 (1950 ⁵⁾)	2100 (1970 ⁵⁾)
	22	Fork Overhang(Centerline of front axle to front face of forks)			mm	375			435	
23	Right Angle Stacking Aisle with pallet 1100 x 1100mm (clearance = 200 mm)			mm	3475		3565	3805	3835	
Performance	24	Speeds	Travel Max. ¹⁾ (Fwd / Rvs.)	With Load	km/h	14.0				
	Without Load			km/h	16.0					
	Lifting ¹⁾		With Load	mm/s	390	350	330	290	265	
			Without Load	mm/s	580			510		
	Lowering		With Load	mm/s	430			450		
			Without Load	mm/s	520			500		
27	Max. Drawbar Pull ²⁾	momentary / continuous		kN	7.5 / 3.0			8.9 / 3.5		
29	Gradeability ²⁾	with / without Load		%	14.3 / 20.0			14.3 / 16.7		
Weight	32	Total Weight (without battery)			kg	2030	2050	2100	2700	3030
	33	Weight Distribution (with STD capacity battery)	With Load	Front	kg	2900	3720	4200	4800	5620
	Rear			kg	780	490	580	700	790	
	34		Without Load	Front	kg	1200	1170	1320	1460	1450
Rear				kg	1480	1540	1710	2040	2460	
Chassis	35	Tires	Number	Front / Rear		2 / 2				
	Size		Front		6.00 - 9 - 10PR		6.00-9-12PR	21 x 8 - 9 - 16PR		
			Rear		16 x 6 - 8 - 10PR			18 x 7 - 8 - 14PR		
	38	Wheelbase			mm	1250		1350	1400	
	39	Tread		Front	mm	910			955	
				Rear	mm	900			950	
	40	Ground clearance	at lowest point		mm	90			100	
	41		Frame		mm	95			115	
	42	Brake	Service			Hydraulic - Foot pedal				
			Parking			Mechanical - Hand lever				
Electric Motors and Control	45	Battery ³⁾ (STD capacity type)	Voltage / Capacity(5-hour rating)		V / AH	48 / 330	48 / 400		48 / 450	48 / 565
	Weight with case		kg	650	660	930	800	880		
	48	Electric Motors	Drive motor(AC)		kW / 60min.	6.9			8.5	
			Hydraulic motor(AC)		kW / 5min.	8.6			9.0	
			Steering mornor(DC)		kW / 60min.	0.35			0.55	
	54	Control Type	Drive			FET inverter				
			Load handling			FET inverter				
			Power steering			FET chopper				
57	Operating Pressure ⁵⁾		For Attachment	MPa(kg/cm ²)	14.2 (145) ⁶⁾		15.7 (160) ⁶⁾	17.2 (175)		

NOTE: 1) Above figures are measured at "Super-mode" operation 2) Computed Values 3) Batteries are optional equipment 4) For European and Scandinavian export trucks 5) Figures are given for trucks with optional EPS 6) Fingertip control - 17.2MPa(175kg/cm²)

STANDARD SPECIFICATIONS

TCM				
FB25-8LB	FB25-8V	FB30-8	FB30-8V	FB35-8S
2500		3000		3500
500				
Battery				
Sit - Down Rider Type				
Pneumatic				Pneumatic/SE
2 x / 2				
3000				
110		165		170
1070 x 122 x 40		1070 x 125 x 45		1070 x 150 x 50
6 / 12				6 / 10
2390		2510		2735
1150		1225		1380
2180	2030	2075		2135
4030		4260		4260
2250	2100	2190 (2250 ⁴⁾)	2100	2190 (2250 ⁴⁾)
2200 (2065 ⁵⁾)		2290 (2140 ⁵⁾)		2500 (2360 ⁵⁾)
435		480		500
3935		4070		4300
13.5		14.0		
15.5		15.0		
265		290		240
510		490		410
450				
500		450		
8.9 / 3.5		10.0 / 4.0		
12.5 / 16.7		12.5 / 16.7		10.0 / 16.7
2960	2965	3530		4015
5780	5740	6720		7750
1120	1050	920		990
1760	1720	1885		2310
2460	2570	2775		2930
2 / 2				
21 x 8 - 9 - 16PR		28 x 9 - 15 - 14PR		250 - 15 - 16PR
18 x 7 - 8 - 14PR		18 x 7 - 8 - 14PR		18 x 7 - 8 (SE)
1545		1600		1800
955		1000		1140
950				
100		90		
115		120		
Hydraulic - Foot pedal				
Mechanical - Hand lever				
48 / 935	48 / 865	72 / 450		72 / 450
1440	1325	1110		1225
8.5		11.9		
9.0		14.0		
0.55				
FET inverter				
FET inverter				
FET chopper				
17.2 (175)				

