

**TCM**

# FB-IX

ELECTRIC COUNTER-BALANCE FORKLIFT TRUCK



**1.0 - 3.5 tons**

Class-1 Sit-down type

**SPECIFICATIONS**

## STANDARD SPECIFICATIONS

		Mitsubishi Logisnext													
		FB10-9	FB15-9	FB18-9	FB20-9	FB25-9									
Characteristics	1	Manufacturer													
	2	Model													
	3	Load Capacity	kg	1000	1500	1750	2000	2500							
	4	Load Center	mm	500											
	5	Power Type	Battery												
	6	Control Type	Seated												
	7	Tire Type (V = solid, L = pneumatic, SE = solid pneumatic)	Front / Rear	L/L											
	8	Number of wheels (x = driven)	Front / Rear	2 x / 2											
Dimensions	9	Maximum Fork Height	mm	3000											
	10	Free Lift	mm	115		140									
	13	Fork Size	T x W x L	mm		35x100x1070		40x122x1070							
	14	Tilt Angle	Forwards / Backwards	deg					7/11						
	15	Length to Fork Face	mm	2080		2120	2305	2345							
	16	Overall Width	mm	1110		1115	1155								
	17	Mast Height Lowered	mm	1990			1995								
	18	Overall Height with Mast Raised	mm	4055											
	19	Height to Top of Overhead Guard	mm	2110											
	21	Turning Radius (Outside)	mm	1850		1880	2030	2080							
	22	Fork Overhang (Centerline of Front Axle to Front Face of Forks)	mm	395			445								
	23	Working Aisle Width with 1000 x 1200 mm Pallets, Crosswise	mm	3450		3480	3675	3725							
	Performance	24	Travel Speed	With / Without Load	km / h		14/16		13.5/15.5		14/16				
25		Lifting Speed	With / Without Load	m / s		0.39/0.54		0.35/0.54		0.33/0.54		0.29/0.47		0.26/0.47	
26		Lowering Speed	With / Without Load	m / s		0.505/0.470				0.485/0.440					
27		Maximum Drawbar Pull (5 Min. Short Duty)	N	9500				11000							
29		Gradeability	With / Without Load	%		22 / 25		19 / 25		17 / 24		19 / 22.5		16 / 20	
Weight	32	Truck Weight, Without Load / Excluding Battery	kg	2060		2190		2420		2895		3270			
	33	Axle Loading with Maximum Load	Front / Rear	kg		3065/630		3890/480		4275/575		5050/665		5820/805	
	34	Axle Loading without Load	Front / Rear	kg		1425/1270		1435/1435		1415/1685		1805/1910		1765/2360	
Chassis	35	Tires, Numbers	Front / Rear	2 / 2											
	36	Tire Dimensions	Front	6.00-9 10PR		21x8-9 14PR		21x8-9 16PR							
	37		Rear	5.00-8 8PR			18x7-8 14PR								
	38	Wheelbase	mm	1410			1520								
	39	Tread	Front	mm		930		925		955					
			Rear	mm		900			965						
	40	Ground Clearance under Mast	With Load	mm		110			115						
	41	Ground Clearance at Centre of Wheelbase (Forks Lowered)	With Load	mm					110						
42	Service Brakes (Mechanical / Hydraulic / Electric / Pneumatic)	Hydraulic													
Electric Motors and Control	45	Battery Voltage / Capacity at 5 hour discharge*	V / Ah	48/*											
	46	Battery Weight (Min. / Max.)	kg	570/875		600/910		715/1025		810/1025					
	47	Drive Motor Capacity (60 Min. Short Duty)	kW	7.0			8.5								
	48	Lift Motor (10 Min. Rating)	kW	9.5			11.5								
	54	Type of Drive Control	FET												
57	Oil Flow for Attachments	l / min	50			55									

