ISO 9001 Quality Management System (for Komatsu Forklift Tochigi Plant)



Certified by Lloyd's Register Quality Assurance Limited

For other options and attachments, please consult with your Komatsu dealer. Features and specifications may vary in different countries and regions. Please contact your Komatsu dealer to confirm machine details in your region. Forklift trucks in this catalog may be shown with optional equipment. Komatsu products and specifications are subject to change without notice. The performance values indicated herein represent nominal values obtained under typical operating conditions.

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KOMATSU 25

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KOMATSU FORKLIFT



AX50 Series DX50Series



Destined Evolution

For managers, operators and for the careful handling of cargo, what are the requirements of a forklift? The new AX50/BX50 Series was produced from Komatsu's careful research and development activities to address these concerns. Komatsu's exceptional hydraulic technology has been further developed to meet new performance goals and functional capabilities.

While maintaining its own superior durability and reliability, new functions have been integrated to optimize operational capabilities and increase safety and economical performances for various conditions. Everything from the unique lifting system, cockpit design, and the shape and design of the steering wheel, levers and body, are the fruit of a destined evolution.

Komatsu's concept of "having no equals" is integrated into each design to produce world class machine that is a comfortable for everyone on the operation site.

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Models

AX50 Series Gasoline Engine Lift trucks Diesel Engine Lift trucks 1.0t / 1.5t / 1.75t

BX50 Series

Gasoline Engine Lift trucks Diesel Engine Lift trucks 2.0t / 2.5t / 3.0t / 3.5t

■109 Series _____ 2.0t / 2.5t / 3.0t



Reduced operating costs

The AX50/BX50 Series pursues the concerns of most managers, regarding economical efficiency, durability and environmental safety. Komatsu's hydraulic system has been developed to decrease fuel consumption and maintain a superior heat balance, which improves operational comfort for heavy-duty conditions. Komatsu also provides a lineup of powerful and clean engines. Komatsu's traditional designs contribute to reducing operational costs. Based on these concepts, this newly developed machine is able to produce new profits.

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Dramatic Improvements to Fuel Consumption

The Super Lift Hydraulic System* rapidly lifts cargo even when the forklift is idling. Since acceleration is not longer necessary, fuel consumption has been significantly improved. The lift height can also be finely adjusted without abrupt shocks to the cargo or pallets, eliminating the risk of damage.

*The Super Lift Hydraulic System is available on the BX50 Series.



(FD25 compared with former model)

Specially Developed Engines

Each model employs a specially developed engine for the optimum balance of power and superior environmental performance. All engines are in compliance with the strict governmental exhaust gas restrictions of EPA Tier 2/ EU Stage II.

Engine specifications

KOMATSI

	(Class	Name	Rated Output	Displacemen			
				kw/rpm				
Gasoline engine		1.0t-1.75t	K15	27/2500	1486			
	Standard Models	2.0 t /2.5t	K21	35/2450	2065			
		3.0 t /3.5 t	K25	43/2400	2488			
	High	1.5 t /1.75 t	K21	35/2450	2065			
	Models	2.0 t /2.5 t	K25	43/2400	2488			
ne	100 CO.	1.0 t -1.75 t	4D92E	35/2450	2659			
Diesel engi	Standard Models	2.0 t -3.0 t	4D94LE	46/2450	3052			
		3.5 t	4D98E	53/2400	3318			
	High Performance Models	2.0 t -3.0 t	4D98E	53/2400	3318			



Three-Way Catalytic System for Gasoline and LPG trucks



The CPU-controlled closed system delivers optimum combustion and purifies the nitrogen oxide (NOx), hydrocarbons (HC), and carbon monoxide (CO) for cleaner exhaust emissions.

> *This option is not available for some models. Please contact Komatsu Forklift dealers.

Reduced Maintenance Costs

The AX50/BX50 Series features optimum lubrication intervals and simple maintenance for greater efficiency. The steering mechanism employs a full hydraulic system. Since there are no mechanical components, such as the drag link, replacement costs are reduced.

