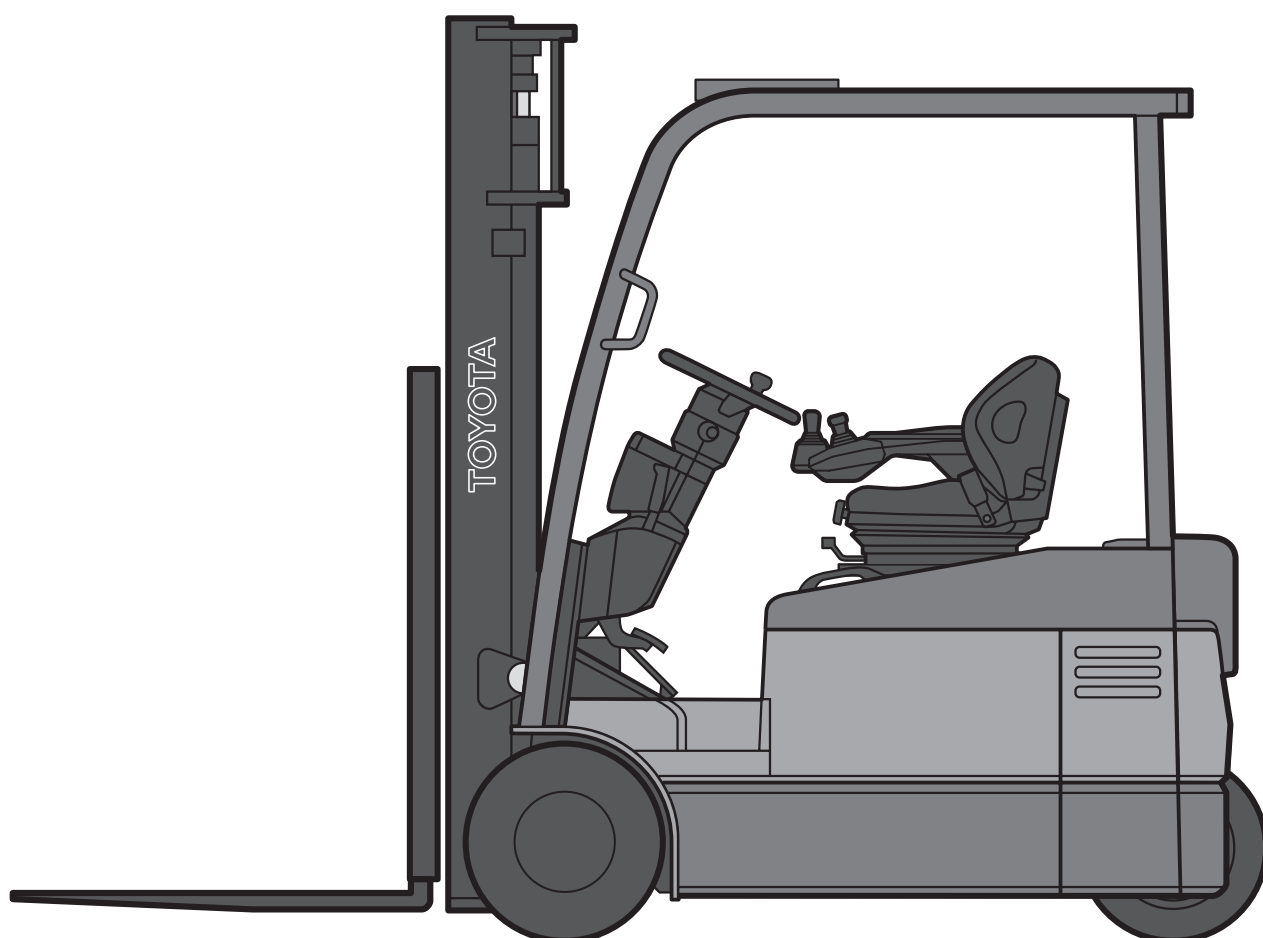


Electric Powered Forklift

7FBEF

1.25 to 2.0 ton

Series



1,250 kg

MAIN VEHICLE SPECIFICATIONS

Characteristics	1.1	Manufacturer			TOYOTA
	1.2	Model			7FBEF13
	1.3	Power			electric
	1.4	Operator Type			rider seated
	1.5	Load capacity/rated load	Q	kg	1250
	1.6	Load centre	c	mm	500
	1.8	Load distance, centre of drive axle to fork	x	mm	355
	1.9	Wheelbase	y	mm	1210
	Weight	2.1	Truck weight ¹⁾		kg
2.2		Axle loadings, laden front/rear		kg	3310/395
2.3		Axle loadings, unladen front/rear		kg	1180/1275
Tyres, chassis	3.1	Tyres - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)			SE
	3.2	Tyre size - front			18x7-8/4.33
	3.3	Tyre size - rear			15x4.1/2-8/3.00
	3.5	Wheels - number front/rear (x = driven wheels)			2x/2
	3.6	Tread - front	b ₁₀	mm	915
	3.7	Tread - rear	b ₁₁	mm	175
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg
4.2		Height, mast lowered	h ₁	mm	2120
4.3		Free lift	h ₂	mm	150
4.4		Lift	h ₃	mm	3300
4.5		Height, mast extended	h ₄	mm	4520
4.7		Height of overhead guard	h ₆	mm	1980
4.8		Seat height	h ₇	mm	938
4.12		Coupling height	h ₁₀	mm	565
4.19		Overall length	l ₁	mm	2560
4.20		Length to face of forks	l ₂	mm	1760
4.21		Overall width	b ₁	mm	1070
4.22		Fork dimensions	s/e/l	mm	40/80/800
4.23		Fork carriage DIN 15 173, class/type A,B			II
4.24		Fork carriage width	b ₃	mm	920