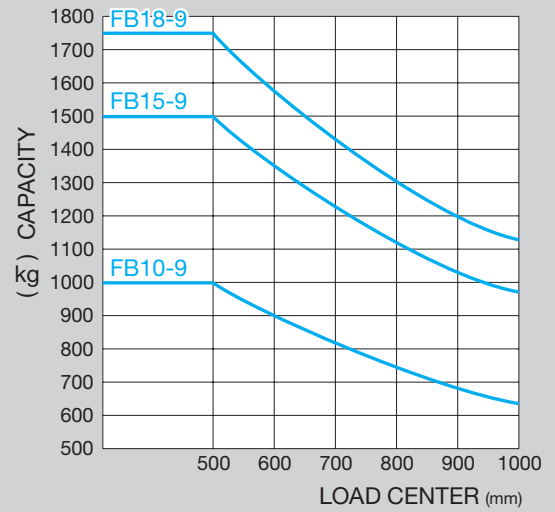
\* For the capacity of factory installed battery, please refer the battery selection table in the page 6.

## STANDARD SPECIFICATIONS

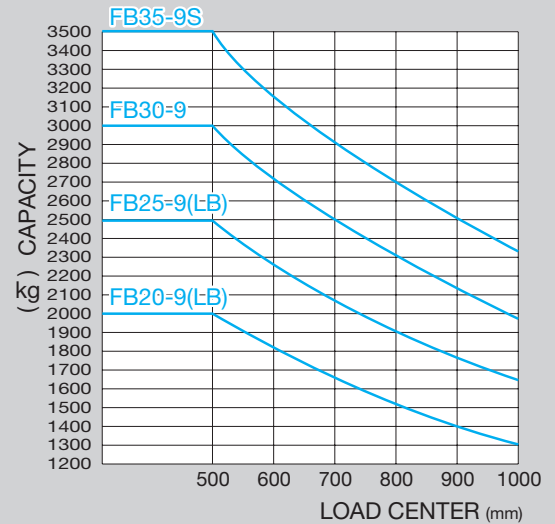
Mitsubishi Logisnext			
FB20-9LB	FB25-9LB	FB30-9	FB35-9S
2000	2500	3000	3500
500			
Battery			
Seated			
L/L			
2 x / 2			
3000			
140		145	
40x122x1070		45x122x1070	50x122x1070
7/11			
2465		2505	2600
1155		1255	
1995		2015	2115
4055			
2110		2200	
2215		2260	2330
445		485	490
3860		3945	4020
14/16		13.5/15.5	
0.29/0.47	0.26/0.47	0.32/0.55	0.27/0.46
0.485/0.440		0.510/0.400	0.430/0.310
11000		13000	
18 / 20.5	16 / 20.5	16 / 20	13 / 19.5
2965		3720	4270
5060/990	5840/710	7035/840	7825/110
1935/2115		2275/2600	2265/3160
2 / 2		2 x / 2	
21x8-9 16PR		28x9-15 14PR	
18x7-8 14PR		6.50-10 10PR	6.50-10 12PR
1680			
955		1030	
965		980	
115		135	
110		120	
Hydraulic			
48/*		72/*	
1025/1360		1095/1540	
8.5		11.0	
11.5		15.0	
FET			
55		75	

## LOAD CHART

### 1.0 / 1.5 / 1.75t



### 2.0 / 2.5 / 3.0 / 3.5t



- NOTES: ● Meets following major standards and code:  
 ISO22915-2 Counter Balanced Lift Trucks, Verification of Stability  
 JIS D6001 Industrial Lift Trucks (Japan)  
 JIS D6011 Stability & Verification of Stability (Japan)  
 ● Overhead guard meets ISO 6055, JIS D6021

