

Engine powered forklift 5.0 - 8.0 ton

5FG/5FD



TOYOTA

MATERIAL HANDLING

stronger together

Engine powered forklifts 5.0 - 6.0 ton

Truck specifications						5FG50	5FG60	50-5FD60
Identification	1.1	Manufacturer				Toyota	Toyota	Toyota
	1.2	Model				5FG50	5FG60	50-5FD60
	1.3	Drive				Gasoline	Gasoline	Diesel
	1.4	Operator type				Rider seated	Rider seated	Rider seated
	1.5	Load capacity/rated load	Q	kg		5000	6000	6000
	1.6	Load centre	c	mm		600	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm		590	590	590
	1.9	Wheelbase	y	mm		2250	2250	2250
Weight	2.1	Service weight		kg		8050	8570	8770
	2.2	Axle load, with load, front/rear		kg		11660/1390	13090/1480	13200/1570
	2.3	Axle load, without load, front/rear		kg		4020/4030	3920/4650	4030/4740
Tyres	3.1	Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)				P	P	P
	3.2	Tyre size, front				8.25-15-12PR(I)	8.25-15-12PR(I)	8.25-15-12PR(I)
	3.3	Tyre size, rear				8.25-15-12PR(I)	8.25-15-12PR(I)	8.25-15-12PR(I)
	3.5	Wheels, number front/rear (x=driven wheels)				4x/2	4x/2	4x/2
	3.6	Track width, front	b ₁₀	mm		1490	1490	1490
	3.7	Track width, rear	b ₁₁	mm		1670	1670	1670
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg		10/12	10/12	10/12
	4.2	Height, mast lowered	h ₁	mm		2515	2515	2515
	4.3	Free lift	h ₂	mm		210	210	210
	4.4	Lift	h ₃	mm		2937	2937	2937
		Lift height	h ₂₃	mm		3000	3000	3000
	4.5	Height, mast extended	h ₄	mm		4370	4370	4370
	4.7	Height of overhead guard (cab)	h ₆	mm		2440	2440	2440
	4.8	Seat height	h ₇	mm		1390	1390	1390
	4.12	Coupling height	h ₁₀	mm		430	430	430
	4.19	Overall length	l ₁	mm		4680	4725	4725
	4.20	Length to face of forks	l ₂	mm		3460	3505	3505
	4.21	Overall width	b ₁	mm		1995	1995	1995
	4.22	Fork dimensions	s/e/l	mm		63/150/1220	63/150/1220	63/150/1220
	4.23	Fork carriage DIN 15 173, class/type A, B				IVA	IVA	IVA
	4.24	Fork-carriage width	b ₃	mm		1700	1700	1700
	4.31	Ground clearance, with load, below mast	m ₁	mm		185	185	185
	4.32	Ground clearance, centre of wheelbase	m ₂	mm		215	215	215
	4.33	Aisle width for pallets 1000 x 1200 crossways	A _{st}	mm		5140	5140	5140
	4.34	Aisle width for pallets 800 x 1200 lengthways	A _{st}	mm		5340	5340	5340
	4.35	Turning radius	W _a	mm		3350	3350	3350
	4.36	Internal turning radius	b ₁₃	mm		1357,5	1357,5	1357,5
Performance data	5.1	Travel speed, with/without load		km/h		23,0/25,0	23,0/25,0	30,0/33,0
	5.2	Lift speed, with/without load		m/s		0,42/0,47	0,42/0,47	0,49/0,54
	5.3	Lowering speed, with/without load		m/s		0,40/0,50	0,40/0,50	0,40/0,50
	5.6	Max. drawbar pull, with/without load		N		57000/25500	54000/25500	59000/25500
	5.7	Gradeability, with load		%		22	19	31
	5.8	Max. gradeability, with/without load		%		46/28	40/26	40/23
	5.10	Service brake				Hydraulic	Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type				Toyota 1FZ-E	Toyota 1FZ-E	Hino N04C
	7.2	Engine power acc. to ISO 1585		kW		63	63	90
	7.3	Rated speed		1/min		2350	2350	2200
	7.4	No. of cylinders/displacement		cm ³		6/4476	6/4476	4/4009
Others	8.2	Operating pressure for attachments		bar		175	175	175
	8.3	Oil volume for attachments		l/min		125	125	145
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)		88	88	88

