

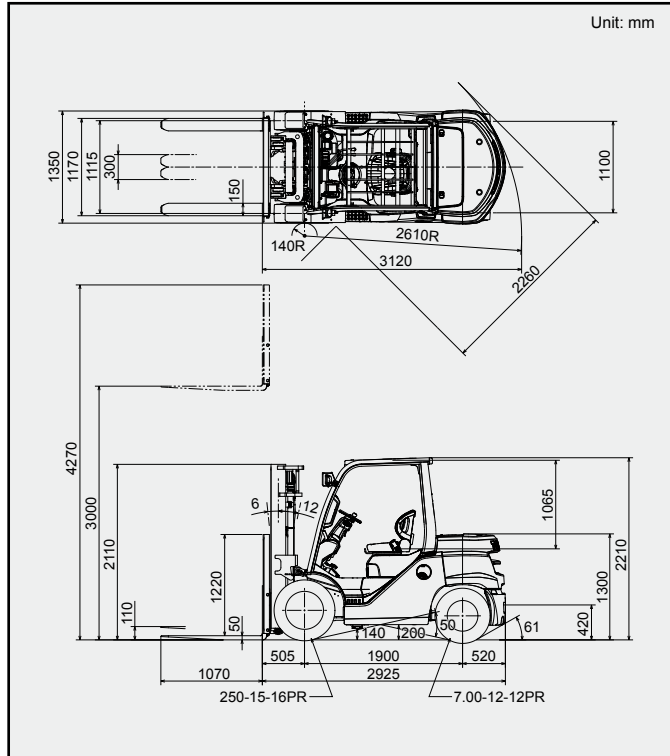
# 3,500 kg

## MAIN VEHICLE SPECIFICATIONS

			TOYOTA	TOYOTA		
Characteristics	Manufacturer			TOYOTA		
	Model			8FG35N		
	Load Capacity	kg	3500 [4000]	3500 [4000]		
	Load Center	mm	600 [500]	600 [500]		
	Power Type		Gasoline	Diesel		
Operator Position			Rider Seated	Rider Seated		
Tire Type	Front/Rear		Pneumatic	Pneumatic		
Wheels (x = driven)	Front/Rear		2x/2	2x/2		
Dimensions	Maximum Fork Height (MFH)		mm	3000	3000	
	Free Lift		mm	110	110	
	Fork Size	T x W x L	mm	50/150/1070	50/150/1070	
	Fork Spread (Outside)	MAX./MIN.	mm	1170/300	1170/300	
	Tilt Range	FWD/BWD	deg	6/12	6/12	
	Length to Fork Face		mm	2925	2925	
	Overall Width		mm	1350	1350	
	Mast Lowered Height		mm	2110	2110	
	Mast Extended Height		mm	4270	4270	
	Overhead Guard Height		mm	2210	2210	
	Turning Radius (Outside)		mm	2610	2610	
	Load Distance (Centerline of front axle to front face of forks)		mm	505	505	
	Rear Overhang		mm	520	520	
	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3120	3120	
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	23.0/23.0	22.0/22.0
			No Load	km/h	24.0/24.0	23.0/23.0
		Lifting	Full Load	mm/sec	525	510
			No Load	mm/sec	550	550
	Lowering	Full Load	mm/sec	530	530	
		No Load	mm/sec	480	480	
	Max. Drawbar Pull	Full Load	N <kg>	37000<3780>	36000<3670>	
		No Load	N <kg>	13400<1310>	13500<1320>	
	Gradeability at 1.5 km/h *		Full Load	% (tanθ)	34	32
	Max. Gradeability *	Full Load	% (tanθ)	43	42	
No Load		% (tanθ)	24	24		
Weight	Total Weight		kg	5700	5800	
	Weight Distribution	Full Load	Front	kg	8090 [8670]	8135 [8710]
			Rear	kg	1110 [1030]	1165 [1090]
		No Load	Front	kg	2550	2595
Rear			kg	3150	3205	
Wheels and Tires	Tires	Number	Front/Rear		2/2	2/2
		Size	Front		250-15-16PR	250-15-16PR
	Rear			7.00-12-12PR	7.00-12-12PR	
	Wheelbase		mm	1900	1900	
	Tread	Front	mm	1115	1115	
		Rear	mm	1100	1100	
	Backrest Height		mm	1220	1220	
	Overhead Guard Clearance		mm	1065	1065	
	Counterweight Height		mm	1300	1300	
	Drawbar Pin Center Height		mm	420	420	
	Step Height		mm	440	440	
	Floor Height		mm	760	760	
	Underclearance (Full load)	Min. <Mast>	mm	120	120	
		Center of Wheelbase	mm	200	200	
Grade Clearance		Frame/Counterweight	% (tanθ)	50/61	50/61	
Brake	Service (Foot)		Hydraulic	Hydraulic		
	Parking		Hand	Hand		
Drive Unit and Control	Battery		V/AH	12/48	12/64	
	Internal Combustion Engine	Make/Model			TOYOTA 1FS	TOYOTA 14Z- II
		Rated Power/r.p.m.	kW (JIS ps)	65/2350 (88/2350)	56/2100 (76/2100)	
		Rated Torque/r.p.m.	N-m (JIS kg-m)	276/1600 (28.1/1600)	269/1600 (27.4/1600)	
		Number of Cylinder		4	6	
		Piston Displacement	cc	3685	5204	
	Fuel Tank Capacity		liter	90	90	
	Transmission	Type			Powershift	Powershift
Stage		FWD/RVS		1/1	1/1	
Operating Pressure		For Attachments	Mpa (kg/cm <sup>2</sup> )	18.1(185)	18.1(185)	

NOTE: \* Computed values.  
[ ] for 500 mm load center.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

Front Tire Single/Dual	Single	Single	Dual	Dual
Front Tire Size	250-15-16PR	250-15	28x8-15-12PR	7.00-15
Overall Width mm	1350	1350	1690	1690
Tread, Front mm	1115	1115	1260	1260

## UNDERCLEARANCE mm

Mast (Full Load).....	120
Drive Axle (Full Load).....	170
Steer Axle (No Load).....	210
Center of Wheelbase (Full Load).....	200
Counterweight (No Load).....	200

## RATED CAPACITIES

Unit: kg (W)

### V, FV Mast (PN or PSC)

A (mm)	3000	3300	3500	3700	4000	4500	5000
[500]	[4000]	[4000]	[4000]	[4000]	[4000]	[4000]	[3800]
600	3500	3500	3500	3500	3500	3500	3500
700	3210	3210	3210	3210	3210	3210	3210
760	3060	3060	3060	3060	3060	3060	3060
800	2960	2960	2960	2960	2960	2960	2960
900	2750	2750	2750	2750	2750	2750	2750
1000	2570	2570	2570	2570	2570	2570	2570
1100	2410	2410	2410	2410	2410	2410	2410
1200	2270	2270	2270	2270	2270	2270	2270
1300	2140	2140	2140	2140	2140	2140	2140
1400	2030	2030	2030	2030	2030	2030	2030
1500	1930	1930	1930	1930	1930	1930	1930

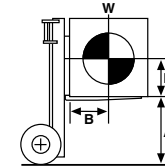
[ ] for 500 mm load center.

### FSV Mast (PN or PSC)

A (mm)	4000	4300	4500	4700	5000	5500	6000	6500	7000
[500]	[4000]	[3800]	[3700]	[3700]	[3600]	[3000] <3500>	[2200] <3400>	[1300] <2500>	[700] <1600>
600	3500	3500	3500	3500	3400	2800 <3300>	2100 <3200>	1300 <2500>	700 <1600>
700	3220	3220	3220	3220	3120	2570 <3030>	1930 <2940>	1190 <2300>	640 <1470>
760	3070	3070	3070	3070	2980	2450 <2890>	1840 <2800>	1140 <2190>	610 <1400>
800	2980	2980	2980	2980	2890	2380 <2810>	1790 <2720>	1110 <2130>	600 <1360>
900	2770	2770	2770	2770	2690	2210 <2610>	1660 <2530>	1030 <1980>	550 <1270>
1000	2590	2590	2590	2590	2510	2070 <2440>	1550 <2370>	960 <1850>	520 <1180>
1100	2430	2430	2430	2430	2360	1940 <2290>	1460 <2220>	900 <1740>	490 <1110>
1200	2290	2290	2290	2290	2220	1830 <2160>	1370 <2090>	850 <1640>	460 <1050>
1300	2160	2160	2160	2160	2100	1730 <2040>	1300 <1980>	800 <1550>	430 <990>
1400	2050	2050	2050	2050	1990	1640 <1940>	1230 <1880>	760 <1470>	410 <940>
1500	1950	1950	1950	1950	1900	1560 <1840>	1170 <1780>	730 <1390>	390 <890>

< > for dual tire models (PN or PSC)

[ ] for 500 mm load center.



