

# 8FB18

# 8FBH18

## MAIN VEHICLE SPECIFICATIONS

(September 2016)

1	Manufacturer			TOYOTA	TOYOTA
2	Model			<b>8FB18</b>	<b>8FBH18</b>
3	Load Capacity		kg	1750	1750
4	Load Center		mm	500	500
5	Power Type			Battery	Battery
6	Operator Position			Rider Seated	Rider Seated
7	Tire Type		Front/Rear	Pneumatic	Pneumatic
8	Wheels (x = driven)		Front/Rear	2x/2	2x/2
9	Maximum Fork Height (MFH)		mm	3000	3000
10	Free Lift		mm	145	145
13	Fork Size		L x W x T	1070/100/35	1070/100/35
	Lateral Fork Adjustment		MAX./MIN.	920/200	920/200
14	Tilt Range		FWD/BWD	7/11	7/11
15	Length to Fork Face		mm	2115	2115
16	Overall Width		mm	1115	1115
17	Mast Lowered Height		mm	1970	1970
18	Mast Extended Height		mm	4220	4220
19	Overhead Guard Height		mm	2025	2105
21	Turning Radius (Outside)		mm	1780	1780
22	Load Distance (Centerline of front axle to front face of forks)		mm	405	405
	Rear Overhang		mm	300	300
23	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	2185	2185
	Intersecting Aisle Width		mm	1775	1775
24	Travel, Max. (FWD/RVS)	Full Load	km/h	14.5/14.5	14.5/14.5
		No Load	km/h	17.0/17.0	17.0/17.0
25	Speeds *	Lifting	Full Load	mm/sec	370
		No Load	mm/sec	650	650
26	Lowering	Full Load	mm/sec	500	500
		No Load	mm/sec	550	550
27	Drawbar Pull *	Full Load/ No Load	3-Minute Ratings	N (kg)	9240/8620(940/870)
			5-Minute Ratings	N (kg)	9240/8620(940/870)
			60-Minute Ratings	N (kg)	2750/2940(280/300)
29	Gradeability *	Full Load/ No Load	3-Minute Ratings	% (tanθ)	18/23
			5-Minute Ratings	% (tanθ)	18/23
			30-Minute Ratings	% (tanθ)	11/18
32	Total Weight		Without Battery	kg	2310
33	Weight Distribution (With STD Battery)	Full Load	Front	kg	4240
			Rear	kg	500
34		No Load	Front	kg	1370
			Rear	kg	1620
35	Number		Front/Rear	2/2	2/2
36	Tires	Front		21X8-9-10PR (I)	21X8-9-10PR (I)
37		Size	Rear		5.00-8-10PR (I)
38	Wheelbase		mm	1410	1410
39	Tread		Front	mm	920
			Rear	mm	895
	Backrest Height		mm	1220	1220
	Overhead Guard Clearance		mm	1035	1035
	Counterweight Height		mm	1105	1140
	Drawbar Height		mm	430	430
	Step Height/Floor Height		mm	430/615	430/695
40	Underclearance	Mast (Full Load)		mm	65
41		Center of Wheelbase (Full Load)		mm	85
		Drive Axle (Full Load)		mm	65
		Steer Axle (No Load)		mm	125
		Counterweight (No Load)		mm	120
		Minimum Under Clearance (Full Load)		mm	65(Mast)
	Grade Clearance		Frame	% (tanθ)	27
			Counterweight	% (tanθ)	54
42	Brake		Service (Foot)		Hydraulic
43			Parking		Hand
45	Battery	Voltage/Capacity	STD	V/AH	48/400
		(5-hour rating)	High	V/AH	48/485
46	Weight (STD Capacity Type)		kg	680	845
47	Drive		kW	7.6	7.6
48	Electric Motors	Load Handling		kW	9.5
		Energy Consumption According to VDI Cycle **		kWh/h	4.2
54	Control Type		Drive		Trasistor inverter
			Load Handling		Trasistor inverter
57	Operating Pressure		For Attachments	Mpa (psi)	11.8(1700)

Sound level at the driver's ear according to EN12053 Uncertainty 4dB(A)	dB (A)	68	68
Vibration in accordance with in EN13059	m/s <sup>2</sup>	1.5	1.5

NOTE: \* Computed values.