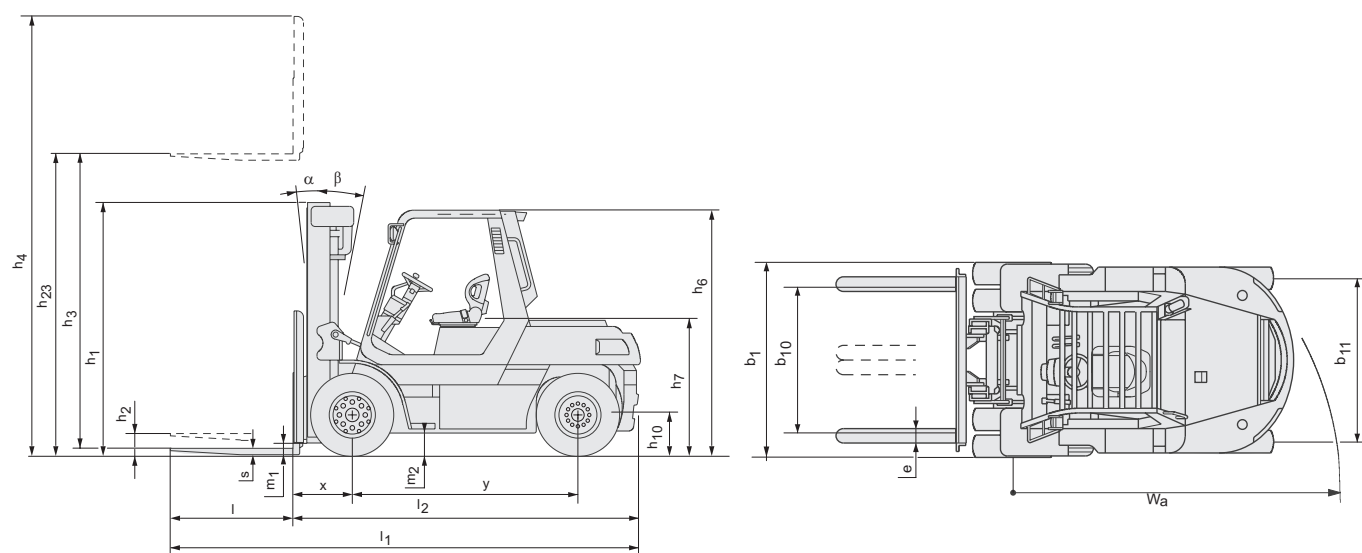
Performance data and dimensions are nominal and subject to tolerances.
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5FG/5FD

- 1) Without load backrest
- 2) With load backrest; Height of standard load backrest is 1370 mm

Dual tyre			V								FSV							
5FGD60	Tilt range, forward	deg	10	10	10	10	10	10	10	10	10	6	6	6	6	6	6	6
	Tilt range, backward	deg	12(9)	12(9)	12(9)	12(9)	12(9)	12(9)	12(9)	12(9)	12(9)	6	6	6	6	6	6	6
	Load capacity at 500 mm LC	kq	6000	6000	6000	6000	6000	6000	6000	6000	5700	5700	5700	5500	5500	5200	3700	2700

Data in () are for front windshield with wiper and washer, canvas cab and steel cab.



