

BX50 2.0-3.5ton
Series

Model: FG35AT-16

FD35AT-17

BX50 SERIES

● STANDARD SPECIFICATIONS

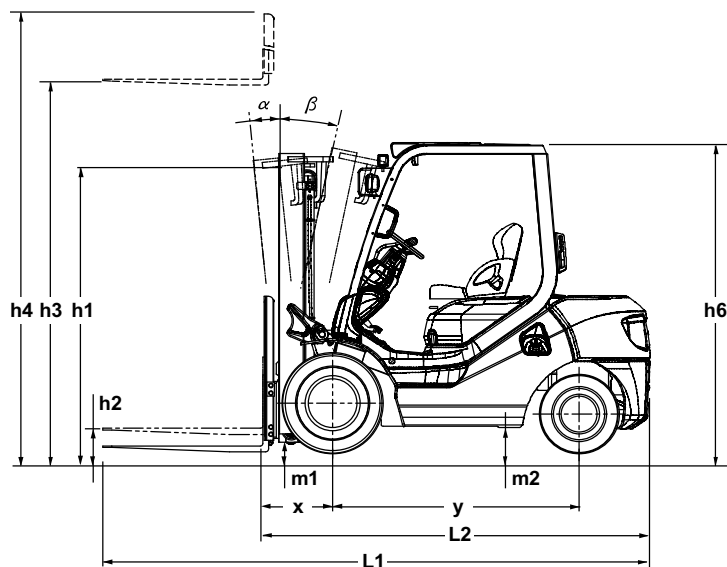
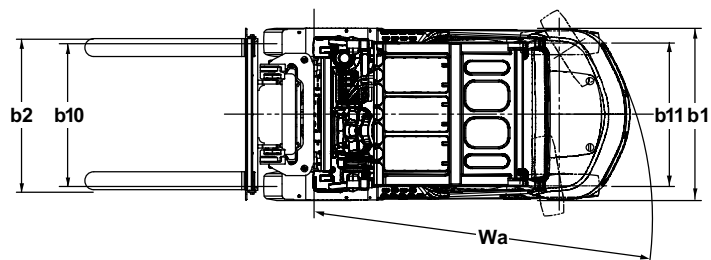
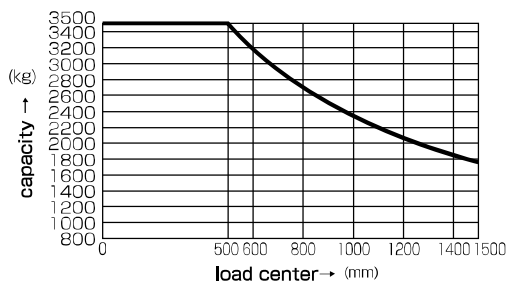
		Manufacturer's Designation		FG35AT-16	FD35AT-17				
Characteristics	1.2	Model		FG35AT-16	FD35AT-17				
	1.3	Power Type		Gasoline	Diesel				
	1.4	Operation Type		Sitting	Sitting				
	1.5	Rated Capacity	Q	kg	3500	3500			
	1.6	Load Center	c	mm	500	500			
	1.6.1	Alternative Capacity	Q ₂	Capacity @600mm Load Center	kg	3180	3180		
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm	505	505		
	1.9	Wheelbase	y		mm	1700	1700		
	Weight	2.1	Service Weight		kg	4910	4950		
2.2		Axle Loading	Loaded	Front	kg	7440	7430		
2.2.1				Rear	kg	970	1020		
2.3			Unloaded	Front	kg	1820	1810		
2.3.1		Rear		kg	3090	3140			
Tyre	3.1	Tyre Type		Pneumatic	Pneumatic				
	3.2	Tyre Size		Front	250-15-16PR(I)	250-15-16PR(I)			
	3.3			Rear	6.50-10-12PR(I)	6.50-10-12PR(I)			
	3.5	Number of Wheels		Front/Rear(x=driven)	2*/2	2*/2			
	3.6	Tread, Front	b ₁₀	mm	1060	1060			
	3.7	Tread, Rear	b ₁₁	mm	965	965			
	Dimensions	4.1	Tilting Angle	α/β	Forward/Backward	degree	6/12	6/12	
4.2		Mast Height, Lowered	h ₁	2-stage Std. Mast		mm	2100	2100	
4.3		Std. Free Lift	h ₂	2-stage Std. Mast from Ground		mm	145	145	
4.4		Std. Lift Height	h ₃	2-stage Std. Mast from Ground		mm	3000	3000	
4.5		Mast Height, Extended	h ₄	2-stage Std. Mast		mm	4280	4280	
4.7		Height, Overhead Guard	h ₆			mm	2105	2145	
4.19		Length, with Std. Forks	L ₁			mm	3865	3865	
4.20		Length, to Fork Face	L ₂			mm	2795	2795	
4.21		Width, at Tyre	b ₁	Single			mm	1290	1290
4.22		Forks	s/e/l/	Thickness/Width/Length		mm	50x150x1070	50x150x1070	
4.23		Fork Carriage Class	ISO 2328, Type A/B/no				Class 3, Type A	Class 3, Type A	
4.24		Width, Fork Carriage	b ₂			mm	1060	1060	
4.31		Ground Clearance	m ₁	Under Mast		mm	135	135	
4.32			m ₂	at Center of Wheelbase		mm	185	185	
4.33		Right Angle Stacking Aisle	A _{st}	with L1000xW1200 pallet		mm	4055*	4055*	
4.34	A _{st}		with L1200xW800 pallet		mm	4185*	4185*		
4.35	Turning Radius	W _a			mm	2480	2480		
Performance	5.1	Travel Speed (FWD)	Loaded, 1st/2nd	km/h	18.0	18.0			
			Unloaded, 1st/2nd	km/h	19.0	18.5			
	5.2	Lifting Speed	Loaded	mm/s	410	450			
			Unloaded	mm/s	450	490			
	5.3	Lowering Speed	Loaded	mm/s	400	420			
			Unloaded	mm/s	400	400			
	5.6	Max. Drawbar Pull	Loaded, 1.5km/h, 3min rating		KN	16	17		
	5.8	Max. Gradeability	Loaded, 1.5km/h, 3min rating		%	20	21		
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 K25	Komatsu 4D98E			
	7.2	Rated Output, SAE net		KW	42.6@2400	44.1@2450			
	7.3	Rated RPM		min ⁻¹	2400	2450			
	7.3.1	Max. Torque, SAE net		Nm@min ⁻¹	186@1600	183@1500			
	7.4	No. of Cylinders/Displacement		cm ³	4-2488	4-3318			
	7.6	Fuel Tank Capacity		Ltr	58	58			
Others	8.2	Relief Pressure for Attachment		bar	181	181			
	8.6	Clutch			T/C	T/C			
	8.7	Transmission			TORQFLOW	TORQFLOW			

