

40-8FB20

MAIN VEHICLE SPECIFICATIONS

(September 2016)

1	Manufacturer			TOYOTA	
2	Model			40-8FB20	
3	Load Capacity	kg		2000	
4	Load Center	mm		500	
5	Power Type			Battery	
6	Operator Position			Rider Seated	
7	Tire Type	Front/Rear		Pneumatic	
8	Wheels (x = driven)	Front/Rear		2x/2	
9	Maximum Fork Height (MFH)	mm		3000	
10	Free Lift	mm		150	
13	Fork Size	L x W x T	mm	1070/120/36	
	Fork Spread (Outside)	MAX./MIN.	mm	1020/240	
14	Tilt Range	FWD/BWD	deg	6/11	
15	Length to Fork Face		mm	2405	
16	Overall Width		mm	1230	
17	Mast Lowered Height		mm	1995	
18	Mast Extended Height		mm	4220	
19	Overhead Guard Height		mm	2160	
21	Turning Radius (Outside)		mm	2145	
22	Load Distance (Centerline of front axle to front face of forks)		mm	445	
	Rear Overhang		mm	310	
23	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	2590	
	Intersecting Aisle Width		mm	1910	
24	Speeds *	Travel, Max. (FWD/RVS)	Full Load	km/h	14.5/14.5
			No Load	km/h	15.5/15.5
		Lifting	Full Load	mm/sec	360
			No Load	mm/sec	600
26	Lowering	Full Load	mm/sec	500	
		No Load	mm/sec	500	
27	Drawbar Pull *	Full Load/ No Load	3-Minute Ratings	N (kg)	12650/11980 (1290/1220)
			5-Minute Ratings	N (kg)	12650/11980 (1290/1220)
			60-Minute Ratings	N (kg)	5300/5390 (540/550)
29	Gradeability *	Full Load/ No Load	3-Minute Ratings	% (tanθ)	21/24
			5-Minute Ratings	% (tanθ)	21/24
			30-Minute Ratings	% (tanθ)	14/21
32	Total Weight	Without Battery	kg	2890	
33	Weight Distribution (With STD Battery)	Full Load	Front	kg	5160
			Rear	kg	1050
34		No Load	Front	kg	2010
			Rear	kg	2200
35	Number	Front/Rear		2/2	
36	Tires	Front		7.00-12-12PR (I)	
37		Size	Rear		6.00-9-10PR (I)
38	Wheelbase		mm	1650	
39	Tread	Front	mm	960	
		Rear	mm	965	
	Backrest Height			1220	
	Overhead Guard Clearance			1035	
	Counterweight Height			1195	
	Drawbar Height			505	
	Step Height/Floor Height			490/755	
40	Underclearance	Mast (Full Load)	mm	85	
41		Center of Wheelbase (Full Load)	mm	110	
		Drive Axle (Full Load)	mm	125	
		Steer Axle (No Load)		150	
		Counterweight (No Load)	mm	160	
		Minimum Under Clearance (Full Load)	mm	85(Mast)	
	Grade Clearance	Frame	% (tanθ)	29	
		Counterweight	% (tanθ)	96	
42	Brake	Service (Foot)		Hydraulic	
43		Parking		Hand	
45	Battery	Voltage/Capacity (5-hour rating)	STD High	V/AH V/AH	48/845
46		Weight (STD Capacity Type)		kg	1320
47	Electric Motors	Drive		kW	10.7
48		Load Handling		kW	12.2
		Energy Consumption According to VDI Cycle **		kWh/h	4.2
54	Control Type	Drive		Transistor inverter	
		Load Handling		Transistor inverter	
57	Operating Pressure	For Attachments	Mpa (psi)	14.7 (2100)	
	Sound level at the driver's ear according to EN12053 Uncertainty 4dB(A)		dB (A)	-	

Vibration in accordance with in EN13059

m/s²

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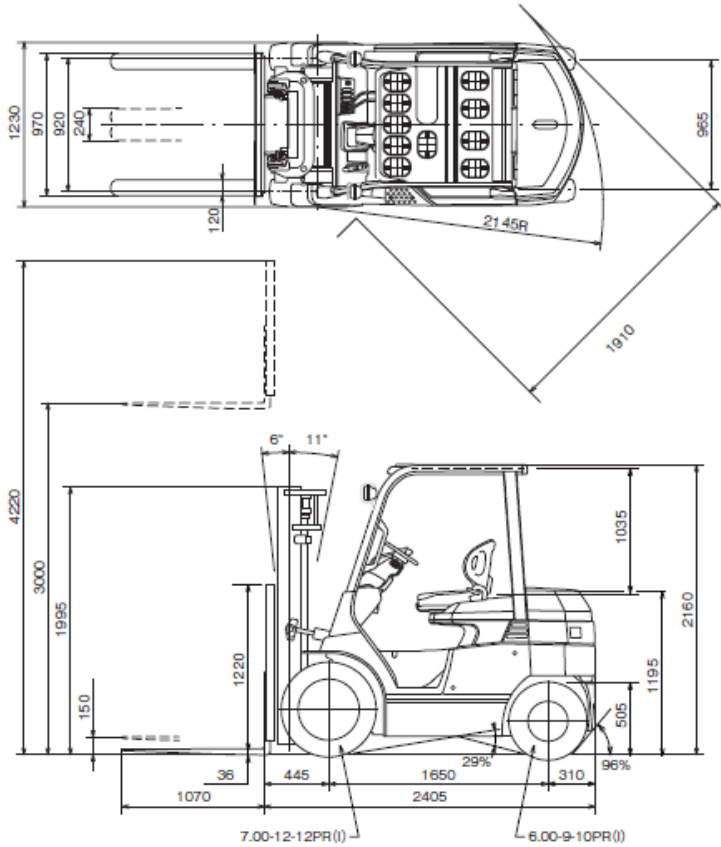
NOTE: * Computed values.

