

8FG/FD45N, 50N

Specifications				40-8FD45N	8FG45N	40-8FD50N	8FG50N	
Identification	1.1	Manufacturer		Toyota	Toyota	Toyota	Toyota	
	1.2	Model		40-8FD45N	8FG45N	40-8FD50N	8FG50N	
	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	4170	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	63	55	63
	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 VDI60		l/h	5,0	—	5,3	—
	7.5b	Fuel consumption according to VDI60		kg/h	—	4,9	—	5,2
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/D45N	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/D50N	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	3905	4205	4605	4905	5405	5905	—	—	—	—	—	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

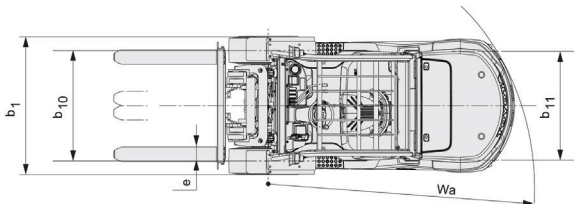
1) Without load backrest.

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

Single tyre			V					FV					FSV								
8FG/D45N	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	12	12	12	6	6	12	12	12	12	12	—	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 (4300)	4200 (4250)	4000 (4050)	3000 (3050)	2300 (2350)
8FG/D50N	Tilt range, forward	deg	6	6	6	6	6	6	—	—	—	—	—	6	6	6	—	6	6	6	6
	Tilt range, backward	deg	12	12	12	12	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 (4950)	4800 (4850)	—	4300 (4350)	4100 (4150)	3100 (3150)	2400 (2450)

Dual tyre			V					FV					FSV								
8FG/D45N	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	12	12	12	12	12	12	12	12	12	12	—	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/D50N	Tilt range, forward	deg	6	6	6	6	6	6	—	—	—	—	—	6	6	6	—	6	6	6	6
	Tilt range, backward	deg	12	12	12	12	12	12	—	—	—	—	—	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

() = Load capacity with PSC tyres.



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

