

PRELIMINARY

TECHNICAL SPECIFICATIONS

FTB16-20-Q1

TCM Lite Range, optimal specification for day to day operations, without compromising engineering excellence, long-term performance and outstanding reliability.

EASY TO USE, SIMPLE TO MAINTAIN.

TCM FTB16-20-Q1 with 1600 kg and 2000 kg load capacity and up to 6 metre lift height, delivers the optimum power and **3-wheel small turning circle for light to medium-duty tasks both indoor and outdoor**, ensuring effective performance without overspecification.

Intuitive, straightforward **mechanical control** reduces training time and boosts productivity from day one.

Comfort-focused seat design minimises vibration, reducing operator fatigue and enhancing focus.

Superior shock absorption with front and rear **super elastic tyres** for smooth handling and extended tyre life, even on uneven surfaces.

Full road light kit (including hazard light button) meets visibility standards for safer operation indoors and outdoors. **Blue spot** projects a clear warning light to alert pedestrians, reducing collision risks in busy areas. High visibility **strobe light** in low-light conditions enhances safety across all environments.

Audible alerts from the **reverse warning buzzer** improve awareness and prevent accidents during reversing manoeuvres. **Parabolic mirror** with wider rear visibility eliminates blind spots for safer navigation.

Rapid opportunity-charging **Li-ion standard battery (no lead acid)** with zero maintenance, and no water filling, is always ready to keep your business moving.



