

**KOMATSU**

**AX50** 1.0-1.75ton  
**Series**

**Model: FG18T-20**

**FG18C-20**

**FG18HT-20**

**FG18HC-20**

**FD18T-20**

**FD18C-20**

**KOMATSU FORKLIFT**

## AX50 SERIES

### ● STANDARD SPECIFICATIONS

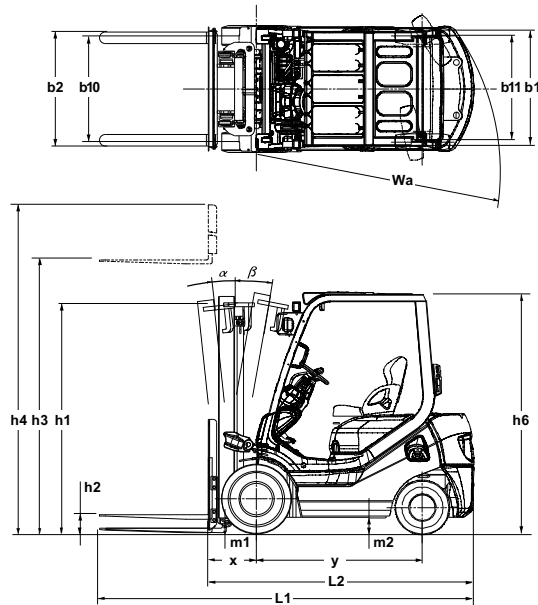
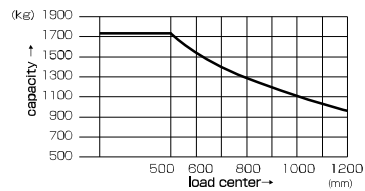
		Manufacturer's Designation		FG18T-20	FG18C-20	FD18T-20	FD18C-20		
Characteristics	1.2	Model							
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Gasoline		Diesel		
	1.4	Operation Type			Sitting		Sitting		
	1.5	Rated Capacity	Q	kg	1750		1750		
	1.6	Load Center	c	mm	500		500		
	1.6.1	Alternative Capacity	Q2	Capacity @600mm Load Center	1570		1570		
	1.8	Load Distance	x	Front Axle Center to Fork Face	405		405		
	1.9	Wheelbase	y	mm	1400		1400		
	Weight	2.1	Service Weight		kg	2645	2685	2745	2785
2.2		Axle Loading	Loaded	Front	kg	3870	3905	3900	3935
2.2.1				Rear	kg	525	530	595	600
2.3			Unloaded	Front	kg	960	995	990	1025
2.3.1				Rear	kg	1685	1690	1755	1760
Tyre	3.1	Tyre Type			Pneumatic		Pneumatic		
	3.2	Tyre Size	Front		6.50-10-10PR(I)		6.50-10-10PR(I)		
	3.3		Rear		5.00-8-8PR(I)		5.00-8-8PR(I)		
	3.5	Number of Wheels	Front/Rear(x=driven)		2*/2		2*/2		
	3.6	Tread, Front	b <sub>10</sub>	mm	890		890		
	3.7	Tread, Rear	b <sub>11</sub>	mm	895		895		
	Dimensions	4.1	Tilting Angle	$\alpha/\beta$	Forward/Backward	degree	6/10	6/10	
4.2		Mast Height, Lowered	h <sub>1</sub>	2-stage Std. Mast	mm	1995	1995		
4.3		Std. Free Lift	h <sub>2</sub>	2-stage Std. Mast from Ground	mm	140	140		
4.4		Std. Lift Height	h <sub>3</sub>	2-stage Std. Mast from Ground	mm	3000	3000		
4.5		Mast Height, Extended	h <sub>4</sub>	2-stage Std. Mast	mm	3955	3955		
4.7		Height, Overhead Guard	h <sub>6</sub>		mm	2030	2030		
4.19		Length, with Std. Forks	L <sub>1</sub>		mm	3200	3200		
4.20		Length, to Fork Face	L <sub>2</sub>		mm	2280	2280		
4.21		Width, at Tyre	b <sub>1</sub>	Single	mm	1070	1070		
4.22		Forks	s/e/l/	Thickness/Width/Length	mm	35x100x920		35x100x920	
4.23		Fork Carriage Class	ISO 2328, Type A/B/no			Class 2, type A	Class 2, type A		
4.24		Width, Fork Carriage	b <sub>2</sub>		mm	970	970		
4.31		Ground Clearance	m <sub>1</sub>	Under Mast	mm	120	120		
4.32			m <sub>2</sub>	at Center of Wheelbase	mm	130	130		
4.33		Right Angle Stacking Aisle	Ast	with L1000xW1200 pallet	mm	3395*	3395*		
4.34	Ast		with L1200xW800 pallet	mm	3595*	3595*			
4.35	Turning Radius	Wa		mm	1990	1990			
Performance	5.1	Travel Speed (FWD)	Loaded, 1st/2nd	km/h	18.5	8.5/18.5	18.5	8.5/18.5	
			Unloaded, 1st/2nd	km/h	19.0	9.0/19.0	19.0	8.5/19.0	
	5.2	Lifting Speed	Loaded	mm/s	570		620		
			Unloaded	mm/s	640		670		
	5.3	Lowering Speed	Loaded	mm/s	500		500		
			Unloaded	mm/s	550		550		
	5.6	Max. Drawbar Pull	Loaded, 1.5km/h, 3min rating	KN	10	11	13	14	
	5.8	Max. Gradeability	Loaded, 1.5km/h, 3min rating	%	25	24	29	28	
	5.10	Service Brake	Operation/Control		Foot/Hydraulic		Foot/Hydraulic		
	5.11	Parking Brake	Operation/Control		Hand/Mechanical		Hand/Mechanical		
5.12	Steering	Type		FHPS		FHPS			
6.4	Battery	Voltage/Capacity at 5-hour rating		V/ah	12/33		12/64		
I.C. Engine	7.1	Make / Model			NISSAN K15		Komatsu 4D92E		
	7.2	Rated Output, SAE net			27.2@2500		34.6@2450		
	7.3	Rated RPM			2500		2450		
	7.3.1	Max. Torque, SAE net			113@1600		142@1800		
	7.4	No. of Cylinders/Displacement			4-1486		4-2659		
	7.6	Fuel Tank Capacity			40		40		
Others	8.2	Relief Pressure for Attachment			172		172		
	8.6	Clutch			T/C	Dry	T/C	Dry	
	8.7	Transmission			TORQFLOW	Synchromesh	TORQFLOW	Synchromesh	