4.31		Ground clearance, laden, below mast	m ₁	mm	90
4.32		Ground clearance, centre of wheelbase	m ₂	mm	85
4.33		Aisle width for pallets 1000x1200 wide*	A ₃₁	mm	3082
4.34		Aisle width for pallets 800x1200 long*	A ₃₂	mm	3206
4.35	Turning radius	W ₂	mm	1400	
4.36	Internal turning radius	b ₁₃	mm	0	
Performance	5.1	Travel speed, laden/unladen		km/h	15/16.5
	5.2	Lift speed, laden/unladen		m/s	0.45/0.61
	5.3	Lowering speed, laden/unladen		m/s	0.50/0.55
	5.5	Drawbar pull, laden/unladen ²⁾		N	5200/5100
	5.6	Max. drawbar pull, laden/unladen ²⁾		N	9500/9100
	5.7	Gradeability, laden/unladen ²⁾		%	20/22
	5.8	Max. gradeability, laden/unladen ²⁾		%	27/22
	5.9	Acceleration time, laden/unladen		s	5.0/4.7
	5.10	Service brake			mechanical
	Motor	6.1	Drive motor rating S2 60min		kW
6.2		Lift motor rating S3 15%		kW	9.2
6.3		Battery acc. to DIN 43 531/ 35/ 36 A, B, C			43531A
6.4		Battery voltage/nominal capacity		V/Ah	48/330
6.5		Battery weight ³⁾		kg	560
6.6		Energy consumption acc to VDI cycle		kWh/h	
Others	8.1	Type of drive control			transistor inverter
	8.2	Operating pressure for attachments		bar	140
	8.3	Oil volume for attachments		l/min	42.3
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	69
	8.5	Towing coupling, type DIN			

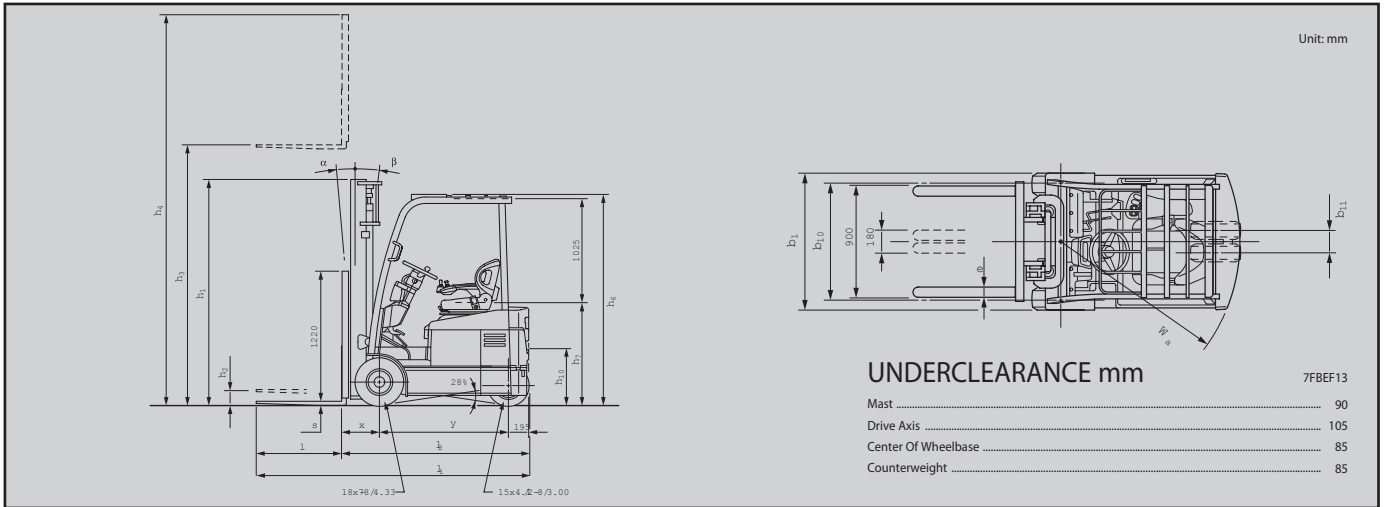
* aisle width calculation based on VDI 2198