## WIDE VIEW MAST

### ■ Wide View Mast 2W

Mast Model	FB10-9	FB10-9 (Unique)	FB15-9	FB15-9 (Unique)	FB18-9	FB18-9 (Unique)	Max. Fork Height	Overall Mast Height		Tilt Angle	Service Weight (w/o Bat.)			
	kg	kg	kg	kg	kg	kg		Lowered	Raised		deg	FB10-9	FB15-9	FB18-9
	kg	kg	kg	kg	kg	kg		mm	mm		mm	kg	kg	kg
2W200	1000	1000	1500	1500	1750	1750	2000	1490	3055	7-6	2000	2135	2365	
2W250	1000	1000	1500	1500	1750	1750	2500	1740	3555	7-6	2030	2160	2390	
2W270	1000	1000	1500	1500	1750	1750	2700	1840	3755	7-6	2040	2175	2405	
2W300	1000	1000	1500	1500	1750	1750	3000	1990	4055	7-11	2060	2190	2420	
2W330	1000	1000	1500	1500	1750	1750	3300	2140	4355	7-11	2075	2205	2440	
2W350	1000	1000	1500	1500	1750	1750	3500	2240	4555	7-11	2085	2220	2450	
2W370	1000	1000	1500	1500	1750	1750	3700	2340	4755	7-11	2100	2230	2460	
2W400	1000	1000	1500	1500	1750	1750	4000	2540	5055	7-11	2135	2265	2495	
2W450	1000	1000	1450	1450	1600	1650	4500	2790	5555	4-6	2165	2295	2525	
2W500	950	1000	1350	1400	1450	1550	5000	3050	6055	4-6	2195	2325	2555	
2W550	800	900	1150	1300	1200	1450	5500	3300	6555	4-6	2220	2355	2585	
2W600	650	850	930	1150	950	1300	6000	3550	7055	4-6	2250	2300	2615	

### ■ Wide View Full Free 2-stage Mast 2F

Mast Model	FB10-9	FB10-9 (Unique)	FB15-9	FB15-9 (Unique)	FB18-9	FB18-9 (Unique)	Max. Fork Height	Overall Mast Height		Tilt Angle	Service Weight (w/o Bat.)			
	kg	kg	kg	kg	kg	kg		Lowered	Raised		deg	FB10-9	FB15-9	FB18-9
	kg	kg	kg	kg	kg	kg		mm	mm		mm	kg	kg	kg
2F300	1000	1000	1500	1500	1750	1750	3000	1990	4055	7-11	2110	2240	2470	
2F330	1000	1000	1500	1500	1750	1750	3300	2140	4355	7-11	2130	2260	2490	
2F350	1000	1000	1500	1500	1750	1750	3500	2240	4555	7-11	2140	2275	2505	
2F370	1000	1000	1500	1500	1750	1750	3700	2340	4755	7-11	2155	2285	2515	
2F400	1000	1000	1500	1500	1750	1750	4000	2540	5055	7-11	2205	2335	2565	
2F450	1000	1000	1450	1450	1600	1650	4500	2790	5555	4-6	2235	2365	2600	

### ■ Wide View Full Free 3-stage Mast 3F

Mast Model	FB10-9	FB10-9 (Unique)	FB15-9	FB15-9 (Unique)	FB18-9	FB18-9 (Unique)	Max. Fork Height	Overall Mast Height		Tilt Angle	Service Weight (w/o Bat.)			
	kg	kg	kg	kg	kg	kg		Lowered	Raised		deg	FB10-9	FB15-9	FB18-9
	kg	kg	kg	kg	kg	kg		mm	mm		mm	kg	kg	kg
3F370	1000	1000	1500	1500	1750	1750	3700	1790	4755	4-6	2230	2360	2590	
3F400	950	950	1450	1450	1700	1700	4000	1890	5055	4-6	2245	2380	2610	
3F430	950	950	1400	1400	1600	1600	4300	1990	5355	4-6	2265	2395	2625	
3F450	900	900	1350	1350	1500	1550	4500	2060	5555	4-6	2275	2410	2640	
3F470	900	900	1350	1350	1500	1500	4700	2140	5755	4-6	2290	2420	2655	
3F500	850	850	1200	1300	1300	1500	5000	2240	6055	4-6	2310	2440	2670	
3F550	750	850	1100	1250	1130	1400	5500	2430	6555	4-6	2380	2510	2740	
3F600	600	800	900	1100	930	1250	6000	2610	7055	1.5-6	2410	2540	2770	
3F650	300	550	400	750	450	850	6500	2850	7555	1.5-6	2455	2585	2815	
3F700	150	400	250	550	300	600	7000	3050	8055	1.5-6	2490	2620	2850	