\*: Add clearance

T/C: Torque Converter

FG18T-20, FG18C-20, FD18T-20, FD18C-20

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warning lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

## AX50 SERIES

### ● STANDARD SPECIFICATIONS

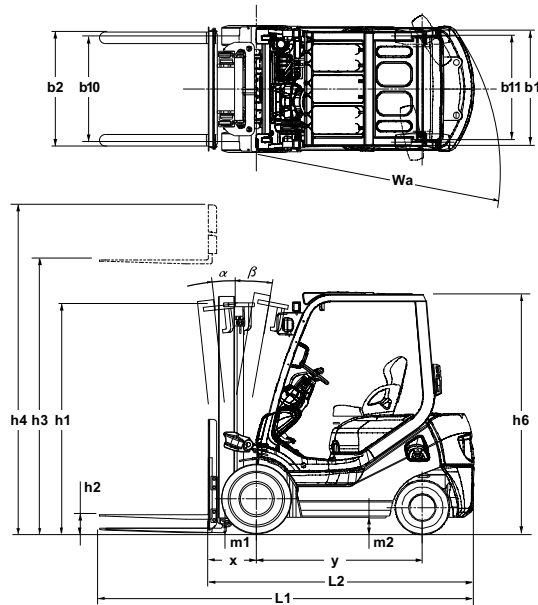
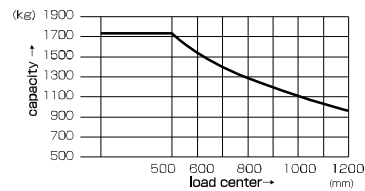
		Manufacturer's Designation	FG18HT-20	FG18HC-20			
Characteristics	1.2	Model	Electric, Diesel, Gasoline, LPG, Cable				
	1.3	Power Type	Gasoline				
	1.4	Operation Type	Sitting				
	1.5	Rated Capacity	Q	kg	1750		
	1.6	Load Center	c	mm	500		
	1.6.1	Alternative Capacity	Q2	Capacity @600mm Load Center	kg	1570	
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm	405	
	1.9	Wheelbase	y		mm	1400	
	Weight	2.1	Service Weight		kg	2645	2685
2.2		Axle Loading	Loaded	Front	kg	3870	3905
2.2.1				Rear	kg	525	530
2.3			Unloaded	Front	kg	960	995
2.3.1				Rear	kg	1685	1690
Tyre	3.1	Tyre Type	Pneumatic				
	3.2	Tyre Size	Front	6.50-10-10PR(I)			
	3.3		Rear	5.00- 8- 8PR(I)			
	3.5	Number of Wheels	Front/Rear(x=driven)		2*/2		
	3.6	Tread, Front	b10	mm	890		
	3.7	Tread, Rear	b11	mm	895		
	Dimensions	4.1	Tilting Angle	$\alpha/\beta$	Forward/Backward	degree	6/10
4.2		Mast Height, Lowered	h1	2-stage Std. Mast	mm	1995	
4.3		Std. Free Lift	h2	2-stage Std. Mast from Ground	mm	140	
4.4		Std. Lift Height	h3	2-stage Std. Mast from Ground	mm	3000	
4.5		Mast Height, Extended	h4	2-stage Std. Mast	mm	3955	
4.7		Height, Overhead Guard	h6		mm	2030	
4.19		Length, with Std. Forks	L 1		mm	3200	
4.20		Length, to Fork Face	L 2		mm	2280	
4.21		Width, at Tyre	b1	Single	mm	1070	
4.22		Forks	s/e//	Thickness/Width/Length	mm	35x100x920	
4.23		Fork Carriage Class	ISO 2328, Type A/B/no			Class 2, type A	
4.24		Width, Fork Carriage	b2		mm	970	
4.31		Ground Clearance	m1	Under Mast	mm	120	
4.32			m2	at Center of Wheelbase	mm	130	
4.33		Right Angle Stacking Aisle	Ast with L1000xW1200 pallet		mm	3395*	
4.34	Ast with L1200xW800 pallet		mm	3595*			
4.35	Turning Radius	Wa		mm	1990		
Performance	5.1	Travel Speed (FWD)	Loaded,1st/2nd	km/h	18.5	8.5/18.5	
			Unloaded,1st/2nd	km/h	19.0	9.0/19.0	
	5.2	Lifting Speed	Loaded	mm/s	590		
			Unloaded	mm/s	640		
	5.3	Lowering Speed	Loaded	mm/s	500		
			Unloaded	mm/s	550		
	5.6	Max. Drawbar Pull	Loaded, 1.5km/h, 3min rating	KN	15	14	
	5.8	Max. Gradeability	Loaded, 1.5km/h, 3min rating	%	33	32	
	5.10	Service Brake	Operation/Control		Foot/Hydraulic		
	5.11	Parking Brake	Operation/Control		Hand/Mechanical		
	5.12	Steering	Type		FHPS		
	6.4	Battery	Voltage/Capacity at 5-hour rating		V/ah	12/33	
I.C. Engine	7.1	Make / Model	NISSAN K21				
	7.2	Rated Output, SAE net	KW			34.6@2450	
	7.3	Rated RPM	min <sup>-1</sup>			2450	
	7.3.1	Max. Torque, SAE net	Nm@min <sup>-1</sup>			152@1600	
	7.4	No. of Cylinders/Displacement	cm <sup>3</sup>			4-2065	
	7.6	Fuel Tank Capacity	Ltr			40	
Others	8.2	Relief Pressure for Attachment	bar			172	
	8.6	Clutch	T/C		Dry		
	8.7	Transmission	TORQFLOW		Synchromesh		