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

## MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Maximum Fork Height	Overall Height		Free Lift		Single Tire			Dual Tire				
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Tilt Range		Tilt Range	Load Capacity at 600 mm [500 mm] LC			
			Without Load Backrest	With Standard Load Backrest			FWD	BWD		FWD	BWD		
		mm	mm	mm	mm	mm	mm	deg	deg	deg	deg	kg	kg
Wide Visible Mast (V)	3000	2110	3850	4270	110	110	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	3300	2290	4150	4570	110	110	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	3500	2390	4350	4770	110	110	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	3700	2490	4550	4970	110	110	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	4000	2740	4850	5270	110	110	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	4500	2990	5350	5770	110	110	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
Wide Visible Full-Free Lift Two-Stage Mast (FV)	5000	3240	5850	6270	110	110	6	6	3500 [3800]	6	12	3500 [3800]	3500 [3800]
	3000	2110	3880	4270	1280	890	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	3300	2290	4180	4570	1460	1070	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	3500	2390	4380	4770	1560	1170	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	3700	2490	4580	4970	1660	1270	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	4000	2740	4880	5270	1910	1520	6	12	3500 [4000]	6	12	3500 [4000]	3500 [4000]
	4000	2110	4880	5270	1280	890	6	6	3500 [4000]	6	6	3500 [4000]	3500 [4000]
	4300	2160	5180	5570	1330	940	6	6	3500 [3800]	6	6	3500 [3800]	3500 [3800]
	4500	2225	5380	5770	1395	1005	6	6	3500 [3700]	6	6	3500 [3700]	3500 [3700]
	4700	2290	5580	5970	1460	1070	6	6	3500 [3700]	6	6	3500 [3700]	3500 [3700]
	5000	2390	5880	6270	1560	1170	6	6	3400 [3600]	6	6	3400 [3600]	3400 [3600]
	5500	2540	6380	6770	1710	1320	6	6	2800 [3000]	6	6	3300 [3500]	3300 [3500]
	6000	2740	6880	7270	1910	1520	6	6	2100 [2200]	6	6	3200 [3400]	3200 [3400]
	6500	2990	7380	7770	2160	1770	6	6	1300 [1300]	6	6	2500 [2500]	2500 [2500]
7000	3240	7880	8270	2410	2020	6	6	700 [700]	6	6	1600 [1600]	1600 [1600]	

NOTE: Height of standard load backrest is 1220 mm.

# 4,000 kg

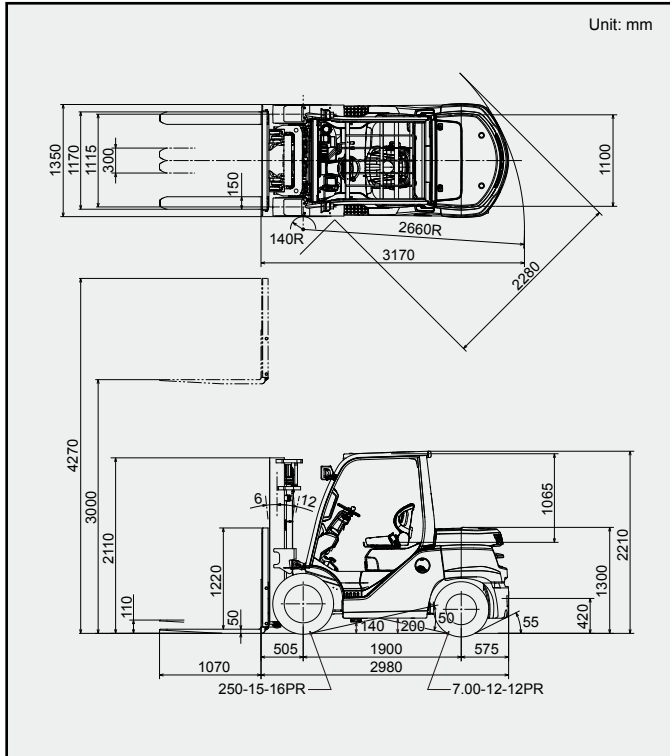
## MAIN VEHICLE SPECIFICATIONS

				TOYOTA	TOYOTA	
Characteristics	Manufacturer			TOYOTA	TOYOTA	
	Model			8FG40N	8FD40N	
	Load Capacity	kg		4000 [4500]	4000 [4500]	
	Load Center	mm		600 [500]	600 [500]	
	Power Type			Gasoline	Diesel	
	Operator Position			Rider Seated	Rider Seated	
Dimensions	Tire Type	Front/Rear		Pneumatic	Pneumatic	
	Wheels (x = driven)	Front/Rear		2x/2	2x/2	
	Maximum Fork Height (MFH)	mm		3000	3000	
	Free Lift	mm		110	110	
	Fork Size	T x W x L	mm	50/150/1070	50/150/1070	
	Fork Spread (Outside)	MAX./MIN.	mm	1170/300	1170/300	
	Tilt Range	FWD/BWD	deg	6/12	6/12	
	Length to Fork Face		mm	2980	2980	
	Overall Width		mm	1350	1350	
	Mast Lowered Height		mm	2110	2110	
	Mast Extended Height		mm	4270	4270	
	Overhead Guard Height		mm	2210	2210	
	Turning Radius (Outside)		mm	2660	2660	
	Load Distance (Centerline of front axle to front face of forks)		mm	505	505	
	Rear Overhang		mm	575	575	
Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3170	3170		
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	23.0/23.0	22.0/22.0
			No Load	km/h	24.0/24.0	23.0/23.0
		Lifting	Full Load	mm/sec	525	510
			No Load	mm/sec	550	550
		Lowering	Full Load	mm/sec	530	530
			No Load	mm/sec	480	480
	Max. Drawbar Pull	Full Load	N <kg>	36000<3670>	36000<3670>	
		No Load	N <kg>	13000<1270>	13000<1270>	
	Gradeability at 1.5 km/h *	Full Load	% (tanθ)	32	29	
	Max. Gradeability *	Full Load	% (tanθ)	42	38	
No Load		% (tanθ)	21	21		
Weight	Total Weight		kg	6070	6170	
	Weight Distribution	Full Load	Front	kg	8810 [9360]	8850 [9400]
			Rear	kg	1260 [1210]	1320 [1270]
		No Load	Front	kg	2480	2520
			Rear	kg	3590	3650
	Wheels and Tires	Tires	Number	Front/Rear	2/2	2/2
Size			Front		250-15-16PR	250-15-16PR
		Rear		7.00-12-12PR	7.00-12-12PR	
Wheelbase			mm	1900	1900	
Tread		Front	mm	1115	1115	
		Rear	mm	1100	1100	
Backrest Height			mm	1220	1220	
Overhead Guard Clearance			mm	1065	1065	
Counterweight Height			mm	1300	1300	
Drawbar Pin Center Height			mm	420	420	
Step Height		mm	440	440		
Floor Height		mm	760	760		
Underclearance (Full load)	Min. <Mast>	mm	120	120		
	Center of Wheelbase	mm	200	200		
Grade Clearance	Frame/Counterweight	% (tanθ)	50/55	50/55		
Brake	Service (Foot)		Hydraulic	Hydraulic		
	Parking		Hand	Hand		
Drive Unit and Control	Battery	Voltage/Capacity (5HR)	V/AH	12/48	12/64	
	Internal Combustion Engine	Make/Model		TOYOTA 1FS	TOYOTA 14Z- II	
		Rated Power/r.p.m.	kW (JIS ps)	65/2350 (88/2350)	56/2100 (76/2100)	
		Rated Torque/r.p.m.	N-m (JIS kg-m)	276/1600 (28.1/1600)	269/1600 (27.4/1600)	
		Number of Cylinder		4	6	
		Piston Displacement	cc	3685	5204	
	Fuel Tank Capacity	liter	90	90		
	Transmission	Type		Powershift	Powershift	
Stage		FWD/RVS	1/1	1/1		
Operating Pressure	For Attachments	Mpa (kg/cm <sup>2</sup> )	18.1(185)	18.1(185)		

NOTE: \* Computed values.  
[ ] for 500 mm load center.

# 8FG/8FD40N

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

Front Tire Single/Dual	Single	Single	Dual	Dual
Front Tire Size	250-15-16PR	250-15	28x8-15-12PR	7.00-15
Overall Width	mm 1350	1350	1690	1690
Tread, Front	mm 1115	1115	1260	1260

## UNDERCLEARANCE

Mast (Full Load)	120
Drive Axle (Full Load)	170
Steer Axle (No Load)	210
Center of Wheelbase (Full Load)	200
Counterweight (No Load)	200

## RATED CAPACITIES

Unit: kg (W)

### V, FV Mast (PN or PSC)

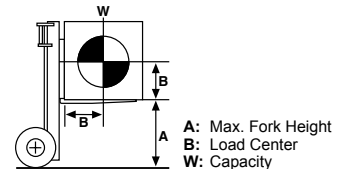
A (mm)	3000	3300	3500	3700	4000	4500	5000	5500	6000
[500]	[4500]	[4500]	[4500]	[4500]	[4500]	[4500]	[4200] <4400>	[3250] <4100>	[2500] <3300>
600	4000	4000	4000	4000	4000	4000	4000	3250 <3800>	2500 <3200>
700	3670	3670	3670	3670	3670	3670	3670	2980 <3480>	2290 <2930>
760	3490	3490	3490	3490	3490	3490	3490	2840 <3320>	2180 <2800>
800	3390	3390	3390	3390	3390	3390	3390	2750 <3220>	2120 <2710>
B (mm)	900	3150	3150	3150	3150	3150	3150	2560 <2990>	1970 <2520>
1000	2940	2940	2940	2940	2940	2940	2940	2390 <2790>	1840 <2350>
1100	2750	2750	2750	2750	2750	2750	2750	2240 <2620>	1720 <2200>
1200	2590	2590	2590	2590	2590	2590	2590	2110 <2460>	1620 <2070>
1300	2450	2450	2450	2450	2450	2450	2450	1990 <2330>	1530 <1960>
1400	2320	2320	2320	2320	2320	2320	2320	1890 <2200>	1450 <1860>
1500	2200	2200	2200	2200	2200	2200	2200	1790 <2090>	1380 <1760>

< > for dual tire models (PN or PSC)  
[ ] for 500 mm load center.