Engine powered forklifts 7.0 ton

Truck specifications						5FG70	50-5FD70
Identification	1.1	Manufacturer				Toyota	Toyota
	1.2	Model				5FG70	50-5FD70
	1.3	Drive				Gasoline	Diesel
	1.4	Operator type				Rider seated	Rider seated
	1.5	Load capacity/rated load	Q	kg		7000	7000
	1.6	Load centre	c	mm		600	600
	1.8	Load distance, centre of drive axle to fork	x	mm		595	595
	1.9	Wheelbase	y	mm		2250	2250
Weight	2.1	Service weight		kg		9330	9530
	2.2	Axle load, with load, front/rear		kg		14590/1740	14710/1820
	2.3	Axle load, without load, front/rear		kg		3870/5460	3990/5540
Tyres	3.1	Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)				P	P
	3.2	Tyre size, front				8.25-15-14PR(I)	8.25-15-14PR(I)
	3.3	Tyre size, rear				8.25-15-14PR(I)	8.25-15-14PR(I)
	3.5	Wheels, number front/rear (x=driven wheels)				4x/2	4x/2
	3.6	Track width, front	b ₁₀	mm		1490	1490
	3.7	Track width, rear	b ₁₁	mm		1670	1670
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg		10/12	10/12
	4.2	Height, mast lowered	h ₁	mm		2515	2515
	4.3	Free lift	h ₂	mm		215	215
	4.4	Lift	h ₃	mm		2932	2932
		Lift height	h ₂₃	mm		3000	3000
	4.5	Height, mast extended	h ₄	mm		4370	4370
	4.7	Height of overhead guard (cab)	h ₆	mm		2440	2440
	4.8	Seat height/stand height	h ₇	mm		1390	1390
	4.12	Coupling height	h ₁₀	mm		430	430
	4.19	Overall length	l ₁	mm		4805	4805
	4.20	Length to face of forks	l ₂	mm		3585	3585
	4.21	Overall width	b ₁	mm		1995	1995
	4.22	Fork dimensions	s/e/l	mm		68/150/1220	68/150/1220
	4.23	Fork carriage DIN 15 173, class/type A, B				IVA	IVA
	4.24	Fork-carriage width	b ₃	mm		1700	1700
	4.31	Ground clearance, with load, below mast	m ₁	mm		180	180
	4.32	Ground clearance, centre of wheelbase	m ₂	mm		210	210
	4.33	Aisle width for pallets 1000 x 1200 crossways	A _{st}	mm		5195	5195
	4.34	Aisle width for pallets 800 x 1200 lengthways	A _{st}	mm		5395	5395
	4.35	Turning radius	W _a	mm		3400	3400
	4.36	Internal turning radius	b ₁₃	mm		1357,5	1357,5
Performance data	5.1	Travel speed, with/without load		km/h		23,0/25,0	30,0/33,0
	5.2	Lift speed, with/without load		m/s		0,42/0,47	0,49/0,54
	5.3	Lowering speed, with/without load		m/s		0,40/0,50	0,40/0,50
	5.6	Max. drawbar pull, with/without load		N		54000/25500	59000/25500
	5.7	Gradeability, with load		%		19	23
	5.8	Max. gradeability, with/without load		%		35/21	35/21
	5.10	Service brake				Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type				Toyota 1FZ-E	Hino N04C
	7.2	Engine power acc. to ISO 1585		kW		63	90
	7.3	Rated speed		1/min		2350	2200
	7.4	No. of cylinders/displacement		cm ³		6/4476	4/4009
Others	8.2	Operating pressure for attachments		bar		200	200
	8.3	Oil volume for attachments		l/min		125	145
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)		88	88

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Mast dimensions and rated capacities

5FG/5FD

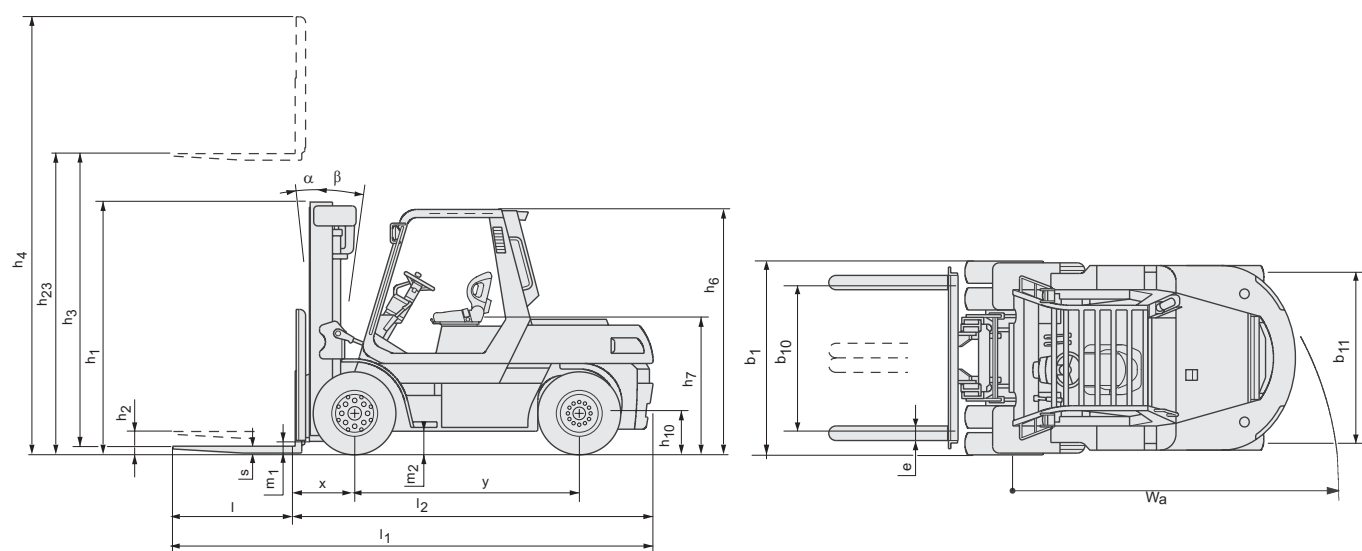
Model			V									FSV							
5FG/D70	Lift height	h_{23}	3000	3300	3500	3700	4000	4500	5000	5500	6000	4000	4300	4700	5000	6000	7000	8000	
	Lift	h_3	2932	3232	3432	3632	3932	4432	4932	5432	5932	3932	4232	4632	4932	5932	6932	7932	
	Height, mast lowered	h_1	2515	2665	2765	2865	3165	3415	3865	4115	4365	2515	2665	2765	2865	3415	3865	4115	
	Height, mast extended ¹⁾	h_4	—	—	—	—	—	—	—	—	—	5020	5365	5765	6065	7215	8215	9215	
	Height, mast extended ²⁾	h_4	4370	4670	4870	5070	5370	5870	6370	6870	7370	5370	5670	6070	6370	7370	8370	9370	
	Free lift, without load backrest	h_2	—	—	—	—	—	—	—	—	—	1560	1665	1765	1865	2265	2715	2965	
	Free lift, with load backrest	h_2	215	215	215	215	215	215	215	215	215	1145	1295	1395	1495	2045	2495	2745	