¹⁾ with h₃ = 3300 mm and battery weight = 560 kg

²⁾ computed values

³⁾ according to DIN 43531, min. battery weight required by Toyota = 520 kg

DIMENSIONAL DRAWINGS



MAST SPECIFICATION & RATED CAPACITIES

Model	Mast Type	Maximum Fork Height	Overall Height		Free Lift		Pneumatic-Shaped Cushion		Pneumatic			
			Lowered	Extended Without Load Backrest	Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 500 mm LC	Tilt Range		Load Capacity at 500 mm LC
			h ₁	h ₂	h ₁	h ₂	FWD	BWD		FWD	BWD	
mm	mm	mm	mm	mm	mm	deg	deg	kg	deg	deg	kg	
7FBEF 13	V	3000	1970	3645	150	150	5	6.5	1250	5	6.5	1250
		3300	2120	3945	150	150	5	6.5	1250	5	6.5	1250
		3500	2220	4145	150	150	5	6.5	1250	5	6.5	1250
		3700	2380	4345	150	150	5	6.5	1250	5	6.5	1250
		4000	2570	4645	150	150	5	6.5	1250	5	6.5	1200
		4500	2820	5145	150	150	5	6.5	1200	5	6.5	1100
	5000	3070	5645	150	150	5	6.5	1100	5	6.5	950	
	FV	3000	1970	3600	1410 [1285]	790	5	6.5	1250	5	6.5	1250
		3300	2120	3900	1560 [1435]	940	5	6.5	1250	5	6.5	1250
		3500	2220	4100	1660 [1535]	1040	5	6.5	1250	5	6.5	1250
		3700	2380	4300	1820 [1695]	1200	5	6.5	1250	5	6.5	1250
	FSV	4000	2570	4600	2010 [1885]	1390	5	6.5	1250	5	6.5	1200
		3700	1770	4275	1235 [1190]	590	5	6.5	1200	5	6.5	1150
		4000	1870	4575	1335 [1290]	690	5	6.5	1150	5	6.5	1100
		4300	1970	4875	1435 [1390]	790	5	6.5	1100	5	6.5	1100
		4700	2120	5275	1585 [1540]	940	5	6.5	1050	5	6.5	1000
		5000	2220	5575	1685 [1640]	1040	5	6.5	1000	5	6.5	900
	5500	2380	6075	1845 [1800]	1200	5	6.5	950	5	6.5	800	
6000	2570	6575	2035 [1990]	1390	5	5	900	5	5	600		

NOTE: Height of standard load backrest is 1220 mm. h₂ with standard load backrest is + 575 mm (V), + 620 mm (FV), + 645 mm (FSV)
Data in "[]" are for when "A4 piping" is selected.

