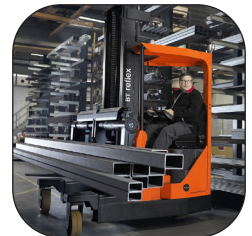
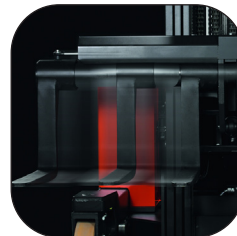
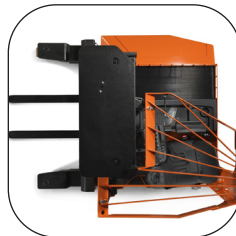


4-way Reach truck 2.7 ton

BT reflex
F-series
FRE270



4-way Reach truck

Truck specifications						FRE270
Identification	1.1	Manufacturer				Toyota
	1.2	Model				FRE270
	1.3	Drive				Electric
	1.4	Operator type				Rider seated
	1.5	Load capacity/rated load	Q	kg		2700
	1.6	Load centre	c	mm		400 ¹⁾ /600 ²⁾
	1.8	Load distance, centre of drive axle to fork	x	mm		450
	1.9	Wheelbase	y	mm		1514
Weight	2.1	Service weight including battery		kg		4520 ³⁾
	2.3	Axle load, mast retracted without load, drive/support arm wheel		kg		3323/1351
	2.4	Axle load, mast extended with load, drive/support arm wheel		kg		1366/6016
	2.5	Axle load, mast retracted with load, drive/support arm wheel		kg		3360/4020
Wheels	3.1	Drive/fork wheel				Polyurethane
	3.2	Wheel size front (load end), load wheel/swivel castor				350x108 / 300x50 (2)
	3.3	Wheel size rear (driver end), drive wheel/swivel castor				350x128 / 230x65 (2)
	3.5	Wheels, number front/rear (x=driven wheels)				2/2 (1x)
	3.6	Track width, front (load end)	b ₁₀	mm		1560
	3.7	Track width, rear (driver end)	b ₁₁	mm		825
Dimensions	4.1	Tilt of fork, forward/backward	α/β	deg		6/3
	4.2	Height, mast lowered	h ₁	mm		2950
	4.3	Free lift	h ₂	mm		2087
	4.4	Lift	h ₃	mm		6255
		Lift height	h ₂₃	mm		6300
	4.5	Height, mast extended	h ₄	mm		7120
	4.7	Height of overhead guard (cab)	h ₆	mm		2260
	4.8	Seat height	h ₇	mm		1160
	4.10	Height of support arms	h ₈	mm		480
	4.15	Height of lowered forks	h ₁₃	mm		45
	4.19	Overall length	l ₁	mm		2610*
	4.20	Length to face of forks	l ₂	mm		1460
	4.21	Overall width	b ₁	mm		1710
	4.22	Fork dimensions	s/e/l	mm		45/100 ¹⁾ /1150, 45/125 ²⁾ /1150
	4.25	Width over forks (fork adjustment min-max)	b ₅	mm		540/2220 ¹⁾ , 400/960 ²⁾
	4.26	Distance between support arms (load surface)	b ₄	mm		1295
	4.28	Reach distance	l ₄	mm		700
	4.32	Ground clearance, centre of wheelbase	m ₂	mm		130
	4.33	Aisle width for pallets 1000 x 1200 crossways	A _{st}	mm		2860
	4.34	Aisle width for pallets 800 x 1200 lengthways	A _{st}	mm		3060
Performance data	4.35	Turning radius	W _a	mm		1988
	4.37	Length over support arms	l ₇	mm		1960
	5.1	Travel speed, with/without load		km/h		8,0/8,0
	5.2	Lift speed, with/without load		m/s		0,25/0,44
	5.3	Lowering speed, with/without load		m/s		0,33/0,38
Electric motor	5.8	Max. gradeability, with/without load ⁴⁾		%		7/12
	5.10	Service brake				Electrical
	6.1	Drive motor rating S2 60 min		kW		7,5
	6.2	Lift motor rating S3 15%		kW		14
	6.4	Battery voltage, nominal capacity K _s		V/Ah		48/750
	6.5	Battery weight		kg		1150
Other	6.6	Energy consumption acc to VDI cycle ⁵⁾		kWh/h		3,5
	8.1	Type of drive control				Transistor, stepless
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)		72

¹⁾ Type "a" fork spreader (spread 540-2220 mm)

²⁾ Type "b" fork spreader (spread 400-960 mm)

³⁾ Triplex mast 6300 mm lift height

⁴⁾ Measured according to company standard

⁵⁾ Contact your supplier for information

*) Depends on length of forks

All data are based on table configuration. Other configurations may give other values.

Truck performance and dimensions are nominal and subject to tolerances.

