

# 8FBE10

# 8FBE13

## MAIN VEHICLE SPECIFICATIONS

(June 2015)

1	Manufacturer			TOYOTA	TOYOTA
2	Model			<b>8FBE10</b>	<b>8FBE13</b>
3	Load Capacity		kg	1000	1250
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	140	145
13	Fork Size		T x W x L	30x100x770	35x100x850
	Fork Spread (Outside)		MAX./MIN.	920/200	920/200
14	Tilt Range		FWD/BWD	deg	5/6.5
15	Length to Fork Face		mm	1750	1755
16	Overall Width		mm	1075	1075
17	Mast Lowered Height		mm	1970	1970
18	Mast Extended Height		mm	3920	3920
19	Overhead Guard Height		mm	1980	1980
21	Turning Radius (Outside)		mm	1385	1400
22	Load Distance (Centerline of front axle to front face of forks)		mm	345	350
	Rear Overhang		mm	175	190
23	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	1730	1750
	Intersecting Aisle Width		mm	1580	1600
24	Travel, Max. (FWD/RVS)	Full Load	km/h	15/15	15/15
		No Load	km/h	16.5/16.5	16.5/16.5
25	Lifting	Full Load	mm/sec	490	450
		No Load	mm/sec	610	610
26	Lowering	Full Load	mm/sec	530	530
		No Load	mm/sec	550	550
27	Drawbar Pull *	Full Load/ No Load	3-Minute Ratings	N (kg)	9600/9100 (980/930)
			5-Minute Ratings	N (kg)	9600/9100 (980/930)
			60-Minute Ratings	N (kg)	5300/5100 (540/520)
29	Gradeability *	Full Load/ No Load	3-Minute Ratings	% (tan $\theta$ )	32/24
			5-Minute Ratings	% (tan $\theta$ )	32/24
			30-Minute Ratings	% (tan $\theta$ )	24/24
32	Total Weight		Without Battery	kg	1675
33	Weight Distribution (With STD Battery)	Full Load	Front	kg	2855
			Rear	kg	370
34		No Load	Front	kg	1160
			Rear	kg	1065
35	Number		Front/Rear		2/2
36	Tires	Size	Front		18x7-8-10PR
37			Rear		15x4.1/2-8-12PR
38	Wheelbase		mm	1210	1210
39	Tread		Front	mm	895
			Rear	mm	175
	Backrest Height		mm	920	920
	Overhead Guard Clearance		mm	1025	1025
	Counterweight Height		mm	955	955
	Step Height/Floor Height		mm	430/545	430/545
40	Underclearance	Mast (Full Load)		mm	75
41		Center of Wheelbase (Full Load)		mm	80
		Drive Axle (Full Load)		mm	90
		Counterweight (No Load)		mm	85
		Minimum Under Clearance (No Load)		mm	60 (Frame)
	Grade Clearance	Frame	% (tan $\theta$ )		28
42	Brake		Service (Foot)		Dry Disc
43			Parking		Foot
45	Battery	Voltage/Capacity (5-hour rating)	STD	V/AH	48/280
			High	V/AH	48/370
46	Weight (STD Capacity Type)		kg	550	550
47	Drive		kW	4.9x2	4.9x2
48	Load Handling		kW	9.2	9.2
54	Control Type		Drive		Trasistor inverter
			Load Handling		Trasistor inverter
57	Operating Pressure		For Attachments	Mpa (psi)	13.7 (2000)
	Sound Level at the Driver's Ear According to EN12053 Uncertainty 4dB(A)			dB(A)	71.4

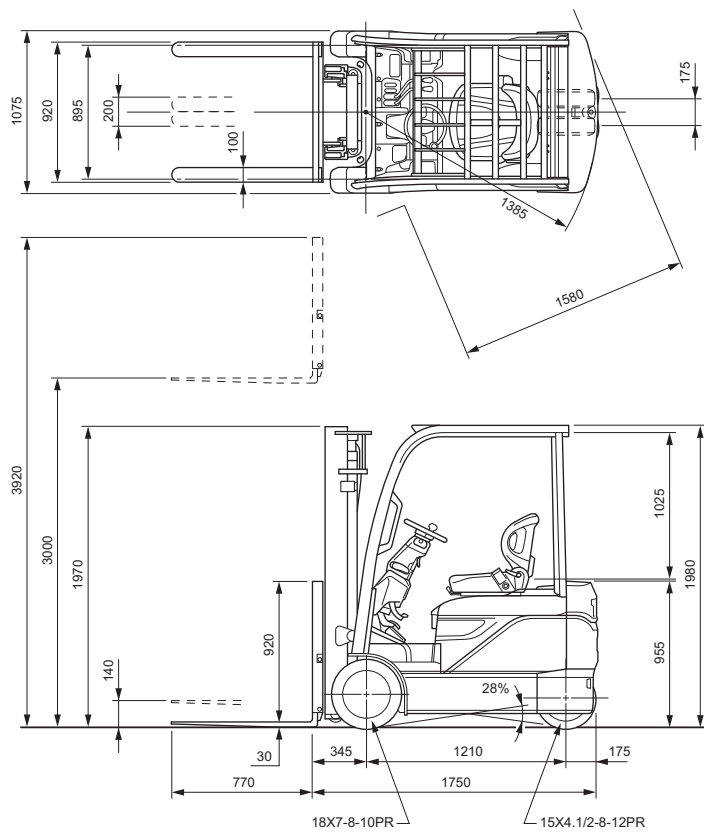
NOTE: \* Computed values.