### FSV Mast (PN or PSC)

A (mm)	4000	4300	4500	4700	5000	5500	6000	6500	7000
[500]	[4500]	[4500]	[4500]	[4500]	[4500] <4400>	[4400] <4200>	[3500] <3300>	[1800] <2500>	[1000] <1800>
600	4000	4000	4000	4000	4000	3500 <4000>	2700 <3300>	1800 <2500>	1000 <1800>
700	3680	3680	3680	3680	3680	3220 <3680>	2480 <3030>	1650 <2300>	920 <1650>
760	3510	3510	3510	3510	3510	3070 <3510>	2370 <2890>	1580 <2190>	880 <1580>
800	3400	3400	3400	3400	3400	2980 <3400>	2300 <2810>	1530 <2130>	850 <1530>
B (mm)	900	3160	3160	3160	3160	2770 <3160>	2140 <2610>	1420 <1980>	790 <1420>
1000	2960	2960	2960	2960	2960	2590 <2960>	2000 <2440>	1330 <1850>	740 <1330>
1100	2780	2780	2780	2780	2780	2430 <2780>	1870 <2290>	1250 <1740>	690 <1250>
1200	2620	2620	2620	2620	2620	2290 <2620>	1770 <2160>	1180 <1640>	650 <1180>
1300	2470	2470	2470	2470	2470	2160 <2470>	1670 <2040>	1100 <1550>	620 <1110>
1400	2350	2350	2350	2350	2350	2050 <2350>	1580 <1940>	1060 <1470>	590 <1060>
1500	2230	2230	2230	2230	2230	1950 <2230>	1510 <1840>	1000 <1390>	560 <1000>

< > for dual tire models (PN or PSC)  
[ ] for 500 mm load center.



## MAST SPECIFICATIONS & RATED CAPACITIES

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 600 mm [500 mm] LC	Tilt Range	Load Capacity at 600 mm [500 mm] LC		
			Without Load Backrest	With Standard Load Backrest							Pneumatic Tire/ Pneumatic-Shaped Cushion Tire	Pneumatic Tire/ Pneumatic-Shaped Cushion Tire
			mm	mm			mm	mm	FWD deg	BWD deg	FWD deg	BWD deg
Wide Visible Mast (V)	3000	2110	3850	4270	110	110	6	12	4000 [4500]	6	12	4000 [4500]
	3300	2290	4150	4570	110	110	6	12	4000 [4500]	6	12	4000 [4500]
	3500	2390	4350	4770	110	110	6	12	4000 [4500]	6	12	4000 [4500]
	3700	2490	4550	4970	110	110	6	12	4000 [4500]	6	12	4000 [4500]
	4000	2740	4850	5270	110	110	6	12	4000 [4500]	6	12	4000 [4500]
	4500	2990	5350	5770	110	110	6	6	4000 [4500]	6	12	4000 [4500]
	5000	3240	5850	6270	110	110	6	6	4000 [4200]	6	12	4000 [4400]
Wide Visible Full-Free Lift Two-Stage Mast (FV)	5500	3540	6350	6770	110	110	6	6	3250 [3250]	6	6	3800 [4100]
	6000	3790	6850	7270	110	110	6	6	2500 [2500]	6	6	3200 [3300]
	3000	2110	3880	4270	1280	890	6	12	4000 [4500]	6	12	4000 [4500]
	3300	2290	4180	4570	1460	1070	6	12	4000 [4500]	6	12	4000 [4500]
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	3500	2390	4380	4770	1560	1170	6	12	4000 [4500]	6	12	4000 [4500]
	3700	2490	4580	4970	1660	1270	6	12	4000 [4500]	6	12	4000 [4500]
	4000	2740	4880	5270	1910	1520	6	12	4000 [4500]	6	12	4000 [4500]
	4000	2110	4880	5270	1280	890	6	6	4000 [4500]	6	6	4000 [4500]
	4300	2160	5180	5570	1330	940	6	6	4000 [4500]	6	6	4000 [4500]
	4500	2225	5380	5770	1395	1005	6	6	4000 [4500]	6	6	4000 [4500]
	4700	2290	5580	5970	1460	1070	6	6	4000 [4500]	6	6	4000 [4500]
5000	2390	5880	6270	1560	1170	6	6	4000 [4400]	6	6	4000 [4400]	
5500	2540	6380	6770	1710	1320	6	6	3500 [3500]	6	6	4000 [4200]	
6000	2740	6880	7270	1910	1520	6	6	2700 [2700]	6	6	3300 [3300]	
6500	2990	7380	7770	2160	1770	6	6	1800 [1800]	6	6	2500 [2500]	
7000	3240	7880	8270	2410	2020	6	6	1000 [1000]	6	6	1800 [1800]	

NOTE: Height of standard load backrest is 1220 mm.

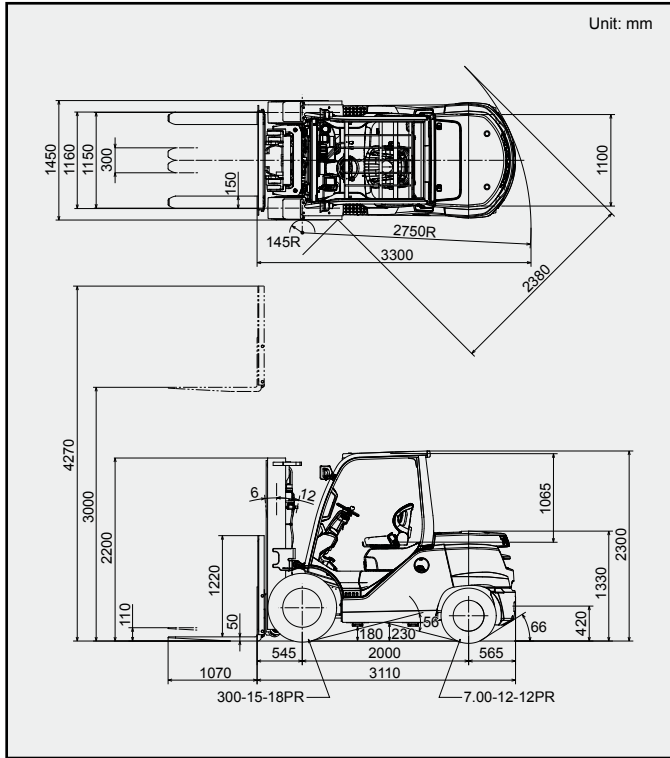
# 4,500 kg

## MAIN VEHICLE SPECIFICATIONS

			TOYOTA	TOYOTA		
Characteristics	Manufacturer			TOYOTA		
	Model			8FG45N		
	Load Capacity	kg	4500 [4990]	4500 [4990]		
	Load Center	mm	600 [500]	600 [500]		
	Power Type		Gasoline	Diesel		
Operator Position			Rider Seated	Rider Seated		
Tire Type	Front/Rear		Pneumatic	Pneumatic		
Wheels (x = driven)	Front/Rear		2x/2	2x/2		
Dimensions	Maximum Fork Height (MFH)		mm	3000	3000	
	Free Lift		mm	110	110	
	Fork Size	T x W x L	mm	50/150/1070	50/150/1070	
	Fork Spread (Outside)	MAX./MIN.	mm	1160/300	1160/300	
	Tilt Range	FWD/BWD	deg	6/12	6/12	
	Length to Fork Face		mm	3110	3110	
	Overall Width		mm	1450	1450	
	Mast Lowered Height		mm	2200	2200	
	Mast Extended Height		mm	4270	4270	
	Overhead Guard Height		mm	2300	2300	
	Turning Radius (Outside)		mm	2750	2750	
	Load Distance (Centerline of front axle to front face of forks)		mm	545	545	
	Rear Overhang		mm	565	565	
Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3300	3300		
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	23.5/23.5	22.5/22.5
			No Load	km/h	24.0/24.0	23.5/23.5
		Lifting	Full Load	mm/sec	480	480
			No Load	mm/sec	520	520
	Lowering	Full Load	mm/sec	540	540	
		No Load	mm/sec	490	490	
	Max. Drawbar Pull	Full Load	N <kg>	36000<3670>	37000<3780>	
		No Load	N <kg>	15000<1530>	15000<1530>	
Gradeability at 1.5 km/h *		Full Load	% (tanθ)	30	27	
Max. Gradeability *	Full Load	% (tanθ)	38	35		
	No Load	% (tanθ)	22	22		
Weight	Total Weight		kg	6610	6710	
	Weight Distribution	Full Load	Front	kg	9900 [10430]	9940 [10500]
			Rear	kg	1210 [1170]	1270 [1200]
		No Load	Front	kg	2830	2870
Rear			kg	3780	3840	
Wheels and Tires	Tires	Number	Front/Rear		2/2	2/2
		Size	Front		300-15-18PR	300-15-18PR
	Rear			7.00-12-12PR	7.00-12-12PR	
	Wheelbase		mm	2000	2000	
	Tread	Front	mm	1150	1150	
		Rear	mm	1100	1100	
	Backrest Height		mm	1220	1220	
	Overhead Guard Clearance		mm	1065	1065	
	Counterweight Height		mm	1330	1330	
	Drawbar Pin Center Height		mm	420	420	
	Step Height		mm	540	540	
	Floor Height		mm	855	855	
	Underclearance (Full load)	Min. <Mast>	mm	120	120	
Center of Wheelbase		mm	230	230		
Grade Clearance		Frame/Counterweight	% (tanθ)	56/66	56/66	
Brake	Service (Foot)		Hydraulic	Hydraulic		
	Parking		Hand	Hand		
Battery	Voltage/Capacity (5HR)	V/AH	12/48	12/64		
Internal Combustion Engine	Make/Model			TOYOTA 1FS	TOYOTA 14Z- II	
	Rated Power/r.p.m.	kW (JIS ps)	65/2350 (88/2350)	56/2100 (76/2100)		
	Rated Torque/r.p.m.	N-m (JIS kg-m)	276/1600 (28.1/1600)	269/1600 (27.4/1600)		
	Number of Cylinder			4	6	
	Piston Displacement		cc	3685	5204	
	Fuel Tank Capacity		liter	120	120	
Transmission	Type			Powershift	Powershift	
	Stage	FWD/RVS		1/1	1/1	
Operating Pressure	For Attachments	Mpa (kg/cm <sup>2</sup> )	18.1(185)	18.1(185)		

