

PRELIMINARY

TECHNICAL SPECIFICATIONS

FB16-20-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 FB16-20-Q1 with 1600 kg and 2000 kg load capacity and up to 6 metre lift height, delivers the optimum **power and 4-wheel stability for light to medium-duty tasks both indoor and on outdoor uneven surfaces**, 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.



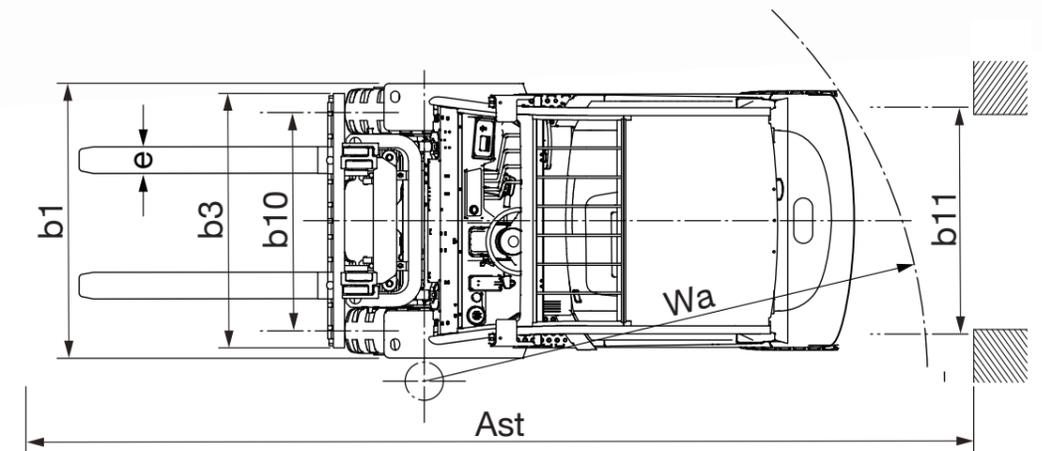
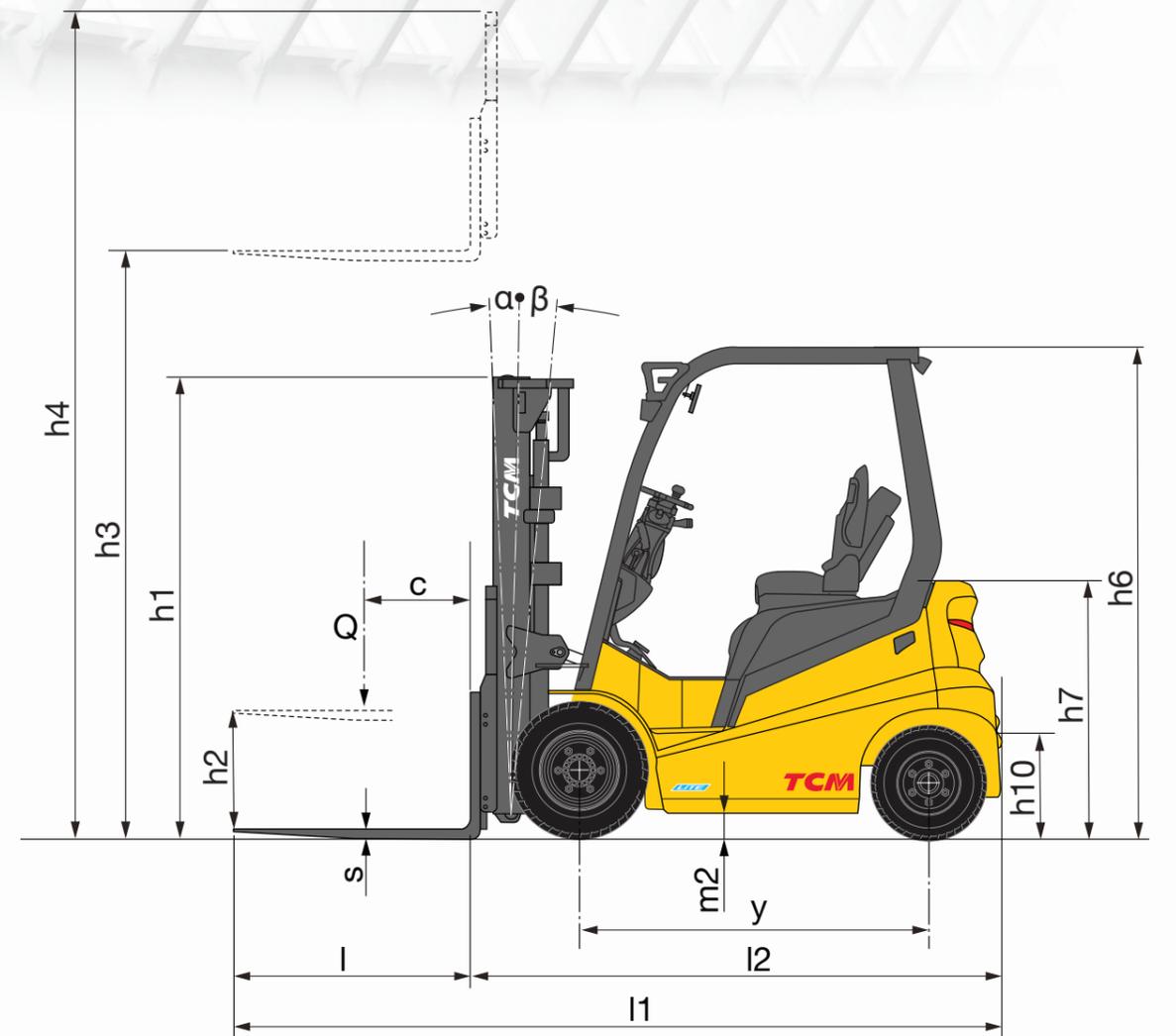
STANDARD SPECIFICATIONS