1,500 kg

MAIN VEHICLE SPECIFICATIONS

Characteristics	1.1	Manufacturer			TOYOTA
	1.2	Model			7FBEF15
	1.3	Power			electric
	1.4	Operator Type			rider seated
	1.5	Load capacity/rated load	Q	kg	1500
	1.6	Load centre	c	mm	500
	1.8	Load distance, centre of drive axle to fork	x	mm	355
	1.9	Wheelbase	y	mm	1400
	Weight	2.1	Truck weight ¹⁾		kg
2.2		Axle loadings, laden front/rear		kg	3800/470
2.3		Axle loadings, unladen front/rear		kg	1385/1385
Tyres, chassis	3.1	Tyres - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)			SE
	3.2	Tyre size - front			18x7-8/4.33
	3.3	Tyre size - rear			15x4.1/2-8/3.00
	3.5	Wheels - number front/rear (x = driven wheels)			2x/2
	3.6	Tread - front	b ₁₀	mm	915
	3.7	Tread - rear	b ₁₁	mm	175
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg
4.2		Height, mast lowered	h ₁	mm	2120
4.3		Free lift	h ₂	mm	150
4.4		Lift	h ₃	mm	3300
4.5		Height, mast extended	h ₄	mm	4520
4.7		Height of overhead guard	h ₆	mm	1980
4.8		Seat height	h ₇	mm	938
4.12		Coupling height	h ₁₀	mm	565
4.19		Overall length	l ₁	mm	2695
4.20		Length to face of forks	l ₂	mm	1895
4.21		Overall width	b ₁	mm	1070
4.22		Fork dimensions	s/e/l	mm	40/80/800
4.23		Fork carriage DIN 15 173, class/type A,B			II
4.24		Fork carriage width	b ₃	mm	920
4.31		Ground clearance, laden, below mast	m ₁	mm	90
4.32		Ground clearance, centre of wheelbase	m ₂	mm	85
4.33		Aisle width for pallets 1000x1200 wide*	A ₃₁	mm	3222
4.34		Aisle width for pallets 800x1200 long*	A ₃₂	mm	3346
4.35	Turning radius	W ₃	mm	1540	
4.36	Internal turning radius	b ₁₃	mm	0	
Performance	5.1	Travel speed, laden/unladen		km/h	15/16.5
	5.2	Lift speed, laden/unladen		m/s	0.43/0.61
	5.3	Lowering speed, laden/unladen		m/s	0.50/0.55
	5.5	Drawbar pull, laden/unladen ²⁾		N	5000/5100
	5.6	Max. drawbar pull, laden/unladen ²⁾		N	9400/9300
	5.7	Gradeability, laden/unladen ²⁾		%	17/24
	5.8	Max. gradeability, laden/unladen ²⁾		%	23/24
	5.9	Acceleration time, laden/unladen		s	5.1/4.8
	5.10	Service brake			mechanical
	Motor	6.1	Drive motor rating S2 60min		kW
6.2		Lift motor rating S3 15%		kW	9.2
6.3		Battery acc. to DIN 43 531/ 35/ 36 A, B, C			43531A
6.4		Battery voltage/nominal capacity		V/Ah	48/550
6.5		Battery weight ³⁾		kg	856
6.6		Energy consumption acc to VDI cycle		kWh/h	
Others	8.1	Type of drive control			transistor inverter
	8.2	Operating pressure for attachments		bar	140
	8.3	Oil volume for attachments		l/min	42.3
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	69
	8.5	Towing coupling, type DIN			

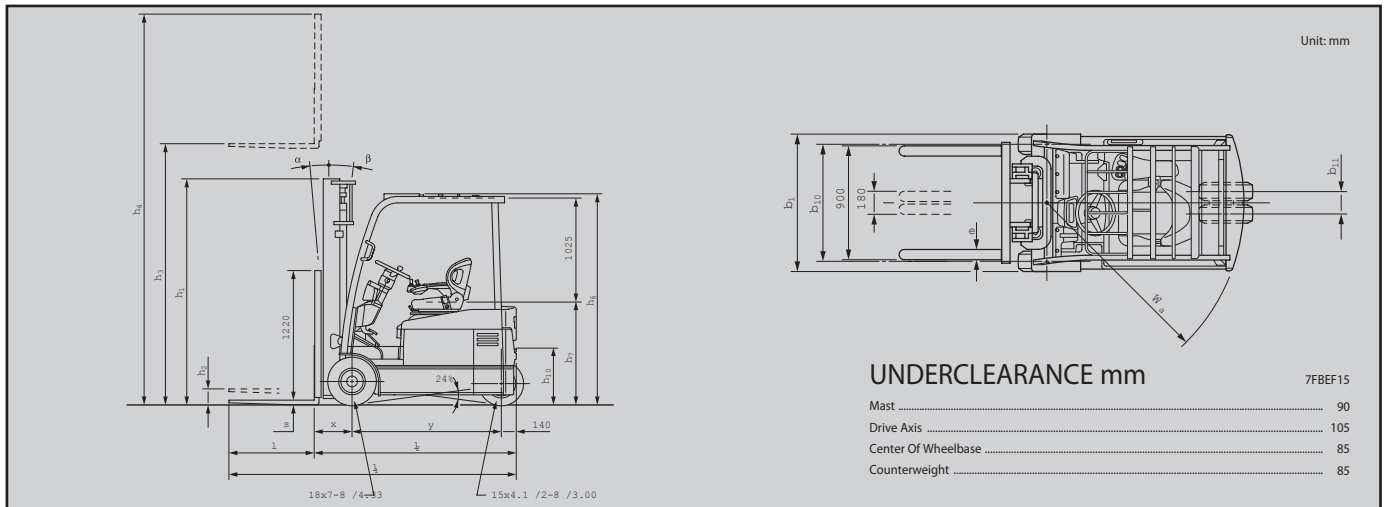
* aisle width calculation based on VDI 2198