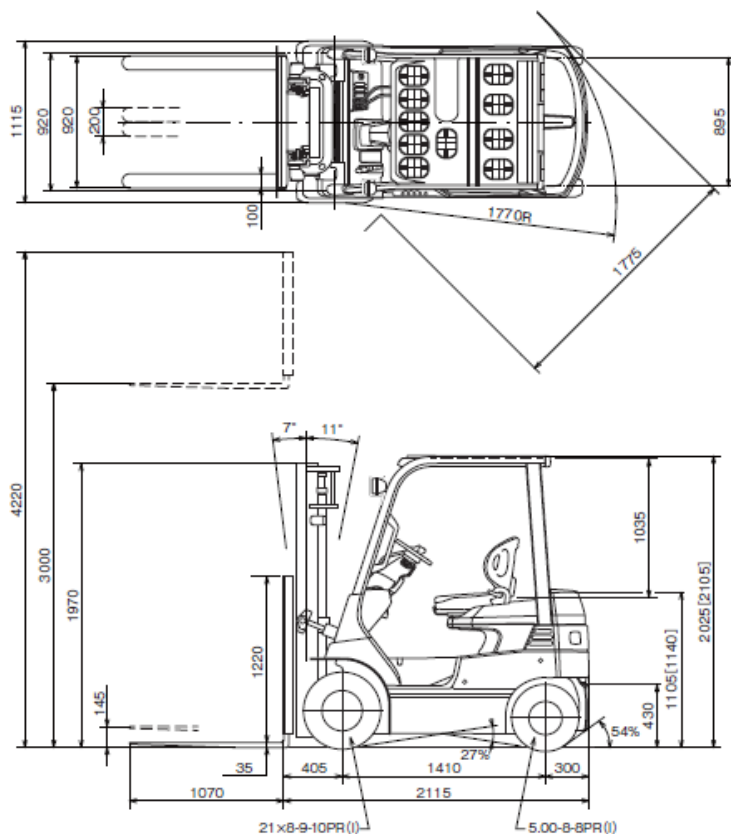
\*\* 60 VDI circles/h with Tested Load of 1750 kg.

## DIMENSIONAL DRAWINGS

(September 2016)

Unit: mm

### 8FB18/8FBH18



### UNDERCLEARANCE

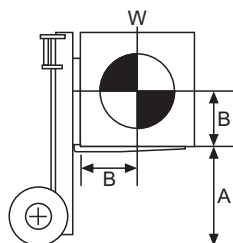
Mast (Full Load)-----	65
Center of Wheelbase (Full Load)-----	85
Drive Axle (Full Load)-----	65
Steer Axle (No Load)-----	125
Counterweight (No Load)-----	120
Minimum Underclearance (Full Load)-----	65(Mast)

NOTE: [ ] for 8FBH18

## RATED CAPACITIES

(September 2016)

### 8FB18/8FBH18



**A:** Max. Fork Height  
**B:** Load Center  
**W:** Capacity

### V, FV Mast

Unit: kg (W)

A (mm)	3000	3300	3500	3700	4000	4500	5000	
B (mm)	500	1750	1750	1750	1750	1750	1550 <1650>	1200 <1550>
	600	1570	1570	1570	1570	1570	1390 <1480>	1080 <1390>
	700	1430	1430	1430	1430	1430	1260 <1350>	980 <1260>
	800	1310	1310	1310	1310	1310	1160 <1230>	900 <1160>
	900	1210	1210	1210	1210	1210	1070 <1140>	830 <1070>
	1000	1120	1120	1120	1120	1120	990 <1060>	770 <990>
	1100	1050	1050	1050	1050	1050	930 <990>	720 <930>
	1200	980	980	980	980	980	870 <930>	670 <870>

### FSV Mast

Unit: kg (W)

A (mm)	3700	4000	4300	4500	4700	5000	5500	6000	
B (mm)	500	1600	1600	1550	1500	1500	1250 <1450>	900 <1400>	750 <1150>
	600	1440	1440	1390	1350	1350	1120 <1300>	810 <1260>	670 <1030>
	700	1310	1310	1270	1230	1230	1020 <1190>	730 <1150>	610 <940>
	800	1200	1200	1170	1130	1130	940 <1090>	670 <1050>	560 <860>
	900	1110	1110	1080	1040	1040	870 <1010>	620 <970>	520 <800>
	1000	1030	1030	1000	970	970	810 <940>	580 <900>	480 <740>
	1100	970	970	930	900	900	750 <870>	540 <840>	450 <690>
	1200	910	910	880	850	850	710 <820>	510 <790>	420 <650>

NOTE: &lt;&gt; for dual tire models.