# DIMENSIONAL DRAWINGS

(June 2015)

Unit: mm

## 8FBE10



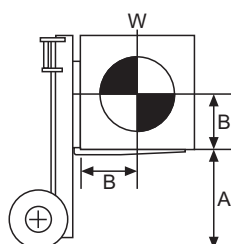
### UNDERCLEARANCE

Mast (Full Load)-----	75
Center of Wheelbase (Full Load)-----	80
Drive Axle (Full Load)-----	90
Counterweight (No Load)-----	85
Minimum Under Clearance (No Load)---	60 (Frame)

# RATED CAPACITIES

(June 2015)

## 8FBE10



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

### V, FV Mast (PSC)

Unit: kg (W)

A (mm)	2500	2700	3000	3300	3500	3700	4000	4500	5000
500	1000	1000	1000	1000	1000	1000	970	870	820
600	890	890	890	890	890	890	870	780	730
700	810	810	810	810	810	810	780	700	660
800	740	740	740	740	740	740	720	640	610
900	680	680	680	680	680	680	660	590	560
1000	630	630	630	630	630	630	610	550	520
1100	590	590	590	590	590	590	570	510	480
1200	550	550	550	550	550	550	530	480	450

### V, FV Mast (PN)

Unit: kg (W)

A (mm)	2500	2700	3000	3300	3500	3700	4000	4500	5000
500	1000	1000	1000	1000	1000	1000	950	850	800
600	890	890	890	890	890	890	850	760	720
700	810	810	810	810	810	810	770	690	650
800	740	740	740	740	740	740	700	630	590
900	680	680	680	680	680	680	650	580	540
1000	630	630	630	630	630	630	600	530	500
1100	590	590	590	590	590	590	560	500	470
1200	550	550	550	550	550	550	520	470	440

### FSV Mast (PSC)

Unit: kg (W)

A (mm)	3700	4000	4300	4500	4700	5000	5500	6000
500	950	950	900	850	850	770	720	520
600	850	850	810	760	760	690	650	470
700	770	770	730	690	690	630	590	420
800	710	710	670	630	630	570	540	390
900	650	650	620	590	590	530	500	360
1000	610	610	570	540	540	490	460	330
1100	570	570	540	510	510	460	430	310
1200	530	530	500	470	470	430	400	290

### FSV Mast (PN)

Unit: kg (W)

A (mm)	3700	4000	4300	4500	4700	5000	5500	6000
500	950	950	900	850	850	750	700	500
600	850	850	810	760	760	670	630	450
700	770	770	730	690	690	610	570	410
800	710	710	670	630	630	560	520	370
900	650	650	620	590	590	520	480	340
1000	610	610	570	540	540	480	450	320
1100	570	570	540	510	510	450	420	300
1200	530	530	500	470	470	420	390	280

## SPECIAL MAST

(June 2015)

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

Model		8FBE10													
Type of Mast		V				FV				FSV					
PERFORMANCE															
Power Mode		H	P	S	E	H	P	S	E	H	P	S	E		
Speeds	Lifting	Full Load	mm/sec	490	410	340	340	460	390	320	320	480	410	340	340
		No Load	mm/sec	610	540	480	480	550	490	440	440	560	500	450	450
	Lowering	Full Load	mm/sec	530	530	530	530	470	470	470	470	490	490	490	490
		No Load	mm/sec	550	550	550	550	460	460	460	460	470	470	470	470
DIMENSIONS															
Load Distance (Centerline of front axle to front face of forks)		mm	345				345				385				

