

8FG/FD35F, 40F

Specifications				8FD35F	8FG35F	8FD40F	8FG40F	
Identification	1.1	Manufacturer		Toyota	Toyota	Toyota	Toyota	
	1.2	Model		8FD35F	8FG35F	8FD40F	8FG40F	
	1.3	Drive		Diesel	LPG	Diesel	LPG	
	1.4	Operator type		Rider seated	Rider seated	Rider seated	Rider seated	
	1.5	Load capacity/rated load	Q	kg	4000 (3500)	4000 (3500)	4500 (4000)	4500 (4000)
	1.6	Load centre	c	mm	500 (600)	500 (600)	500 (600)	500 (600)
	1.8	Load distance, centre of drive axle to fork	x	mm	505	505	505	505
	1.9	Wheelbase	y	mm	1900	1900	1900	1900
	Weight	2.1	Service weight		kg	5780	5700	6150
2.2		Axle load, with load, front/rear		kg	8690/1090 (8110/1170)	8670/1030 (8090/1110)	9380/1270 (8830/1320)	9360/1210 (8810/1260)
2.3		Axle load, without load, front/rear		kg	2570/3210	2550/3150	2500/3650	2480/3590
Tyres	3.1	Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)			P	P	P	P
	3.2	Tyre size, front			250-15-20PR	250-15-20PR	250-15-20PR	250-15-20PR
	3.3	Tyre size, rear			7.00-12-14PR	7.00-12-14PR	7.00-12-14PR	7.00-12-14PR
	3.5	Wheels, number front/rear (x = driven wheels)			2/2	2/2	2/2	2/2
	3.6	Track width, front	b ₁₀	mm	1115	1115	1115	1115
	3.7	Track width, rear	b ₁₁	mm	1100	1100	1100	1100
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg	6/12	6/12	6/12
4.2		Height, mast lowered	h ₁	mm	2110	2110	2110	2110
4.3		Free lift	h ₂	mm	110	110	110	110
4.4		Lift	h ₃	mm	2950	2950	2950	2950
		Lift height	h ₂₃	mm	3000	3000	3000	3000
4.5		Height, mast extended	h ₄	mm	4270	4270	4270	4270
4.7		Height of overhead guard (cab) ¹⁾	h ₆	mm	2285	2285	2285	2285
4.8		Seat height	h ₇	mm	1128	1128	1128	1128
4.12		Coupling height	h ₁₀	mm	420	420	420	420
4.19		Overall length	l ₁	mm	3925	3925	3980	3980
4.20		Length to face of forks	l ₂	mm	2925	2925	2980	2980
4.21		Overall width	b ₁	mm	1350	1350	1350	1350
4.22		Fork dimensions	s/e/l	mm	50/150/1000	50/150/1000	50/150/1000	50/150/1000
4.23		Fork carriage DIN 15 173, class/type A, B			IIIA	IIIA	IIIA	IIIA
4.24		Fork-carriage width	b ₃	mm	1170	1170	1170	1170
4.31		Ground clearance, with load, below mast	m ₁	mm	120	120	120	120
4.32		Ground clearance, centre of wheelbase	m ₂	mm	200	200	200	200
4.33		Aisle width for pallets 1000x1200 crossways	A _{st}	mm	4315	4315	4365	4365
4.34	Aisle width for pallets 800x1200 lengthways	A _{st}	mm	4515	4515	4565	4565	
4.35	Turning radius	W _a	mm	2610	2610	2660	2660	
4.36	Internal turning radius	b ₁₃	mm	940	940	990	990	
Performance data	5.1	Travel speed, with/without load		km/h	23/24	23/24	23/24	23/24
	5.2	Lift speed, with/without load		m/s	0,56/0,57	0,56/0,57	0,56/0,57	0,56/0,57
	5.3	Lowering speed, with/without load		m/s	0,53/0,48	0,53/0,48	0,53/0,48	0,53/0,48
	5.6	Max. drawbar pull, with/without load		N	37400/13500	37000/13400	37000/13000	36000/13000
	5.7	Gradeability, with load		%	35	34	30	32
	5.8	Max. gradeability, with/without load		%	45/24	43/24	40/21	42/21
5.10	Service brake				Hydraulic	Hydraulic	Hydraulic	
Combustion engine	7.1	Engine manufacturer/type			TOYOTA 1KD	TOYOTA 1FS	TOYOTA 1KD	TOYOTA 1FS
	7.2	Engine power according to ISO 1585		kW	55 (V)	55 (V)	55 (V)	55 (V)
	7.3	Rated speed		1/min	2200	2350	2200	2350
	7.4	No. of cylinders/displacement		cm ³	4/2982	4/3685	4/2982	4/3685
	7.5a	Fuel consumption according to EN16796		l/h	3,8	—	4,1	—
	7.5b	Fuel consumption according to EN16796		kg/h	—	3,7	—	4,0
Other	8.2	Operating pressure for attachments		bar	185	185	185	185
	8.3	Oil volume for attachments		l/min	128	128	128	128
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	77	80	77	80

1) Overhead guard dimensions reflected in the specification sheet are based on optional increased overhead guard (+75mm).

TMHE recommends this optional height for trucks sold in Europe for reason of additional comfort for majority of European drivers.

Data in () applicable for 600 mm LC.

Mast dimensions and rated capacities

Model			V						FV						FSV					
8FG/D35,40F	Lift height	h_{23}	3000	3300	3700	4000	4500	5000	3000	3300	3500	3700	4000	4000	4300	4500	4700	5000	5500	6000
	Lift	h_3	2950	3250	3650	3950	4450	4950	2950	3250	3450	3650	3950	3950	4250	4450	4650	4950	5450	5950
	Height, mast lowered	h_1	2110	2290	2490	2740	2990	3240	2110	2290	2390	2490	2740	2110	2160	2225	2290	2390	2540	2740
	Height, mast extended ¹⁾	h_4	3850	4150	4550	4850	5350	5850	3880	4180	4380	4580	4880	4880	5180	5380	5580	5880	6380	6880
	Height, mast extended ²⁾	h_4	4270	4570	4970	5270	5770	6270	4270	4570	4770	4970	5270	5270	5570	5770	5970	6270	6770	7270
	Free lift, without load backrest	h_2	110	110	110	110	110	110	1280	1460	1560	1660	1910	1280	1330	1395	1460	1560	1710	1910
	Free lift, with load backrest	h_2	110	110	110	110	110	110	890	1070	1170	1270	1520	890	940	1005	1070	1170	1320	1520

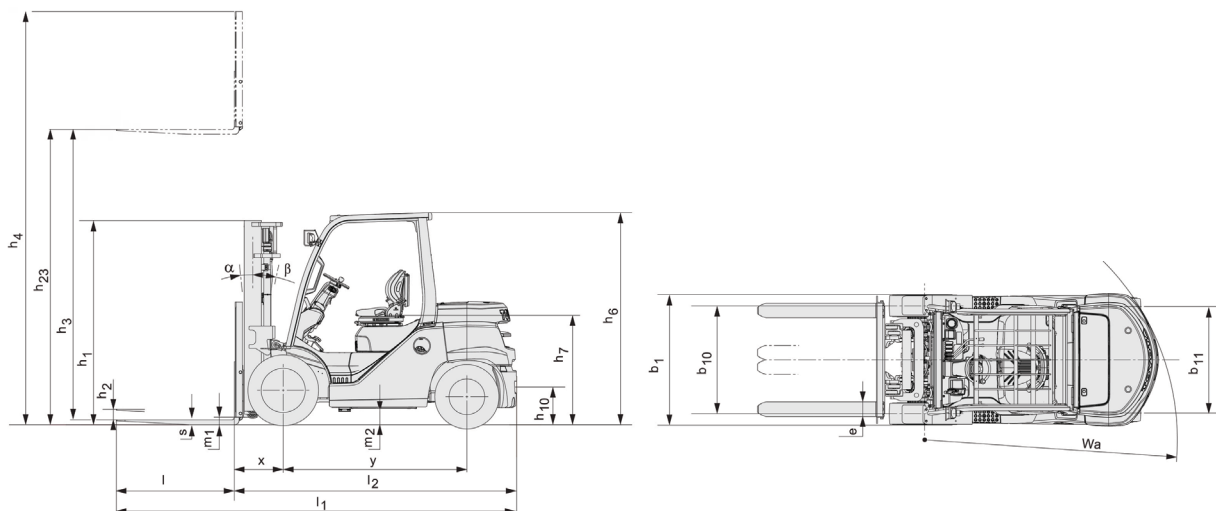
1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1220 mm.