NOTE: \* Computed values.  
[ ] for 500 mm load center.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

Front Tire Single/Dual	Single	Single	Dual	Dual
Front Tire Size	300-15-18PR	300-15	8.25-15-14PR	8.25-15
Overall Width	mm 1450	1450	1890	1890
Tread, Front	mm 1150	1150	1385	1385

## UNDERCLEARANCE mm

Mast (Full Load)	120
Drive Axle (Full Load)	215
Steer Axle (No Load)	210
Center of Wheelbase (Full Load)	230
Counterweight (No Load)	200

## RATED CAPACITIES

Unit: kg (W)

### V, FV Mast (PN or PSC)

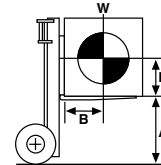
A (mm)	3000	3300	3500	3700	4000	4500	5000	5500
	[500]	[5000]	[5000]	[5000]	[5000]	[5000]	[4000] [4600]	[3300] [4200]
600	4500	4500	4500	4500	4500	4500	4000 [4400]	3300 [4200]
700	4140	4140	4140	4140	4140	4140	3680 [4050]	3030 [3860]
760	3950	3950	3950	3950	3950	3950	3510 [3860]	2900 [3690]
800	3830	3830	3830	3830	3830	3830	3410 [3750]	2810 [3580]
B (mm)	900	3570	3570	3570	3570	3570	3170 [3490]	2610 [3330]
1000	3330	3330	3330	3330	3330	3330	2960 [3260]	2450 [3110]
1100	3130	3130	3130	3130	3130	3130	2780 [3060]	2300 [2920]
1200	2950	2950	2950	2950	2950	2950	2620 [2890]	2170 [2760]
1300	2790	2790	2790	2790	2790	2790	2480 [2730]	2050 [2610]
1400	2650	2650	2650	2650	2650	2650	2350 [2590]	1940 [2470]
1500	2520	2520	2520	2520	2520	2520	2240 [2460]	1850 [2350]

< > for dual tire models (PN or PSC)  
[ ] for 500 mm load center.

### FSV Mast (PN or PSC)

A (mm)	4000	4300	4500	4700	5000	5500	6000	6500
	[500]	[5000]	[4900]	[4500] [4700]	[4500] [4700]	[4000] [4600]	[3000] [4200]	[1500] [2700]
600	4500	4500	4200 [4400]	4200 [4400]	4000 [4300]	3000 [4100]	2300 [3900]	1500 [2700]
700	4150	4150	3870 [4050]	3870 [4050]	3690 [3960]	2760 [3780]	2120 [3590]	1380 [2490]
760	3960	3960	3700 [3870]	3700 [3870]	3520 [3780]	2640 [3610]	2020 [3500]	1320 [2380]
800	3850	3850	3590 [3760]	3590 [3760]	3420 [3670]	2560 [3500]	1970 [3330]	1280 [2310]
B (mm)	900	3580	3580	3350 [3510]	3350 [3510]	3190 [3430]	2390 [3270]	1830 [3110]
1000	3360	3360	3130 [3280]	3130 [3280]	2980 [3210]	2240 [3060]	1720 [2910]	1120 [2010]
1100	3160	3160	2950 [3090]	2950 [3090]	2810 [3020]	2100 [2880]	1610 [2740]	1050 [1890]
1200	2980	2980	2780 [2910]	2780 [2910]	2650 [2850]	1990 [2880]	1520 [2580]	990 [1790]
1300	2820	2820	2630 [2760]	2630 [2760]	2510 [2690]	1880 [2570]	1440 [2440]	940 [1690]
1400	2680	2680	2500 [2620]	2500 [2620]	2380 [2560]	1780 [2440]	1370 [2320]	890 [1610]
1500	2550	2550	2380 [2490]	2380 [2490]	2270 [2430]	1700 [2320]	1300 [2210]	850 [1530]

< > for dual tire models (PN or PSC)  
[ ] for 500 mm load center.



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

## MAST SPECIFICATIONS & RATED CAPACITIES

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 600 mm [500 mm] LC	Tilt Range		Load Capacity at 600 mm [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	
Wide Visible Mast (V)	3000	2200	3690	4270	110	110	6	12	4500 [5000]	6	12	4500 [5000]
	3300	2350	3990	4570	110	110	6	12	4500 [5000]	6	12	4500 [5000]
	3500	2450	4190	4770	110	110	6	12	4500 [5000]	6	12	4500 [5000]
	3700	2600	4420	4970	110	110	6	12	4500 [5000]	6	12	4500 [5000]
	4000	2800	4770	5270	110	110	6	12	4500 [5000]	6	12	4500 [5000]
	4500	3050	5270	5770	110	110	6	6	4500 [5000]	6	12	4500 [5000]
	5000	3300	5770	6270	110	110	6	6	4000 [4000]	6	12	4400 [4600]
5500	3550	6270	6770	110	110	6	6	3300 [3300]	6	12	4200 [4200]	
Wide Visible Full-Free Lift Two-Stage Mast (FV)	3000	2200	3740	4270	1510	980	6	12	4500 [5000]	6	12	4500 [5000]
	3300	2350	4040	4570	1660	1130	6	12	4500 [5000]	6	12	4500 [5000]
	3500	2450	4240	4910	1760	1230	6	12	4500 [5000]	6	12	4500 [5000]
	3700	2600	4440	4970	1910	1380	6	12	4500 [5000]	6	12	4500 [5000]
	4000	2800	4740	5270	2110	1580	6	12	4500 [5000]	6	12	4500 [5000]
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	4000	2120	4740	5270	1430	900	6	6	4500 [5000]	6	6	4500 [5000]
	4300	2200	5040	5570	1510	980	6	6	4500 [4900]	6	6	4500 [4900]
	4500	2270	5240	5770	1580	1030	6	6	4200 [4500]	6	6	4400 [4700]
	4700	2350	5440	5970	1660	1130	6	6	4200 [4500]	6	6	4400 [4700]
	5000	2450	5740	6270	1760	1230	6	6	4000 [4000]	6	6	4300 [4600]
	5500	2600	6240	6770	1910	1380	6	6	3000 [3000]	6	6	4100 [4400]
	6000	2800	6740	7270	2110	1580	6	6	2300 [2300]	6	6	3900 [4200]
6500	3050	7240	7770	2360	1830	6	6	1500 [1500]	6	6	2700 [2700]	

NOTE: Height of standard load backrest is 1220 mm.