LOAD CHART



NOTES: ● Meets following major industrial standards and code:
ISO 1074 Counter balanced lift trucks, stability & safety tests
ISO 3691 Powerd industrial trucks-safety code
ISO/DIS 3691 Travel & loading interlock
ISO 6292 Powerd industrial trucks brake performance and component strength
ISO 6055 Overhead guard
JIS D6001 Powerd industrial trucks - safety code
JIS D6011 Industrial trucks - stability & safety tests
JIS D6021 Overhead guard
JIS D6023 Industrial trucks brake performance & Safety tests
● In conformity with provision of the Machinery Directive 98/37/EC, as amended, and with National implementing legislation (for EXE/EXN configuration)

WIDE VIEW MAST

Wide View Mast VM

Mast Model	Capacity at 500mm : Load Center						Max. Fork Height	Overall Mast Height		Tilting Angle	Service Weight (with battery)			
	FB10-8	FB10-8 (Unique)	FB15-8	FB15-8 (Unique)	FB18-8	FB18-8 (Unique)		Lowered	Raised with Backrest		FWD / BWD	FB10-8	FB15-8	FB18-8
	kg	kg	kg	kg	kg	kg		mm	mm		mm	deg	kg	kg
VM200	1000	1000	1500	1500	1750	1750	2000	1495	3030	6-10	2620	2650	2970	
VM250	1000	1000	1500	1500	1750	1750	2500	1745	3530	6-10	2650	2680	3000	
VM270	1000	1000	1500	1500	1750	1750	2700	1845	3730	6-10	2665	2695	3015	
VM300	1000	1000	1500	1500	1750	1750	3000	1995	4030	6-12	2680	2710	3030	
VM330	1000	1000	1500	1500	1750	1750	3300	2145	4330	6-12	2700	2730	3050	
VM350	1000	1000	1500	1500	1750	1750	3500	2245	4530	6-12	2710	2740	3060	
VM370	1000	1000	1500	1500	1750	1750	3700	2345	4730	6-6 *6-12	2725	2755	3075	
VM400	1000	1000	1500	1500	1650 *1750	1650	4000	2545	5030	6-6 *6-12	2795	2825	3145	
VM450	950	950	1400	1400	1500 *1650	1500	4500	2795	5530	6-6 *6-12	2825	2855	3175	
VM500	850 *900	850	1000 *1350	1200	1000 *1500	1300	5000	3045	6030	6-6 *6-6	2860	2890	3210	
VM550	*650	—	*1100	—	*1300	—	5500	3345	6530	*3-6	2940	2970	3290	
VM600	*550	—	*800	—	*1000	—	6000	3595	7030	*3-6	2970	3000	3320	

NOTE: The load chart for trucks with "Unique" solid tires is a special-order item.

Wide View Full Free 2-stage Mast VFM

Mast Model	Capacity at 500mm : Load Center						Max. Fork Height	Overall Mast Height		(2)Free lift with Backrest	Tilting Angle	(3)Service Weight (with battery)		
	FB10-8	FB10-8 (Unique)	FB15-8	FB15-8 (Unique)	FB18-8	FB18-8 (Unique)		Lowered	(1)Raised with Backrest			FB10-8	FB15-8	FB18-8
	kg	kg	kg	kg	kg	kg		mm	mm		deg	kg	kg	kg
VFM200	1000	1000	1500	1500	1750	1750	2000	1495	3030	490	6-10	2680	2710	3030
VFM250	1000	1000	1500	1500	1750	1750	2500	1745	3530	740	6-10	2715	2745	3065
VFM270	1000	1000	1500	1500	1750	1750	2700	1845	3730	840	6-10	2730	2760	3080
VFM300	1000	1000	1500	1500	1750	1750	3000	1995	4030	990	6-12	2750	2780	3100
VFM330	1000	1000	1500	1500	1750	1750	3300	2145	4330	1140	6-12	2750	2780	3100
VFM350	1000	1000	1500	1500	1750	1750	3500	2245	4530	1240	6-12	2765	2795	3115
VFM370	1000	1000	1500	1500	1750	1750	3700	2345	4730	1340	6-6 *6-12	2775	2805	3125
VFM400	1000	1000	1500	1500	1650 *1750	1650	4000	2545	5030	1540	6-6 *6-12	2850	2880	3200
VFM450	950	950	1400	1400	1500 *1650	1500	4500	2795	5530	1790	6-6 *6-12	2885	2915	3235
VFM500	850 *900	850	1000 *1350	1200	1000 *1500	1300	5000	3045	6030	2040	6-6 *6-6	2920	2950	3270

NOTE: (1) For height without backrest: ~470mm (2) For free lift without backrest: +470mm (3) Weight for without backrest: ~15kg
The load chart for trucks with "Unique" solid tires is a special-order item.