¹⁾ with h₃ = 3300mm and battery weight = 856kg

²⁾ computed values

³⁾ according to DIN 43531; min. battery weight required by Toyota = 830 kg

DIMENSIONAL DRAWINGS



MAST SPECIFICATION & RATED CAPACITIES

Model	Mast Type	Maximum Fork Height	Overall Height		Free Lift		Pneumatic-Shaped Cushion		Pneumatic			
			Lowered	Extended Without Load Backrest	Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 500 mm LC	Tilt Range		Load Capacity at 500 mm LC
			h ₁	h ₂	h ₃	h ₄	FWD	BWD		FWD	BWD	
mm	mm	mm	mm	mm	mm	deg	deg	kg	deg	deg	kg	
7FBEF 15	V	3000	1970	3645	150	150	5	6.5	1500	5	6.5	1500
		3300	2120	3945	150	150	5	6.5	1500	5	6.5	1500
		3500	2220	4145	150	150	5	6.5	1500	5	6.5	1500
		3700	2380	4345	150	150	5	6.5	1500	5	6.5	1500
		4000	2570	4645	150	150	5	6.5	1500	5	6.5	1450
		4500	2820	5145	150	150	5	6.5	1500	5	6.5	1350
		5000	3070	5645	150	150	5	6.5	1450	5	6.5	1250
	5500	3320	6145	150	150	5	6.5	1100				
	FV	3000	1970	3600	1410 [1285]	790	5	6.5	1500	5	6.5	1500
		3300	2120	3900	1560 [1435]	940	5	6.5	1500	5	6.5	1500
		3500	2220	4100	1660 [1535]	1040	5	6.5	1500	5	6.5	1500
		3700	2380	4300	1820 [1695]	1200	5	6.5	1500	5	6.5	1500
		4000	2570	4600	2010 [1885]	1390	5	6.5	1500	5	6.5	1450
	FSV	3700	1770	4275	1235 [1190]	590	5	6.5	1500	5	6.5	1500
		4000	1870	4575	1335 [1290]	690	5	6.5	1500	5	6.5	1400
		4300	1970	4875	1435 [1390]	790	5	6.5	1450	5	6.5	1400
		4700	2120	5275	1585 [1540]	940	5	6.5	1420	5	6.5	1350
		5000	2220	5575	1685 [1640]	1040	5	6.5	1380	5	6.5	1200
		5500	2380	6075	1845 [1800]	1200	5	6.5	1320	5	6.5	900
		6000	2570	6575	2035 [1990]	1390	5	5	1200	5	5	700
		6500	2820	7075	2285 [2240]	1640	5	5	1050			

NOTE: Height of standard load backrest is 1220 mm. h₄ with standard load backrest is + 575 mm (V), + 620 mm (FV), + 645 mm (FSV)
Data in "[]" are for when "A4 piping" is selected.