1) Without load backrest

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

Dual tyre			V								FSV							
5FGD70	Tilt range, forward	deg	10	10	10	10	10	10	10	10	6	6	6	6	6	6	6	
	Tilt range, backward	deg	12(6)	12(9)	12(9)	12(9)	12(9)	12(9)	12(9)	12(9)	6	6	6	6	6	6	6	
	Load capacity at 500 mm LC	kq	7000	7000	7000	7000	7000	7000	7000	6700	6500	6700	6700	6700	5700	4000	3000	

Data in () are for front windshield with wiper and washer, canvas cab and steel cab.



Engine powered forklifts 8.0 ton

Truck specifications						5FD80
Identification	1.1	Manufacturer				Toyota
	1.2	Model				5FD80
	1.3	Drive				Diesel
	1.4	Operator type				Rider seated
	1.5	Load capacity/rated load	Q	kg		8000
	1.6	Load centre	c	mm		600
	1.8	Load distance, centre of drive axle to fork	x	mm		680
	1.9	Wheelbase	y	mm		2500
Weight	2.1	Service weight		kg		11220
	2.2	Axle load, with load, front/rear		kg		17210/2010
	2.3	Axle load, without load, front/rear		kg		5110/6110
Tyres	3.1	Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R)				P
	3.2	Tyre size, front				9,00-20-14PR(I)
	3.3	Tyre size, rear				9,00-20-14PR(I)
	3.5	Wheels, number front/rear (x=driven wheels)				4x/2
	3.6	Track width, front	b ₁₀	mm		1585
	3.7	Track width, rear	b ₁₁	mm		1750
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	deg		10/12
	4.2	Height, mast lowered	h ₁	mm		2880
	4.3	Free lift	h ₂	mm		210
	4.4	Lift	h ₃	mm		2932
		Lift height	h ₂₃	mm		3000
	4.5	Height, mast extended	h ₄	mm		4340
	4.7	Height of overhead guard (cab)	h ₆	mm		2615
	4.8	Seat height/stand height	h ₇	mm		1565
	4.12	Coupling height	h ₁₀	mm		520
	4.19	Overall length	l ₁	mm		5150
	4.20	Length to face of forks	l ₂	mm		3930
	4.21	Overall width	b ₁	mm		2160
	4.22	Fork dimensions	s/e/l	mm		68/170/1220
	4.23	Fork carriage DIN 15 173, class/type A, B				—
	4.24	Fork-carriage width	b ₃	mm		1800
	4.31	Ground clearance, with load, below mast	m ₁	mm		215
	4.32	Ground clearance, centre of wheelbase	m ₂	mm		350
	4.33	Aisle width for pallets 1000 x 1200 crossways	A _{st}	mm		5580
	4.34	Aisle width for pallets 800 x 1200 lengthways	A _{st}	mm		5780
	4.35	Turning radius	W _e	mm		3700
	4.36	Internal turning radius	b ₁₃	mm		1520
Performance data	5.1	Travel speed, with/without load		km/h		29,0/32,0
	5.2	Lift speed, with/without load		m/s		0,40/0,43
	5.3	Lowering speed, with/without load		m/s		0,40/0,50
	5.6	Max. drawbar pull, with/without load		N		59000/28400
	5.7	Gradeability, with load		%		20
	5.8	Max. gradeability, with/without load		%		31/23
	5.10	Service brake				Hydraulic
Combustion engine	7.1	Engine manufacturer/type				Hino N04C
	7.2	Engine power acc. to ISO 1585		kW		90
	7.3	Rated speed		1/min		2200
	7.4	No. of cylinders/displacement		cm ³		4/4009
Others	8.2	Operating pressure for attachments		bar		185
	8.3	Oil volume for attachments		l/min		145
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)		88