Wide View Full Free 3-stage Mast VFHM

Mast Model	Capacity at 500mm : Load Center						Max. Fork Height	Overall Mast Height		(2)Free lift with Backrest	Tilting Angle	(3)Service Weight (with battery)		
	FB10-8	FB10-8 (Unique)	FB15-8	FB15-8 (Unique)	FB18-8	FB18-8 (Unique)		Lowered	(1)Raised with Backrest			FB10-8	FB15-8	FB18-8
	kg	kg	kg	kg	kg	kg		mm	mm		deg	kg	kg	kg
VFHM360	950	950	1400	1400	1600	1600	3600	1745	4630	740	6-6	2810	2840	3160
VFHM400	900	900	1400	1400	1600	1600	4000	1870	5030	865	6-6	2835	2865	3185
VFHM435	900	900	1350 *1400	1400	1500 *1600	1500	4350	1995	5380	990	6-6 *6-6	2855	2885	3205
VFHM480	850	850	1300 *1350	1350	1400 *1550	1400	4800	2145	5830	1140	6-6 *6-6	2885	2915	3235
VFHMS500	800	800	1100 *1300	1150	1150 *1500	1300	5000	2245	6030	1240	6-6 *6-6	2900	2930	3250
VFHMS550	650 *800	700	800 *1200	1100	850 *1350	1150	5500	2410	6530	1405	3-6 *3-6	2930	2960	3280
VFHM600	450 *750	500	550 *1100	750	550 *1250	800	6000	2595	7030	1590	3-6 *3-6	3015	3045	3365

NOTE: (1) For height without backrest: -470mm (2) For free lift without backrest: +470mm (3) Weight for without backrest: -15kg
The load chart for trucks with "Unique" solid tires is a special-order item.

NOTE: Rated capacity with (*): Shows capacity with front dual tires . Service weight with dual tires: +40kg with dual tires (4.50-12-8PR"J"). Service weight of VM550-600 represents the weight of vehicles equipped with "dual tires".

Lifting speed with VFM/VFHM mast:	with VFM	(1t model)	325mm/s with load.	500mm/s without load.
		(1.5t model)	285mm/s with load.	500mm/s without load.
		(1.8t model)	260mm/s with load.	500mm/s without load.
	with VFHM	(1t model)	335mm/s with load.	520mm/s without load.
		(1.5t model)	295mm/s with load.	520mm/s without load.
		(1.8t model)	280mm/s with load.	520mm/s without load.

Lowering speed with VFM/VFHM mast: 400mm/s with load. 380mm/s without load.

Overall vehicle length with VFM mast: +10mm longer than of standard model with VM mast. with VFHM mast: +20mm longer than of standard model with VM mast.

Wide View Mast VM

Mast Model	Capacity at 500mm : Load Center						Max. Fork Height	Overall Mast Height		Tilting Angle	Service Weight (with battery)				
	FB20-8	FB20-8 (Unique)	FB25-8 FB25-8LB FB25-8V	FB25-8 FB25-8LB FB25-8V (Unique)	FB30-8 FB30-8V	FB30-8 FB30-8V (Unique)		(1)Lowered	(2)Raised with Backrest		FB20-8	FB25-8	FB25-8LB	FB25-8V	FB30-8 FB30-8V
	kg	kg	kg	kg	kg	kg		mm	mm		deg	kg	kg	kg	kg
VM200	2000	2000	2500	2500	3000	3000	2000	1495	3030	6-10	3425	3835	4305	4215	4560
VM250	2000	2000	2500	2500	3000	3000	2500	1745	3530	6-10	3460	3870	4340	4250	4600
VM270	2000	2000	2500	2500	3000	3000	2700	1845	3730	6-10	3475	3885	4355	4265	4615
VM300	2000	2000	2500	2500	3000	3000	3000	1995 (2145)	4030	6-12	3500	3910	4400	4290	4640
VM330	2000	2000	2500	2500	3000	3000	3300	2145	4330	6-12	3525	3935	4405	4315	4670
VM350	2000	2000	2500	2500	3000	3000	3500	2245	4530	6-12	3545	3955	4425	4335	4685
VM370	2000	2000	2500	2500	3000	3000	3700	2345	4730	6-6 *6-12	3555	3965	4435	4345	4700
VM400	2000	2000	2500	2500	3000	3000	4000	2545	5030	6-6 *6-12	3655	4065	4535	4445	4790
VM450	1900 *1950	1850	2150 *2450	2350	2800 *3000	2900	4500	2795	5530	6-6 *6-12	3695	4105	4575	4485	4835
VM500	1650 *1700	1650	1700 *2250	2000	2700 *2850	2800	5000	3045	6030	6-6 *6-6	3735	4145	4615	4525	4875
VM550	*1500	—	*1700	—	*2400	—	5500	3345	6530	*3-6	3845	4255	4725	4635	4985
VM600	*1300	—	*1400	—	*2000	—	6000	3595	7030	*3-6	3885	4295	4765	4675	5025