1,600 - 1,800 - 2,000 kg

MAIN VEHICLE SPECIFICATIONS

Characteristics	1.1	Manufacturer			TOYOTA	TOYOTA	TOYOTA
	1.2	Model			7FBEF16	7FBEF18	7FBEF20
	1.3	Power			electric	electric	electric
	1.4	Operator Type			rider seated	rider seated	rider seated
	1.5	Load capacity/rated load	Q	kg	1600	1800	2000
	1.6	Load centre	c	mm	500	500	500
	1.8	Load distance, centre of drive axle to fork	x	mm	355	355	370
	1.9	Wheelbase	y	mm	1505	1505	1505
	Weight	2.1	Truck weight ¹⁾		kg	2818	2938
2.2		Axle loadings, laden front/rear		kg	3970/450	4195/495	4720/540
2.3		Axle loadings, unladen front/rear		kg	1460/1360	1450/1490	1565/1695
Tyres, chassis	3.1	Tyres - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)			SE	SE	SE
	3.2	Tyre size - front			18x7-8/4.33	18x7-8/4.33	200/50-10/6.50
	3.3	Tyre size - rear			15x4.1/2-8/3.00	15x4.1/2-8/3.00	16x6-8/4.33
	3.5	Wheels - number front/rear (x = driven wheels)			2x/2	2x/2	2x/2
	3.6	Tread - front	b ₁₀	mm	915	915	915
	3.7	Tread - rear	b ₁₁	mm	175	175	205
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg	5/6.5	5/6.5
4.2		Height, mast lowered	h ₁	mm	2120	2120	2120
4.3		Free lift	h ₂	mm	150	150	125
4.4		Lift	h ₃	mm	3300	3300	3300
4.5		Height, mast extended	h ₄	mm	4520	4520	4520
4.7		Height of overhead guard	h ₆	mm	1980	1980	1980
4.8		Seat height	h ₇	mm	938	938	940
4.12		Coupling height	h ₁₀	mm	565	565	565
4.19		Overall length	l ₁	mm	2795	2800	3080
4.20		Length to face of forks	l ₂	mm	1995	2000	2080
4.21		Overall width	b ₁	mm	1070	1070	1125
4.22		Fork dimensions	s/e/l	mm	40/80/800	40/80/800	40/100/1000
4.23		Fork carriage DIN 15 173, class/type A,B			II	II	II
4.24		Fork carriage width	b ₃	mm	920	920	1020
4.31		Ground clearance, laden, below mast	m ₁	mm	90	90	90
4.32		Ground clearance, centre of wheelbase	m ₂	mm	85	85	85
4.33		Aisle width for pallets 1000x1200 wide*	A ₃₁	mm	3322	3327	3406
4.34	Aisle width for pallets 800x1200 long*	A ₃₂	mm	3446	3451	3530	
4.35	Turning radius	W ₃	mm	1640	1645	1710	
4.36	Internal turning radius	b ₁₃	mm	0	0	0	
Performance	5.1	Travel speed, laden/unladen		km/h	15/16	14.5/16	14/15.5
	5.2	Lift speed, laden/unladen		m/s	0.42/0.61	0.39/0.61	0.34/0.50
	5.3	Lowering speed, laden/unladen		m/s	0.50/0.55	0.50/0.55	0.50/0.55
	5.5	Drawbar pull, laden/unladen ²⁾		N	5000/5100	4900/5100	4800/5000
	5.6	Max. drawbar pull, laden/unladen ²⁾		N	9400/9300	9300/9300	9000/9100
	5.7	Gradeability, laden/unladen ²⁾		%	17/25	16/24	13/22
	5.8	Max. gradeability, laden/unladen ²⁾		%	22/25	21/24	18/24
	5.9	Acceleration time, laden/unladen		s	5.1/4.8	5.2/4.8	5.3/4.9
	5.10	Service brake			mechanical	mechanical	mechanical
	Motor	6.1	Drive motor rating S2 60min		kW	4.9x2	4.9x2
6.2		Lift motor rating S3 15%		kW	9.2	9.2	9.2
6.3		Battery acc. to DIN 43 531/ 35/ 36 A, B, C			43531A	43531A	43531A
6.4		Battery voltage/nominal capacity		V/Ah	48/660	48/660	48/660
6.5		Battery weight ³⁾		kg	1013	1013	1013
6.6		Energy consumption acc to VDI cycle		kWh/h			
Others	8.1	Type of drive control			transistor inverter	transistor inverter	transistor inverter
	8.2	Operating pressure for attachments		bar	140	140	140
	8.3	Oil volume for attachments		l/min	42.3	42.3	42.3
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	69	69	69
	8.5	Towing coupling, type DIN					