Single tyre			V						FV						FSV					
8FG/D35F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Tilt range, backward	deg	12 [6]	12 [8]	12 [8]	12 [8]	12 [8]	6 [6]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	4000	3800	4000	4000	4000	4000	4000	4000	3800	3700	3700	3600	3000	2200
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3400	2800	2100
8FG/D40F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Tilt range, backward	deg	12 [6]	12 [8]	12 [8]	12 [8]	6 [6]	6 [6]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kg	4500	4500	4500	4500	4500	4200	4500	4500	4500	4500	4500	4500	4500	4500	4500	4400	3500	2700
	Load capacity at 600 mm LC	kg	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3500	2700

Dual tyre			V						FV						FSV					
8FG/D35F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Tilt range, backward	deg	12 [6]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	4000	3800	4000	4000	4000	4000	4000	4000	3800	3700	3700	3600	3500	3400
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3400	3300	3200
8FG/D40F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Tilt range, backward	deg	12 [6]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kg	4500	4500	4500	4500	4500	4400	4500	4500	4500	4500	4500	4500	4500	4500	4500	4400	4200	3300
	Load capacity at 600 mm LC	kg	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3300

[] = value when selecting H35F and H00H/H02I



Underclearance		
Mast, load	mm	120
Drive axle, load	mm	170
Steer axle, no load	mm	210
Center of wheelbase, load	mm	200
Counterweight, no load	mm	200
Lowest point under chassis, full load	mm	140

8FG/FD45F, 50F

Specifications					8FD45F	8FG45F	8FD50F	8FG50F
Identification	1.1	Manufacturer			Toyota	Toyota	Toyota	Toyota
	1.2	Model			8FD45F	8FG45F	8FD50F	8FG50F
	1.3	Drive			Diesel	LPG	Diesel	LPG
	1.4	Operator type			Rider Seated	Rider Seated	Rider Seated	Rider Seated
	1.5	Load capacity/rated load	Q	kg	4990 (4500)	4990 (4500)	5000	5000
	1.6	Load centre	c	mm	500 (600)	500 (600)	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	545	545	555	555
	1.9	Wheelbase	y	mm	2000	2000	2000	2000
	Weight	2.1	Service weight		kg	6690	6610	7220
2.2		Axle load, with load, front/rear		kg	10450/1230 (9920/1270)	10430/1170 (9900/1210)	10910/1310	10880/1260
2.3		Axle load, without load, front/rear		kg	2850/3840	2830/3780	3030/4190	3000/4140
Tyres	3.1	Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)			P	P	P	P
	3.2	Tyre size, front			300-15-20PR	300-15-20PR	300-15-20PR	300-15-20PR
	3.3	Tyre size, rear			7.00-12-14PR	7.00-12-14PR	7.00-12-14PR	7.00-12-14PR
	3.5	Wheels, number front/rear (x = driven wheels)			2/2	2/2	2/2	2/2
	3.6	Track width, front	b ₁₀	mm	1115	1115	1115	1115
	3.7	Track width, rear	b ₁₁	mm	1100	1100	1100	1100
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg	6/12	6/12	6/12
4.2		Height, mast lowered	h ₁	mm	2200	2200	2450	2450
4.3		Free lift	h ₂	mm	110	110	120	120
4.4		Lift	h ₃	mm	2950	2950	2950	2940
		Lift height	h ₂₃	mm	3000	3000	3000	3000
4.5		Height, mast extended	h ₄	mm	4270	4270	4435	4435
4.7		Height of overhead guard (cab) ¹⁾	h ₆	mm	2375	2375	2375	2375
4.8		Seat height	h ₇	mm	1223	1223	1223	1223
4.12		Coupling height	h ₁₀	mm	420	420	420	420
4.19		Overall length	l ₁	mm	4110	4110	4370	4370
4.20		Length to face of forks	l ₂	mm	3110	3110	3170	3170
4.21		Overall width	b ₁	mm	1450	1450	1450	1450
4.22		Fork dimensions	s/e/l	mm	50/150/1000	50/150/1000	60/150/1200	60/150/1200
4.23		Fork carriage DIN 15 173, class/type A, B			IIIA	IIIA	IVA	IVA
4.24		Fork-carriage width	b ₃	mm	1170	1170	1170	1170
4.31		Ground clearance, with load, below mast	m ₁	mm	120	120	120	120
4.32		Ground clearance, centre of wheelbase	m ₂	mm	230	230	230	230
4.33		Aisle width for pallets 1000x1200 crossways	A _{st}	mm	4495	4495	4565	4565
4.34	Aisle width for pallets 800x1200 lengthways	A _{st}	mm	4695	4695	4765	4765	
4.35	Turning radius	W _a	mm	2750	2750	2810	2810	
4.36	Internal turning radius	b ₁₃	mm	1045	1045	1030	1030	
Performance data	5.1	Travel speed, with/without load		km/h	23,5/24	23,5/24	23,5/24	23,5/24
	5.2	Lift speed, with/without load		m/s	0,48/0,50	0,48/0,50	0,48/0,50	0,48/0,50
	5.3	Lowering speed, with/without load		m/s	0,54/0,49	0,54/0,49	0,54/0,49	0,54/0,49
	5.6	Max. drawbar pull, with/without load		N	37000/15000	36000/15000	37000/16000	36000/16000
	5.7	Gradeability, with load		%	28	30	25	23
	5.8	Max. gradeability, with/without load		%	36/22	38/22	32/22	31/22
5.10	Service brake			Hydraulic	Hydraulic	Hydraulic	Hydraulic	
Combustion engine	7.1	Engine manufacturer/type			TOYOTA 1KD	TOYOTA 1FS	TOYOTA 1KD	TOYOTA 1FS
	7.2	Engine power according to ISO 1585		kW	55 (V)	55 (V)	55 (V)	55 (V)
	7.3	Rated speed		1/min	2200	2350	2200	2350
	7.4	No. of cylinders/displacement		cm ³	4/2982	4/3685	4/2982	4/3685
	7.5a	Fuel consumption according to EN16796		l/h	4,4	—	4,7	—
	7.5b	Fuel consumption according to EN16796		kg/h	—	4,4	—	4,6
	Other	8.2	Operating pressure for attachments		bar	185	185	185
8.3		Oil volume for attachments		l/min	128	128	128	128
8.4		Sound level at the driver's ear according to EN 12 053		dB(A)	77	80	77	80

1) Overhead guard dimensions reflected in the specification sheet are based on optional increased overhead guard (+75mm).

TMHE recommends this optional height for trucks sold in Europe for reason of additional comfort for majority of European drivers.

Data in () applicable for 600 mm LC.

Mast dimensions and rated capacities

Model			V					FV					FSV								
8FG/D45F	Lift height	h_{23}	3000	3300	3700	4000	4500	5000	3000	3300	3500	3700	4000	—	4000	4300	4500	4700	5000	5500	6000
	Lift	h_3	2950	3250	3650	3950	4450	4950	2950	3250	3450	3650	3950	—	3950	4250	4450	4650	4950	5450	5950
	Height, mast lowered	h_1	2200	2350	2600	2800	3050	3300	2200	2350	2450	2600	2800	—	2120	2200	2270	2350	2450	2600	2800
	Height, mast extended ¹⁾	h_4	3690	3990	4420	4770	5270	5770	3740	4040	4240	4440	4740	—	4740	5045	5240	5440	5740	6240	6740
	Height, mast extended ²⁾	h_4	4270	4570	4970	5270	5770	6270	4270	4570	4910	4970	5270	—	5270	5570	5770	5970	6270	6770	7270
	Free lift, without load backrest	h_2	110	110	110	110	110	110	1510	1660	1760	1910	2110	—	1430	1510	1580	1660	1760	1910	2110
	Free lift, with load backrest	h_2	110	110	110	110	110	110	980	1130	1230	1380	1580	—	900	980	1030	1130	1230	1380	1580

1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1220 mm.

Model			V					FV					FSV								
8FG/D50F	Lift height	h_{23}	3000	3300	3700	4000	4500	5000	—	—	—	—	—	3700	4000	4300	—	4700	5000	5500	6000
	Lift	h_3	2940	3240	3640	3940	4440	4940	—	—	—	—	—	3640	3940	4240	—	4640	4940	5440	5940
	Height, mast lowered	h_1	2450	2600	2800	3050	3300	3550	—	—	—	—	—	2200	2270	2350	—	2450	2600	2800	3050
	Height, mast extended ¹⁾	h_4	3920	4220	4620	5020	5520	6020	—	—	—	—	—	4635	4935	5235	—	5635	5935	6435	6935
	Height, mast extended ²⁾	h_4	4435	4735	5135	5435	5935	6435	—	—	—	—	—	5135	5435	5735	—	6135	6435	6935	7435
	Free lift, without load backrest	h_2	125	125	125	125	125	125	—	—	—	—	—	1330	1400	1480	—	1580	1730	1930	2180
	Free lift, with load backrest	h_2	125	125	125	125	125	125	—	—	—	—	—	830	900	980	—	1080	1230	1430	1680

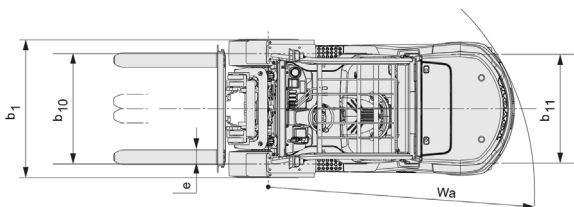
1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1370 mm.