NOTE: (1) Figures for (2t, 2.5t model) +35mm. For (3t model) +80mm;The figure in parentheses is given for model 8LB.
(2) Figures for (2t, 2.5t model). For (3t model) +230mm
The load chart for trucks with "Unique" solid tires is a special-order item.

Wide View Full Free 2-stage Mast VFM

Mast Model	Capacity at 500mm : Load Center						Max. Fork Height	Overall Mast Height		(3)Free lift with Backrest	Tilting Angle	Service Weight (with battery)				
	FB20-8	FB20-8 (Unique)	FB25-8 FB25-8LB FB25-8V	FB25-8 FB25-8LB FB25-8V (Unique)	FB30-8 FB30-8V	FB30-8 FB30-8V (Unique)		(1)Lowered	(2)Raised with Backrest			FB20-8	FB25-8	FB25-8LB	FB25-8V	FB30-8 FB30-8V
	kg	kg	kg	kg	kg	kg		mm	mm		deg	kg	kg	kg	kg	kg
VFM200	2000	2000	2500	2500	3000	3000	2000	1495	3030	495	6-12	3455	3865	4335	4245	4610
VFM250	2000	2000	2500	2500	3000	3000	2500	1745	3530	745	6-12	3500	3910	4400	4290	4655
VFM270	2000	2000	2500	2500	3000	3000	2700	1845	3730	845	6-12	3515	3925	4395	4305	4675
VFM300	2000	2000	2500	2500	3000	3000	3000	1995	4030	995	6-12	3545	3955	4425	4335	4700
VFM330	2000	2000	2500	2500	3000	3000	3300	2145	4330	1145	6-12	3570	3980	4450	4360	4725
VFM350	2000	2000	2500	2500	3000	3000	3500	2245	4530	1245	6-12	3585	3995	4465	4375	4745
VFM370	2000	2000	2500	2500	3000	3000	3700	2345	4730	1345	6-6 *6-12	3605	4015	4485	4395	4765
VFM400	2000	2000	2500	2500	3000	3000	4000	2545	5030	1545	6-6 *6-12	3700	4110	4580	4490	4865
VFM450	1900 *1950	1850	1900 *2450	2350	2800 *3000	2900	4500	2795	5530	1795	6-6 *6-12	3745	4155	4625	4535	4910
VFM500	1650 *1700	1650	1700 *2250	2000	2700 *2850	2800	5000	3045	6030	2045	6-6 *6-6	3790	4200	4670	4580	4955

NOTE: (1) Figures for (2t, 2.5t model). For (3t model) +80mm
(2) Figures for (2t, 2.5t model). For (3t model) +230mm
For height without backrest: ~375mm (2t, 2.5t model), ~515mm (3t model)
(3) Figures for (2t, 2.5t model). For (3t model) ~145mm
For free lift without backrest: +375mm (2t, 2.5t model), +515mm (3t model)
Weight for without backrest: ~20kg (2t, 2.5t model), ~30kg (3t model)
The load chart for trucks with "Unique" solid tires is a special-order item.