Komatsu Reliability

Komatsu's unique designs have further extended the life span of the truck. Both the new frame structure and changes to the mast improve durability. Improvement of the heat balance also enhances reliability during heavy operations. The meantime between failures (MTBF) has been extended by 40% plus.

Maintenance and repair costs are minimized by extensive testing and quality inspections under different operating environments.

Maintenance Service Life 40% Up

(Compared with former model

Exceptional Heat Balance

The bell-shaped shroud concentrates cooling air into the radiator. The unique shape of the counterweight opening and fan improves cooling performance by increasing the airflow of cooling air. Plus, the Super Lift Hydraulic System (BX50 Series) is designed to reduce oil pressure loss, which also prevents the oil temperature from overheating.

Environmental safety

Extra Low Noise Performance

Noise—even at high output levels—is kept to a minimum by the monolithic hood, cast iron hydraulic pump, and sealed dashboard and floor.



FD25T-Noise Level within

a 7 meter radius (under full acceleration)



FD25T·Noise Level at the operator's ears (under full acceleration)

Environmentally Safe Counterweight

Putty dust pollutants are eliminated since the counterweight is applied with a texture type paint. The BX50 Series provides slits in the counterweight for recycling purposes.

DPF (diesel particulate filter)



The DPF efficiently eliminates diesel particulate matter.

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Vibration-reduction design

In developing this new machine, Komatsu has carefully considered operators performing heavy-duty work. For example, to increase comfort the AX50/BX50 Series has integrated a power train floating structure in addition to the conventional suspension cab. As a result, traveling vibrations and vibrations from the driving system are significantly reduced.

Since the AX50/BX50 Series improve operating environments for staff to perform their work more comfortably, this may also contribute to increased work site productivity.

Dual 'Floating' Structure

Komatsu's original suspension cab design has evolved. The wide-set front mounts and high position rear mounts allow the entire cabin to float on the chassis.

The power train floats the engine and transmission on the frame, and a universal joint is used to reduce engine and motion vibrations on the front axle.

The combined technology of both of these Komatsu designed systems further reduce the vibrations transferred to the mast, fork, steering wheel and control lever, as well as the operator's seat. Therefore, ultimately improving operator comfort and cargo safety.

Power Train Floating

The power train floating structure cuts operator fatigue substantially, by limiting vibrations from the operation systems.



The suspension cab design reduces travel vibrations by 30%. compared with the



New Operator's Suspension Seat

The operator's seat is equipped with an all new suspension system and remodeled cushion and damper.

The improved seat design holds the operator's body firmly in place for greater comfort and less fatigue during extended operations.

- ■Six-step reclining backrest ■ 170 mm slide distance backward and forward
- ■Seat cushion adjustment dial ■The retractable seat belt





for fingertip control.



Wide Floor and Open, Non-Slip Step

The wide, flat floor accommodates the tilt cylinder under the floor. Suspended (type) pedals are used to provide extra foot space, which significantly reduces operator fatigue. The new wide-open, non-slip step and spoon-curved fender makes getting in and out easy and safe.



Consideration for Comfortable Operation

Komatsu's Research and Development team considers operators. Every aspect concerning an operator's comfort and ease of use have been thoroughly studied and implemented in each design. For instance, the control indicators and levers have been

Control levers designed ergonomically designed and arranged in accessible and visible locations.

Komatsu prides itself on developing products, which are designed to optimize both comfort and productivity.

Excellent lifting and travel performance

The lifting performance of Komatsu's machines also show their principle commitment to guality and innovation. The Super Lift Hydraulic System*, which uses the tandem type pump, is based on Komatsu's principle. The small-sized steering wheel and fully hydrostatic power steering mechanism provide flexible switchbacks. Consequently, operators are able to continuously perform lifting and traveling operations over longer *The Super Lift Hydraulic System is available on the BX50 Series. periods without increased fatigue or stress.



Superior Visibility

The mast rail section has been flattened and the inside width expanded for superior front visibility. With the lowered position of 3-stage mast center cylinder and the tilt stay, plus the inclined backrest, front visibility is improved, and blind spots are reduced. The BX50 Series also provides clear fork tip

The size and layout of the dashboard and meter panel

Small diameter steering wheel and fully hydrostatic power steering mechanism.

