FBM60-80LU

LITHIUM BATTERY
COUNTERBALANCED FORKLIFT TRUCKS
6.0 - 8.0 TONS



LITHIUM BATTERY COUNTERBALANCED FORKLIFT

The FBM counterweight forklift series is designed for practical operation and dependable performance. Equipped with a robust electrical system and a compact, well-balanced structure, the FBM60–80LU is suited to a wide range of working environments. Supporting both lead-acid and lithium battery configurations, it is available in 6, 7, and 8 tonnes.

SAFETY

- AI-assisted vision system improves surrounding visibility
- Wide-angle rearview mirrors support safe operation
- LED work lights and audible-visual warning systems enhance site awareness
- OPS (Operator Presence System) complies with European safety standards

PERFORMANCE

- Smooth mast movement reduces component stress during handling
- Steering angle sensor regulates speed during cornering
- Compact turning radius supports efficient manoeuvring in confined areas
- Stable power delivery supports consistent operation across work cycles



ERGONOMIC

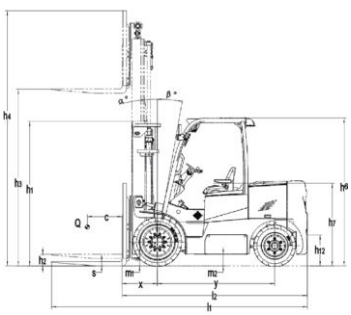
- Secondary pedal and large handhold improve ease of access
- Multifunctional display provides clear vehicle information
- Spacious operator compartment with suspension seat enhancing comfort during use
- Integrated storage accommodates personal items

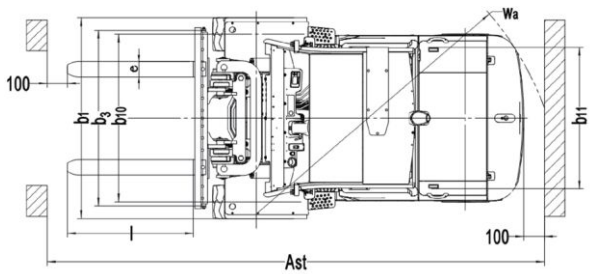
CONVENIENCE

- Compatible with lead-acid and lithium battery systems
- Side-mounted oil pump motor and controller enable simplified service access
- Split hydraulic oil tank supports ease of inspection and cleaning

SPECIFICATIONS

CHARACTERISTICS					
1.1	Manufacture (abbreviation)		TCM Forklift Trucks		
1.2	Manufacturer's type designation		FBM60LU	FBM70LU	FBM80LU
1.3	Drive: Electric (Battery or Mains), Diesel, Petrol gas, Manual		Electric		
1.4	Type of operation (Hand, Pedestrian, Standing, Seated, Order-picker)		Seated		
1.5	Load capacity/rated load	Q (kg)	6000	7000	8000
1.6	Load centre distance	c (mm)	600		
1.7	Load distance, centre of drive axle to fork	x (mm)	595	600	610
1.8	Wheelbase	y (mm)	2030		
WEIGHT					
2.1	Service weight incl. battery (see line 6.5)	kg	Li-Ion: 19646 (8930)	Li-Ion: 20680 (9400)	Li-Ion: 24640 (11200)
2.2	Axle loading, laden front/rear	kg	Li-Ion: 29018 / 3828 (13190 / 1740)	Li-Ion: 32010 / 4070 (14550 / 1850)	Li-Ion: 37928 / 4312 (17240 / 1960)
2.3	Axle loading, unladen front/rear	kg	Li-Ion: 8030 / 11616 (3650 / 5280)	Li-Ion: 7480 / 13200 (3400 / 6000)	Li-Ion: 9504 / 15136 (4320 / 6880)
WHEEL CHASSIS					
3.1	Type: solid rubber, superelastic, pneumatic, polyurethane		Solid Rubber		
3.2	Tyres size, front		355 / 65 - 15		355 / 50 - 20
3.3	Tyres size, rear		250 - 15		
3.4	Wheels, number front/rear (x=driven wheels)		2x / 2		
3.5	Track width, front	b10 (mm)	1574		1623
3.6	Track width, rear	b11 (mm)	1370		
BASIC DIMENSIONS					
4.1	Mast/fork carriage tilt forward/backward	α/β(°)	5 / 10		
4.2	Lowered mast height	h1 (mm)	2500		
4.3	Free lift	h2 (mm)	185	190	200
4.4	Lift height	h3 (mm)	3000		
4.5	Extended mast height	h4 (mm)	4420		
4.6	Overhead load guard height	h6 (mm)	2560		
4.7	Seat height/standing height	h7 (mm)	1430		
4.8	Coupling height	h10 (mm)	535		
4.9	Overall length	l1 (mm)	4407	4412	4427
4.10	Length to face of forks	l2 (mm)	3187	3192	3207
4.11	Overall width	b1 (mm)	1870		1945
4.12	Fork dimensions	s/e/l (mm)	60/150/1220	65/150/1220	75/150/1220
4.13	Fork carriage width	b3 (mm)	1700		
4.14	Ground clearance, laden, under mast	m1 (mm)	200		
4.15	Ground clearance, centre of wheelbase	m2 (mm)	198		
4.16	Aisle width for pallets 1000×1200 crossways	Ast (mm)	4770	4775	4790
4.17	Aisle width for pallets 800×1200 lengthways	Ast (mm)	4970	4975	4990
4.18	Turning radius	Wa (mm)	2980		
PERFORMANCE DATA					
5.1	Travel speed,laden/unladen	mph (km/h)	15 / 15.5		
5.2	Lift speed,laden/unladen	fpm (mm/s)	340 / 390	320 / 390	300 / 390
5.3	lowering speed,laden/unladen	fpm (mm/s)	400 / 430	390 / 430	380 / 430
5.4	Drawbar pull, laden/unladen S2 60min	lbf (N)	36000		
5.5	Max.Gradient performance, laden/unladen S2 5 min	%	15		14
5.6	Service brake		Hydraulic		
ELECTRIC MOTOR					
6.1	Drive motor rating S2 60 min	kW	35		
6.2	Lift motor rating at S3 15%	kW	40		
6.3	Battery standard		Li-Ion		
6.4	Battery voltage, nominal capacity K5	V/Ah	Li-Ion: 96 / 412		
6.5	Battery weight	kg	Li-Ion: 550		
	Battery dimensions l/w/h	mm	1420 / 610 / 570		
OTHER DETAILS					
7.1	Type of drive control		AC		
7.2	Operating pressure for attachments	MPa	230		
7.3	Oil volume for attachments	l/min	80		
7.4	Sound level at driver's ear according to EN 12053	dB(A)	74		75







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

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