* aisle width calculation based on VDI 2198

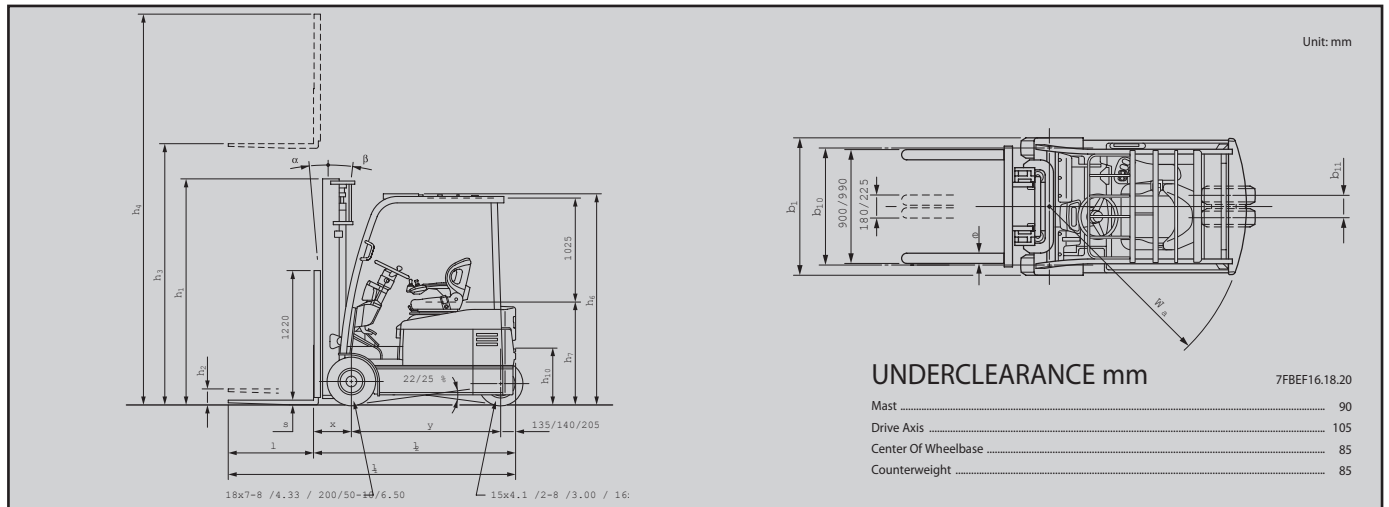
¹⁾ with h₁ = 3300mm and battery weight = 1013kg