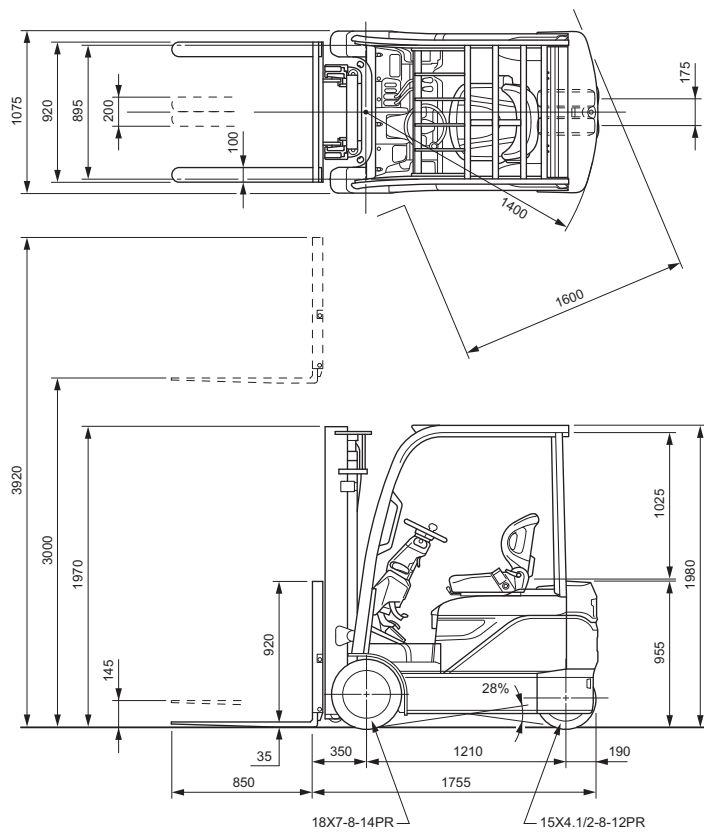
NOTE: H High power mode / P Power mode / S Standard mode / E Eco mode

# DIMENSIONAL DRAWINGS

(June 2015)

Unit: mm

## 8FBE13



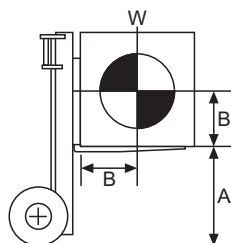
### UNDERCLEARANCE

Mast (Full Load)-----	75
Center of Wheelbase (Full Load)-----	80
Drive Axle (Full Load)-----	90
Counterweight (No Load)-----	85
Minimum Under Clearance (No Load)---	60 (Frame)

# RATED CAPACITIES

(June 2015)

## 8FBE13



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

### V, FV Mast (PSC)

Unit: kg (W)

A (mm)	2500	2700	3000	3300	3500	3700	4000	4500	5000
500	1250	1250	1250	1250	1250	1250	1220	1120	970
600	1120	1120	1120	1120	1120	1120	1090	1000	870
700	1010	1010	1010	1010	1010	1010	990	910	790
800	920	920	920	920	920	920	900	830	720
900	850	850	850	850	850	850	830	760	660
1000	790	790	790	790	790	790	770	710	610
1100	730	730	730	730	730	730	720	660	570
1200	690	690	690	690	690	690	670	610	530

### V, FV Mast (PN)

Unit: kg (W)

A (mm)	2500	2700	3000	3300	3500	3700	4000	4500	5000
500	1250	1250	1250	1250	1250	1250	1200	1100	950
600	1120	1120	1120	1120	1120	1120	1070	980	850
700	1010	1010	1010	1010	1010	1010	970	890	770
800	920	920	920	920	920	920	890	810	700
900	850	850	850	850	850	850	820	750	650
1000	790	790	790	790	790	790	760	690	600
1100	730	730	730	730	730	730	700	650	560
1200	690	690	690	690	690	690	660	600	520

### FSV Mast (PSC)

Unit: kg (W)

A (mm)	3700	4000	4300	4500	4700	5000	5500	6000
500	1150	1150	1100	1000	1000	920	820	620
600	1030	1030	990	900	900	830	740	560
700	940	940	900	820	820	750	670	510
800	860	860	820	750	750	690	610	460
900	790	790	760	690	690	630	570	430
1000	740	740	700	640	640	590	520	400
1100	690	690	660	600	600	550	490	370
1200	640	640	620	560	560	510	460	350

### FSV Mast (PN)

Unit: kg (W)

A (mm)	3700	4000	4300	4500	4700	5000	5500	6000
500	1150	1150	1100	1000	1000	900	800	600
600	1030	1030	990	900	900	810	720	540
700	940	940	900	820	820	730	650	490
800	860	860	820	750	750	670	600	450
900	790	790	760	690	690	620	550	410
1000	740	740	700	640	640	580	510	380
1100	690	690	660	600	600	540	480	360
1200	640	640	620	560	560	500	450	340

## SPECIAL MAST

(October 2015)