*: Add clearance

T/C: Torque Converter

FG35AT-16, FD35AT-17

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Super Lift Hydraulic System
- 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

BX50 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		Capacity at 500mm Load Center			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG35A-16, FD35A-17			
		mm	mm					mm	mm		kg
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg	
2500	1865	3335	3785	140		6/12		3180 / 3500	3180 / 3500	-46	
3000*	2100	3835	4285	140				3180 / 3500	3180 / 3500	790	
3300	2265	4135	4585	140				3180 / 3500	3180 / 3500	+30	
3500	2365	4335	4785	140				3180 / 3500	3180 / 3500	+49	
3700	2465	4535	4985	140				3180 / 3500	3180 / 3500	+68	
4000	2665	4835	5285	140				3180 / 3500	3180 / 3500	+153	
4300	2815	5135	5585	140		6/6	6/12	3180 / 3500	3180 / 3500	+181	
4500	2915	5335	5785	140					3180 / 3500	3180 / 3500	+200
4700	3065	5535	5985	140					3090 / 3400	3000 / 3300	+229
5000	3215	5835	6285	140		6/6		3040 / 3350	3000 / 3300	+257	

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		Capacity at 500mm Load Center		
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG35A-16, FD35A-17		
		mm	mm					mm	mm	
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg
3700	1915	4560	5010	1145	695	6/6		3180 / 3500	3180 / 3500	-55
4000	2015	4860	5310	1245	795			3180 / 3500	3180 / 3500	-30
4300	2100	5160	5610	1330	880			3180 / 3500	3180 / 3500	1210
4500	2190	5360	5810	1420	970			3090 / 3400	3090 / 3400	+25
4700	2265	5560	6010	1495	1045			3090 / 3400	3040 / 3350	+45
5000	2365	5860	6310	1595	1145			3000 / 3300	3000 / 3300	+90
5500	2565	6360	6810	1795	1345			2860 / 3150	2360 / 2600	+145
6000	2765	6860	7310	1995	1545			2180 / 2400	1810 / 2000	+250

“Load capacity at 600mm load center reference only“