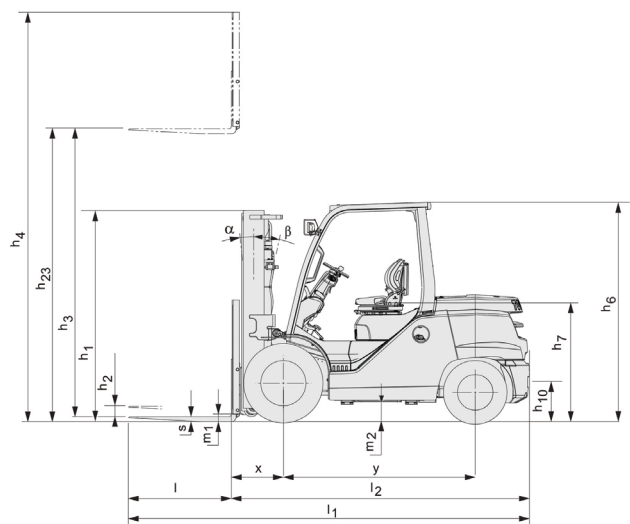
Single tyre			V					FV					FSV								
8FG/D45F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	—	6	6	6	6	6	6	6
	Tilt range, backward	deg	12 [6]	12 [8]	12 [8]	12 [8]	6 [6]	6 [6]	12 [8]	12 [8]	12 [8]	12 [10]	12 [10]	—	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kg	4990	4990	4990	4990	4990	4000	4990	4990	4990	4990	4990	—	4990	4900	4500	4500	4000	3000	2300
	Load capacity at 600 mm LC	kg	4500	4500	4500	4500	4500	4000 (4100)	4500	4500	4500	4500	4500	—	4500	4500	4200	4200	4000	3000	2300
8FG/D50F	Tilt range, forward	deg	6	6	6	6	6	6	—	—	—	—	—	6	6	6	—	6	6	6	6
	Tilt range, backward	deg	12 [8]	12 [8]	12 [8]	12 [8]	6 [6]	6 [6]	—	—	—	—	—	6	6	6	—	6	6	6	6
	Load capacity at 600 mm LC	kg	5000	5000	5000	5000	5000	4000 (4150)	—	—	—	—	—	5000	4900	4800	—	4300	4100	3100	2400

Dual tyre			V					FV					FSV								
8FG/D45F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	—	6	6	6	6	6	6	6
	Tilt range, backward	deg	12 [6]	12 [8]	12 [8]	12 [8]	12 [6]	12 [6]	12 [8]	12 [8]	12 [8]	12 [10]	12 [10]	—	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kg	4990	4990	4990	4990	4990	4600	4990	4990	4990	4990	4990	—	4990	4900	4700	4700	4600	4400	4200
	Load capacity at 600 mm LC	kg	4500	4500	4500	4500	4500	4400	4500	4500	4500	4500	4500	—	4500	4500	4400	4400	4300	4100	3900
8FG/D50F	Tilt range, forward	deg	6	6	6	6	6	6	—	—	—	—	—	6	6	6	—	6	6	6	6
	Tilt range, backward	deg	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	12 [8]	—	—	—	—	—	6	6	6	—	6	6	6	6
	Load capacity at 600 mm LC	kg	5000	5000	5000	5000	5000	4800	—	—	—	—	—	5000	4900	4800	—	4600	4500	4300	4100

[] = value when selecting H35F and H00H/H02I



Underclearance		45N	50N
Mast, load	mm	120	120
Drive axle, load	mm	215	210
Steer axle, no load	mm	210	210
Center of wheelbase, load	mm	230	230
Counterweight, no load	mm	200	200
Lowest point under chassis, full load	mm	180	180



Rated capacities at different load centres

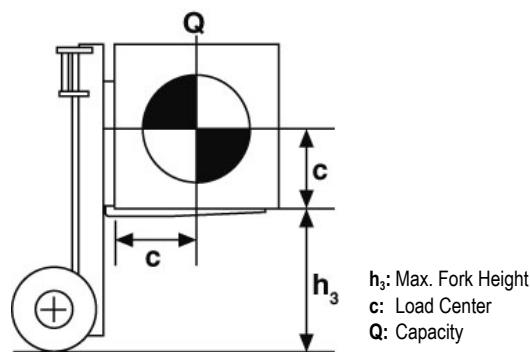
8FG/FD35F			V, FV							FSV						
	h_3	mm	3000	3300	3500	3700	4000	4500	5000	4000	4300	4500	4700	5000	5500	6000
	Q at 500 (c)	kg	4000	4000	4000	4000	4000	4000	4000	3800	4000	3800	3700	3700	3600	3000 [3500]
	600 (c)	kg	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3400	2800 [3300]	2100 [3200]
	1000 (c)	kg	2570	2570	2570	2570	2570	2570	2570	2590	2590	2590	2590	2510	2070 [2440]	1550 [2370]

8FG/FD40F			V, FV							FSV						
	h_3	mm	3000	3300	3500	3700	4000	4500	5000	4000	4300	4500	4700	5000	5500	6000
	Q at 500 (c)	kg	4500	4500	4500	4500	4500	4500	4500	4200 [4400]	4500	4500	4500	4500	4400	3500 [4200]
	600 (c)	kg	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3500 [4000]	2700 [3300]
	1000 (c)	kg	2940	2940	2940	2940	2940	2940	2940	2960	2960	2960	2960	2960	2590 [2960]	2000 [2440]

8FG/FD45F			V, FV							FSV						
	h_3	mm	3000	3300	3500	3700	4000	4500	5000	4000	4300	4500	4700	5000	5500	6000
	Q at 500 (c)	kg	4990	4990	4990	4990	4990	4990	4990	4000 [4600]	4990	4900	4500 [4700]	4500 [4700]	4000 [4600]	3000 [4400]
	600 (c)	kg	4500	4500	4500	4500	4500	4500	4000 [4400]	4500	4500	4200 [4400]	4200 [4400]	4000 [4300]	3000 [4100]	2300 [3900]
	1000 (c)	kg	3330	3330	3330	3330	3330	3330	2960 [3260]	3360	3360	3130 [3280]	3130 [3280]	2980 [3210]	2240 [3060]	1720 [2910]

8FG/FD50F			V							FSV						
	h_3	mm	3000	3300	3500	3700	4000	4500	5000	3700	4000	4300	4700	5000	5500	6000
	Q at 600 (c)	kg	5000	5000	5000	5000	5000	5000	5000	4000 [4800]	5000	4900	4800	4300 [4600]	4100 [4500]	3100 [4300]
	1000 (c)	kg	3720	3720	3720	3720	3720	3720	2980 [3570]	3740	3660	3590	3210 [3440]	3070 [3360]	2320 [3210]	1790 [3070]

[] for dual tyre models.



Mast dimensions and performance

Model				8FG/FD35F		
Type of mast				V	FV	FSV
Performance						
Speeds	Lifting	Full load	mm/sec	560	555	550
		No load	mm/sec	570	560	560
	Lowering	Full load	mm/sec	530	520	520
		No load	mm/sec	480	470	470
Dimensions, mm						
Load distance (Centerline of front axle to front face of forks)				505		535

Model				8FG/FD40F		
Type of mast				V	FV	FSV
Performance						
Speeds	Lifting	Full load	mm/sec	560	555	550
		No load	mm/sec	570	560	560
	Lowering	Full load	mm/sec	530	520	520
		No load	mm/sec	480	470	470
Dimensions, mm						
Load distance (Centerline of front axle to front face of forks)				505		535

Model				8FG/FD45F		
Type of mast				V	FV	FSV
Performance						
Speeds	Lifting	Full load	mm/sec	480	445	465
		No load	mm/sec	500	450	470
	Lowering	Full load	mm/sec	540	500	520
		No load	mm/sec	490	450	470
Dimensions, mm						
Load distance (Centerline of front axle to front face of forks)				545		575

Model				8FG/FD50F		
Type of mast				V	FV	FSV
Performance						
Speeds	Lifting	Full load	mm/sec	480	—	465
		No load	mm/sec	500	—	470
	Lowering	Full load	mm/sec	540	—	520
		No load	mm/sec	490	—	470
Dimensions, mm						
Load distance (Centerline of front axle to front face of forks)				555		585

Please note: different than listed, values lift and lowering speed might be lower below free lift height.

Standard equipment

8FG/FD35F, 40F, 45F 50F	
• Torque converter	• Travel speed limitation control
• Toyota SAS (System of Active Stability)*	• Alternator with IC regulator (60A: Gasoline, 80A: Diesel)
• Toyota OPS (Operator Presence Sensing)	• Engine protection system (Overheat-detection engine-output limiter)
• Toyota ORS seat (Operator Restraint System), standard seat	• LED Headlights with guard
• Orange seatbelt including seat belt interlock	• LED Rear combination lights
• Wide visible mast (MFH: 3000 mm)	• Multifunction display II including self diagnostic system ¹⁾
• Load backrest, flat steel type [Height: 1220 mm (8FG/D35.40.45N); 1370 mm (8FG/D50)]	• Travel speed control, engine auto stop and ECO mode
• Long forks [Length: 1000 mm (8FG/D35.40.45N); 1200 mm (8FG/D50)]	• Adjustable tilt steering column
• Long forkbar [Length: 1170 mm]	• Polycarbonate roof
• 3-way valve (A400)	• Tilt cylinder boots
• Dual brake system	• Tilt hole boots
• Pneumatic tyres	• Floor mat
• Full hydraulic power steering with load sensing	• Radiator screen
• 8" cyclone air cleaner with snorkel air intake	• Torque converter oil cooler
• Long life coolant 50%	• Variable displacement pump

* = When dual tyres are selected, the Active Control Rear Stabilizer function of the SAS system of Active Stability (SAS) is not included.

1) Hourmeter, Engine water temperature indicator, All-time fuel meter (only for diesel/gasoline), Engine oil pressure indicator, Charge warning lights, sedimenter warning light (Diesel only), OPS light, Engine check light.