# 5,000 kg

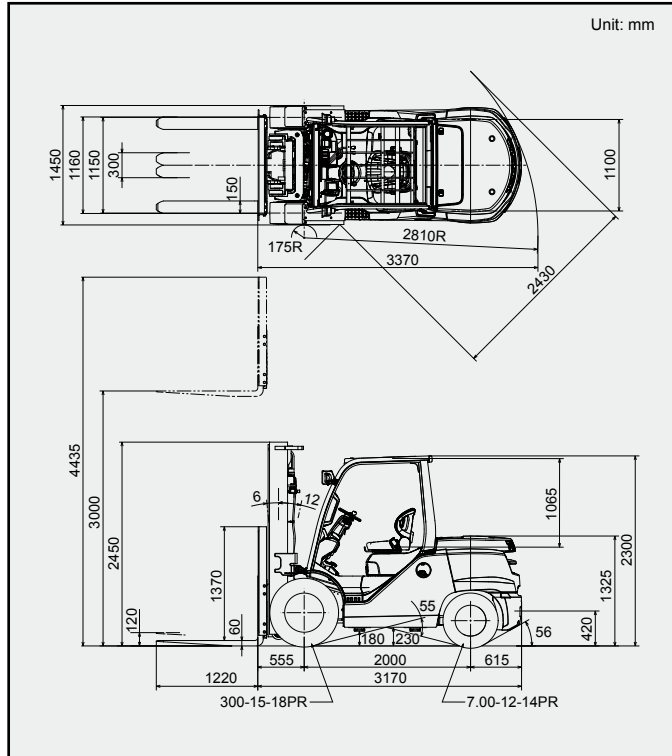
## MAIN VEHICLE SPECIFICATIONS

Characteristics	Manufacturer			TOYOTA	TOYOTA	
	Model			8FG50N	8FD50N	
	Load Capacity	kg		5000	5000	
	Load Center	mm		600	600	
	Power Type			Gasoline	Diesel	
	Operator Position			Rider Seated	Rider Seated	
	Tire Type	Front/Rear		Pneumatic	Pneumatic	
Wheels (x = driven)	Front/Rear		2x/2	2x/2		
Dimensions	Maximum Fork Height (MFH)		mm	3000	3000	
	Free Lift		mm	120	120	
	Fork Size	T x W x L	mm	60/150/1220	60/150/1220	
	Fork Spread (Outside)	MAX./MIN.	mm	1160/300	1160/300	
	Tilt Range	FWD/BWD	deg	6/12	6/12	
	Length to Fork Face		mm	3170	3170	
	Overall Width		mm	1450	1450	
	Mast Lowered Height		mm	2450	2450	
	Mast Extended Height		mm	4435	4435	
	Overhead Guard Height		mm	2300	2300	
	Turning Radius (Outside)		mm	2810	2810	
	Load Distance (Centerline of front axle to front face of forks)		mm	555	555	
	Rear Overhang		mm	615	615	
	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3370	3370	
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	23.5/23.5	22.5/22.5
			No Load	km/h	24.0/24.0	23.5/23.5
		Lifting	Full Load	mm/sec	490	480
			No Load	mm/sec	520	520
		Lowering	Full Load	mm/sec	540	540
			No Load	mm/sec	490	490
	Max. Drawbar Pull	Full Load	N <kg>	36000<3670>	35400<3600>	
		No Load	N <kg>	16000<1630>	16000<1630>	
	Gradeability at 1.5 km/h *		Full Load	% (tan $\theta$ )	23	22
	Max. Gradeability *		Full Load	% (tan $\theta$ )	31	30
		No Load	% (tan $\theta$ )	22	22	
Weight	Total Weight		kg	7140	7240	
	Weight Distribution	Full Load	Front	kg	10880	10930
			Rear	kg	1260	1310
		No Load	Front	kg	3000	3045
			Rear	kg	4140	4195
	Wheels and Tires	Tires	Number	Front/Rear	2/2	2/2
Size			Front		300-15-18PR	300-15-18PR
		Rear		7.00-12-14PR	7.00-12-14PR	
Wheelbase		mm	2000	2000		
Tread		Front	mm	1150	1150	
		Rear	mm	1100	1100	
Backrest Height		mm	1370	1370		
Overhead Guard Clearance		mm	1065	1065		
Counterweight Height		mm	1325	1325		
Drawbar Pin Center Height		mm	420	420		
Step Height		mm	540	540		
Floor Height		mm	855	855		
Underclearance (Full load)	Min. <Mast>	mm	120	120		
	Center of Wheelbase	mm	230	230		
Grade Clearance		Frame/Counterweight	% (tan $\theta$ )	55/66	55/66	
Brake	Service (Foot)		Hydraulic	Hydraulic		
	Parking		Hand	Hand		
Drive Unit and Control	Battery	Voltage/Capacity (5HR)	V/AH	12/48	12/64	
	Internal Combustion Engine	Make/Model			TOYOTA 1FS	TOYOTA 14Z- II
		Rated Power/r.p.m.	kW (JIS ps)		65/2350 (88/2350)	56/2100 (76/2100)
		Rated Torque/r.p.m.	N-m (JIS kg-m)		276/1600 (28.1/1600)	269/1600 (27.4/1600)
		Number of Cylinder			4	6
		Piston Displacement		cc	3685	5204
	Fuel Tank Capacity		liter	120	120	
	Transmission	Type			Powershift	Powershift
Stage		FWD/RVS		1/1	1/1	
Operating Pressure		For Attachments	Mpa (kg/cm <sup>2</sup> )	18.1(185)	18.1(185)	

NOTE: \* Computed values.



## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

Front Tire Single/Dual	Single	Single	Dual	Dual
Front Tire Size	300-15-18PR	300-15	8.25-15-14PR	8.25-15
Overall Width	mm 1450	1450	1890	1890
Tread, Front	mm 1150	1150	1385	1385

## UNDERCLEARANCE

	mm
Mast (Full Load)	120
Drive Axle (Full Load)	210
Steer Axle (No Load)	210
Center of Wheelbase (Full Load)	230
Counterweight (No Load)	200

## RATED CAPACITIES

Unit: kg (W)

### V Mast (PN or PSC)

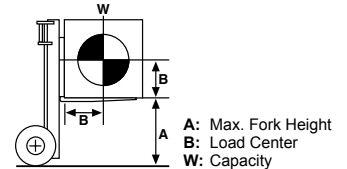
A (mm)	2500	2700	3000	3300	3500	3700	4000	4500	5000
600	5000	5000	5000	5000	5000	5000	5000	5000	4000 <4800>
700	4600	4600	4600	4600	4600	4600	4600	4600	3680 <4420>
760	4390	4390	4390	4390	4390	4390	4390	4390	3510 <4220>
800	4260	4260	4260	4260	4260	4260	4260	4260	3410 <4090>
900	3970	3970	3970	3970	3970	3970	3970	3970	3180 <3810>
1000	3710	3710	3710	3710	3710	3710	3710	3710	2970 <3570>
1100	3490	3490	3490	3490	3490	3490	3490	3490	2790 <3350>
1200	3290	3290	3290	3290	3290	3290	3290	3290	2630 <3160>
1300	3110	3110	3110	3110	3110	3110	3110	3110	2490 <2990>
1400	2950	2950	2950	2950	2950	2950	2950	2950	2360 <2840>
1500	2810	2810	2810	2810	2810	2810	2810	2810	2250 <2700>

< > for dual tire models (PN or PSC)

### FSV Mast (PN or PSC)

A (mm)	3700	4000	4300	4700	5000	5500	6000
600	5000	4900	4800	4300 <4600>	4100 <4500>	3100 <4300>	2400 <4100>
700	4610	4520	4430	3970 <4240>	3780 <4150>	2860 <3970>	2210 <3780>
760	4410	4320	4230	3790 <4050>	3610 <3960>	2730 <3790>	2110 <3610>
800	4280	4190	4110	3680 <3940>	3510 <3850>	2650 <3680>	2050 <3510>
900	3990	3910	3830	3430 <3670>	3270 <3590>	2470 <3430>	1920 <3270>
1000	3740	3660	3590	3210 <3440>	3070 <3360>	2320 <3210>	1790 <3070>
1100	3520	3450	3380	3020 <3240>	2880 <3160>	2180 <3020>	1690 <2880>
1200	3320	3250	3190	2850 <3050>	2720 <2990>	2060 <2850>	1590 <2720>
1300	3140	3080	3020	2700 <2890>	2580 <2830>	1950 <2700>	1510 <2580>
1400	2980	2930	2870	2570 <2750>	2450 <2690>	1850 <2570>	1430 <2450>
1500	2840	2780	2730	2440 <2610>	2330 <2560>	1760 <2440>	1360 <2330>

< > for dual tire models (PN or PSC)



## MAST SPECIFICATIONS & RATED CAPACITIES

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 600 mm LC	Tilt Range		Load Capacity at 600 mm LC	
			Without Load Backrest	With Standard Load Backrest			FWD	BWD		Pneumatic Tire/ Pneumatic-Shaped Cushion Tire	FWD		BWD
Wide Visible Mast (V)	2500	2200	3405	3935	125	125	6	12	5000	6	12	5000	
	2700	2350	3605	4135	125	125	6	12	5000	6	12	5000	
	3000	2450	3905	4435	125	125	6	12	5000	6	12	5000	
	3300	2600	4205	4735	125	125	6	12	5000	6	12	5000	
	3500	2800	4405	4935	125	125	6	12	5000	6	12	5000	
	3700	2800	4605	5135	125	125	6	12	5000	6	12	5000	
	4000	3050	4905	5435	125	125	6	12	5000	6	12	5000	
	4500	3300	5405	5935	125	125	6	6	5000	6	12	5000	
5000	3550	5905	6435	125	125	6	6	4000	6	12	4800		
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	3700	2200	4635	5135	1330	830	6	6	5000	6	6	5000	
	4000	2270	4935	5435	1400	900	6	6	4900	6	6	4900	
	4300	2350	5235	5735	1480	980	6	6	4800	6	6	4800	
	4700	2450	5635	6135	1580	1080	6	6	4300	6	6	4600	
	5000	2600	5935	6435	1730	1230	6	6	4100	6	6	4500	
	5500	2800	6435	6935	1930	1430	6	6	3100	6	6	4300	
	6000	3050	6935	7435	2180	1680	6	6	2400	6	6	4100	

NOTE: Height of standard load backrest is 1370 mm.