** 60 VDI circles/h with Tested Load of 2000 kg.

DIMENSIONAL DRAWINGS

(September 2016)

Unit: mm

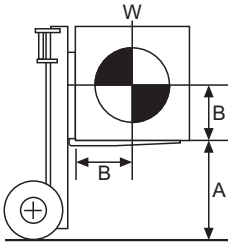
40-8FB20**UNDERCLEARANCE**

Mast (Full Load)-----	85
Center of Wheelbase (Full Load)-----	110
Drive Axle (Full Load)-----	125
Steer Axle (No Load)-----	150
Counterweight (No Load)-----	160
Minimum Underclearance (Full Load)---	85(Mast)

RATED CAPACITIES

(September 2016)

40-8FB20



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	2000	2000	2000	2000	2000	1900	1650 <1800>
	600	1810	1810	1810	1810	1810	1720	1490 <1630>
	700	1650	1650	1650	1650	1650	1570	1360 <1490>
	800	1520	1520	1520	1520	1520	1440	1250 <1370>
	900	1410	1410	1410	1410	1410	1340	1160 <1270>
	1000	1310	1310	1310	1310	1310	1250	1080 <1180>
	1100	1230	1230	1230	1230	1230	1170	1010 <1100>
	1200	1150	1150	1150	1150	1150	1090	950 <1040>
	1300	1090	1090	1090	1090	1090	1030	900 <980>

FSV Mast

Unit: kg (W)

A (mm)	3700	4000	4300	4500	4700	5000	5500	6000	
B (mm)	500	1900	1900	1850	1800	1800	1550 <1750>	1200 <1700>	900 <1500>
	600	1720	1720	1670	1630	1630	1400 <1580>	1080 <1540>	810 <1360>
	700	1570	1570	1530	1490	1490	1280 <1450>	990 <1410>	740 <1240>
	800	1450	1450	1410	1370	1370	1180 <1330>	910 <1300>	680 <1140>
	900	1340	1340	1310	1270	1270	1100 <1240>	850 <1200>	630 <1060>
	1000	1250	1250	1220	1190	1190	1020 <1150>	790 <1120>	590 <990>
	1100	1170	1170	1140	1110	1110	960 <1080>	740 <1050>	550 <930>
	1200	1100	1100	1070	1040	1040	900 <1020>	690 <990>	520 <870>
	1300	1040	1040	1010	990	990	850 <960>	660 <930>	490 <820>

NOTE: <> for dual tire models.

SPECIAL TREAD

(September 2016)

Model		40-8FB20		
Front Tire	Single/Dual	Single	Dual	Dual
Front Tire Size		7.00-12-12PR (I)	5.50-15-8PR (I)	7.00-12-12PR (I)
Overall Width	mm	1230	1455	1610
Tread, Front	mm	960	1105	1190

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		40-8FB20													
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	360	270	270	245	330	250	250	245	330	250	250	245
		No Load	mm/sec	600	500	500	465	570	480	480	440	570	480	480	440
	Lowering	Full Load	mm/sec	500	500	500	500	480	480	480	480	480	480	480	480
		No Load	mm/sec	500	500	500	500	420	420	420	420	450	450	450	450

DIMENSIONS

Load Distance (Centerline of front axle to front face of forks)	mm	445	445	480
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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)

40-8FB20

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	1745	3160	3720	150	150	6	11	2000	6	11	2000
	2700	1845	3360	3920	150	150	6	11	2000	6	11	2000
	3000	1995	3660	4220	150	150	6	11	2000	6	11	2000
	3300	2145	3960	4520	150	150	6	11	2000	6	11	2000
	3500	2245	4160	4720	150	150	6	11	2000	6	11	2000
	3700	2405	4360	4920	150	150	6	11	2000	6	11	2000
	4000	2595	4660	5220	150	150	6	11	2000	6	11	2000
	4500	2845	5160	5720	150	150	6	6	1900	6	6	1900
FV	5000	3095	5660	6220	150	150	6	6	1650	6	6	1800
	3000	1995	3600	4220	1395	775	6	11	2000	6	11	2000
	3300	2145	3900	4520	1545	925	6	11	2000	6	11	2000
	3500	2245	4100	4720	1645	1025	6	11	2000	6	11	2000
FSV	3700	2405	4300	4920	1805	1185	6	11	2000	6	11	2000
	4000	2595	4600	5220	1995	1375	6	11	2000	6	11	2000
	3700	1795	4270	4920	1225	575	6	6	1900	6	6	1900
	4000	1895	4570	5220	1325	675	6	6	1900	6	6	1900
	4300	1995	4870	5520	1425	775	6	6	1850	6	6	1850
	4500	2065	5070	5720	1495	845	6	6	1800	6	6	1800
	4700	2145	5270	5920	1575	925	6	6	1800	6	6	1800
	5000	2245	5570	6220	1675	1025	6	6	1550	6	6	1750
5500	2405	6070	6720	1835	1185	6	6	1200	6	6	1700	
6000	2595	6570	7220	2025	1375	6	6	900	6	6	1500	

NOTE: Height of standard load backrest is 1220 mm.