The small diameter steering wheel provides 100% stationary steering and switch backs. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces. Fluctuations during traveling have also been reduced by more than 30% to improve travel performance.

Steering wheel diameter 300mm

Safe Travel in Reverse

The upper corners of the counterweight are inclined to improve visibility. The edge of the counterweight, which is visible from the operator's seat, is designed to provide better visibility when confirming distances while reversing

The wide-angle center mirror provides a greater sight area for safer traveling.

Ingenious Shape

The new counterweight outlets are flow-directional, which are designed to prevent hot air from blowing onto the operator while reversing. The tail pipe has also been repositioned and is now located at the lowest point of the counterweight. This improves driver comfort and prevents stains that are caused by exhaust gas.

Operator Presence Sensoring System (Lifting/Traveling Interlocking Mechanism)

The Operator Presence Sensoring System is a safety option that only allows lifting operations while traveling, when the operator is seated. The alarm is activated once the operator leaves the seat. The interlock is a double safety measure and remains activated even when the operator returns to the seat. The interlock can only be released by returning the respective levers to a safe position.



The interlock state is also indicated on the meter pane

*The Super Lift Hydraulic System is available on the BX50 Series.

Super Lift Hydraulic System*

The tandem pump operates the power steering and the lifting equipment independently. Komatsu's hydraulic technology lifts the cargo at about double the lift speed of the previous model when idling. The truck also features fine adjustments for the fork position and superior operability of attachments when idling.



FD25 compared with for

Compact, superior lift capacity

The 109 Series (2.0t, 2.5t, 3.0t) has been born as the new BX Series with a body width of 1090 mm. This is a full-scale 1-ton model body with 2-ton class truck capabilities. With newly developed tyres, a superior lifting capacity is provided within its compact body. The mobility of the smaller sized truck significantly improves efficiency.



The compact overall width of 1090 mm means efficient use of limited space. The minimum turning radius of 2050 mm. (2.5t truck) means the truck can turn and move quickly, even in narrow spaces, and optimizes storage operations.

The Newly Developed SSCT (Soft and Stable Cushion Tyre)

The newly developed compact tyre is indispensable for reducing the size of the body. Pneumatic tyres have difficulty with stability and solid tyres transmit travel vibration to the

operator. So, we developed a new tyre with air holes on each side. The compact body delivers operator comfort and durability at the same time.



Optimum Height Lift Operations

The lifting residual capacity has been increased. The high rigidity mast is the same as that of the standard BX50 2-ton Series truck and includes newly developed tyres to improve truck stability during operations.

Optional Specification Truck

LPG Specification truck

Komatsu offers both single fuel (LPG) and dual fuel (LPG and Gasoline) systems for the LPG Specification truck. The truck has superior fuel consumption, the service life of the engine oil, filters, and plugs are extended, and the engine delivers clean combustion exhaust gases. Cold starts are possible even in temperatures as low as -5°C.



Dust Proof Specification

This truck is reliable for the handling of powdered products such as concrete, secondary products, ceramics and flour millings, or for operations in similar dusty conditions.

Options

Steel Cabin *

The steel cabin provides superior comfort and protection from severe cold or very noisy environments. Heaters and air conditioners are

Digital Load Checker Loads are measured and

also available

Protective Resin Head Guard Cover The resin cover resists stains and provides

protection from the rain.



displayed in 10 kg units

maintenance.

Engine and Operation Equipment

- •DPF (diesel particulate filter)
- Spark arrester
- Upward muffler
- Radiator screen
- •Large capacity alternator (for the diese truck only)
- Pre-cleaner

Attachments



Drum clamp*

Side shifter



The sunken counterweight specification truck with an expanded rear view area. By lowering the position of the LPG cylinder, installation and removal is easier, and permits a wider rear view

area for greater reversing safety. Swing-down Bracket (optional for the LPG truck) The LPG cylinder is easily installed and removed in a lower position with minima effort. In addition to the normal counterweight, this is also applicable for both the 2.5t and 3t trucks with sunken



Fishery Specification

counterweights.