Wide View Full Free 3-stage Mast VFHM

Mast Model	Capacity at 500mm : Load Center						Max. Fork Height	Overall Mast Height		(3)Free lift with Backrest	Tilting Angle	Service Weight (with battery)				
	FB20-8	FB20-8 (Unique)	FB25-8 FB25-8LB FB25-8V	FB25-8 FB25-8LB FB25-8V (Unique)	FB30-8 FB30-8V	FB30-8 FB30-8V (Unique)		(1)Lowered	(2)Raised with Backrest			FWD / BWD	FB20-8	FB25-8	FB25-8LB	FB25-8V
	kg	kg	kg	kg	kg	kg		mm	mm		mm	mm	deg	kg	kg	kg
VFHM360	1900	1900	2400	2400	3000	3000	3600	1745	4630	740	6-6 *6-10	3630	4040	4510	4420	4770
VFHM400	1900	1900	2400	2400	3000	3000	4000	1870	5030	865	6-6 *6-10	3660	4070	4540	4450	4800
VFHM435	1900 *1900	1900	2200 *2400	2300	2900 *3000	2950	4350	1995	5380	990	6-6 *6-10	3690	4100	4570	4480	4825
VFHM480	1700 *1800	1750	1900 *2300	2200	2800 *2900	2850	4800	2145	5830	1140	6-6 *6-10	3725	4135	4605	4515	4860
VFHM500	1500 *1800	1700	1600 *2250	1900	2600 *2750	2700	5000	2245	6030	1240	6-6 *6-10	3755	4165	4635	4545	4885
VFHM550	1150 *1700	1600	1250 *2100	1600	1900 *2600	2300	5500	2410	6530	1405	3-6 *3-6	3785	4195	4665	4575	4925
VFHM600	900 *1650	1100	950 *1800	1100	1400 *2100	1850	6000	2595	7030	1590	3-6 *3-6	3920	4330	4800	4710	5050

WIDE VIEW MAST

Wide View Mast VM

Mast Model	Capacity at 500mm : Load Center	Max. Fork Height	Overall Mast Height		Tilting Angle	Service Weight (with battery)
	FB35-8S		Lowered	Raised with Backrest	FWD / BWD	FB35-8S
	kg					
VM200	3500	2000	1635	3260	6-10	5145
VM250	3500	2500	1885	3760	6-10	5195
VM270	3500	2700	1985	3960	6-10	5215
VM300	3500	3000	2135	4260	6-10	5240
VM330	3500	3300	2285	4560	6-10	5270
VM350	3500	3500	2385	4760	6-10	5290
VM370	3500	3700	2485	4960	6-6 *6-10	5310
VM400	3500	4000	2685	5260	6-6 *6-10	5385
VM450	3400	4500	2935	5760	6-6 *6-10	5430
VM500	3300	5000	3185	6260	6-6 *6-6	5480
VM550	*3200	5500	3485	6760	*3-6	5565
VM600	*2850	6000	3735	7260	*3-6	5610

NOTE: Rated capacity with (*): Shows capacity with front dual tires.

Wide View Full Free 3-stage Mast VFHM

Mast Model	Capacity at 500mm : Load Center	Max. Fork Height	Overall Mast Height		Free lift with Backrest	Tilting Angle	Service Weight (with battery)
	FB35-8S		Lowered	Raised with Backrest		FWD / BWD	FB35-8S
	kg		mm	mm		mm	mm
VFHM360	3400	3600	1885	4860	655	6-6 °6-10	5570
VFHM400	3400	4000	2010	5260	785	6-6 °6-10	5600
VFHM435	3300 *3400	4350	2135	5610	905	6-6 °6-10	5640
VFHM480	3300 *3300	4800	2285	6060	1055	6-6 °6-10	5665
VFHM500	3200 *3200	5000	2385	6260	1155	6-6 °6-10	5690
VFHM550	2650 *3100	5500	2550	6760	1320	3-6	5730
VFHM600	2000 *2800	6000	2735	7260	1505	3-6	5830

NOTE: Lifting speed with VFHM mast: (3.5t model) 220mm/s with load. 380mm/s without load. Lowering speed with VFHM mast: (3.5t model) 440mm/s with load. 380mm/s without load.

BATTERY

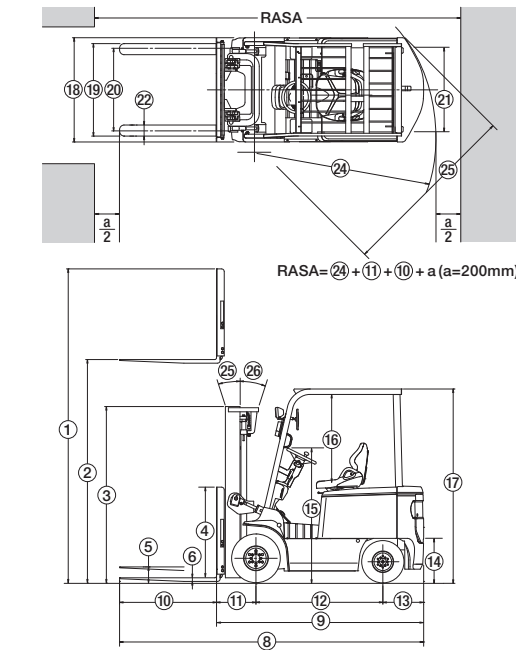
BATTERY SELECTION TABLE (option)