■ Wide View Mast 2W

Mast Model	FB20-9 kg	FB20-9 (Unique) kg	FB25-9 kg	FB25-9 (Unique) kg	FB20-9LB kg	FB20-9LB (Unique) kg	FB25-9LB kg	FB25-9LB (Unique) kg	Max. Fork Height mm	Overall Mast Height		Tilt Angle deg	Service Weight (w/o Bat.)			
										Lowered	Raised		FB20-9	FB25-9	FB20-9LB	FB25-9LB
										mm	mm		kg	kg	kg	kg
2W200	2000	2000	2500	2500	2000	2000	2500	2500	2000	1495	3055	7-6	2815	3195	2890	2890
2W250	2000	2000	2500	2500	2000	2000	2500	2500	2500	1745	3555	7-6	2855	3230	2925	2925
2W270	2000	2000	2500	2500	2000	2000	2500	2500	2700	1845	3755	7-6	2870	3250	2945	2945
2W300	2000	2000	2500	2500	2000	2000	2500	2500	3000	1995	4055	7-11	2895	3270	2985	2965
2W330	2000	2000	2500	2500	2000	2000	2500	2500	3300	2145	4355	7-11	2915	3295	2990	2990
2W350	2000	2000	2500	2500	2000	2000	2500	2500	3500	2245	4555	7-11	2930	3310	3005	3005
2W370	2000	2000	2500	2500	2000	2000	2500	2500	3700	2345	4755	7-11	2950	3325	3020	3020
2W400	2000	2000	2500	2500	2000	2000	2500	2500	4000	2545	5055	7-11	2995	3370	3065	3065
2W450	1900	1950	2300	2450	1900	1950	2300	2450	4500	2795	5555	4-6	3035	3410	3105	3105
2W500	1650	1850	1800	2350	1650	1850	1800	2350	5000	3065	6055	4-6	3075	3450	3145	3145
2W550	1300	1750	1400	2150	1300	1750	1400	2150	5500	3315	6555	4-6	3115	3490	3185	3185
2W600	1000	1700	1100	1850	1000	1700	1100	1850	6000	3565	7055	4-6	3150	3530	3225	3225

■ Wide View Full Free 2-stage Mast 2F

Mast Model	FB20-9 kg	FB20-9 (Unique) kg	FB25-9 kg	FB25-9 (Unique) kg	FB20-9LB kg	FB20-9LB (Unique) kg	FB25-9LB kg	FB25-9LB (Unique) kg	Max. Fork Height mm	Overall Mast Height		Tilt Angle deg	Service Weight (w/o Bat.)			
										Lowered	Raised		FB20-9	FB25-9	FB20-9LB	FB25-9LB
										mm	mm		kg	kg	kg	kg
2F300	2000	2000	2500	2500	2000	2000	2500	2500	3000	1995	4055	7-11	2930	3305	3000	3000
2F330	2000	2000	2500	2500	2000	2000	2500	2500	3300	2145	4355	7-11	2950	3325	3020	3020
2F350	2000	2000	2500	2500	2000	2000	2500	2500	3500	2245	4555	7-11	2965	3340	3035	3035
2F370	2000	2000	2500	2500	2000	2000	2500	2500	3700	2345	4755	7-11	2975	3355	3050	3050
2F400	2000	2000	2500	2500	2000	2000	2500	2500	4000	2545	5055	7-11	3040	3420	3110	3110
2F450	1900	1950	2300	2450	1900	1950	2300	2450	4500	2795	5555	4-6	3070	3450	3145	3145