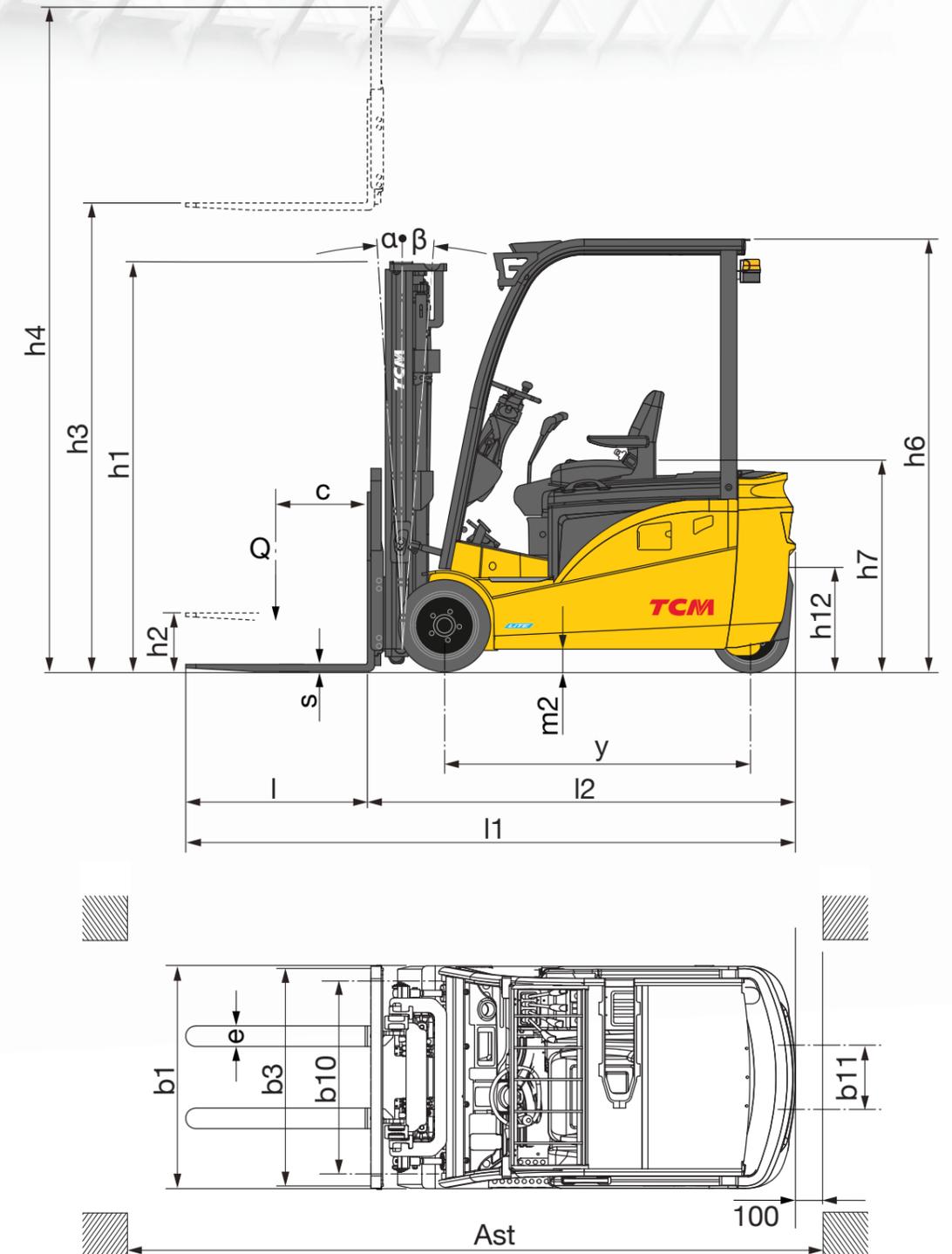
STANDARD SPECIFICATIONS

CHARACTERISTICS				TCM Forklifts	
1.01	Manufacturer			FTB16-Q1	FTB20-Q1
1.02	Manufacturer's model designation			Electric	Electric
1.03	Power source: (battery, diesel, LPG, petrol)			Seated	Seated
1.04	Operator type: pedestrian, standing, seated			1600	2000
1.05	Load capacity	Q	(kg)	500	500
1.06	Load centre distance	c	(mm)	381	386
1.08	Load distance, axle to fork face	x	(mm)	1410	1410
1.09	Wheelbase	y	(mm)		
WEIGHT					
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	2900	3200
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	3020/480	4670/530
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1220/1680	1400/1800
WHEELS, DRIVE TRAIN					
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			Super Elastic	Super Elastic
3.02	Tyre dimensions, front			6.50-10-10PR	6.50-10-10PR
3.03	Tyre dimensions, rear			5.00-8-10PR	5.00-8-10PR
3.05	Number of wheels, front/rear (x=driven)			2x / 2	2x / 2
3.06	Track width (centre of tyres), front	b10	(mm)	970	970
3.07	Track width (centre of tyres), rear	b11	(mm)	920	920
DIMENSIONS					
4.01	Mast tilt, forwards/backwards	α/β	°	see table	see table
4.02	Height with mast lowered (see tables)	h1	(mm)	see table	see table
4.03	Free lift (see tables)	h2	(mm)	see table	see table
4.04	Lift height (see tables)	h3	(mm)	see table	see table
4.05	Overall height with mast raised	h4	(mm)	see table	see table
4.07	Height to top of overhead guard	h6	(mm)	2150	2150
4.08	Seat height	h7	(mm)	1085	1085
4.12	Tow coupling height	h10	(mm)	460	460
4.19	Overall length	l1	(mm)	3045	3195
4.20	Length to fork face (includes fork thickness)	l2	(mm)	2125	2125
4.21	Overall width	b1/b2	(mm)	1150	1150
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	35/100/920	40/100/1070
4.23	Fork carriage iso 2328/30, FEM/A,B				
4.24	Fork carriage width	b3	(mm)	1040	1040
4.31	Ground clearance under mast, with load	m1	(mm)	98	98
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2	(mm)	100	100
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast	(mm)	3501	3506
4.34a	Working aisle width with 800 x1200 mm pallets, crosswise	Ast	(mm)		
4.34b	Working aisle width with 800 x1200 mm pallets, lengthwise	Ast	(mm)	3701	3706
4.35	Turning circle radius	Wa	(mm)	1920	1920
4.36	Minimum distance between centres of rotation	b13	(mm)		
PERFORMANCE					
5.01	Travel speed, with/without load		km/h	14/15	14/15
5.02	Lifting speed, with/without load		m/s	0.32/0.42	0.32/0.42
5.03	Lowering speed, with/without load		m/s	0.52/0.42	0.52/0.42
5.05	Rated drawbar pull, with/without load		N		
5.06	Rated drawbar pull, with/without load (5 min short duty)		N		
5.07	Gradeability, with/without load		%		
5.08	Maximum gradeability, with/without load		%	15/20	15/20
5.09	Acceleration time (10 metres) with / without load		s		
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Hydraulic	Hydraulic
ELECTRIC MOTOR					
6.01	Drive motor capacity (60 min. short duty)		kW	11	11
6.02	Lift motor output at 15% duty factor		kW	12	12
6.03	Battery to DIN 43 531 / 35 / 36 A / B / C / no			Li-ion	Li-ion
6.04	Battery voltage	V/Ah		76.8 / 125 (206 option)	76.8 / 125 (206 option)
6.05	Battery weight (including container)		kg	160/200	160/200
6.6a	Energy consumption according to DIN EN 16796		kWh		
6.6b	Energy consumption acc. to VDI cycle ¹		kWh		
MISCELLANEOUS					
8.01	Type of drive control			AC	AC
10.01	Maximum operating pressure for attachments		bar	14.5	14.5
10.02	Oil flow for attachments		l/min	30	30
10.07	Noise level, value at operator's ear (EN 12053)		dB(A)	72	72
10.08	Towing coupling, type DIN 1517				