●: Standard capacity type ○,△: High capacity type

		Battery case size (Inside L x W x H mm)	Model									
			FB10-8	FB15-8	FB18-8	FB20-8	FB25-8	FB25-8LB	FB25-8V	FB30-8	FB30-8V	FB35-8S
Battery voltage / capacity (5hr)	48 / 330	588 x 968 x 420	●									
	48 / 400		○	●								
	48 / 400	753 x 968 x 420			●							
	48 / 450	768 x 1018 x 420				●						
	48 / 485	588 x 968 x 420	○	○								
		753 x 968 x 420			○							
	48 / 545	653 x 968 x 420		△								
		753 x 968 x 420			○							
	48 / 565	768 x 1018 x 420				○	●					
	48 / 600					○	○					
	48 / 700	833 x 1018 x 420				△	△					
	48 / 865	833 x 1018 x 500						○	●			
	48 / 935	978 x 1018 x 500						●				
72 / 450	883 x 1068 x 420								●	●		
72 / 450	978 x 1068 x 420										●	
72 / 485	883 x 1068 x 420								○	○		
72 / 545	978 x 1068 x 420								△		○	
Battery weight range (Min.-Max.kg)			600~740	640~850	900~1050	700~1090	850~1090	1280~1490		1070~1290		1200~1290

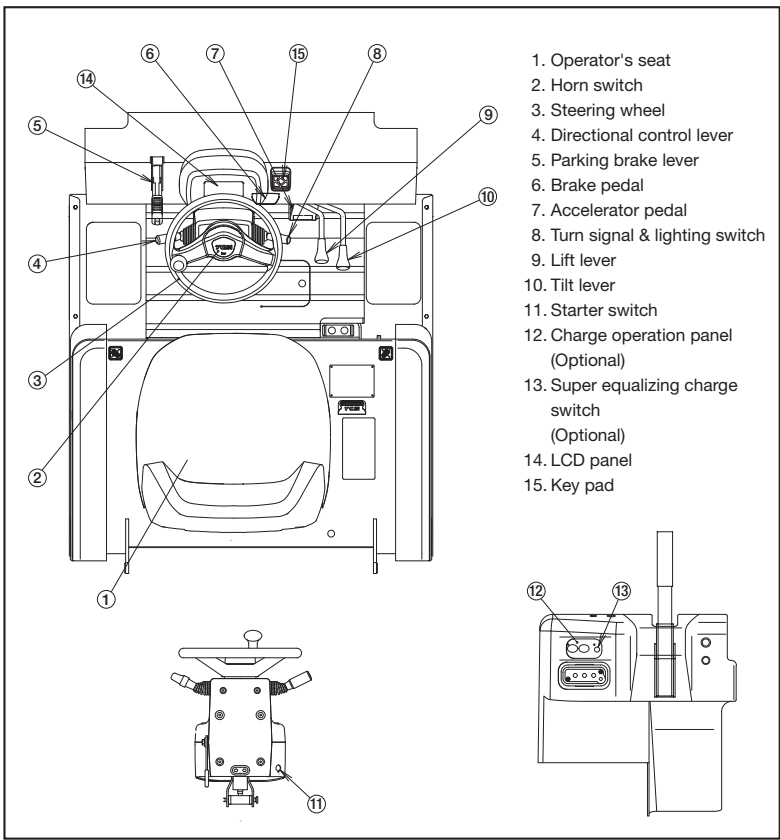
NOTE △: Battery case, bonnet, side panels and relative individual components are changed as compared with standard capacity type.