■ Wide View Full Free 3-stage Mast 3F

Mast Model	FB20-9 kg	FB20-9 (Unique) kg	FB25-9 kg	FB25-9 (Unique) kg	FB20-9LB kg	FB20-9LB (Unique) kg	FB25-9LB kg	FB25-9LB (Unique) kg	Max. Fork Height mm	Overall Mast Height		Tilt Angle deg	Service Weight (w/o Bat.)			
										Lowered	Raised		FB20-9	FB25-9	FB20-9LB	FB25-9LB
										mm	mm		kg	kg	kg	kg
3F370	2000	2000	2500	2500	2000	2000	2500	2500	3700	1795	4755	4-6	3055	3430	3125	3125
3F400	1950	1950	2400	2400	1950	1950	2400	2400	4000	1895	5055	4-6	3080	3455	3150	3150
3F430	1900	1900	2400	2400	1900	1900	2400	2400	4300	1995	5355	4-6	3100	3480	3175	3175
3F450	1800	1850	2200	2300	1800	1850	2200	2300	4500	2065	5555	4-6	3120	3495	3190	3190
3F470	1800	1850	2150	2300	1800	1850	2150	2300	4700	2145	5755	4-6	3135	3515	3210	3210
3F500	1600	1800	1750	2250	1600	1600	1750	2250	5000	2245	6055	4-6	3160	3540	3235	3235
3F550	1200	1700	1300	2100	1200	1700	1300	2100	5500	2415	6555	4-6	3230	3610	3305	3305
3F600	950	1650	1000	1800	950	1650	1000	1800	6000	2585	7055	1.5-6	3270	3650	3345	3345
3F650	600	1500	700	1550	600	1500	700	1550	6500	2795	7555	1.5-6	3320	3700	3395	3395
3F700	400	1250	450	1270	400	1250	450	1270	7000	3065	8055	1.5-6	3385	3760	3455	3455

## WIDE VIEW MAST

### ■ Wide View Mast 2W

Mast Model	FB30-9 kg	FB30-9 (Unique) kg	FB35-9S kg	FB35-9S (Unique) kg	Max. Fork Height mm	Overall Mast Height			Tilt Angle deg	Service Weight (w/o Bat.)	
						Lowered		Raised		FB30-9	FB35-9S
						mm	mm	mm	kg	kg	
2W270	3000	3000	3500	3500	2700	1865	1985	3755	7-6	3685	4245
2W300	3000	3000	3500	3500	3000	2015	2115	4055	7-11	3720	4270
2W330	3000	3000	3500	3500	3300	2165	2265	4355	7-11	3745	4295
2W350	3000	3000	3500	3500	3500	2265	2365	4555	7-11	3765	4315
2W370	3000	3000	3500	3500	3700	2365	2465	4755	7-11	3780	4330
2W400	3000	3000	3500	3500	4000	2565	2665	5055	7-11	3835	4410
2W450	2850	3000	3400	3500	4500	2815	2915	5555	4-6	3880	4460
2W500	2700	3000	3300	3400	5000	3115	3215	6055	4-6	3930	4515
2W550	2100	2750	2750	3200	5500	3365	3465	6555	4-6	3975	4560
2W600	1650	2200	2100	2850	6000	3615	3715	7055	4-6	4015	4605

### ■ Wide View Full Free 2-stage Mast 2F

Mast Model	FB30-9 kg	FB30-9 (Unique) kg	FB35-9S kg	FB35-9S (Unique) kg	Max. Fork Height mm	Overall Mast Height			Tilt Angle deg	Service Weight (w/o Bat.)	
						Lowered		Raised		FB30-9	FB35-9S
						mm	mm	mm	kg	kg	
2F300	3000	3000	3500	3500	3000	2015	2115	4055	7-11	3745	4310
2F330	3000	3000	3500	3500	3300	2165	2265	4355	7-11	3765	4330
2F350	3000	3000	3500	3500	3500	2265	2365	4555	7-11	3780	4345
2F370	3000	3000	3500	3500	3700	2365	2465	4755	7-11	3795	4360
2F400	3000	3000	3500	3500	4000	2565	2665	5055	7-11	3865	4440
2F450	2850	3000	3400	3500	4500	2815	2915	5555	4-6	3900	4480