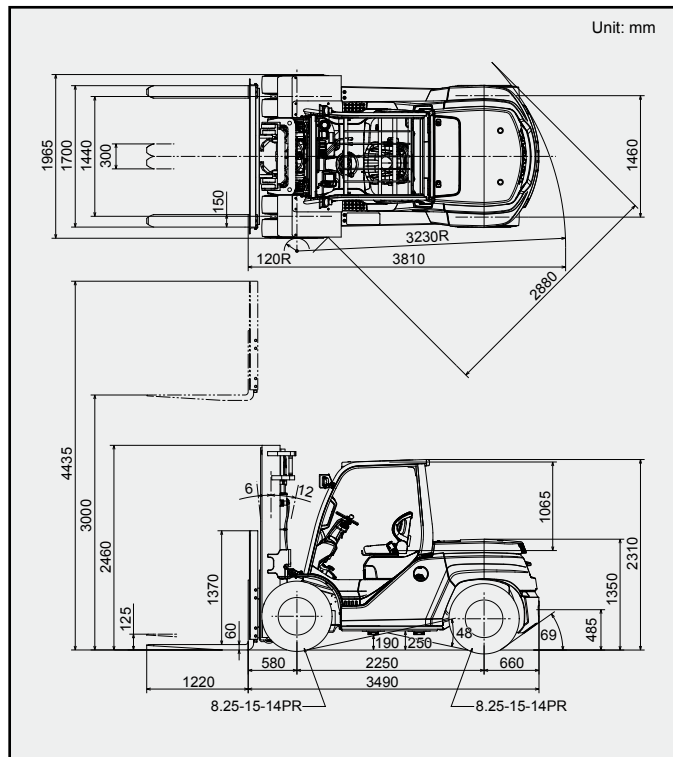
# 6,000 kg

## MAIN VEHICLE SPECIFICATIONS

Characteristics	Manufacturer		TOYOTA		
	Model		8FD60N		
	Load Capacity		kg	6000	
	Load Center		mm	600	
	Power Type		Diesel		
	Operator Position		Rider Seated		
	Tire Type		Front/Rear	Pneumatic	
Wheels (x = driven)		Front/Rear	4x/2		
Dimensions	Maximum Fork Height (MFH)		mm	3000	
	Free Lift		mm	125	
	Fork Size		T x W x L	60/150/1220	
	Fork Spread (Outside)		MAX./MIN.	1700/300	
	Tilt Range		FWD/BWD	6/12	
	Length to Fork Face		mm	3490	
	Overall Width		mm	1965	
	Mast Lowered Height		mm	2460	
	Mast Extended Height		mm	4435	
	Overhead Guard Height		mm	2310	
	Turning Radius (Outside)		mm	3230	
	Load Distance (Centerline of front axle to front face of forks)		mm	580	
	Rear Overhang		mm	660	
	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3810	
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	19.0/19.0
			No Load	km/h	20.5/20.5
		Lifting	Full Load	mm/sec	410
			No Load	mm/sec	440
	Lowering	Full Load	mm/sec	530	
		No Load	mm/sec	480	
	Max. Drawbar Pull		Full Load	N <kg>	46000<4690>
			No Load	N <kg>	20500<2090>
Gradeability at 1.5 km/h *		Full Load	% (tanθ)	24	
Max. Gradeability *		Full Load	% (tanθ)	34	
		No Load	% (tanθ)	24	
Weight	Total Weight		kg	8390	
	Weight Distribution	Full Load	Front	kg	12860
			Rear	kg	1530
		No Load	Front	kg	3715
Rear			kg	4675	
Wheels and Tires	Tires	Number	Front/Rear	4/2	
		Size	Front	8.25-15-14PR	
	Rear		8.25-15-14PR		
	Wheelbase		mm	2250	
	Tread	Front	mm	1440	
		Rear	mm	1460	
	Backrest Height		mm	1370	
	Overhead Guard Clearance		mm	1065	
	Counterweight Height		mm	1350	
	Drawbar Pin Center Height		mm	485	
	Step Height		1st/2nd	295/545	
	Floor Height		mm	860	
	Underclearance (Full load)	Min. <Mast>	mm	125	
		Center of Wheelbase	mm	250	
Grade Clearance		Frame/Counterweight	% (tanθ)	48/69	
Brake	Service (Foot)	Hydraulic			
	Parking	Hand			
Drive Unit and Control	Battery		V/AH	12/64	
	Internal Combustion Engine	Make/Model		TOYOTA 14Z- II	
		Rated Power/r.p.m.		kW (JIS ps)	66/2400 (90/2400)
		Rated Torque/r.p.m.		N-m (JIS kg-m)	325/1000 (33.2/1000)
		Number of Cylinder		6	
		Piston Displacement		cc	5204
		Fuel Tank Capacity		liter	130
	Transmission	Type		Powershift	
Stage		FWD/RVS	1/1		
Operating Pressure		For Attachments	Mpa (kg/cm <sup>2</sup> )	20.6(210)	

NOTE: \* Computed values.

## DIMENSIONAL DRAWINGS



## RATED CAPACITIES

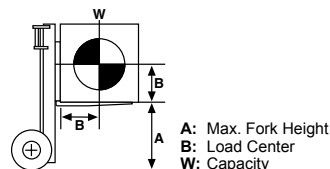
Unit: kg (W)

### V Mast (PN or PSC)

A (mm)	3000	3300	3500	3700	4000	4500	5000	5500	6000
600	6000	6000	6000	6000	6000	6000	6000	6000	5700
700	5530	5530	5530	5530	5530	5530	5530	5530	5250
760	5280	5280	5280	5280	5280	5280	5280	5280	5020
800	5130	5130	5130	5130	5130	5130	5130	5130	4870
900	4780	4780	4780	4780	4780	4780	4780	4780	4540
1000	4480	4480	4480	4480	4480	4480	4480	4480	4260
1100	4210	4210	4210	4210	4210	4210	4210	4210	4000
1200	3980	3980	3980	3980	3980	3980	3980	3980	3780
1300	3770	3770	3770	3770	3770	3770	3770	3770	3580
1400	3580	3580	3580	3580	3580	3580	3580	3580	3400
1500	3400	3400	3400	3400	3400	3400	3400	3400	3230

### FSV Mast (PN or PSC)

A (mm)	4000	4300	4700	5000	6000	7000
600	5700	5700	5500	5500	5200	3700
700	5270	5270	5080	5080	4800	3420
760	5040	5040	4860	4860	4590	3270
800	4890	4890	4720	4720	4470	3180
900	4570	4570	4410	4410	4170	2970
1000	4290	4290	4140	4140	3910	2780
1100	4040	4040	3900	3900	3680	2620
1200	3820	3820	3680	3680	3480	2480
1300	3620	3620	3490	3490	3300	2350
1400	3440	3440	3320	3320	3140	2230
1500	3270	3270	3160	3160	2990	2130



## SPECIAL TREAD

Front Tire Dual	Dual	Dual
Front Tire Size	8.25-15-14PR	8.25-15
Overall Width mm	1965	1965
Tread, Front mm	1440	1440

## UNDERCLEARANCE mm

Mast (Full Load)	125
Drive Axle (Full Load)	215
Steer Axle (No Load)	270
Center of Wheelbase (Full Load)	250
Counterweight (No Load)	225

## MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Maximum Fork Height	Overall Height		Free Lift		Dual Tire			
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 600 mm LC
			Without Load Backrest	With Standard Load Backrest			FWD	BWD	
mm	mm	mm	mm	mm	mm	deg	deg	kg	
Wide Visible Mast (V)	3000	2460	3980	4435	125	125	6	12	6000
	3300	2610	4280	4735	125	125	6	12	6000
	3500	2710	4480	4935	125	125	6	12	6000
	3700	2810	4680	5135	125	125	6	12	6000
	4000	3060	4980	5435	125	125	6	12	6000
	4500	3310	5480	5935	125	125	6	12	6000
	5000	3560	5980	6435	125	125	6	12	6000
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	5500	3810	6480	6935	125	125	6	12	6000
	6000	4060	6980	7435	125	125	6	12	5700
	4000	2360	5060	5435	1365	990	6	6	5700
	4300	2460	5360	5735	1465	1090	6	6	5700
	4700	2550	5750	6135	1565	1180	6	6	5500
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	5000	2810	6160	6435	1715	1440	6	6	5500
	6000	3110	7110	7435	2065	1740	6	6	5200
	7000	3560	8060	8435	2565	2190	6	6	3700

NOTE: Height of standard load backrest is 1370 mm.