Option availability

Model	Option code	8FG35F	8FG40F	8FG45F	8FG50F	8FD35F	8FD40F	8FD45F	8FD50F
Load handling									
Wide visible mast (V)	* M00B	●	●	●	●	●	●	●	●
Full-free lift two-stage mast (FV)	* M00F	●	●	●	—	●	●	●	—
Full-free lift three-stage mast (FSV)	* M00D	●	●	●	●	●	●	●	●
Long forks	M20A	●	●	●	●	●	●	●	●
Without forks	M20N	●	●	●	●	●	●	●	●
Long fork bar	M30A	●	●	●	●	●	●	●	●
High load backrest	M40A	●	●	●	●	●	●	●	●
Without load backrest	M40N	●	●	●	●	●	●	●	●
Clamp release interlock 3rd lever	1) * Q15A	●	●	●	●	●	●	●	●
Clamp release interlock 4th lever	2) * Q15B	●	●	●	●	●	●	●	●
Clamp release interlock 5th lever	3) * Q15C	●	●	●	●	●	●	●	●
Clamp release interlock 3rd/4th lever	2) Q15D	●	●	●	●	●	●	●	●
Clamp release interlock 4th/5th lever	3) Q15E	●	●	●	●	●	●	●	●
A4 piping 3-way valve, 1 hose	* A410	●	●	●	●	●	●	●	●
A4 piping 4-way valve, 4 hoses	* A450	●	●	●	●	●	●	●	●
A4 piping 5-way valve, 6 hoses	4) * A465	●	●	●	●	●	●	●	●
A4 piping 4-way valve, no hose	* A405	●	●	●	●	●	●	●	●
Hook-on sideshift with A410	* E911	●	●	●	●	●	●	●	●
Dust-proof hydraulic system	B21B	●	●	●	●	●	●	●	●
Heavy duty hydraulic accumulator	4) * M82B	●	●	●	●	●	●	●	●
Heavy duty mast	5) * M03A	●	●	—	—	●	—	—	—
Fully oil charged lift cylinder	* M09A	●	●	●	●	●	●	●	●
Mast tilt gage	* N14A	●	●	●	●	●	●	●	●
Engine									
Anti-restart ignition switch	* E26A	●	●	●	●	●	●	●	●
High capacity cooling	* A26A	●	●	●	●	●	●	●	●
LPG exclusive	6) * C00A	●	●	●	●	—	—	—	—
LPG convertible (Z3)	14) * C00B	●	●	●	●	—	—	—	—
LPG bracket (swing-down type)	* C03F	●	●	●	●	—	—	—	—
Without tank bracket	7) * C03N	●	●	●	●	—	—	—	—
Upswept exhaust	* C10A	●	●	●	●	●	●	●	●
3-way catalytic converter	* C11D	○	○	○	○	—	—	—	—
LPG drain cock	7) * C14A	●	●	●	●	—	—	—	—
Cyclone air cleaner	C15B	●	●	●	●	●	●	●	●
Pre-cleaner	* C16A	●	●	●	●	●	●	●	●
LPG connector valve	7) * C200	●	●	●	●	—	—	—	—
Plate fin radiator	* C27A	●	●	●	●	●	●	●	●
LPG warning indicator	* C28A	●	●	●	●	—	—	—	—
Cooling fan booster	* C55A	●	●	●	●	●	●	●	●
Fan guard	* K66A	●	●	●	●	●	●	●	●
High capacity alternator, 80A	* D05A	●	●	●	●	○	○	○	○
High capacity battery	* D20A	●	●	●	●	—	—	—	—
12V power supply	* D59B	●	●	●	●	●	●	●	●
12V power supply RR (on-off by key)	* D60C	●	●	●	●	●	●	●	●
12V power supply RR (on-off by reverse)	* D60D	●	●	●	●	●	●	●	●

Model	Option code	8FG35F	8FG40F	8FG45F	8FG50F	40-8FD35F	40-8FD40F	40-8FD45F	40-8FD50F
Torque converter interlock *	E17A	●	●	●	●	●	●	●	●
2 speed automatic transmission	E10B	●	●	●	●	●	●	●	●
Lights and indicators									
LED Yellow rotary lamp (on-off by key) *	J19U	●	●	●	●	●	●	●	●
Strobe lamp (on-off by key) *	J19I	●	●	●	●	●	●	●	●
LED Front combination lights 10) *	J20C	●	●	●	●	●	●	●	●
Without rear combination lights	J21N	●	●	●	●	●	●	●	●
LED Rear working light *	J26G	●	●	●	●	●	●	●	●
LED Rear working light (selective lighting condition) *	J26I	●	●	●	●	●	●	●	●
Back-up buzzer *	K21D	●	●	●	●	●	●	●	●
Mast mounted LED front combination lights 16) *	J04F	●	●	●	●	●	●	●	●
Rear view mirror	J10B	●	●	●	●	●	●	●	●
Panoramic mirror	J14A	●	●	●	●	●	●	●	●
Body									
Left hand shift lever 8) *	E11A	●	●	●	●	●	●	●	●
D2 pedal *	E43A	●	●	●	●	●	●	●	●
Minilevers *	E45A	●	●	●	●	●	●	●	●
Multifunction levers *	E45B	●	●	●	●	●	●	●	●
Telescopic steering column 8) *	E47A	●	●	●	●	●	●	●	●
ORS cloth seat with suspension *	G40C	●	●	●	●	●	●	●	●
Seat with air suspension *	G40W	●	●	●	●	●	●	●	●
Swivel seat *	G41F	●	●	●	●	●	●	●	●
Deluxe cabin 8) *	H00X	●	●	●	●	●	●	●	●
Steel cab 11) *	H00H	●	●	●	●	●	●	●	●
Steel cab with polycarbonate roof *	H01N	●	●	●	●	●	●	●	●
Front windshield & roof (tank in step) *	H02G	●	●	●	●	●	●	●	●
Cab without doors *	H02I	●	●	●	●	●	●	●	●
Cab with canvas doors *	H02L	●	●	●	●	●	●	●	●
Air cooler 15) *	H10A	—	—	—	—	●	●	●	●
Heater *	H11A	●	●	●	●	●	●	●	●
High spec heater 12) *	H11G	●	●	●	●	●	●	●	●
Defroster 13) *	H12A	●	●	●	●	●	●	●	●
Low height headguard (2200 mm) *	H35A	—	—	●	●	—	—	●	●
+75 mm overheadguard & comfort seat 8) *	H35D	●	●	●	●	●	●	●	●
+75 mm overheadguard *	H35F	●	●	●	●	●	●	●	●
PS cylinder boots	K14A	●	●	●	●	●	●	●	●
E-bar bracket 15)	S18A	●	●	●	●	●	●	●	●
Tool set A	S00B	●	●	●	●	●	●	●	●
Front mudguard *	K67A	●	●	●	●	●	●	●	●
Rear-pillar assist grip	L37A	●	●	●	●	●	●	●	●
Document box *	S04A	●	●	●	●	●	●	●	●
Hydraulic oil temp. gauge *	L42B	●	●	●	●	●	●	●	●
Special									
Cold weather spec. *	B01A	—	—	—	—	●	●	●	●

1) Requires [A410].

2) Requires [A450].

3) Requires [M00D] & [A465].

4) Requires [M00D].

5) Requires [M00B (except M00B6000)] and [A405, A450].

6) Requires [C200].

7) Requires [C00A or C00B].

8) Requires [E45A or E45B].

10) Requires [K03A or J24L].

11) When selecting [H00H] + (H11A or H11G), Requires [H12A].

12) Requires [H00H or H02L].

13) Requires [H11A, H00H or H02D or H02I or H02L].

14) Requires [C01N].

15) Only available with [H00X].

16) Requires [J20C].

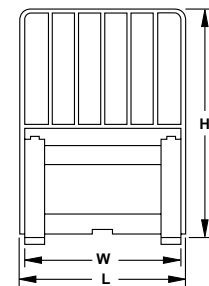
* Please see the Matching Options chart.

Fork availability

						Unit: mm
Model	Mounting class	Length	Width	Thickness	Long forks	
8FG/FD35F 8FG/FD40F	III	1000	150	50	○	
		1100	150	50	●	
		1200	150	50	●	
		1400	150	50	●	
		1500	150	50	●	
		1600	150	50	●	
		1800	150	50	●	
8FG/FD45F	III	1000	150	50	○	
		1100	150	50	●	
		1200	150	50	●	
		1400	150	50	●	
		1500	150	50	●	
		1600	150	50	●	
		1800	150	50	●	
8FG/FD50F	IV	1000	150	—	—	
		1100	150	—	—	
		1200	150	60	○	
		1400	150	65	●	
		1500	150	65	●	
		1600	150	65	●	
		1800	150	65	●	

Forkbar and backrest availability

Model	Unit: mm							
	H	L	1320*	1470*	1620*	1780*	1850*	2080*
	W		1170	1320	1470	1630	1700	1930
8FG/FD35F 8FG/FD40F 8FG/FD45F	1070		●	—	—	—	—	—
	1220		○ [●]	●	●	●	—	●
	1370		●	—	—	—	—	—
	1520		●	—	—	—	—	—
	1670		●	—	—	—	—	—
	1820		●	—	—	—	—	—
	1970		●	—	—	—	—	—



L: Outside width of load backrest
W: Length of forkbar
H: Height of load backrest

* Minus 125 mm when the optional flat steel type load backrest is selected.
[] when the optional flat steel type load backrest is selected or when FV mast is ordered.

