

# CX SERIES

ELECTRIFICATION 2WD

ROUGH TERRAIN

FORKLIFT 1.8-3.5T



CX Series Forklift



umw.siam



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Corporate Brochure

**CX SERIES Electrification 2WD Rough Terrain Forklift 1.8-3.5 Ton**

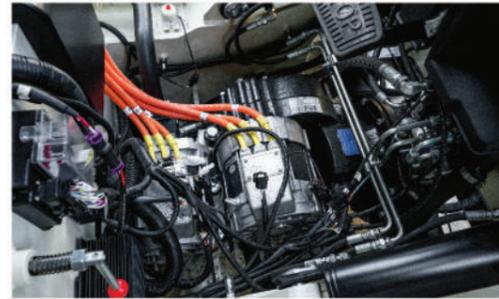
**Truck Chassis and Design**

- Proven design is ideal for outside uneven working conditions
- Ergonomic designed operator compartment optimize and enhance operation comfort and control
- Wide view mast delivers excellent visibility and ensures safe operation and productivity
- High ground clearance provides superior manoeuvrability in the rough territories



**Power Training System**

- High voltage power system & PM motor system provides higher working efficiency and less energy consumption
- BMS communicated with traction and hydraulic controller to monitor and govern the battery performance
- Jaw type 100% differential lock delivers ultimate traction on the rough territories
- Highly integrated power system simplifies the high voltage wiring harness and reduce failure rate



**Application**

- IP4X protection ensures working properly in the outdoor environment
- Battery heating system ensures working under low ambient temperature environment
- Wide footprint industrial tyres provide stability in uneven working environments
- A wide range of options allows the vehicle to handle the complexity off-road conditions



**Other Feature and configurations**

- Standard of speed reduction when cornering improves truck stability
- Side charging port contributes less efforts by plug in and out only
- Side battery extraction system ensures continuous harsh working intensity even lack of power charging supply
- Full LED lights provides suitable working environment in the wild area



**CX SERIES FBCX18-35 Specification**

Features	1.1	Manufacturer	HYM	HYM	HYM	
	1.2	Model designation	FBCX18-YT2	FBCX25-YT2	FBCX35-YT2	
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric	Electric	Electric		
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seat	Seat	Seat		
1.5	Rated capacity/rated load	Q (kg)	1800	2500	3500	
1.6	Load centre distance	c (mm)	500	500	500	
1.8	Load distance, centre of drive axle to fork	x (mm)	509	586	601	
1.9	Wheelbase (with mast vertical)	y (mm)	1880	1880	1880	
Weight	2.1	Service weight	kg	3935	4635	5360
	2.2	Axle loading, laden front / rear	kg	5090 / 695	6250 / 855	7885 / 975
	2.3	Axle loading, unladen front / rear	kg	1594 / 2391	1842 / 2763	2200 / 3160
Wheels and tires	3.1	Tyres: Solid rubber, superelastic, pneumatic, polyurethane	pneumatic	pneumatic	pneumatic	
	3.2	Tyre size, front	12-16.5-12PR	12-16.5-12PR	14-17.5-14PR	
	3.3	Tyre size, rear	27x10.5-15-14PR	27x10.5-15-14PR	27x10.5-15-14PR	
	3.5	wheels, number front/rear	2x2	2x2	2x2	
	3.6	Tread, front	b <sub>10</sub> (mm)	1125	1250	1250
	3.7	Tread, rear	b <sub>11</sub> (mm)	1185	1205	1205
Size	4.1	Tilt of mast/fork carriage, forward /backward	α / β (°)	10 / 12	10 / 12	10 / 12
	4.2	Height, mast lowered	h <sub>1</sub> (mm)	2148	2235	2330
	4.3	Free lift	h <sub>2</sub> (mm)	105	160	165
	4.4	Lift	h <sub>3</sub> (mm)	3000	3000	3000
	4.5	Height, mast extended	h <sub>4</sub> (mm)	4150	4180	4305
	4.7	Height of overhead guard(cabin)	h <sub>6</sub> (mm)	2256	2256	2276
	4.8	Seat height/stand height	h <sub>7</sub> (mm)	1256	1256	1275
	4.12	Towing coupling height	h <sub>10</sub> (mm)	385	385	385
	4.19	Overall length	l <sub>1</sub> (mm)	3980	4056	4071
	4.20	Length to face of forks	l <sub>2</sub> (mm)	2910	2986	3001
	4.21	Overall width, Std/Dual	b <sub>1</sub> /b <sub>2</sub> (mm)	1440	1590	1600
	4.22	Fork dimensions ISO2331	s/e/l (mm)	35 / 100 / 1070	40 / 122 / 1070	45 / 125 / 1070
	4.23	Fork carriage ISO 2328. Class/type, A/B		II A	II A	III A
	4.24	Fork carriage width	b <sub>3</sub> (mm)	1370	1370	1520
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)	240	240	240
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	240	240	260
	4.34.1	Aisle width with pallets 1000mm x 1200mm crossways	Ast (mm)	4780	4855	4870
4.34.2	Aisle width with pallets 800mm x 1200mm crossways	Ast (mm)	4780	4855	4870	
4.35	Turning radius	Wa (mm)	2870	2870	2870	
Performance	5.1	Travel speed, laden / unladen	km/h	19 / 19	19 / 19	18 / 19
	5.2	Lifting speed, laden / unladen	mm/s	550 / 580	510 / 540	415 / 480
	5.3	Lowering speed laden / unladen	mm/s	450 / 480	450 / 410	380 / 395
	5.6	Max. drawbar pull laden / unladen	N	24000 / 19000	24000 / 20000	24000 / 20000
	5.7	Gradeability, laden / unladen	%	20 / 20	20 / 20	20 / 20
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
Motor	6.1	Drive Motor Rating, S2, 60min	kW	25	25	25
	6.2	Lifting motor rating at S3 15%	kW	20	20	20
Battery	6.4	Battery voltage/nominal capacity ( 5hr rate )	V/Ah	153.6 / 173	153.6 / 230	153.6 / 230
Additional data	10.1	Operating pressure for attachments	bar	140	140	140
	10.8	Towing coupling, type DIN		PIN	PIN	PIN