DIMENSIONS



Ground-clearance (mm)	FB10-8 FB15-8 FB18-8	FB20-8 FB25-8	FB25-8LB FB25-8V	FB30-8 FB30-8V	FB35-8S
Mast	105	110	110	140	145
Frame	95	115	115	120	120
Front axle	90	100	100	140	140
Rear axle	90	100	90	90	90
Counter weight	125	135	135	135	135

INSTRUMENTS & CONTROLS



STANDARD DIMENSIONS

MODEL	FB10-8	FB15-8	FB18-8	FB20-8	FB25-8	FB25-8LB FB30-8V	FB30-8 FB30-8V	FB35-8S
	mm	mm	mm	mm	mm	mm	mm	mm
① Overall height, fork raised (with backrest)	4030	4030	4030	4030	4030	4030	4260	4260
② Maximum fork height	3000	3000	3000	3000	3000	3000	3000	3000
③ Mast height, fork lowered	1995	1995	1995	2030	2030	2180 (2030)	2075	2135
④ Backrest height	1000	1000	1000	1000	1000	1000	1220	1220
⑤ Free lift	155	155	155	110	110	110	165	170
⑥ Fork thickness	35	35	35	40	40	40	45	50
⑦ Minimum under-clearance	90	90	90	100	100	90	90	90
⑧ Overall length (with forks)	2875	2875	2975	3315	3355	3460	3580	3805
⑨ Overall length (without forks)	1955	1955	2055	2245	2285	2390	2510	2735
⑩ Fork length	920	920	920	1070	1070	1070	1070	1070
⑪ Fork overhang	375	375	375	435	435	435	480	500
⑫ Wheelbase	1250	1250	1350	1400	1400	1545	1600	1800
⑬ Rear overhang	330	330	330	410	450	410	430	435
⑭ Drawbar height	390	390	390	440	440	440	475	475
⑮ Steering wheel height*	1350	1350	1350	1395	1395	1475	1515	1515
⑯ Overhead guard clearance (from face of seat)**	1020	1020	1020	1020	1020	1050 (980)	1080 (1000)	1080
⑰ Overall height (overhead guard)**	2080	2080	2080	2125	2125	2250 (2100)	2190 (2100)	2190
⑱ Overall width	1070	1070	1070	1150	1150	1150	1225	1380
⑲ Lateral fork adjustment (outside)	200 ~ 920	200 ~ 920	200 ~ 920	245 ~ 1020	245 ~ 1020	245 ~ 1020	250 ~ 1090	300 ~ 1090
⑳ Tread (front)	910	910	910	955	955	955	1000	1140
㉑ Tread (rear)	900	900	900	950	950	950	950	950
㉒ Fork width	100	100	100	122	122	122	125	150
㉓ Outside turning radius	1800 (1700 ¹⁾)	1800 (1700 ¹⁾)	1890 (1790 ¹⁾)	2070 (1950 ¹⁾)	2100 (1970 ¹⁾)	2200 (2065 ¹⁾)	2290 (2140 ¹⁾)	2500 (2360 ¹⁾)
㉔ Minimum intersecting aisle	1690	1690	1730	1895	1905	1955	2050	2250
㉕ Tilt angles (forward-backward)	6° ~ 12°	6° ~ 12°	6° ~ 12°	6° ~ 12°	6° ~ 12°	6° ~ 12°	6° ~ 12°	6° ~ 10°

NOTE: () for V models * In Scandinavian export trucks +70mm except V model ** In European and Scandinavian export trucks +60mm except V model
1) Figures are given for trucks with optional EPS

DIMENSIONS WITH FRONT DUAL DRIVE WHEELS (option)

MODEL	FB10-8	FB15-8	FB18-8	FB20-8	FB25-8	FB25-8LB FB25-8V	FB30-8 FB30-8V	FB35-8S
Tire size (front dual)	4.50-12-8PR	4.50-12-8PR	4.50-12-8PR	6.00-9-10PR	6.00-9-10PR	6.00-9-10PR	6.00-15-10PR	6.00-15-10PR
Service weight	+40kg	+40kg	+40kg	+70kg	+70kg	+70kg	+18kg	+0kg
	mm	mm	mm	mm	mm	mm	mm	mm
⑱ Overall width	1270	1270	1270	1485	1485	1485	1520	1520
⑳ Tread (front)	1055	1055	1055	1140	1140	1140	1170	1170
㉑ Outside turning radius	1840 (1745 ¹⁾)	1840 (1745 ¹⁾)	1920 (1825 ¹⁾)	2100 (1970 ¹⁾)	2130 (1955 ¹⁾)	2220 (2085 ¹⁾)	2310 (2180 ¹⁾)	2510 (2400 ¹⁾)
㉒ Minimum intersecting aisle	1780	1780	1825	2035	2045	2075	2160	2300

NOTE: 1) Figures are given for trucks with optional EPS

■ STANDARD EQUIPMENTS AND ACCESSORIES

[Equipment]