CHARACTERISTICS		TCM Forklifts	
1.01	Manufacturer		
1.02	Manufacturer's model designation	FB16-Q1	FB20-Q1
1.03	Power source: (battery, diesel, LPG, petrol)	Electric	Electric
1.04	Operator type: pedestrian, standing, seated	Seated	Seated
1.05	Load capacity	Q (kg)	1600 / 2000
1.06	Load centre distance	c (mm)	500 / 500
1.08	Load distance, axle to fork face	x (mm)	372 / 377
1.09	Wheelbase	y (mm)	1360 / 1490
WEIGHT			
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	3100 / 3520
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	4180/520 / 4910/610
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	1490/1610 / 1700/1820
WHEELS, DRIVE TRAIN			
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		Super Elastic / Super Elastic
3.02	Tyre dimensions, front		18x7-8 / 200/50-10
3.03	Tyre dimensions, rear		15x4.5/-8 / 15x4.5/-8
3.05	Number of wheels, front/rear (x=driven)		2x / 2
3.06	Track width (centre of tyres), front	b10 (mm)	902 / 902
3.07	Track width (centre of tyres), rear	b11 (mm)	187 / 187
DIMENSIONS			
4.01	Mast tilt, forwards/backwards	α/β °	5 / 7 / 5 / 7
4.02	Height with mast lowered (see tables)	h1 (mm)	1995 / 1995
4.03	Free lift (see tables)	h2 (mm)	125 / 125
4.04	Lift height (see tables)	h3 (mm)	3000 / 3000
4.05	Overall height with mast raised	h4 (mm)	3955 / 3955
4.07	Height to top of overhead guard	h6 (mm)	2100 / 2100
4.08	Seat height	h7 (mm)	1005 / 1005
4.12	Tow coupling height	h10 (mm)	465 / 465
4.19	Overall length	l1 (mm)	2870 / 3155
4.20	Length to fork face (includes fork thickness)	l2 (mm)	1950 / 2085
4.21	Overall width	b1 (mm)	1084 / 1084
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)	105 / 105
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2 (mm)	105 / 105
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast (mm)	3268 / 3403
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)	3393 / 3527
4.35	Turning circle radius	Wa (mm)	1570 / 1700
4.36	Minimum distance between centres of rotation	b13 (mm)	
PERFORMANCE			
5.01	Travel speed, with/without load	km/h	14/15 / 13/15
5.02	Lifting speed, with/without load	m/s	0.32/0.4 / 0.30/0.4
5.03	Lowering speed, with/without load	m/s	< 600 / < 600
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 / 13/18
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	4.5' / 4.5'
6.02	Lift motor output at 15% duty factor	kW	8.6 / 8.6
6.03	Battery to DIN 43 531 / 35 / 36 A / B / C / no		Li-ion / Li-ion
6.04	Battery voltage	V/Ah	Lion:51.2/ 206(277option) / Lion:51.2/ 206(277option)
6.05	Battery weight (including container)	kg	450 / 450
6.6a	Energy consumption according to DIN EN 16796	kW/h	
6.6b	Energy consumption acc. to VDI cycle ²	kW/h	
MISCELLANEOUS			
8.01	Type of drive control		AC / AC
10.01	Maximum operating pressure for attachments	bar	17.5 / 17.5
10.02	Oil flow for attachments	l/min	36 / 36
10.07	Noise level, value at operator's ear (EN 12053)	dB(A)	73 / 73
10.08	Towing coupling, type DIN 15170		

1. Custom design fork carriage 2. 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 FB16-20-Q1



FB16-20-Q1

MAST SPECIFICATIONS & RATED CAPACITIES

FB16-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FB16-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	2053	3982	130	6/10	1600	1450	1450	1300
	3300	2203	4282	110	6/10	1600	1450	1450	1300
	4000	2603	4982	110	6/6	1500	1360	1350	1210
TRIPLEX	4300	2103	5280	1153	6/6	1400	1270	1250	1120
	4500	2153	5480	1203	6/6	1300	1170	1150	1020
	4800	2253	5780	1303	6/6	1000	900	850	750
	5000	2353	5980	1403	6/6	900	816	750	666
	5500	2503	6480	1553	3/6	800	725	650	575
	6000	2703	6980	1753	3/6	700	635	550	485

FB20-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FB20-Q1			
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		Load capacity (kgs) @ load centre (mm) - Super elastic tyres							
	h3	h1	h4	h2	∅/β	500	600	500	600
DUPLEX	3000	2053	3982	130	6/10	2000	1810	1850	1660
	3300	2203	4282	110	6/10	2000	1810	1850	1660
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TRIPLEX	4300	2103	5280	1153	6/6	1600	1450	1600	1300
	4500	2153	5480	1203	6/6	1500	1360	1500	1210
	4800	2253	5780	1303	6/6	1200	1080	1200	930
	5000	2353	5980	1403	6/6	1100	990	1100	840
	5500	2503	6480	1553	3/6	900	810	900	660
	6000	2703	6980	1753	3/6	800	725	800	575