**CX SERIES FBCX18 Mast**

Mast type	Lift Height (mm)	Lowered Mast Height (mm)	Free Lift Height (mm)		Extended Mast Height (mm)		Load Distance (mm)	Tilt of Mast forward/backward (°)	Rated Capacity @500mm LC	
			With LBR	Without LBR	With LBR	Without LBR			Without SS	With SS
2LFL	2700	1998	105	105	3875	3465	509	10/12	1800	1800
	3000	2148	105	105	4175	3765	509	10/12	1800	1800
	3300	2298	105	105	4475	4065	509	10/12	1800	1800
	3500	2398	105	105	4675	4265	509	10/12	1800	1800
	3700	2498	105	105	4875	4465	509	10/12	1800	1800
	4000	2698	105	105	5175	4765	509	10/12	1800	1800
	4500	2948	105	105	5675	5265	509	10/12	1500	1400
	5000	3198	105	105	6175	5765	509	6/6	1300	1200
	5500	3498	105	105	6675	6265	509	6/6	1000	900
	6000	3748	105	105	7175	6765	509	6/6	800	700
3FFL	3600	1908	725	1105	4775	4395	550	10/12	1800	1800
	4000	2033	850	1230	5175	4795	550	10/12	1800	1800
	4350	2158	980	1360	5525	5145	550	10/12	1800	1700
	4500	2208	1030	1410	5675	5295	550	10/12	1500	1400
	4800	2308	1130	1510	5975	5595	550	10/12	1400	1300
	5000	2408	1230	1610	6175	5795	550	6/6	1300	1200
	5500	2573	1390	1770	6675	6295	550	6/6	1000	900
	6000	2758	1580	1960	7175	6795	550	6/6	800	700
	6500	2973	1790	2180	7675	7295	550	6/6	350	250