Model	Unit: mm							
	H	L	1330*	—	—	—	1860*	—
	W		1170	1320	1470	1630	1700	1930
8FG/FD50F	1370		○ [●]	—	—	—	●	—
	1520		—	—	—	—	●	—
	1670		—	—	—	—	●	—
	1820		—	—	—	—	●	—

* Minus 135 mm when the optional flat steel type load backrest is selected.
[] when the optional flat steel type load backrest is selected or when FV mast is ordered.

Mast interchangeability

Model	Mast		
	V	FV	FSV
8FG/FD35F	●	●	●
8FG/FD40F	●	●	●
8FG/FD45F	●	●	●
8FG/FD50F	●	N/A	●

● Interchangeable within model group.
The masts are not interchangeable with previous model.

Mast weight

Mast		V						FV					FSV							
Maximum fork height	mm	3000	3300	3700	4000	4500	5000	3000	3300	3500	3700	4000	3700	4000	4300	4500	4700	5000	5500	6000
8FG/FD35F	kg	830	870	910	990	1050	1100	860	900	920	950	1030	—	1120	1140	1160	1180	1220	1260	1370
8FG/FD40F	kg	840	870	920	1000	1050	1100	860	900	920	950	1030	—	1120	1140	1160	1180	1220	1260	1370
8FG/FD45F	kg	990	1030	1100	1200	1280	1350	1080	1130	1160	1200	1300	—	1380	1410	1450	1480	1520	1620	1710
8FG/FD50F	kg	1110	1150	1250	1320	1390	1460	—	—	—	—	—	1450	1480	1520	—	1560	1660	1750	1860

Heavy-duty mast

Model	Load distance (mm)	
	V mast	V Heavy-duty Mast
8FG/FD35F 8FG/FD40F	505	545

Model		8FG/FD35F						8FG/FD40F					
		V (Heavy duty)						V (Heavy duty)					
Lift height	mm	3000	3300	3700	4000	4500	5000	3000	3300	3700	4000	4500	5000
Height mast lowered	mm	2200	2350	2600	2800	3050	3300	2200	2350	2600	2800	3050	3300
Extended height ¹⁾	mm	3690	3990	4420	4770	5270	5770	3690	3990	4420	4770	5270	5770
Extended height ²⁾	mm	4270	4570	4970	5270	5770	6270	4270	4570	4970	5270	5770	6270
Free lift	mm	110	110	110	110	110	110	110	110	110	110	110	110
Pneumatic single tyres	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	3800	3700	4500	4500	4500	4500	4020
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3450	4000	4000	4000	4000	4000
Pneumatic dual tyres	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	4000	3800	4500	4500	4500	4500	4330
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3500	4000	4000	4000	4000	4000
PSC Single tyres	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	4000	3800	4500	4500	4500	4500	4200
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3500	4000	4000	4000	4000	4000
PSC Dual tyres	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	4000	3800	4500	4500	4500	4500	4400
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3500	4000	4000	4000	4000	4000

1) Without load backrest.

2) With load backrest.

Tyre availability

Tyre spec	Pneumatic tyre							Pneumatic shaped cushion tyre					
	FRONT				REAR			FRONT				REAR	
	Single		Dual		Single			Single		Dual		Single	
Tyre size	250-15-16PR	300-15-18PR	28x8-15-12PR	8.25-15-14PR	7.00-12-12PR	7.00-12-12PR	700-12-14PR	250-15	300-15	7.00-15	8.25-15	7.00-12	7.00-12
Rim spec	Side ring	Side ring	Side ring	Side ring	Divided	Side ring	Side ring	Quick Lock	Quick Lock	Quick Lock	Quick Lock	Divided	Quick Lock
Rim size	7.00-15	8.00-15	6.00S-15	6.50-15	5.00S-12	5.00S-12	5.00S-12	7.00-15	8.00-15	6.00S-15	6.50-15	5.00S-12	5.00S-12
Overall width (mm)	1350	1450	1690	1890	—	—	—	1350	1450	1690	1890	—	—
Tread, Front (mm)	1115	1150	1260	1385	—	—	—	1115	1150	1260	1385	—	—
Brand	Solideal	Solideal	Dunlop/ Bridgestone	Solideal	Solideal	Solideal	Solideal	Solideal	Solideal	Solideal	Solideal	Solideal	Solideal
8FG/D35F	○	—	●	—	○	●	—	●	—	●	—	●	●
8FG/D40F	○	—	●	—	○	●	—	●	—	●	—	—	●
8FG/D45F	—	○	—	●	○	●	—	—	●	—	●	—	●
8FG/D50F	—	○	—	●	—	—	○	—	●	—	●	—	●

Piping availability

Model	Mast type	3-way valves		4-way valves		5-way valves
		No hose line	2 hose lines	No hose line	5 hose lines	6 hose lines
		A400	A410	A405	A450	A465
8FG/FD35F	V	●	●	●	●	—
8FG/FD40F	FV	●	●	●	●	—
8FG/FD45F	FSV	●	●	●	●	●
8FG/FD50F	V	●	●	●	●	—
	FV	—	—	—	—	—
	FSV	●	●	●	●	●

Fuel tank capacity

Model	Tank capacity
8FG/FD35F	90 L
8FG/FD40F	90 L
8FG/FD45F	120 L
8FG/FD50F	120 L

Gradeability and speed on slope

Specifications, Full loaded			Gradeability @ 1,5 km/h	Speed on 14% grade
			Value	Value
Model	Transmission		%	km/h
8FD35F	STD	2 stage, 1 speed T/C	35	5,8
	E10B	1 stage, 2 speed T/C		7,2
8FG35F	STD	2 stage, 1 speed T/C	34	5,5
	E10B	1 stage, 2 speed T/C		7,1
8FD40F	STD	2 stage, 1 speed T/C	30	5,3
	E10B	1 stage, 2 speed T/C		6,6
8FG40F	STD	2 stage, 1 speed T/C	32	5,0
	E10B	1 stage, 2 speed T/C		6,5
8FD45F	STD	2 stage, 1 speed T/C	28	4,8
	E10B	1 stage, 2 speed T/C	29	5,9
8FG45F	STD	2 stage, 1 speed T/C	30	4,5
	E10B	1 stage, 2 speed T/C		5,7
8FD50F	STD	2 stage, 1 speed T/C	25	4,3
	E10B	1 stage, 2 speed T/C	26	5,3
8FG50F	STD	2 stage, 1 speed T/C	23	4,0
	E10B	1 stage, 2 speed T/C		5,1

8FD60F/70F, 8FG60F/70F

Specifications				8FG60F	8FD60F	8FG70F	8FD70F	
Identification	1.1	Manufacturer		Toyota	Toyota	Toyota	Toyota	
	1.2	Model		8FG60F	8FD60F	8FG70F	8FD70F	
	1.3	Drive		LPG	Diesel	LPG	Diesel	
	1.4	Operator type		Driver seated	Driver seated	Driver seated	Driver seated	
	1.5	Load capacity/rated load	Q	kg	6000	6000	7000	7000
	1.6	Load centre	c	mm	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	580	580	585	585
	1.9	Wheelbase	y	mm	2250	2250	2250	2250
	Weight	2.1	Service weight		kg	8370	8360	9030
2.2		Axle load with load, front/rear		kg	12900/1470	12850/1510	14300/1730	14330/1760
2.3		Axle load without load, front/rear		kg	3750/4620	3715/4675	3610/5420	3640/5450
Tyres	3.1	Tyres - Pneumatic (P),Pneumatic shaped cushion (PSC), Solid rubber (R)			P	P	P	P
	3.2	Tyre size, front			8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR
	3.3	Tyre size, rear			8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR
	3.5	Wheels, number front/rear (x = driven)			2x-4x/2	2x-4x/2	2x-4x/2	2x-4x/2
	3.6	Track width, front	b ₁₀	mm	1440	1440	1440	1440
	3.7	Track width, rear	b ₁₁	mm	1460	1460	1460	1460
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg	6/12	6/12	6/12
4.2		Height, mast lowered	h ₁	mm	2460	2460	2460	2460
4.3		Free lift	h ₂	mm	125	125	125	125
4.4		Lift	h ₃	mm	2940	2940	2935	2935
		Lift height	h ₂₃	mm	3000	3000	3000	3000
4.5		Height, mast extended	h ₄	mm	4435	4435	4435	4435
4.7		Height of overhead guard (cab) ¹⁾	h ₆	mm	2385	2385	2385	2385
4.8		Seat height	h ₇	mm	1128	1128	1128	1128
4.12		Coupling height	h ₁₀	mm	485	485	485	485
4.19		Overall length	l ₁	mm	4690	4690	4745	4745
4.20		Length to face of forks	l ₂	mm	3490	3490	3545	3545
4.21		Overall width	b ₁	mm	1965	1965	1965	1965
4.22		Fork dimensions	s/e/l	mm	65/150/1200	65/150/1200	65/150/1200	65/150/1200
4.23		Fork carriage DIN 15 173, class/type A, B			IV A	IV A	IV A	IV A
4.24		Fork-carriage width	b ₃	mm	1700	1700	1700	1700
4.31		Ground clearance, with load, below mast	m ₁	mm	125	125	125	125
4.32		Ground clearance, centre of wheelbase	m ₂	mm	250	250	250	250
4.33		Aisle width for pallets 1000x1200 crossways	A _{st}	mm	5010	5010	5065	5065
4.34		Aisle width for pallets 800x1200 lengthways	A _{st}	mm	5210	5210	5265	5295
4.35		Turning radius	W _a	mm	3230	3230	3280	3280
4.36	Internal turning radius	b ₁₃	mm	930	930	980	980	
Performance data	5.1	Travel speed, with/without load		km/h	19/21	19/21	19/21	19/21
	5.2	Lift speed, with/without load		m/s	0,41/0,44	0,39/0,42	0,41/0,44	0,38/0,42
	5.3	Lowering speed, with/without load		m/s	0,53/0,48	0,53/0,48	0,53/0,48	0,53/0,48
	5.6	Max. drawbar pull, with/without load		N	46000/20900	46000/20500	46000/19900	45000/19500
	5.7	Gradeability, with load		%	24	24	21	21
	5.8	Max. gradeability, with/without load ²⁾		%	34/24	34/24	30/21	30/21
	5.10	Service brake			Hydraulic	Hydraulic	Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type			Toyota 1FS	Toyota 1KD	Toyota 1FS	Toyota 1KD
	7.2	Engine power (ISO 1585)		kW	55 (V)	55	55 (V)	55
	7.3	Rated speed		min ⁻¹	2550	2200	2550	2200
	7.4	No. of cylinders/displacement		cm ³	4/3685	4/2982	4/3685	4/2982
	7.5a	Fuel consumption according to EN16796		l/h		6,0		6,6
	7.5b	Fuel consumption according to EN16796		kg/h	5,8		6,4	
Other	8.2	Operating pressure for attachments		bar	210	210	210	210
	8.3	Oil volume for attachments		l/min	128	128	128	128
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	80	79	80	79

