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CX SERIES

ELECTRIFICATION 2WD

ROUGH TERRAIN

FORKLIFT 1.8-3.5T



CX Series Forklift



maximal



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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 ₁₀ (mm)	1125	1250	1250
	3.7	Tread, rear	b ₁₁ (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 ₁ (mm)	2148	2235	2330
	4.3	Free lift	h ₂ (mm)	105	160	165
	4.4	Lift	h ₃ (mm)	3000	3000	3000
	4.5	Height, mast extended	h ₄ (mm)	4150	4180	4305
	4.7	Height of overhead guard(cabin)	h ₆ (mm)	2256	2256	2276
	4.8	Seat height/stand height	h ₇ (mm)	1256	1256	1275
	4.12	Towing coupling height	h ₁₀ (mm)	385	385	385
	4.19	Overall length	l ₁ (mm)	3980	4056	4071
	4.20	Length to face of forks	l ₂ (mm)	2910	2986	3001
	4.21	Overall width, Std/Dual	b ₁ /b ₂ (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 ₃ (mm)	1370	1370	1520
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	240	240	240
	4.32	Ground clearance, centre of wheelbase	m ₂ (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

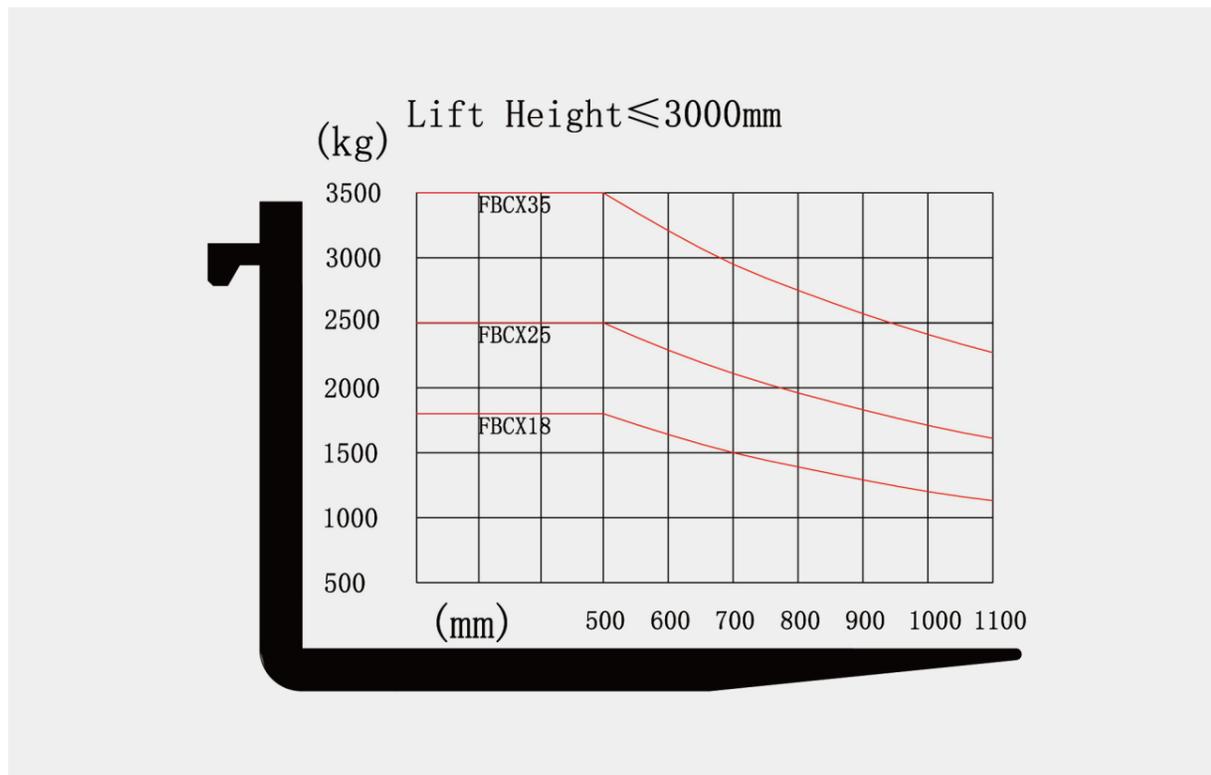
CX SERIES FBCX25 Mast

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