## SPECIAL TREAD

(September 2016)

Model		8FB18/8FBH18			
Front Tire	Single/Dual	Single	Single	Dual	Dual
Front Tire Size		21x8-9-10PR (I)	6.50-10-12PR (I)	4.50-12-8PR (I)	6.00-9-10PR (I)
Overall Width	mm	1115	1115	1295	1435
Tread, Front	mm	920	940	1010	1085

## SPECIAL MAST

(September 2016)

Wide Visible Mast (V), Wide Visible Full-Free Lift Two-Stage Mast (FV), Wide Visible Full-Free Lift Three-Stage Mast (FSV)

Model		8FB18/8FBH18																	
Type of Mast		V				FV				FSV									
<b>PERFORMANCE</b>																			
Power Mode		H	P	S	E	H	P	S	E	H	P	S	E	H	P	S	E		
Speeds	Lifting	Full Load	mm/sec	370	300	300	265	350	280	280	250	350	280	280	250	280	280	250	
		No Load	mm/sec	650	560	560	535	590	510	510	485	590	510	510	485	590	510	510	485
	Lowering	Full Load	mm/sec	500	500	500	500	480	480	480	480	480	480	480	480	480	480	480	480
		No Load	mm/sec	550	550	550	550	420	420	420	420	420	420	420	450	450	450	450	450
<b>DIMENSIONS</b>																			
Load Distance (Centerline of front axle to front face of forks)		mm	405				405				425								

NOTE: H High power mode / P Power mode / S Standard mode / E Eco mode

**MAST SPECIFICATIONS & RATED CAPACITIES**

(November 2017)

Wide Visible Mast (V), Wide Visible Full-Free Lift Two-Stage Mast (FV), Wide Visible Full-Free Lift Three-Stage Mast (FSV)

**8FB18/8FBH18**

Mast Type	Maximum Fork Height	Overall Height			Free Lift		Single tire			Dual tire		
		* Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 500 mm LC	Tilt Range		Load Capacity at 500 mm LC
			Without Load Backrest	With Standard Load Backrest			FWD	BWD		FWD	BWD	
mm	mm	mm	mm	mm	mm	deg	deg	kg	deg	deg	kg	
V	2500	1720	3105	3720	145	145	7	11	1750	7	11	1750
	2700	1820	3305	3920	145	145	7	11	1750	7	11	1750
	3000	1970	3605	4220	145	145	7	11	1750	7	11	1750
	3300	2120	3905	4520	145	145	7	11	1750	7	11	1750
	3500	2220	4105	4720	145	145	7	11	1750	7	11	1750
	3700	2380	4305	4920	145	145	7	11	1750	7	11	1750
	4000	2570	4605	5220	145	145	7	5	1750	7	11	1750
	4500	2820	5105	5720	145	145	7	5	1550	7	5	1650
FV	5000	3070	5605	6220	145	145	7	5	1200	7	5	1550
	3000	1970	3565	4220	1405*	750*	7	11	1750	7	11	1750
	3300	2120	3865	4520	1555*	900*	7	11	1750	7	11	1750
	3500	2220	4065	4720	1655*	1000*	7	11	1750	7	11	1750
FSV	3700	2380	4265	4920	1815*	1160*	7	11	1750	7	11	1750
	4000	2570	4565	5220	2005*	1350*	7	5	1750	7	11	1750
	3700	1770	4240	4920	1235*	550*	7	5	1600	7	5	1600
	4000	1870	4540	5220	1335*	650*	7	5	1600	7	5	1600
	4300	1970	4840	5520	1435*	750*	7	5	1550	7	5	1550
	4500	2040	5040	5720	1505*	820*	7	5	1500	7	5	1500
	4700	2120	5240	5920	1585*	900*	7	5	1500	7	5	1500
	5000	2220	5540	6220	1685*	1000*	7	5	1250	7	5	1450
5500	2380	6040	6720	1845*	1160*	7	5	900	7	5	1400	
6000	2570	6540	7220	2035*	1350*	7	5	750	7	5	1150	

NOTE: Height of standard load backrest is 1220 mm.

\* with optional tire size ; 6.50-10-12PR (I), plus 25mm.