1) Overhead guard dimensions reflected in the specification sheet are based on optional overhead guard (+75mm) TMHE recommends this optional height for trucks sold in Europe for reasons of additional comfort for majority of European drivers.

2) Computed values.

Mast dimensions and rated capacities

Model			V									FSV				
8FG/60F	Lift height	h_{23}	3000	3300	3500	3700	4000	4500	5000	5500	6000	4000	4300	4700	5000	6000
	Lift	h_3	2940	3240	3440	3640	3940	4440	4940	5440	5940	3940	4240	4640	4940	5940
	Height, mast lowered	h_1	2460	2610	2710	2810	3060	3310	3560	3810	4060	2360	2460	2550	2810	3110
	Height, mast extended ¹⁾	h_4	3980	4280	4480	4680	5030	5530	6030	6530	7030	5060	5360	5750	6160	7110
	Height, mast extended ²⁾	h_4	4435	4735	4935	5135	5435	5935	6435	6935	7435	5435	5735	6135	6435	7435
	Free lift, without load backrest	h_2	125	125	125	125	125	125	125	125	125	1365	1465	1565	1715	2065
	Free lift, with load backrest	h_2	125	125	125	125	125	125	125	125	125	990	1090	1180	1440	1740

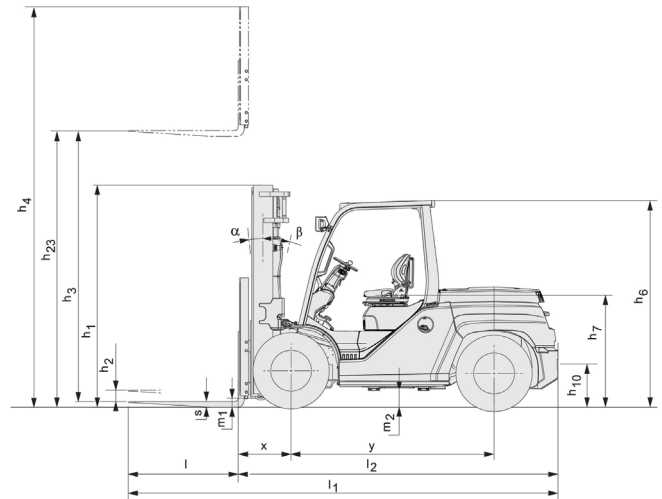
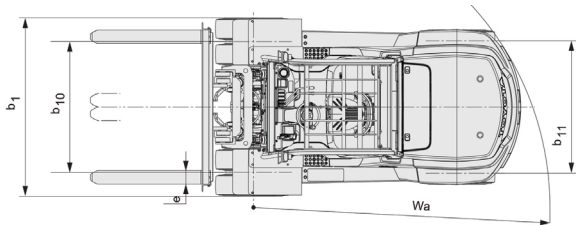
Model			V									FSV				
8FG/70F	Lift height	h_{23}	3000	3300	3500	3700	4000	4500	5000	5500	6000	4000	4300	4700	5000	6000
	Lift	h_3	2935	3235	3435	3635	3935	4435	4935	5435	5935	3935	4235	4635	4935	5935
	Height, mast lowered	h_1	2460	2610	2710	2810	3060	3310	3560	3810	4060	2360	2460	2550	2810	3110
	Height, mast extended ¹⁾	h_4	3980	4280	4480	4680	5030	5530	6030	6530	7030	5060	5360	5750	6160	7110
	Height, mast extended ²⁾	h_4	4435	4735	4935	5135	5435	5935	6435	6935	7435	5435	5735	6135	6435	7435
	Free lift, without load backrest	h_2	125	125	125	125	125	125	125	125	125	1365	1465	1565	1715	2065
	Free lift, with load backrest	h_2	125	125	125	125	125	125	125	125	125	990	1090	1180	1440	1740

Dual tyre			V									FSV				
8FG/60F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Tilt range, Backward	deg	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	6	6	6	6	6
	Load capacity at 600 mm LC	kg	6000	6000	6000	6000	6000	6000	6000	6000	5700	6000	5820	5620	5500	5200
8FG/70F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Tilt range, Backward	deg	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12	6	6	6	6	6
	Load capacity at 600 mm LC	kg	7000	7000	7000	7000	7000	7000	7000	6700	6500	7000	6730	6700	6700	5700

1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1370 mm.

[] = value when selecting H35F and H00H/H02I



Underclearance		60N	70N
Mast, load	mm	125	125
Drive axle, load	mm	215	205
Steer axle, no load	mm	270	265
Center of wheelbase, load	mm	250	250
Counterweight, no load	mm	225	225
Lowest point under chassis, full load	mm	190	190

8FG80F, 8FD80F

Specifications					8FG80F	8FD80F
Identification	1.1	Manufacturer			Toyota	Toyota
	1.2	Model			8FG80F	8FD80F
	1.3	Drive			LPG	Diesel
	1.4	Operator type			Driver seated	Driver seated
	1.5	Load capacity/rated load	Q	kg	8000	8000
	1.6	Load centre	c	mm	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	590	590
	1.9	Wheelbase	y	mm	2250	2250
Weight	2.1	Service weight		kg	9980	9940
	2.2	Axle load with load, front/rear		kg	15830/2050	15860/2080
	2.3	Axle load without load, front/rear		kg	3600/6280	3630/6310
Tyres	3.1	Tyres - Pneumatic (P),Pneumatic shaped cushion (PSC), Solid rubber(R)			P	P
	3.2	Tyre size, front			8.25-15-14PR	8.25-15-14PR
	3.3	Tyre size, rear			8.25-15-14PR	8.25-15-14PR
	3.5	Wheels, number front/rear (x = driven)			2x-4x/2	2x-4x/2
	3.6	Track width, front	b_{10}	mm	1440	1440
	3.7	Track width, rear	b_{11}	mm	1460	1460
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg	6/12
4.2		Height, mast lowered	h_1	mm	2610	2610
4.3		Free lift	h_2	mm	125	125
4.4		Lift	h_3	mm	2930	2930
		Lift height	h_{23}	mm	3000	3000
4.5		Height, mast extended	h_4	mm	4440	4440
4.7		Height of overhead guard (cab) ¹⁾	h_6	mm	2385	2385
4.8		Seat height	h_7	mm	1128	1128
4.12		Coupling height	h_{10}	mm	485	485
4.19		Overall length	l_1	mm	4790	4790
4.20		Length to face of forks	l_2	mm	3590	3590
4.21		Overall width	b_1	mm	1965	1965
4.22		Fork dimensions	s/e/l	mm	70/150/1200	70/150/1200
4.23		Fork carriage DIN 15 173, class/type A, B			IV A	IV A
4.24		Fork-carriage width	b_3	mm	1700	1700
4.31		Ground clearance, with load, below mast	m_1	mm	125	125
4.32		Ground clearance, centre of wheelbase	m_2	mm	250	250
4.33		Aisle width for pallets 1000x1200 crossways	A_{st}	mm	5110	5110
4.34		Aisle width for pallets 800x1200 lengthways	A_{st}	mm	5310	5310
4.35		Turning radius	W_a	mm	3320	3320
4.36	Internal turning radius	b_{13}	mm	1020	1020	
Performance data	5.1	Travel speed, with/without load		km/h	19/21	19/21
	5.2	Lift speed, with/without load		m/s	0,37/0,44	0,36/0,42
	5.3	Lowering speed, with/without load		m/s	0,53/,048	0,53/,048
	5.6	Max. drawbar pull, with/without load		N	45000/19700	45000/19300
	5.7	Gradeability, with load		%	17	19
	5.8	Max. gradeability, with/without load ²⁾		%	26/19	17/18
	5.10	Service brake			Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type			Toyota 1FS	Toyota 1KD
	7.2	Engine power (ISO 1585)		kW	55 (V)	55
	7.3	Rated speed		min ⁻¹	2550	2200
	7.4	No. of cylinders/displacement		cm ³	4/3685	4/2982
	7.5a	Fuel consumption according to EN16796		l/h		7,4
	7.5b	Fuel consumption according to EN16796		kg/h	7,0	
Other	8.2	Operating pressure for attachments		bar	210	210
	8.3	Oil volume for attachments		l/min	128	128
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	80	79

1) Overhead guard dimensions reflected in the specification sheet are based on optional overhead guard (+75mm) TMHE recommends this optional height for trucks sold in Europe for reasons of additional comfort for majority of European drivers.