### ■ Wide View Full Free 3-stage Mast 3F

Mast Model	FB30-9 kg	FB30-9 (Unique) kg	FB35-9S kg	FB35-9S (Unique) kg	Max. Fork Height mm	Overall Mast Height			Tilt Angle deg	Service Weight (w/o Bat.)	
						Lowered		Raised		FB30-9	FB35-9S
						mm	mm	mm	kg	kg	
3F370	3000	3000	3500	3500	3700	1815	1915	4755	4-6	3905	4455
3F400	3000	3000	3500	3500	4000	1915	2015	5055	4-6	3935	4480
3F430	3000	3000	3500	3500	4300	2015	2115	5355	4-6	3960	4510
3F450	2800	3000	3400	3450	4500	2085	2185	5555	4-6	3975	4525
3F470	2800	3000	3300	3400	4700	2165	2265	5755	4-6	3995	4545
3F500	2600	2900	3200	3300	5000	2265	2365	6055	4-6	4020	4570
3F550	1900	2650	2650	3100	5500	2435	2535	6555	4-6	4115	4685
3F600	1450	2100	2000	2800	6000	2605	2705	7055	1.5-6	4160	4730
3F650	850	1700	1000	2500	6500	2815	2915	7555	1.5-6*	4210	4780
3F700	600	1400	700	2300	7000	3115	3215	8055	1.5-6*	4275	4850

\* 1.5-3 for FB35-9S 3F650/3F700 mast with solid tires

## FREE LIFT

Mast Model (mm)	FB10-9	FB15-9	FB18-9	FB20-9	FB25-9	FB20-9LB	FB25-9LB	FB30-9	FB35-9S
2F300	970	970	970	980	980	980	980	1005	1110
2F330	1120	1120	1120	1130	1130	1130	1130	1155	1260
2F350	1220	1220	1220	1230	1230	1230	1230	1255	1360
2F370	1320	1320	1320	1330	1330	1330	1330	1355	1460
2F400	1520	1520	1520	1530	1530	1530	1530	1555	1660
2F450	1770	1770	1770	1780	1780	1780	1780	1805	1910
3F370	770	770	770	780	780	780	780	805	910
3F400	870	870	870	880	880	880	880	905	1010
3F430	970	970	970	980	980	980	980	1005	1110
3F450	1040	1040	1040	1050	1050	1050	1050	1075	1180
3F470	1120	1120	1120	1130	1130	1130	1130	1155	1260
3F500	1220	1220	1220	1230	1230	1230	1230	1255	1360
3F550	1410	1410	1410	1400	1400	1400	1400	1425	1530
3F600	1590	1590	1590	1570	1570	1570	1570	1595	1700
3F650	1830	1830	1830	1780	1780	1780	1780	1805	1910
3F700	2030	2030	2030	2050	2050	2050	2050	2105	2210

## AVAILABILITY OF FACTORY INSTALLED BATTERY

### ■ BATTERY SELECTION TABLE (option)

	Battery Case Size	Battery Weight	Model								
	[W×L×H]	kg	FB10-9	FB15-9	FB18-9	FB20-9	FB25-9	FB20-9LB	FB25-9LB	FB30-9	FB35-9S
48V / 370Ah	982×455×590	600	△								
48V / 415Ah	982×455×590	670	△	△	△						
48V / 510Ah	982×535×590	820	△	△	△	△					
48V / 565Ah	982×535×590	855		△	△	△	△				
48V / 645Ah	982×615×590	970				△	△				
48V / 725Ah	982×675×590	1080						△	△		
48V / 845Ah	982×775×590	1280						△	△		
72V / 470Ah	1007×667×784	1155								△	△
72V / 600Ah	1007×667×784	1465								△	△

