FTB16-20U

THREE-WHEEL DUAL FRONT-DRIVE ELECTRIC COUNTERBALANCED FORKLIFT

1.6 - 2.0 TONS



ENGINEERED FOR FLEXIBILITY

The FTB electric forklift series is engineered for flexibility, combining enhanced component quality with a proven forklift layout. Designed to improve operational performance while reducing maintenance demands, the FTB16–20U is available in 1.6, 1.8, and 2.0 tonne load capacities to suit a wide range of applications.

SAFETY

- Large-capacity tilt cylinder supports smooth, stable handling of heavy loads
- Reinforced rear wheel design accommodates varying work intensities
- Open-view overhead guard improves upward visibility for safer operation

ERGONOMICS

- Shorter chassis and tight turning radius increase manoeuvring space by up to 40%
- Overhead LED display provides clear visibility during operation
- Larger operator space supports comfort during extended working hours



CONSISTENCY

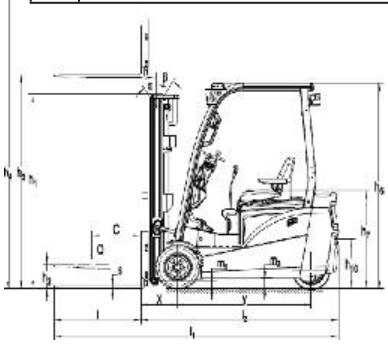
- Dual charging ports support both fast and standard charging options
- High-capacity 80V lithium battery delivers stable, continuous performance
- Electronic controls integrated within the counterweight for enhanced protection
- High-output drive motor meets diverse operational demands

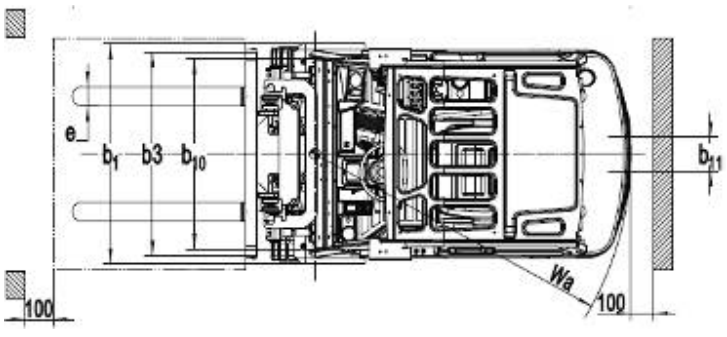
CONVENIENCE

- Compact dimensions and small turning radius suit varied working environments
- Wide-view mast supports accurate and confident load handling
- Spacious service access simplifies inspection and routine maintenance

SPECIFICATIONS

CHARACTERISTICS						
1.1	Manufacturer (abbreviation)			TCM Forklift Trucks		
1.2	Manufacturer's type designation			FTB16U	FTB18U	FTB20U
1.3	Power source:			Electric	Electric	Electric
1.4	Operator type: pedestrian, (operator) - standing, - seated			Seated	Seated	Seated
1.5	Load capacity	Q	(kg)	1600	1800	2000
1.6	Load centre distance	c	(mm)	500	500	500
1.7	Load distance, centre of drive axle to fork	x	(mm)	372	377	377
1.8	Wheelbase	y	(mm)	1360	1360	1360
WEIGHT						
2.1	Service weight incl. battery(see line 6.5)		kg	3080	3200	3400
2.2	Axle loading, unladen front/rear		kg	4160/520	4450/550	4790/610
2.3	Axle loading,unladen front/rear		kg	1470/1610	1530/1670	1640/1760
WHEEL CHASSIS						
3.1	Type:solid rubber,superelastic,pneumatic,poly-urethane			Solid Rubber	Solid Rubber	Solid Rubber
3.2	Tyres size, front			18×7-8	18×7-8	200/50-10
3.3	Tyres dimensions, rear			140/55-9	140/55-9	140/55-9
3.4	Wheels, number front/rear(x=driven wheels)			2×/2	2×/2	2×/2
3.5	Track widtth, front	b10	(mm)	902	902	940
3.6	Track width, rear	b11	(mm)	210	210	210
BASIC DIMENSIONS						
4.1	Mast/fork carriage tilt forward/backward	α/β	(°)	5/7	5/7	5/7
4.2	Lowered mast height	h1	(mm)	1995	1995	1995
4.3	Free lift	h2	(mm)	120	125	125
4.4	Extended mast height	h3	(mm)	3000	3000	3000
4.5	Extended mast height	h4	(mm)	3955	3955	3955
4.6	Overhead load guardheight	h6	(mm)	2100	2100	2100
4.7	Seat height/standing height	h7	(mm)	1005	1005	1005
4.8	Coupling height	h10	(mm)	520	520	520
4.9	Overall length	l1	(mm)	2925	3080	3080
4.10	Length to face of forks	l2	(mm)	2005	2010	2010
4.11	Overall width	b1	(mm)	1084	1084	1145
4.12	Fork dimensions	s/e/l	(mm)	35/100/920	40/100/1070	40/100/1070
4.13	Fork carriage width	b3	(mm)	1040	1040	1040
4.14	Ground clearance ,laden,under mast	m1	(mm)	115	115	115
4.15	Ground clearance,centre of wheelbase	m2	(mm)	105	105	105
4.16	Aisle width for pallets 1000×1200 crossways	Ast	(mm)	3318	3323	3323
4.17	Aisle width for pallets 800×1200 lengthways	Ast	(mm)	3443	3447	3447
4.18	Turning radius	Wa	(mm)	1620	1620	1620
PERFORMANCE DATA						
5.1	Travel speed, laden/unladen		kh / h	15/15	15/15	15/15
5.2	Lift speed, laden/unladaen		m/s	0.40/0.50	0.40/0.50	0.40/0.50
5.3	Lowering speed, laden/unladen		m/s	0.50/0.50	0.50/0.50	0.50/0.50
5.4	Max.Drawbar pull, laden/unladen		N	11500/10500	12500/11500	13500/12500
5.5	Max.Gradient performance, laden/unladen		%	15/20	15/20	15/20
5.6	Service brakae			hydraulic	hydraulic	hydraulic
ELECTRIC MOTOR						
6.1	Drive motor rating S2 60 min		kW	5.5*2	5.5*2	5.5*2
6.2	Lift motor rating at S3 15%		kW	12	12	12
6.3	Battery standard			Li-Ion	Li-Ion	Li-Ion
6.4	Battery voltage,nominal capacity K5		V / Ah	76.8/150(277/412)	76.8/150(277/412)	76.8/150(277/412)
6.5	Battery weaight		kg	160/230/300	160/230/300	160/230/300
	Battery dimensions l/w/h		(mm)	819×400×605	819×400×605	819×400×605
OTHER DETAILS						
7.1	Type of drive control			AC	AC	AC
7.2	Operating pressure for attachments		Mpa	17.5	17.5	17.5
7.3	Oil volume for attachments		l/min	36	36	36
7.4	Sound level at driver's ear according to EN 12 053		dB (A)	73	73	73







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Performance data and dimensions are normal and subject to tolerances.
Produced in ISO certified factory.

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