- Anti-roll back system
- Asbestos-free brake
- Auto power off system (PAO)
- Brake fluid reservoir tank
- Cylinder type bonnet stay with locking function
- Deluxe suspension seat with safety belt ¹⁾
- Drawbar device
- Durable overhead guard
- Fork length: 920mm (1-1.8ton), 1070mm (2-3.5ton)
- ITA Class II, III carriage
- Level gauge for hydraulic oil
- Lift circuit cut-off valve
- Load backrest (BRE)
- Load check valve
- Orbitrol fully-hydraulic power steering
- Regenerative braking system
- Return hydraulic filter
- Rib-lug tires
- Shock less lift-cylinder
- Suction hydraulic strainer
- Tilt adjustable steering post
- Tilt lock valve
- Traveling interlock system ²⁾
- Wide view mast
- 2-spool control valve with pressure relief valve

■ OPTIONAL LOADING ATTACHMENTS

- Fork extension sleeves (EF)
- Fork positioner (hydraulic, manual type) (FS, FSM)
- High, wide type load backrest
- Load grab (LG)
- Load push-pull (PPC)
- Load stabilizer (STA)
- Long forks (LF)
- Rotating forks (hook-on, integral type) (RF)
- Rotating paper roll clamp (PR)
- Side shift (hook-on, integral type) (SS)
- Sleeve-in hook
- Turna fork
- Wide type fork carriage (WF)
- Wide view full free 2-stage (VFM) mast
- Wide view full free 3-stage (VFHM) mast

Others on request

[Controls]

- Electric controlled direction change lever
- Lift and tilt levers
- Parking brake system with inter-lock
- Power mode (Super / Power / Economy) select switch
- Speed control (SC) switch
- Turn signal lights with self-cancelling mechanism

[Accessories]

- Back-up buzzer
- Document clip
- Document holder
- Electric horn
- Front combination lights (turn signal, clearance)
- Head lights
- Hand grip
- High-mounted rear combination lights (tail, brake, back-up, turn signal and reflector)
- Large rubber floor mat
- Operator tool kit
- Side view mirrors

[Instruments and Switch]

- Combined type switch lever (lighting & turn signal)
- Main key switch (LCD digital display)
- Battery charge / discharge level indicator
- Battery discharge warning indicator
- Contoroller overheat warning indicator
- Drive motor overheat warning indicator
- Hourmeter
- Neutral indicator & safety warning
- Ope. Seat switch ²⁾
- Parking brake indicator
- Power mode (Super / Power / Economy) indicator
- Self-diagnostic function display
- Speed control (SC) operating indicator
- Speedometer (SM)

■ OPTIONAL EQUIPMENTS AND ACCESSORIES

[Equipment]

- Auxiliary hyd.valve modules (3SV - 4SV)
- Battery ³⁾
- Battery chargers
- Central battery electrolyte refilling system (BCW)
- Cold-storage & fishery package (-35°C, -45°C) (FCS35, FCS45)
- Cold-storage package (-35°C) (CS35)
- Color solid tire (white, green)
- Electric power steering (EPS)
- F / R direction lever RH type (LCR)
- Fingertip control (FIT3SV - FIT4SV)
- Fishery industry package (FC)
- Front dual drive wheels
- High profile overhead guard (HGH060) ²⁾
- Leaser pointer
- Oil-filled lift cylinder (RTL)
- Solid tires (Unique cushion, Softone)
- Travel & loading interlock system (SIL) ²⁾
- Windshield with wiper (AW071)
- 2-brake pedal configuration (BK2)

[Accessories]

- Battery container with hoisting bracket
- Beacon light, interlocked with back-up alarm (BBR)
- Buck-up buzzer with volume switch (BBA)
- Center rearview mirror (BMC)
- Chime (buzzer) for forward travelling (TAF)
- Custom coloring paint (P)
- Fire extinguisher (FE)
- Head light guard (HLG)
- LED beacon light (yellow & red) (RLR, RLY)
- Overhead guard canvas (HGC)
- Rear working light (RWL)
- Rust-proof painting (PRR)
- Steel net (for overhead guard) (HGD) ¹⁾
- Tilt cylinder boots (TLB)

Note : 1) Except V model trucks

2) Standard specification for EXC, EXE & EXN configuration

3) Refer to the battery selection table

- TCM retains the right to change these products and specifications without incurring any obligation relating to such changes.
- These products and specifications are subject to change without notice.
- Photos and illustrations may or may not include optional equipment and accessories.
- Features and specifications may vary depending on markets.



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