2) Computed values.

Mast dimensions and rated capacities

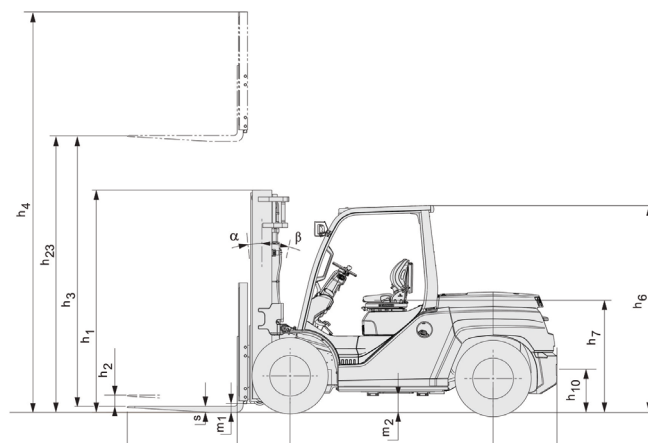
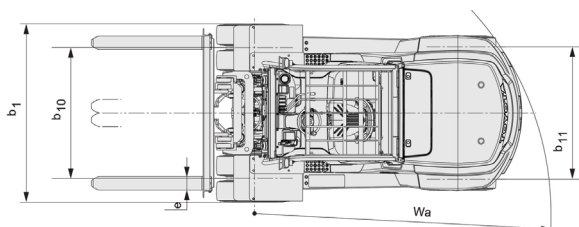
Model			V								
8FG/80F	Lift height	h_{23}	3000	3300	3500	3700	4000	4500	5000	5500	6000
	Lift	h_3	2930	3230	3430	3630	3930	4430	4930	5430	5930
	Height, mast lowered	h_1	2610	2710	2810	3060	3310	3560	3810	4060	4310
	Height, mast extended ¹⁾	h_4	4080	4380	4580	4880	5280	5780	6280	6780	7280
	Height, mast extended ²⁾	h_4	4440	4740	4940	5140	5440	5940	6440	6940	7440
	Free lift, without load backrest	h_2	130	130	130	130	130	130	130	130	130
	Free lift, with load backrest	h_2	130	130	130	130	130	130	130	130	130

Dual tyre			V								
8FG/80F	Tilt range, forward	deg	6	6	6	6	6	6	6	6	6
	Tilt range, Backward	deg	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]	12 [10]
	Load capacity at 600 mm LC	kg	8000	8000	8000	8000	8000	8000	8000	7700	7500

1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1370 mm.

[] = value when selecting H35F and H00H/H02!



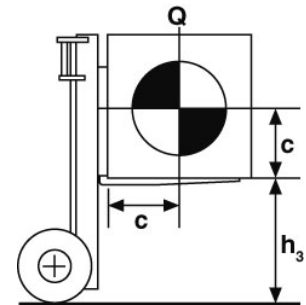
Underclearance		80N
Mast, load	mm	125
Drive axle, load	mm	215
Steer axle, no load	mm	265
Center of wheelbase, load	mm	250
Counterweight, no load	mm	225
Lowest point under chassis, full load	mm	190

Rated capacities at different load centres

8FG/8FD60F			V									FSV				
	h ₃	mm	3000	3300	3500	3700	4000	4500	5000	5500	6000	4000	4300	4700	5000	6000
	Q at 600 (c)	kg	6000	6000	6000	6000	6000	6000	6000	6000	5700	6000	5820	5620	5500	5200
	1000 (c)	kg	4480	4480	4480	4480	4480	4480	4480	4260	4490	4380	4210	4140	3910	

8FG/8FD70F			V									FSV				
	h ₃	mm	3000	3300	3500	3700	4000	4500	5000	5500	6000	4000	4300	4700	5000	6000
	Q at 600 (c)	kg	7000	7000	7000	7000	7000	7000	7000	6700	6500	7000	6730	6700	6700	5700
	1000 (c)	kg	5230	5230	5230	5230	5230	5230	5010	4860	5240	5070	5050	5050	4290	

8FG/8FD80F			V									
	h ₃	mm	3000	3300	3500	3700	4000	4500	5000	5500	6000	
	Q at 600 (c)	kg	8000	8000	8000	8000	8000	8000	8000	7700	7500	
	1000 (c)	kg	5990	5990	5990	5990	5990	5990	5990	5760	5610	



h₃: Max. Fork Height
 c: Load Center
 Q: Capacity

Mast dimensions and performance

Model			8FD60F		8FG60F		8FD70F		8FG70F		
Type of mast			V	FSV	V	FSV	V	FSV	V	FSV	
Performance											
Speeds	Lifting	Full load	mm/sec	410	400	410	410	410	400	410	410
		No load	mm/sec	440	430	440	430	440	430	440	430
	Lowering	Full load	mm/sec	530	490	530	510	530	490	530	510
		No load	mm/sec	480	460	480	460	480	460	480	460
Dimensions, mm											
Load distance (Centerline of front axle to front face of forks)			580	615	580	615	585	620	585	620	

Model			8FG80F	8FD80F	
Type of mast			V	V	
Performance					
Speeds	Lifting	Full load	mm/sec	370	410
		No load	mm/sec	440	440
	Lowering	Full load	mm/sec	530	530
		No load	mm/sec	480	480
Dimensions, mm					
Load distance (Centerline of front axle to front face of forks)			590	590	

Please note: different than listed, values lift and lowering speed might be lower below free lift height.

Standard equipment

8FG/FD60F, 70F, 80F	
• Torque converter	• Travel speed limitation control
• Toyota SAS (System of Active Stability *	• Alternator with IC regulator (60A: Gasoline, 80A: Diesel)
• Toyota OPS (Operator Presence Sensing)	• Engine protection system (overheat-detection engine-output limiter)
• Toyota ORS seat (Operator Restraint System), standard seat	• LED Headlights with guard
• Orange seatbelt including seat belt interlock	• LED Rear combination lights
• Wide visible mast (MFH: 3000 mm)	• Multifunction display II including self diagnostic system ¹⁾
• Load backrest, flat steel type [Height: 1370 mm]	• Travel speed control, engine auto stop and ECO mode
• Long forks [Length: 1200 mm]	• Adjustable tilt steering column
• Long forkbar [Length: 1700 mm]	• Polycarbonate roof
• 3-way valve (A400)	• Tilt cylinder boots
• Dual brake system	• Tilt hole boots
• Pneumatic tyres	• Floor mat
• Full hydraulic power steering (only on diesel with load sensing)	• Radiator screen
• 8" cyclone air cleaner with snorkel air intake	• Torque converter oil cooler
• Long life coolant 50%	• Variable displacement pump (on Diesel models only)

* When dual tyres are selected, the active control rear stabilizer function of the SAS System of Active Stability (SAS) is not included.

¹⁾ Hourmeter, engine water temperature indicator, all-time fuel meter (only for diesel/gasoline), engine oil pressure indicator, charge warning lights, sedimenter warning light (diesel only), OPS light, engine check light.