Waterproofing, sealing, and anticorrosion coatings significantly improve the durability of the exterior, parts, and the brake system under salt-water conditions



Mast Tilt Angle Meter The pointer on the meter indicates the mast tilt

operations on inclined surfaces.

Operator Presence Sensoring System

Easy-Replacement Oil Filter

This simple design enables easier and timely

Exterior parts Tilt cylinder boots ●Three-Way Catalytic System ●Power steering cylinder boots for Gasoline and LPG Trucks Fuelcap with key Fire extinguisher

Electrical Equipment

- •Yellow strobe light Red strobe light Rear working light
- Eront working light Back-up chime

Meters and Gauges

- Torque converter oil temperature gauge
- Ammeter

angle. Once the mast reaches a preset angle,

lift, the Auto Stop Function stops the tilt

operation once the mast reaches the preset

the lamp will light. When there is no load on the

position. This is especially convenient for loading

- Speedometer (with alarm)
- •Mast tilt angle meter
- •Traveling speed limiter
- Fork positioning sensor

Tyres Color tyres

*except for the 109 Series



Although specifications are provided for attachments, some attachments cannot be installed on specific masts depending on their types. ●For details, please contact Komatsu Forklift's dealers.●Attachments with the * mark cannot be installed on the 109 Series

Major equipment

• : Standard \bigcirc : Option \bigcirc : Standard for BX50

	Vehicle type		Stondor	AX/BX	High performance model (H type)							
	Engine	Gas	Standar	a model Die	معد	Gasoline	Diesel	Gas	oline	Diesel		
	Equipment Transmission	Clutch	TOROFLOW	Clutch	TOROFLOW	TOROFLOW	TORQFLOW	Clutch	TOROFLOW	Clutch	TOROFLOW	
	Dual floating structure	•		•		•		•		•		
	New operator's seat with suspension	•	•	•	•	•	•	•	•	•	•	
	Small-sized steering wheel	•		•			•	•		•		
	Tiltable steering column	•	•	•	•	•	•	•	•	•	•	
Itio	Electric forward/reverse lever (TOBOELOW model)		•		•	•	•		•		•	
era	Double-cone synchronized clutch (clutch model)	•	-	•				•		•		
lo/6	Combination switch (turn signal light and light switch)	•	•	•	•	•	•	•		•	•	
vin	Indicator auto-return mechanism	•	•	•	•	•	•	•	•	•	•	
Dri	Full-open step	•	•	•	•	•	•	•	•	•	•	
	Under-floor tilt cylinder	•	•	•	•	•	•	•	•	•	•	
	Paper binder	•	•	•	•	•	•	•		•	•	
	Glove box	•	•	•	•	•	•	•	•	•	•	
_	Meter panel	•	•	•	•	•	•	•	•	•	•	
s	Hourmeter	•		•	•	•		•		•	•	
eter	Engine water temperature gauge	•		•	•	•		•		•	•	
Ň	Torque converter oil temperature gauge		0		0	0	0		0		0	
	Fuel gauge			•								
	Engine oil pressure warning lamp	•	•	•	•	•		•		•	•	
	Charge warning lamp	•	•	•	•	•		•		•	•	
ors	Air cleaner element warning lamp	0	0	0	0	0	0	0	0	0	0	
cat	Fuel level warning lamp	0	0	0	0	0	0	0	0	0	0	
indi	Radiator cooling water level warning lamp	0	0	0	0	0	0	0	0	0	0	
ety	Battery electrolyte level warning lamp	0	0	0	0	0	0	0	0	0	0	
Saf	Neutral indicator	•		•				\bullet		•	•	
	Sedimenter warning lamp			•	•					•	•	
	Glow indicator			•	•					•		
	Full-transistor-type IC distributor	•				•		•				
	Alternator with built-in IC regulator	•		•	•	•	•	•		•	•	
ents	Quick auto glow system			•			•			•		
one	Neutral safety mechanism	•		•	•	•		•		•	•	
dmc	Auto fuse	•		•	•	•		•		•	•	
ic co	Low maintenance battery			•			•	•		•	•	
ectri	Engine key stop mechanism			•			•			•	•	
Ē	Halogen headlight	•		•		•		•		•		
	Rear combination light	•	•	•	•	•	•	•		•		
	Back-up buzzer			•		•		•		•		
	Operator Presence Sensoring System	0	0	0	0	0	0	0	0	0	0	
	Auto choke							•				
	Super lift hydraulic system	0	0	0	0	0	0	0	0	0	0	
	Self-adjustment clutch	•		•						•		
ism	Sealmentary with priming pump	-		•				-		•		
han	Cyclone air cleaner			•				•		•		
Vlec	Farking brake with release button			•				•		•		
-	Fully hydrostatic power steering							•				
	Non ashestos brake linings											
	Non-asbestos clutch disk		•		•		•		•			
	Fasy replacement hydraulic oil filter			0	0	0	0	0		0		
	Eloor mat											
	Assist grips			•						•		
	Head guard with front/rear conduits	•		•	•	•	•	•		•		
	Wide angle center mirror	•		•	•	•		•		•		
	Full shield solid-state engine hood	•		•	•	•	•	•		•	•	
r	One-touch open floor panel	•	•	•	•	•	•	•	•	•	•	
eric	One-touch removable radiator cover	•	•	•	•	•	•	•	•	ė	•	
Ext	Engine hood stopper	•	•	•	•	•	•	•	•	•	•	
	Engine hood lock	•	•	•	•	•	•	•	•	•	•	
	Radiator reservoir tank	•	•	•	•	•	•	•	•	•	•	
	Wide fork carriage	•	•	•	•	•		•		•	•	
	Resin dashboard cover	•	•	•	•	•	•	•		•	•	
	Jacking points	•	•	•	•	•	•	•		•	•	