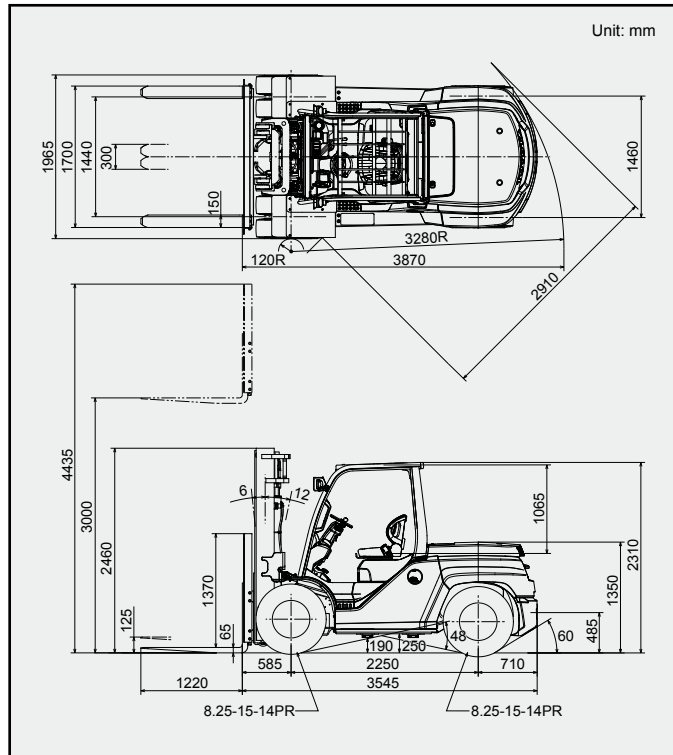
# 7,000 kg

## MAIN VEHICLE SPECIFICATIONS

Characteristics	Manufacturer		TOYOTA		
	Model		8FD70N		
	Load Capacity	kg	7000		
	Load Center	mm	600		
	Power Type		Diesel		
	Operator Position		Rider Seated		
	Tire Type	Front/Rear	Pneumatic		
Wheels (x = driven)	Front/Rear	4x/2			
Dimensions	Maximum Fork Height (MFH)		mm	3000	
	Free Lift		mm	125	
	Fork Size	T x W x L	mm	65/150/1220	
	Fork Spread (Outside)	MAX./MIN.	mm	1700/300	
	Tilt Range	FWD/BWD	deg	6/12	
	Length to Fork Face		mm	3545	
	Overall Width		mm	1965	
	Mast Lowered Height		mm	2460	
	Mast Extended Height		mm	4435	
	Overhead Guard Height		mm	2310	
	Turning Radius (Outside)		mm	3280	
	Load Distance (Centerline of front axle to front face of forks)		mm	585	
	Rear Overhang		mm	710	
	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3870	
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	19.0/19.0
			No Load	km/h	20.5/20.5
		Lifting	Full Load	mm/sec	410
			No Load	mm/sec	440
	Lowering	Full Load	mm/sec	530	
		No Load	mm/sec	480	
	Max. Drawbar Pull	Full Load	N <kg>	45000<4590>	
		No Load	N <kg>	19500<1990>	
Gradeability at 1.5 km/h *		Full Load	% (tanθ)	21	
Max. Gradeability *		Full Load	% (tanθ)	30	
		No Load	% (tanθ)	21	
Weight	Total Weight		kg	9125	
	Weight Distribution	Full Load	Front	kg	14340
			Rear	kg	1785
		No Load	Front	kg	3650
			Rear	kg	5475
	Tires	Number	Front/Rear	4/2	
Size		Front	8.25-15-14PR		
		Rear	8.25-15-14PR		
Wheelbase		mm	2250		
Tread	Front	mm	1440		
	Rear	mm	1460		
Backrest Height		mm	1370		
Overhead Guard Clearance		mm	1065		
Counterweight Height		mm	1350		
Drawbar Pin Center Height		mm	485		
Step Height	1st/2nd	mm	295/545		
Floor Height		mm	860		
Underclearance (Full load)	Min. <Mast>	mm	125		
	Center of Wheelbase	mm	250		
Grade Clearance	Frame/Counterweight	% (tanθ)	48/60		
Brake	Service (Foot)		Hydraulic		
	Parking		Hand		
Battery	Voltage/Capacity (5HR)	V/AH	12/64		
Internal Combustion Engine	Make/Model		TOYOTA 14Z- II		
	Rated Power/r.p.m.	kW (JIS ps)	66/2400 (90/2400)		
	Rated Torque/r.p.m.	N-m (JIS kg-m)	325/1000 (33.2/1000)		
	Number of Cylinder		6		
	Piston Displacement		cc	5204	
	Fuel Tank Capacity		liter	130	
Transmission	Type		Powershift		
	Stage	FWD/RVS	1/1		
Operating Pressure	For Attachments	Mpa (kg/cm <sup>2</sup> )	20.6(210)		

NOTE: \* Computed values.

## DIMENSIONAL DRAWINGS



## RATED CAPACITIES

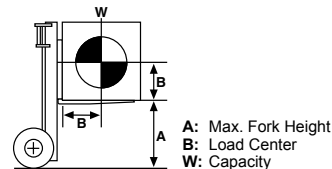
Unit: kg (W)

### V Mast (PN or PSC)

A (mm)	3000	3300	3500	3700	4000	4500	5000	5500	6000
600	7000	7000	7000	7000	7000	7000	7000	6700	6500
700	6460	6460	6460	6460	6460	6460	6460	6180	5990
760	6170	6170	6170	6170	6170	6170	6170	5900	5730
800	5990	5990	5990	5990	5990	5990	5990	5730	5560
900	5590	5590	5590	5590	5590	5590	5590	5350	5190
1000	5230	5230	5230	5230	5230	5230	5230	5010	4860
1100	4920	4920	4920	4920	4920	4920	4920	4710	4570
1200	4650	4650	4650	4650	4650	4650	4650	4450	4320
1300	4400	4400	4400	4400	4400	4400	4400	4210	4090
1400	4180	4180	4180	4180	4180	4180	4180	4000	3880
1500	3980	3980	3980	3980	3980	3980	3980	3810	3690

### FSV Mast (PN or PSC)

A (mm)	4000	4300	4700	5000	6000	7000
600	6700	6700	6700	6700	5700	4000
700	6190	6190	6190	6190	5270	3700
760	5920	5920	5920	5920	5040	3540
800	5760	5760	5760	5760	4900	3440
900	5380	5380	5380	5380	4580	3210
1000	5050	5050	5050	5050	4290	3010
1100	4750	4750	4750	4750	4040	2840
1200	4490	4490	4490	4490	3820	2680
1300	4260	4260	4260	4260	3620	2540
1400	4050	4050	4050	4050	3440	2420
1500	3860	3860	3860	3860	3280	2300



## SPECIAL TREAD

Front Tire Dual	Dual	Dual
Front Tire Size	8.25-15-14PR	8.25-15
Overall Width mm	1965	1965
Tread, Front mm	1440	1440

## UNDERCLEARANCE mm

Mast (Full Load)	125
Drive Axle (Full Load)	205
Steer Axle (No Load)	265
Center of Wheelbase (Full Load)	250
Counterweight (No Load)	225

## MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Maximum Fork Height	Overall Height		Free Lift		Dual Tire			
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 600 mm LC
			Without Load Backrest	With Standard Load Backrest			FWD	BWD	
	mm	mm	mm	mm	mm	mm	deg	deg	kg
Wide Visible Mast (V)	3000	2460	3980	4435	125	125	6	12	7000
	3300	2610	4280	4735	125	125	6	12	7000
	3500	2710	4480	4935	125	125	6	12	7000
	3700	2810	4680	5135	125	125	6	12	7000
	4000	3060	4980	5435	125	125	6	12	7000
	4500	3310	5480	5935	125	125	6	12	7000
	5000	3560	5980	6435	125	125	6	12	7000
Wide Visible Full-Free Lift Three-Stage Mast (FSV)	4000	2360	5060	5435	1365	990	6	6	6700
	4300	2460	5360	5735	1465	1090	6	6	6700
	4700	2550	5750	6135	1565	1180	6	6	6700
	5000	2810	6160	6435	1715	1440	6	6	6700
	6000	3110	7110	7435	2065	1740	6	6	5700
	7000	3560	8060	8435	2565	2190	6	6	4000

NOTE: Height of standard load backrest is 1370 mm.

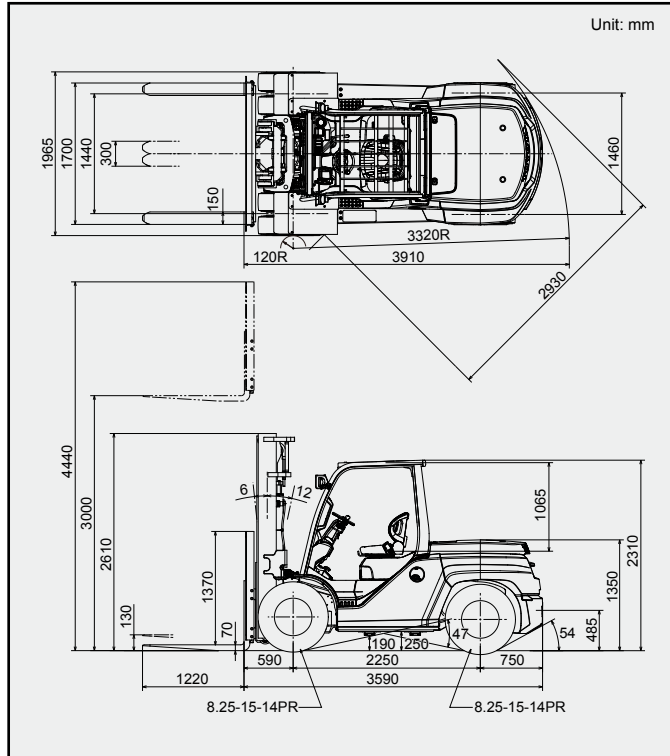
# 8,000 kg

## MAIN VEHICLE SPECIFICATIONS

Characteristics	Manufacturer		TOYOTA		
	Model		8FD80N		
	Load Capacity	kg	8000		
	Load Center	mm	600		
	Power Type		Diesel		
	Operator Position		Rider Seated		
Dimensions	Tire Type	Front/Rear	Pneumatic		
	Wheels (x = driven)	Front/Rear	4x/2		
	Maximum Fork Height (MFH)		mm	3000	
	Free Lift		mm	130	
	Fork Size	T x W x L	mm	70/150/1220	
	Fork Spread (Outside)	MAX./MIN.	mm	1700/300	
	Tilt Range	FWD/BWD	deg	6/12	
	Length to Fork Face		mm	3590	
	Overall Width		mm	1965	
	Mast Lowered Height		mm	2610	
	Mast Extended Height		mm	4440	
	Overhead Guard Height		mm	2310	
	Turning Radius (Outside)		mm	3320	
	Load Distance (Centerline of front axle to front face of forks)		mm	590	
Rear Overhang		mm	750		
Basic Right Angle Stacking Aisle Width (Add load length and clearance)		mm	3910		
Performance	Speeds	Travel, Max. (FWD/RVS)	Full Load	km/h	19.0/19.0
			No Load	km/h	20.5/20.5
		Lifting	Full Load	mm/sec	370
			No Load	mm/sec	440
	Lowering	Full Load	mm/sec	530	
		No Load	mm/sec	480	
	Max. Drawbar Pull	Full Load	N <kg>	45000<4590>	
		No Load	N <kg>	19300<1970>	
Gradeability at 1.5 km/h *		Full Load	% (tanθ)	19	
Max. Gradeability *		Full Load	% (tanθ)	27	
		No Load	% (tanθ)	18	
Weight	Total Weight		kg	9980	
	Weight Distribution	Full Load	Front	kg	15880
			Rear	kg	2100
		No Load	Front	kg	3650
Rear			kg	6330	
Wheels and Tires	Tires	Number	Front/Rear	4/2	
		Size	Front	8.25-15-14PR	
	Rear		8.25-15-14PR		
	Wheelbase		mm	2250	
	Tread	Front	mm	1440	
		Rear	mm	1460	
	Backrest Height		mm	1370	
	Overhead Guard Clearance		mm	1065	
	Counterweight Height		mm	1350	
	Drawbar Pin Center Height		mm	485	
	Step Height	1st/2nd	mm	295/545	
	Floor Height		mm	860	
	Underclearance (Full load)	Min. <Mast>	mm	125	
		Center of Wheelbase	mm	250	
Grade Clearance	Frame/Counterweight	% (tanθ)	47/54		
Brake	Service (Foot)	Hydraulic			
	Parking	Hand			
Drive Unit and Control	Battery	Voltage/Capacity (5HR)	V/AH	12/70	
	Internal Combustion Engine	Make/Model		TOYOTA 14Z- II	
		Rated Power/r.p.m.	kW (JIS ps)	66/2400 (90/2400)	
		Rated Torque/r.p.m.	N-m (JIS kg-m)	325/1000 (33.2/1000)	
		Number of Cylinder	6		
		Piston Displacement	cc	5204	
	Fuel Tank Capacity	liter	130		
	Transmission	Type	Powershift		
Stage		FWD/RVS	1/1		
Operating Pressure	For Attachments	Mpa (kg/cm <sup>2</sup> )	20.6(210)		