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Mast dimensions and rated capacities

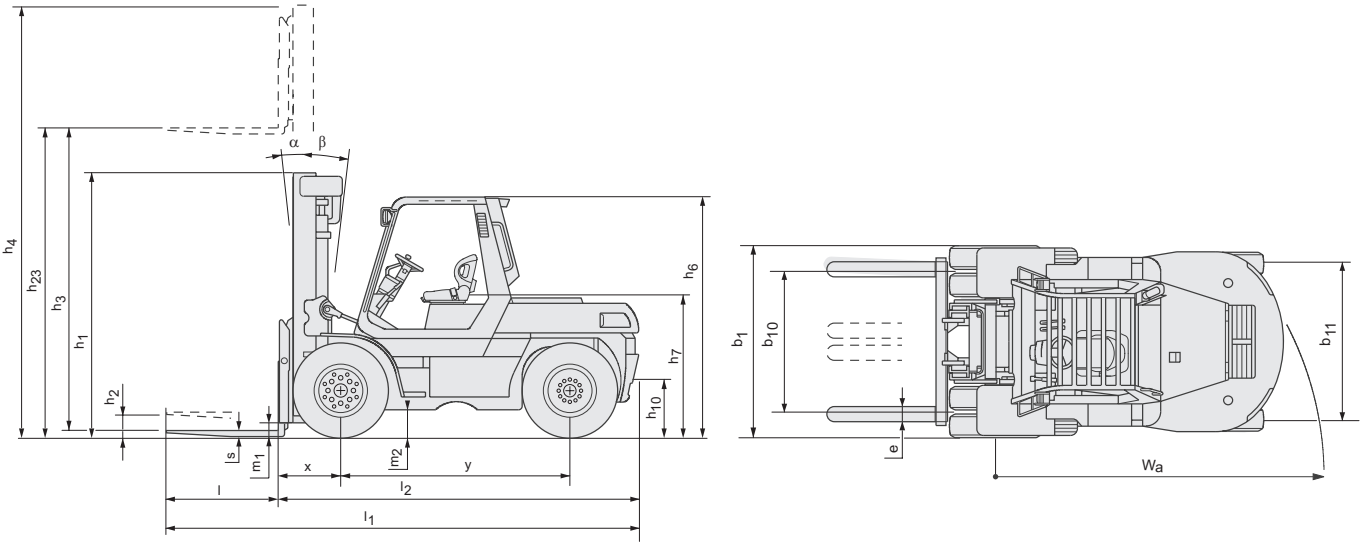
5FG/5FD

Model			V								
5FD80	Lift height	h_{23}	3000	3300	3500	3700	4000	4500	5000	5500	6000
	Lift	h_3	2932	3232	3432	3632	3932	4432	4932	5432	5932
	Height, mast lowered ¹⁾	h_1	2880	3030	3130	3230	3380	3630	4080	4330	4580
	Height, mast extended	h_4	4340	4640	4840	5040	5340	5840	6510	7010	7510
	Free lift	h_2	210	210	210	210	210	210	210	210	210

1) with optional tyre size; 10.00-20-14 PR (I), plus 25 mm.

Dual tyre			V								
5FD80	Tilt range, forward	deg	10	10	10	10	10	10	10	10	10
	Tilt range, backward	deg	12(10)	12(10)	12(10)	12(12)	12(12)	12(12)	12(12)	12(12)	12(12)
	Load capacity at 500 mm LC	kg	8000	8000	8000	8000	8000	8000	8000	7700	7500

Data in () are for front windshield with wiper and washer, canvas cab and steel cab.



Standard equipments:

- Toyota OPS (Operator Presence Sensing)
- Toyota ORS (Operator Restraint System) seat
- Wide visible mast (MFH: 3000 mm)
- Load backrest (Height: 1370 mm)
- Long forks (Length: 1220 mm)
- Long forkbar [Length: 1700 mm (5FG50, 5FG/D60.70), 1800 mm (5FD80)]
- 2-way valve
- Pneumatic tyres
- Full hydraulic power steering
- 8" Cyclone air cleaner with snorkel air intake
- Upswept exhaust
- Headlights
- Combination meter including self diagnostic system
- Tilt steering column



TP-Technical Publications, Sweden — 745564-040, version 2, 0912 — 5FG/5FD