△ :Available as factory installed battery

## ■ STANDARD EQUIPMENTS AND ACCESSORIES

### [Frame & Body]

- Walk through floor
- Assist grip, getting on/off
- Wide open step
- Low step height
- Rear assist grip with horn button
- Gunmetal bushing for rear axle
- Full hydraulic power steering
- Interlock, travel/load handling
- Emergency shut off switch
- Seatbelt
- Small diameter steering wheel
- Comfortable suspension seat
- Floor matt
- Foot protector

### [Control]

- Auto torque up/Automatic torque optimization
- Lowering lock
- Pitching reduction
- Speed reduction at turning
- Lift speed control by travel speed
- Travel speed control at up-slope
- Travel speed reduction control at downward slope
- Mode selector, Power/Normal/Custom

- Operation characteristics setting adjustment
- Max. travel speed setting adjustment
- Acceleration setting adjustment
- Auto power-off / Automatic power-off timer
- ECO mode switch
- Regeneration at switch-back operation
- Regeneration at braking
- Accelerator-pedal-off regeneration
- Regeneration at lifting/tilting operation
- Regeneration at neutral
- 2 spool valve

### [Tire]

- Pneumatic tires (Front and rear)

### [Lamps]

- Head lamps
- Turn signal lamps, front
- Rear combination lamps
- Back buzzer
- Warning buzzer, parking brake
- Warning buzzer, travel speed limit
- Rear view mirrors
- Date & time setting
- Display preference setting

### [LCD monitor]

- Travel
- Hydraulic
- Steering
- Brake oil level
- Spanner icon (Maintenance)
- Self-diagnosis
- I/O check
- Fault history log
- Maintenance timer
- Battery electrolyte level
- Travel speed
- Turtle icon (Speed limiter)
- Date & time setting
- Hour meter, total/travel/hydraulic
- Odometer
- Parking brake indicator
- Language selection

### [Mast, forks, backrest and lift bracket]

- 2 stage wide view (2W) mast, 3000mm
- 1070mm forks
- 1000mm backrest
- 920mm width lift bracket (For 1.0-1.75 ton models)
- 1000mm width lift bracket (For 2.0-2.5 ton models)

## ■ LOAD HANDLING ATTACHMENTS (Options)

- Side shift (Hook-on type, integral type)
- Fork positioner (Hook-on type, shaft mounted type)
- Fork positioner with side shift
- Hinged forks
- Rotating forks
- Rotating roll clamp
- Bale clamp
- Fork clamp
- Load stabilizer
- Load push pull
- Wide view full free 2 stage (2F) mast
- Wide view full free 3 stage (3F) mast

Others on request

## ■ OPTIONAL EQUIPMENTS AND ACCESSORIES

- Truck movement control
- Battery exchange (Fork pockets under battery, battery slide roller)
- Laser pointer
- Automatic battery fluid filler
- Smooth Run System
- Front window/rear window/vinyl cabin
- Roof cover/OHG sheet/front guard
- LED lamps
  - Head lamp / rear combination lamp / Blue spot / Rear LED line
  - Front / rear working light / Headlight guard / Rotating beacon / Flash lamp / Spot lamp
- Buzzer, chime
- Automatic fork horizontal stop / AOS
- Fingertip control lever / Mono lever
- Cold storage / rust proof / dust proof / mil oil / power cylinder boot
- Pressure adjust valve / clamp lock out
- Double brake pedals
- Back mirrors / fire extinguisher / low height overhead guard
- Tilt indicator

# TCM

<http://www.tcm-forklift.jp>

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### Note:

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Photos and illustrations may slightly differ from the actual trucks.  
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Features and specifications may vary depending on markets.  
Performance data and dimensions are nominal and subject to tolerances.  
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