NOTE: \* Computed values.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

Front Tire Dual	Dual	Dual
Front Tire Size	8.25-15-14PR	8.25-15
Overall Width mm	1965	1965
Tread, Front mm	1440	1440

## UNDERCLEARANCE mm

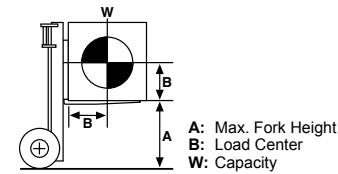
Mast (Full Load).....	125
Drive Axle (Full Load).....	215
Steer Axle (No Load).....	265
Center of Wheelbase (Full Load).....	250
Counterweight (No Load).....	220

## RATED CAPACITIES

Unit: kg (W)

### V Mast (PN or PSC)

A (mm)	3000	3300	3500	3700	4000	4500	5000	5500	6000
600	8000	8000	8000	8000	8000	8000	8000	7700	7500
700	7380	7380	7380	7380	7380	7380	7380	7100	6920
760	7050	7050	7050	7050	7050	7050	7050	6790	6610
800	6850	6850	6850	6850	6850	6850	6850	6590	6420
900	6390	6390	6390	6390	6390	6390	6390	6150	5990
1000	5990	5990	5990	5990	5990	5990	5990	5760	5610
1100	5630	5630	5630	5630	5630	5630	5630	5420	5280
1200	5320	5320	5320	5320	5320	5320	5320	5120	4990
1300	5040	5040	5040	5040	5040	5040	5040	4850	4720
1400	4780	4780	4780	4780	4780	4780	4780	4600	4480
1500	4560	4560	4560	4560	4560	4560	4560	4380	4270



## MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Maximum Fork Height	Overall Height		Free Lift		Dual Tire			
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Tilt Range		Load Capacity at 600 mm LC
			Without Load Backrest	With Standard Load Backrest			FWD	BWD	
		mm	mm	mm	mm	deg			deg
Wide Visible Mast (V)	3000	2610	4085	4400	130	130	6	12	8000
	3300	2710	4385	4740	130	130	6	12	8000
	3500	2810	4585	4940	130	130	6	12	8000
	3700	3060	4785	5140	130	130	6	12	8000
	4000	3310	5085	5440	130	130	6	12	8000
	4500	3560	5585	5940	130	130	6	12	8000
	5000	3810	6085	6440	130	130	6	12	8000
	5500	4060	6585	6940	130	130	6	12	7700
6000	4310	7085	7440	130	130	6	12	7500	

NOTE: Height of standard load backrest is 1370 mm.

# STANDARD EQUIPMENT

8FG35N,40N,45N,50N

8FD35N,40N,45N,50N,60N,70N,80N

- Wide Visible Mast ( V ) [ MFH: 3,000 mm ]
- Load backrest (V and FSV masts)  
[Height: 1,220mm(8FG/FD35N,40N,45N)]  
[Height: 1,370mm(8FG/FD50N,8FD60N,70N,80N)]
- Alternator with IC regulator
- Intake heater (Diesel engine models)
- Super glow control system (Diesel engine models)
- Sedimenter (Diesel engine models)
- Same key for multiple forklifts
- 2-stator T/C
- Rear combination lights
- Tilt cylinder boots
- Radiator screen
- Cyclone air cleaner with snorkel air intake
- Engine protection system (Gasoline engine models)
- Electronic fuel injection system (Gasoline engine models)
- Radiator reservoir tank
- Operator Presence Sensing System (OPS)
- Double-action parking brake
- Assist grip
- Neutral safety switch
- Electrical shift control
- Full hydraulic power steering
- Tilt steering column
- Overhead guard sheet
- Overhead guard
- Hidden tilt cylinder
- Engine hood damper (Lockable)
- Jack point
- Drawbar pin
- Engine hood insulator
- Headlights
- Headlights guard
- Rear combination lights
- Integrated light & turn signal switch
- Hour meter
- Engine water temperature indicator
- Fuel meter
- Engine oil pressure warning light
- Charge warning lights
- Pre-heat indicator light (Diesel engine models)
- Sedimenter warning light (Diesel engine models)
- Electric horn
- Cup holder
- ORS seat

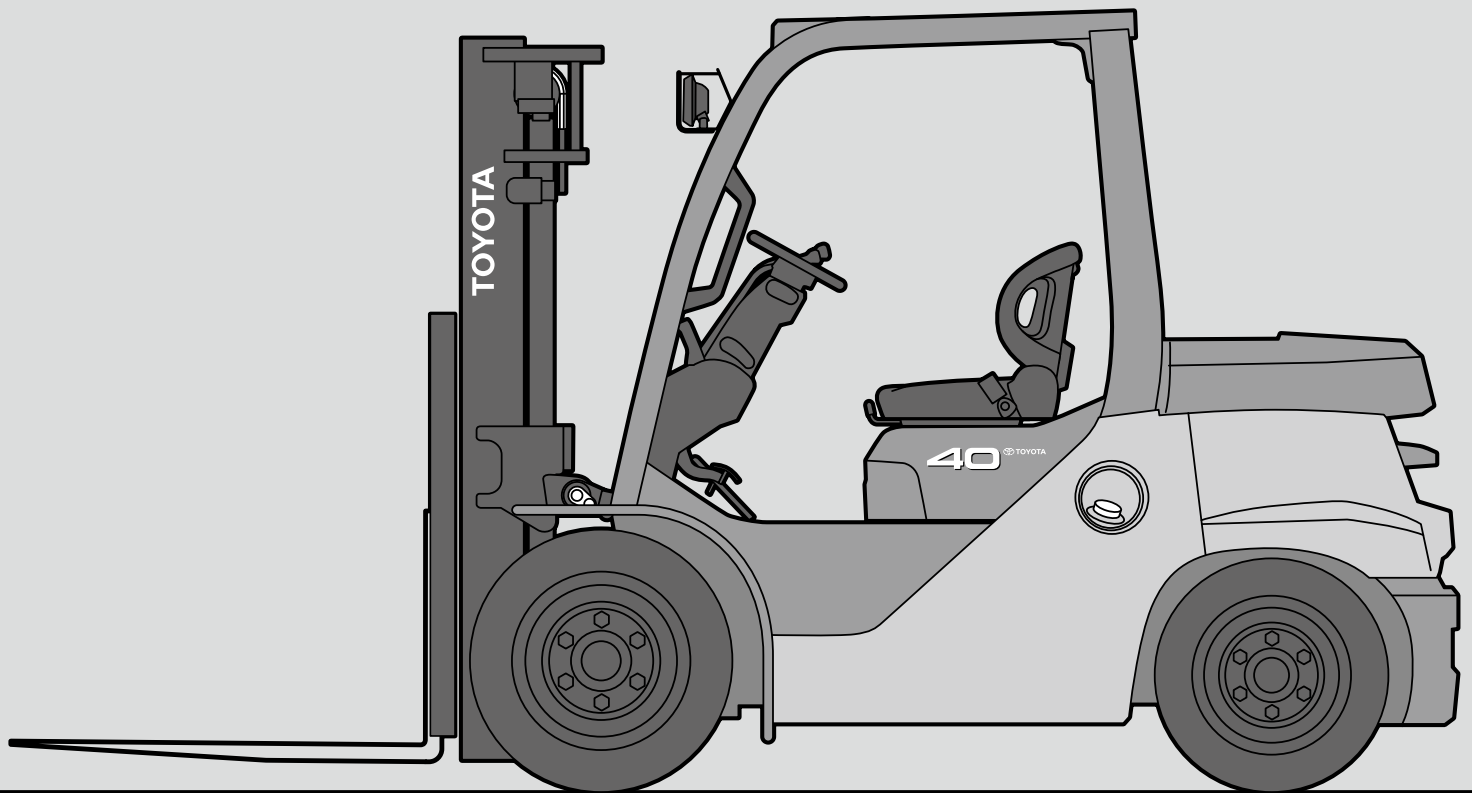
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# ENGINE POWERED FORKLIFT

**8FG/8FD** 3.5 to 8.0 Ton  
Series



 **TOYOTA**