Option availability

Model	Option code	8FG60F	8FG70F	8FG80F	8FD60F	8FD70F	8FD80F
Load handling							
Wide visible mast (V)	* M00B	●	●	●	●	●	●
Full-free lift three-stage mast (FSV)	* M00D	●	●	—	●	●	—
Long forks	M20A	●	●	●	●	●	●
Without forks	M20N	●	●	●	●	●	●
Long forkbar	M30A	—	—	—	●	●	●
High load backrest	M40A	●	●	●	●	●	●
Without load backrest	M40N	●	●	●	●	●	●
Clamp release interlock 3rd lever	1) * Q15A	●	●	●	●	●	●
Clamp release interlock 4th lever	2) * Q15B	●	●	●	●	●	●
Clamp release interlock 5th lever	3) * Q15C	—	—	—	—	—	—
Clamp release interlock 3rd/4th lever	2) Q15D	●	●	●	—	—	—
Clamp release interlock 4th/5th lever	3) Q15E	—	—	—	●	●	—
A4 piping 3-way valve, 1 hose	* A410	●	●	●	●	●	●
A4 piping 4-way valve, 4 hoses	* A450	●	●	●	●	●	●
A4 piping 5-way valve, 6 hoses	* A465	—	—	—	●	●	—
A4 piping 4-way valve, no hose	* A405	●	●	●	●	●	●
Hook-on sideshift with A410	* E911	●	●	●	●	●	●
Dust-proof hydraulic system	B21B	●	●	●	●	●	●
Heavy duty hydraulic accumulator	4) * M82B	●	●	●	●	●	●
Fully oil charged lift cylinder	* M09A	●	●	●	●	●	●
Mast tilt gage	* N14A	●	●	●	●	●	●
Engine							
LPG exclusive (Z4)	5) * C00A	●	●	●	—	—	—
LPG convertible (Z3)	6) * C00B	●	●	●	—	—	—
W/O 20KG cylinder	* C01N	●	●	●	—	—	—
LPG bracket (swing down type)	* C03F	●	●	●	—	—	—
W/O tank bracket	* C03N	●	●	●	—	—	—
LPG connector valve	* C200	●	●	●	—	—	—
Anti-restart ignition key	* E26A	●	●	●	●	●	●
Upswept exhaust	* C10A	—	—	—	●	●	●
Cyclone air cleaner (dual element)	* C15B	●	●	●	●	●	●
Pre-cleaner	* C16A	●	●	●	●	●	●
Plate fin radiator	* C27A	—	—	—	●	●	●
LPG warning indicator	* C28A	●	●	●	—	—	—
High capacity cooling	* A26A	●	●	●	●	●	●
3-way catalytic converter	* C11D	○	○	○	—	—	—
Cooling fan booster	* C55A	●	●	●	●	●	●
Fanguard	* K66A	●	●	●	○	○	○
High capacity alternator	* D05A	●	●	●	—	—	—
High capacity battery	D20A	●	●	●	—	—	—
12V power supply	* D59B	●	●	●	●	●	●
12V power supply RR (on-off, off key)	* D60C	●	●	●	●	●	●
12V power supply RR (on-off, off reverse)	* D60D	●	●	●	●	●	●
Transmission protection system	7) * E17A	●	●	●	●	●	●
2 speed automatic transmission	E10B	●	●	●	●	●	●

Model	Option code	8FG60F	8FG70F	8FG80F	8FD60F	8FD70F	8FD80F
Lights and indicators							
LED Yellow rotary lamp (on-off of key)	* J19U	●	●	●	●	●	●
Strobe lamp (on-off of key)	* J19I	●	●	●	●	●	●
LED Front combination lights	* J20C	●	●	●	●	●	●
W/O rear combination lights	* J21N	●	●	●	●	●	●
LED Rear working light	* J26G	●	●	●	●	●	●
LED Rear working light (selective lighting conditions)	* J26I	●	●	●	●	●	●
Back-up buzzer	* K21D	●	●	●	●	●	●
Mast mounted headlight & mast mounted combination lights	13) * J04F	—	—	—	●	●	●
Rear view mirror	* J01B	●	●	●	●	●	●
Panoramic mirror	* J14A	●	●	●	●	●	●
Body							
D2 pedal	E17A	●	●	●	●	●	●
Left hand shift lever	9) * E11A	●	●	●	●	●	●
Minilevers	* E45A	●	●	●	●	●	●
Multifunctional levers	* E45B	●	●	●	●	●	●
Telescopic steering column	9) * E47A	●	●	●	●	●	●
ORS cloth seat with suspension	* G40C	●	●	●	●	●	●
Seat with air suspension	* G40W	—	—	—	●	●	●
Swivel seat	* G41F	●	●	●	●	●	●
Steel cabin	8) * H00H	●	●	●	●	●	●
W/O polycarbonate roof	* H01N	●	●	●	●	●	●
De Luxe cabin	9) * H00X	—	—	—	●	●	●
Front windshield and roof	* H02D	●	●	●	●	●	●
Cabin without doors	* H02I	●	●	●	●	●	●
Cabin with canvas doors	* H02L	●	●	●	●	●	●
Aircooler	10) * H10A	—	—	—	●	●	●
Heater	* H11A	●	●	●	●	●	●
High spec heater	12) * H11G	●	●	●	●	●	●
Defroster	11) * H12A	●	●	●	●	●	●
+75 mm OHG with comfort seat	9) * H35D	●	●	●	●	●	●
+75 mm OHG	* H35F	●	●	●	●	●	●
E-bar bracket	10) * S18A	—	—	—	●	●	●
Power cilinder boots	K14A	●	●	●	●	●	●
Tool set A	S00B	●	●	●	●	●	●
Rear-pillar assist grip	L37A	●	●	●	●	●	●
Document box	* S04A	●	●	●	●	●	●
Hydraulic oil temp. gauge	* L42B	●	●	●	●	●	●
Special							
Cold weather spec	* B01A	—	—	—	●	●	●
Low noise spec	* B11A	—	—	—	●	●	●

1) Requires [A410].

2) Requires [A450].

3) Requires [M00D and A465].

4) Requires [M00D].

5) Requires [C01N, C200].

6) Requires [C01N].

8) Requires [H12A], when selecting [H00H] + (H11A or H11G)].

9) Requires [E45A or E45B], does not apply to 8FG60F/70F/80F.

10) Requires [H00X].

11) Requires [H11A or H11G, H00H or H02D or H02I or H02L].

12) Requires [H00H or H02L].

13) Requires [H00H or H02L].

*Please see the Matching Options chart.

Fork availability

Unit: mm

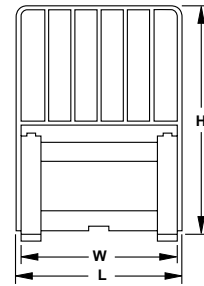
Model	Mounting class	Length	Width	Thickness	Long forks
8FD/G60F	IV	1200	150	60	○
		1400	150	65	●
		1500	150	65	●
		1600	150	65	●
		1800	150	65	●
8FD/G70F	IV	1200	150	65	○
		1400	150	65	●
		1500	150	65	●
		1600	150	65	●
		1800	150	65	●
8FD/G80F	IV	1200	150	70	○
		1400	150	70	●
		1500	150	70	●
		1600	150	70	●
		1800	150	70	●

Forkbar and backrest availability

Unit: mm

Model	H	L	—	—	—	—	1860*	—
	W		1170	1320	1470	1630	1700	1930
8FD/G60F	1370	—	—	—	—	—	○ [●]	—
8FD/G70F	1520	—	—	—	—	—	●	—
8FD/G80F	1670	—	—	—	—	—	●	—
	1820	—	—	—	—	—	●	—

* Minus 135 mm when the optional flat steel type load backrest is selected.
 [] when the optional flat steel type load backrest is selected



L: Outside width of load backrest
 W: Length of forkbar
 H: Height of load backrest

Mast interchangeability

Model	Mast	
	V	FSV
8FD/G60F	●	●
8FD/G70F	●	●
8FD/G80F	●	N/A

● Interchangeable within model group.
 The masts are not interchangeable with previous model.

Mast weight

Mast		V										FSV					
		mm	3000	3300	3500	3700	4000	4500	5000	5500	6000	4000	4300	4700	5000	6000	7000
Maximum fork height	kg	1370	1410	1440	1480	1610	1680	1750	1820	1880	1760	1810	1850	2010	2150	2700	
8FD/G60, 70F	kg	1450	1480	1510	1620	1710	1780	1860	1920	2000	—	—	—	—	—	—	
8FD/G80F	kg	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

Tyre availability

Tyre spec	Pneumatic tyre		Pneumatic shaped cushion tyre	
	FRONT	REAR	FRONT	REAR
Tyre size	8.25-15-14PR	8.25-15-14PR	8.25-15	8.25-15
Rim spec	Side ring	Side ring	Quick Lock	Quick Lock
Rim size	6.50 - 15	6.50 - 15	6.50 - 15	6.50 - 15
Overall width (mm)	1965	—	1965	—
Tread, front (mm)	1440	—	1440	—
Brand	Solideal	Solideal	Solideal	Solideal
8FD/G60F	○	○	●	●
8FD/G70F	○	○	●	●
8FD/G80F	○	○	●	●

Piping availability

Model	Mast type	3-way valves		4-way valves		5-way valves
		No hose lines	2 hose lines	No hose lines	4 hose lines	6 hose lines
		A400	A410	A405	A450	A465
8FG/D60F	V	●	●	●	●	—
8FG/D70F		●	●	●	●	●
8FG/D80F	V	●	●	●	●	—
	FSV	—	—	—	—	—

Fuel tank capacity

Model	Tank capacity
8FG/D60F	130 L
8FG/D70F	130 L
8FG/D80F	130 L

Gradeability and speed on slope

Specifications, Full loaded			Gradeability @ 1,5 km/h	Speed on 14% grade
			Value	Value
Model	Transmission		%	km/h
8FD60F	STD	2 stage, 1 speed TC	24	3,7
	E10B	1 Stage, T speed TC	25	4,4
8FG60F	STD	2 stage, 1 speed TC	24	3,2
	E10B	1 Stage, T speed TC	25	3,9
8FD70F	STD	2 stage, 1 speed TC	21	3,2
	E10B	1 Stage, T speed TC	22	3,8
8FG70F	STD	2 stage, 1 speed TC	21	2,7
	E10B	1 Stage, T speed TC	22	3,3
8FD80F	STD	2 stage, 1 speed TC	19	2,6
	E10B	1 Stage, T speed TC	20	3,1
8FG80F	STD	2 stage, 1 speed TC	17	2,1
	E10B	1 Stage, T speed TC	18	2,6