\*: Add clearance

T/C: Torque Converter

FG18HT-20, FG18HC-20

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warning lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

**AX50 SERIES**

**● MAST SPECIFICATIONS**

**2-stage Free View Mast**

\*mark is the standard mast

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight	
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		500mm Load Center				
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG18-20, FD18-20, FG18H-20				
		mm	mm					mm	mm	kg		kg
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg		
2500	1745	3085	3455	140		6/10		1570	1750	1570	1750	-28
3000*	1995	3585	3955	140				1570	1750	1570	1750	385
3300	2145	3885	4255	140				1570	1750	1570	1750	+17
3500	2245	4085	4455	140				1570	1750	1570	1750	+28
3700	2345	4285	4655	140				1570	1750	1530	1700	+43
4000	2545	4585	4955	140		6/6	6/10	1570	1750	1480	1650	+83
4300	2695	4885	5255	140		6/6		1480	1650	1350	1500	+102
4500	2795	5085	5455	140				1480	1650	1350	1500	+113
4700	2920	5285	5655	140				1350	1500	1080	1200	+127
5000	3070	5585	5955	140				1350	1500	1030	1150	+144

**2-stage Full Free View Mast**

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight	
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		500mm Load Center				
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG18-20, FD18-20, FG18H-20				
		mm	mm					mm	mm	kg		kg
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg		
3000	1995	3595	3965	1435	1065	6/10		1570	1750	1570	1750	430
3300	2145	3895	4265	1585	1215			1570	1750	1570	1750	+20
3500	2245	4095	4465	1685	1315			1570	1750	1570	1750	+35
4000	2545	4595	4965	1985	1615	6/6	6/10	1570	1750	1480	1650	+95

**3-stage Full Free View Mast**

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight	
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		500mm Load Center				
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG18-20, FD18-20, FG18H-20				
		mm	mm					mm	mm	kg		kg
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg		
3700	1795	4315	4685	1235	865	6/6		1530	1700	1530	1700	-35
4000	1895	4615	4985	1335	965			1530	1700	1480	1650	-20
4300	1995	4915	5285	1435	1065			1480	1650	1350	1500	565
4500	2070	5115	5485	1510	1140			1440	1600	1260	1400	+15
4700	2145	5315	5685	1585	1215			1440	1600	1260	1400	+30
5000	2245	5615	5985	1685	1315			1390	1550	1030	1150	+50
5500	2420	6115	6485	1860	1490			1350	1500	760	850	+80
6000	2595	6615	6985	2035	1665			1030	1150	450	500	+140

\*Load capacity at 600mm load center reference only