²⁾ computed values

³⁾ according to DIN 43531; min. battery weight required by Toyota = 985 kg

7FBEF16, 7FBEF18, 7FBEF20

DIMENSIONAL DRAWINGS



MAST SPECIFICATION & RATED CAPACITIES

Model	Mast Type	Maximum Fork Height	Overall Height		Free Lift		Pneumatic-Shaped Cushion		Pneumatic			
			Lowered	Extended Without Load Backrest	Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 500 mm LC	Tilt Range		Load Capacity at 500 mm LC
							FWD deg	BWD deg		FWD deg	BWD deg	
		h_1	h_2	h_3	h_4	h_5						
		mm	mm	mm	mm	mm			kg			kg
7FBEF 16	V	3000	1970	3645	150	150	5	6.5	1600	5	6.5	1600
		3300	2120	3945	150	150	5	6.5	1600	5	6.5	1600
		3500	2220	4145	150	150	5	6.5	1600	5	6.5	1600
		3700	2380	4345	150	150	5	6.5	1600	5	6.5	1600
		4000	2570	4645	150	150	5	6.5	1600	5	6.5	1550
		4500	2820	5145	150	150	5	6.5	1600	5	6.5	1500
	FV	5000	3070	5645	150	150	5	6.5	1550	5	6.5	1400
		5500	3320	6145	150	150	5	6.5	1200			
		3000	1970	3600	1410 [1285]	790	5	6.5	1600	5	6.5	1600
		3300	2120	3900	1560 [1435]	940	5	6.5	1600	5	6.5	1600
		3500	2220	4100	1660 [1535]	1040	5	6.5	1600	5	6.5	1600
		3700	2380	4300	1820 [1695]	1200	5	6.5	1600	5	6.5	1600
	FSV	4000	2570	4600	2010 [1885]	1390	5	6.5	1600	5	6.5	1550
		3700	1770	4275	1235 [1190]	590	5	6.5	1600	5	6.5	1600
		4000	1870	4575	1335 [1290]	690	5	6.5	1600	5	6.5	1500
		4300	1970	4875	1435 [1390]	790	5	6.5	1550	5	6.5	1450
		4700	2120	5275	1585 [1540]	940	5	6.5	1450	5	6.5	1400
		5000	2220	5575	1685 [1640]	1040	5	6.5	1400	5	6.5	1300
7FBEF 18	V	5500	2380	6075	1845 [1800]	1200	5	6.5	1350	5	6.5	950
		6000	2570	6575	2035 [1990]	1390	5	6.5	1300	5	6.5	750
		6500	2820	7075	2285 [2240]	1640	5	6.5	1200			
		3000	1970	3645	150	150	5	6.5	1800	5	6.5	1800
		3300	2120	3945	150	150	5	6.5	1800	5	6.5	1800
		3500	2220	4145	150	150	5	6.5	1800	5	6.5	1800
	FV	3700	2380	4345	150	150	5	6.5	1800	5	6.5	1800
		4000	2570	4645	150	150	5	6.5	1800	5	6.5	1700
		4500	2820	5145	150	150	5	6.5	1700	5	6.5	1550
		5000	3070	5645	150	150	5	6.5	1600	5	6.5	1450
		5500	3320	6145	150	150	5	6.5	1350			
		3000	1970	3600	1410 [1285]	790	5	6.5	1800	5	6.5	1800
	FSV	3300	2120	3900	1560 [1435]	940	5	6.5	1800	5	6.5	1800
		3500	2220	4100	1660 [1535]	1040	5	6.5	1800	5	6.5	1800
		3700	2380	4300	1820 [1695]	1200	5	6.5	1800	5	6.5	1800
		4000	2570	4600	2010 [1885]	1390	5	6.5	1800	5	6.5	1700
		3700	1770	4275	1235 [1190]	590	5	6.5	1800	5	6.5	1800
		4000	1870	4575	1335 [1290]	690	5	6.5	1650	5	6.5	1650
7FBEF 20	V	4300	1970	4875	1435 [1390]	790	5	6.5	1600	5	6.5	1600
		4700	2120	5275	1585 [1540]	940	5	6.5	1550	5	6.5	1550
		5000	2220	5575	1685 [1640]	1040	5	6.5	1500	5	6.5	1500
		5500	2380	6075	1845 [1800]	1200	5	6.5	1400	5	6.5	1150
		6000	2570	6575	2035 [1990]	1390	5	6.5	1350	5	6.5	1050
		6500	2820	7075	2285 [2240]	1640	5	6.5	1250			
	FV	3000	1970	3705	125	125	5	6.5	2000	-	-	-
		3300	2120	4005	125	125	5	6.5	2000	-	-	-
		3500	2220	4205	125	125	5	6.5	2000	-	-	-
		3700	2380	4405	125	125	5	6.5	2000	-	-	-
		4000	2570	4705	125	125	5	6.5	2000	-	-	-
		4500	2820	5205	125	125	5	6.5	2000	-	-	-
	FSV	5000	3070	5705	125	125	5	6.5	1850	-	-	-
		5500	3320	6145	125	125	5	6.5	1650	-	-	-
		3700	1770	4385	1125	590	5	6	2000	-	-	-
		4000	1870	4685	1225	690	5	6	1900	-	-	-
		4300	1970	4985	1325	790	5	6	1800	-	-	-
		4700	2120	5385	1475	940	5	6	1750	-	-	-
FSV	5000	2220	5685	1575	1040	5	6	1700	-	-	-	
	5500	2380	6185	1735	1200	5	6	1650	-	-	-	
	6000	2570	6685	1925	1390	5	6	1550	-	-	-	
	6500	2820	7075	2175	1640	5	6	1400	-	-	-	

NOTE: Height of standard load backrest is 1220 mm. h_5 with standard load backrest is + 575/515 mm (7FBEF16.18/20 V), +620 mm (7FBEF16.18 FV), +645/535 mm (7FBEF16.18/20 FSV)
Data in "[]" are for when "A4 piping" is selected.

7FBEF13.15.16.18.20

- Toyota SAS (System of Active Stability)
- Toyota AC² power system
- Toyota OPS (Operator Presence Sensing)
- Toyota OTC (Operator Total Care):
 - Toyota ORS (Operator Restraint System) seat
 - Seat mounted minilevers
 - "Accel Off"
 - D2 pedal (optional)
- Wide visible mast [MFH: 3300 mm]
- Load backrest [Height: 1220 mm]
- Long forks [Length: 800 mm (7FBEF13.15.16.18); 1000 mm (7FBEF20)]
- Long forkbar [Length: 920 mm (7FBEF13.15.16.18); 1020 mm (7FBEF20)]
- 3-way valve (A400)
- Disk brake system
- Pneumatic shaped cushion tyres
- Full hydraulic power steering
- Digital multifunction display
- Memory tilt steering column

The data in this spec sheet was determined based on our standard testing condition. Operating performance may vary depending on the actual specification and condition of the truck as well as the condition of the operating area. Availability and specifications are determined regionally and are subject to change without notice. Please consult your Toyota representative for details.