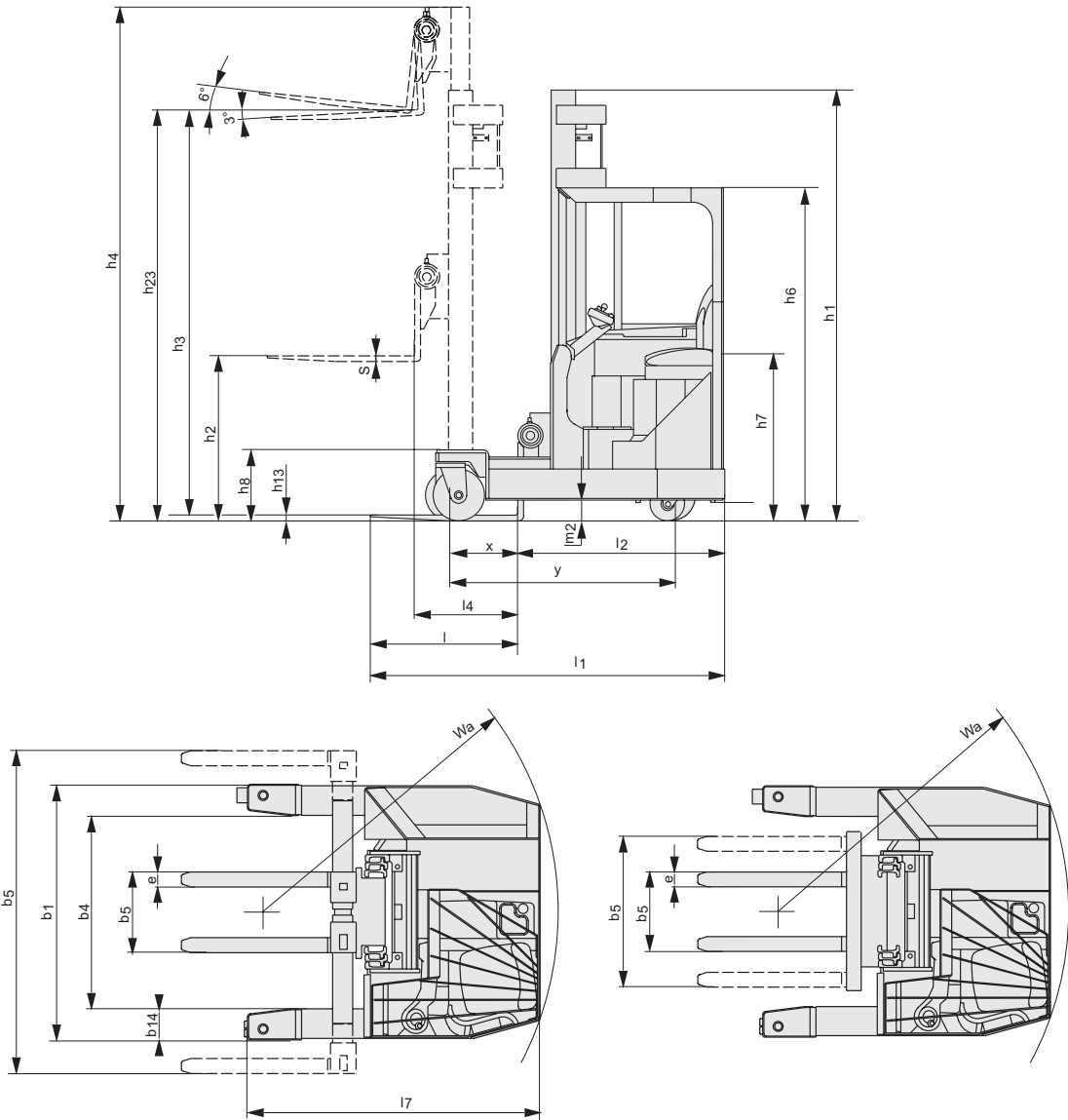
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Mast dimensions, mm

BT reflex

FRE270				Duplex Hi-Lo		Triplex Hi-Lo							
Lift height		h_{23}	mm	4150	4500	4800	5400	5700	6300	6700	7000	7500	8000
Lift		h_3	mm	4105	4455	4755	5355	5655	6255	6655	6955	7455	7955
FRE270	Height, mast lowered	h_1	mm	2920	3100	2450	2650	2750	2950	3180	3280	3550	3710
	Free lift	h_2	mm	2050	2230	1587	1787	1887	2087	2320	2420	2687	2853
	Heigh, mast extended	h_4	mm	4980	5330	5620	6220	6520	7120	7520	7820	8330	8820

Fork spread type			Load center		Residual capacity		Lift height	
FRE270		mm	400	600	kg		h_{23} mm	
	Fork spread 540—2220 ("a")	mm	X		2700		5700	
		mm	X		2200		8000	
		mm		X	2250		5400	
		mm		X	1700		8000	
	Fork spread 400—960 ("b")	mm	X		2700		6300	
		mm	X		2200		8000	
		mm		X	2700		4500	
		mm		X	1700		8000	



"a" Wide fork spread across support arms

"b" Thin fork spread between support arms

Truck features:

- 4-way, AC powered reach truck
- Four wheel truck for maximum stability
- Clear view mast: Duplex, and Triplex with fork tilt
- Hydraulic fork spreader as standard
- Ergonomic work place with front seated driver
- All hydraulic functions controlled by mini levers
- 360° steering for maximum maneuverability
- Steering direction indicator
- Automatic parking brake
- Battery on roller for easy horizontal battery change



TMHE-Toyota Material Handling Europe — 747600-040, version 3, 2019-10-28

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