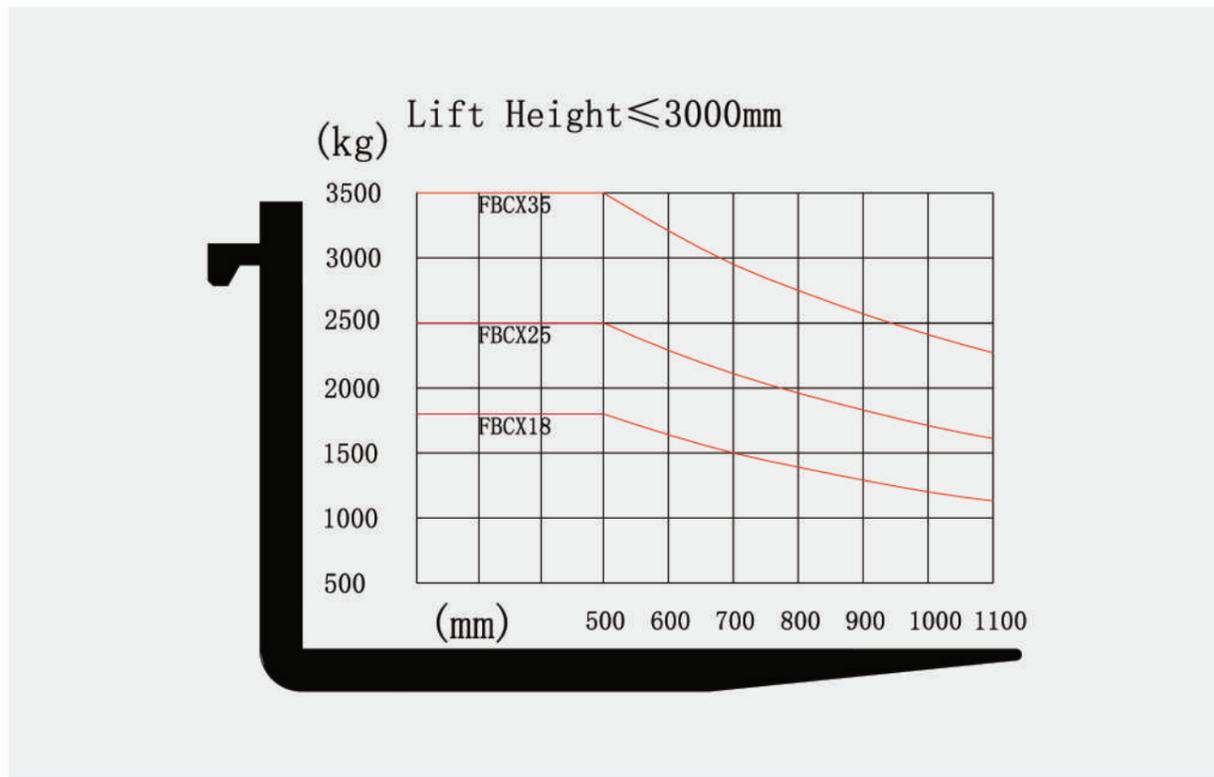
**CX SERIES FBCX25 Mast**

Mast type	Lift Height (mm)	Lowered Mast Height (mm)	Free Lift Height (mm)		Extended Mast Height (mm)		Load Distance (mm)	Tilt of Mast forward/backward (°)	Rated Capacity @500mm LC	
			With LBR	Without LBR	With LBR	Without LBR			Without SS	With SS
2LFL	2700	2085	160	160	3880	3590	585	10/12	2500	2500
	3000	2235	160	160	4180	3890	585	10/12	2500	2500
	3300	2385	160	160	4480	4190	585	10/12	2500	2500
	3500	2485	160	160	4680	4390	585	10/12	2500	2500
	3700	2585	160	160	4880	4590	585	10/12	2500	2500
	4000	2785	160	160	5180	4890	585	10/12	2500	2500
3FFL	4500	3035	160	160	5680	5390	585	10/12	2200	2100
	3700	1990	798	1243	4880	4435	590	10/12	2500	2400
	4000	2080	888	1333	5180	4735	590	10/12	2500	2400
	4350	2205	1013	1458	5530	5085	590	10/12	2400	2300
	4700	2320	1128	1573	5880	5435	590	10/12	2100	2000
	5000	2455	1263	1708	6180	5735	590	6/6	1900	1800
	5500	2620	1428	1873	6680	6235	590	6/6	1500	1400
	6000	2805	1613	2058	7180	6735	590	6/6	1200	1100

**CX SERIES FBCX35 Mast**

Mast type	Lift Height (mm)	Lowered Mast Height (mm)	Free Lift Height (mm)		Extended Mast Height (mm)		Load Distance (mm)	Tilt of Mast forward/backward (°)	Rated Capacity @500mm LC	
			With LBR	Without LBR	With LBR	Without LBR			Without SS	With SS
2LFL	2700	2180	165	165	4005	3625	600	10/12	3500	3400
	3000	2330	165	165	4305	3925	600	10/12	3500	3400
	3300	2480	165	165	4605	4225	600	10/12	3500	3400
	3500	2580	165	165	4805	4425	600	10/12	3500	3400
	3700	2680	165	165	5005	4625	600	10/12	3500	3400
	4000	2880	165	165	5305	4925	600	10/12	3500	3400
3FFL	4500	3130	165	165	5805	5425	600	10/12	3100	2900
	3700	2115	790	1246	5005	4560	620	10/12	3500	3400
	4000	2205	890	1336	5305	4860	620	10/12	3500	3400
	4350	2330	1015	1461	5655	5210	620	10/12	3000	2900
	4700	2445	1130	1576	5905	5460	620	10/12	2600	2500
	5000	2580	1265	1710	6205	5760	620	6/6	2600	2500
	5500	2745	1430	1875	6705	6260	620	6/6	2300	2200
	6000	2930	1615	2060	7205	6760	620	6/6	1700	1600

**CX SERIES FBCX18-35 Load Curve**



**CX SERIES FBCX18-35 Specification**