1. Cycles performed / cycles requested

OPTIONS	
Integrated & external charger	- for fast and flexible charging options
Higher travel and lift speed	- for faster handling and shorter cycle times
Glass roof on standard overhead guard	- to keep operator dry increasing safety from falling goods
Fingertip incl forward reverse	- for effortless precision control
High end seat - Grammar MSG65	- for greater operator comfort and posture support
Front window with wiper	- for visibility in light rain and dusty conditions
Cold storage modification	- for greater efficiency in low temperature settings
Non-marking SE tyres	- to keep floors clean and mark-free
Fork positioner including sideshift	- for faster more accurate load placement

DIMENSIONS FTB16-20-Q1



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MAST SPECIFICATIONS & RATED CAPACITIES

FTB16-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FTB16-Q1			
		Lowered	Extended			Without sideshift		With sideshift	
		Load capacity (kgs) @ load centre (mm) - Super elastic tyres							
h3	h1	h4	h2	∅/β	500	600	500	600	
DUPLEX	3000	1995	3955	125	5/7	1600	1430	1450	1280
	3300	2145	4255	125	5/7	1600	1430	1450	1280
	4000	2545	4955	125	3/5	1500	1340	1350	1190
TRIPLEX	4350	2065	5305	1110	3/5	1450	1300	1300	1150
	4500	2115	5455	1160	3/5	1400	1250	1250	1100
	4799	2155	5755	1200	3/5	1300	1160	1150	1010
	5000	2315	5955	1360	3/5	1200	1070	1050	920
	5500	2465	6455	1510	3/5	1100	980	950	830
6000	2665	6955	1710	3/5	800	710	650	560	

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		Load capacity (kgs) @ load centre (mm) - Super elastic tyres							
h3	h1	h4	h2	∅/β	500	600	500	600	
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	3300	2145	4255	125	5/7	2000	1790	1850	1640
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	4500	2115	5455	1160	3/5	1800	1610	1650	1460
	4799	2155	5755	1200	3/5	1600	1430	1450	1280
	5000	2315	5955	1360	3/5	1500	1340	1350	1190
	5500	2465	6455	1510	3/5	1300	1160	1150	1010
6000	2665	6955	1710	3/5	1000	890	850	740	