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

Model		8FBE13													
Type of Mast		V				FV				FSV					
PERFORMANCE															
Power Mode		H	P	S	E	H	P	S	E	H	P	S	E		
Speeds	Lifting	Full Load	mm/sec	450	380	300	300	440	370	300	300	470	390	320	320
		No Load	mm/sec	610	540	480	480	550	490	440	440	560	500	450	450
	Lowering	Full Load	mm/sec	530	530	530	530	470	470	470	470	490	490	490	490
		No Load	mm/sec	550	550	550	550	460	460	460	460	470	470	470	470
DIMENSIONS															
Load Distance (Centerline of front axle to front face of forks)		mm	350				350				390				

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

# MAST SPECIFICATIONS & RATED CAPACITIES

(June 2015)

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

## 8FBE10

Mast Type	Maximum Fork Height	Overall Height			Free Lift		Tilt Range		Load Capacity at 500 mm LC	
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	PSC	PN
			Without Load Backrest	With Standard Load Backrest						
mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	
V	2500	1720	3055*	3420	140	140	5	5	1000	1000
	2700	1820	3255*	3620	140	140	5	6.5	1000	1000
	3000	1970	3555*	3920	140	140	5	6.5	1000	1000
	3300	2120	3855*	4220	140	140	5	6.5	1000	1000
	3500	2220	4055*	4420	140	140	5	6.5	1000	1000
	3700	2380	4255*	4620	140	140	5	6.5	1000	1000
	4000	2570	4555*	4920	140	140	5	6.5	970	950
	4500	2820	5055*	5420	140	140	5	6.5	870	850
	5000	3070	5555*	5920	140	140	5	6.5	820	800
FV	3000	1970	3580	3920	1420	1050	5	6.5	1000	1000
	3300	2120	3880	4220	1570	1200	5	6.5	1000	1000
	3500	2220	4080	4420	1670	1300	5	6.5	1000	1000
	3700	2380	4280	4620	1830	1460	5	6.5	1000	1000
	4000	2570	4580	4920	2020	1650	5	6.5	970	950
FSV	3700	1770	4275	4620	1225	850	5	6.5	950	950
	4000	1870	4575	4920	1325	950	5	6.5	950	950
	4300	1970	4875	5220	1425	1050	5	6.5	900	900
	4500	2040	5075	5420	1495	1120	5	6.5	850	850
	4700	2120	5275	5620	1575	1200	5	6.5	850	850
	5000	2220	5575	5920	1675	1300	5	6.5	770	750
	5500	2380	6075	6420	1835	1460	5	6.5	720	700
	6000	2570	6575	6920	2025	1650	5	6.5	520	500

NOTE: Height of standard load backrest is 920 mm.  
\* with A4 piping, plus 85 mm.

## 8FBE13

Mast Type	Maximum Fork Height	Overall Height			Free Lift		Tilt Range		Load Capacity at 500 mm LC	
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	PSC	PN
			Without Load Backrest	With Standard Load Backrest						
mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	
V	2500	1720	3055*	3420	145	145	5	5	1250	1250
	2700	1820	3255*	3620	145	145	5	6.5	1250	1250
	3000	1970	3555*	3920	145	145	5	6.5	1250	1250
	3300	2120	3855*	4220	145	145	5	6.5	1250	1250
	3500	2220	4055*	4420	145	145	5	6.5	1250	1250
	3700	2380	4255*	4620	145	145	5	6.5	1250	1250
	4000	2570	4555*	4920	145	145	5	6.5	1220	1200
	4500	2820	5055*	5420	145	145	5	6.5	1120	1100
	5000	3070	5555*	5920	145	145	5	6.5	970	950
FV	3000	1970	3600	3920	1405	1055	5	6.5	1250	1250
	3300	2120	3900	4220	1555	1205	5	6.5	1250	1250
	3500	2220	4100	4420	1655	1305	5	6.5	1250	1250
	3700	2380	4300	4620	1815	1465	5	6.5	1250	1250
	4000	2570	4600	4920	2005	1655	5	6.5	1220	1200
FSV	3700	1770	4275	4620	1225	855	5	6.5	1150	1150
	4000	1870	4575	4920	1325	955	5	6.5	1150	1150
	4300	1970	4875	5220	1425	1055	5	6.5	1100	1100
	4500	2040	5075	5420	1495	1125	5	6.5	1000	1000
	4700	2120	5275	5620	1575	1205	5	6.5	1000	1000
	5000	2220	5575	5920	1675	1305	5	6.5	920	900
	5500	2380	6075	6420	1835	1465	5	6.5	820	800
	6000	2570	6575	6920	2025	1655	5	6.5	620	600

NOTE: Height of standard load backrest is 920 mm.  
\* with A4 piping, plus 85 mm.