		1.2	Model	Manı	ifacturer's Des	signation		FG10-20	FD10-20	EG15-20	FD15-20	EG15H-20	FG18-20	FD18-20	FG18H-20
aracteristics	ŀ							TOROFLOW[Clutch]	TOROFLOW[Clutch]	TOROFLOW[Clutch]	TOROFLOW[Clutch]	TOROFLOW[Clutch]	TOBOFLOW[Clutch]	TOBOFLOW[Clutch]	TOROFLOWIClutch
	'n	13	Power Type	Electric Diesel Gasoline LPG			Cable	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Gasoline	Diesel	Gasoline
	stic	1.0	Operation Type	21000				Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting
	teri	15	Bated Canacity	0	0			1000	1000	1500	1500	1500	1750	1750	1750
	Irac	1.6	Load Center	<u>c</u>			mm	500	500	500	500	500	500	500	500
	۔ ق	1.6 1	Alternative Canacity	02	Canacity@600mr	n Load Center	ka	910	910	1360	1360	1360	1590	1590	1590
	ŀ	1.0.1	Load Distance	- U2 - V	Eront Ayle Contor	r to Fork Face	ng mm	400	400	405	405	405	405	405	405
	ŀ	1.0	Wheelbase	<u>^</u>	TION AXIE CENTER	TUTURIACE	mm	1400	400	1400	1400	1400	405	405	1400
-		2.1	Complete Mainha	У	I		ka	2080[2095]	2180[2195]	2450[2465]	2550(2565)	2450[2465]	2645[2660]	2745[2760]	2645[2660]
		2.1	Service weight			Front	ka	2725[2735]	2760[2765]	3500[3510]	3530[3540]	3500[3510]	3870[3880]	3900[3910]	3870[3880]
	lg	2.2		Loade	ed	Roar	kg	2725[2755]	420[420]	450[455]	520[525]	450[455]	525(520)	595(600)	525(520)
	Ne l	2.2.1	Axle Loading			Front	kg	1065[1075]	1095[1105]	1005[1015]	1025[1045]	1005[1015]	960(970)	990[1000]	960[970]
		231		Unloa	ded	Rear	ka	1015[1020]	1035[11090]	1445[1450]	1515[1520]	1445[1450]	1685[1690]	1755[1760]	1685[1690]
-	_	3.1	Tyre Type			near	Ng	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
		3.2	Tyre Type	Front	+			6 50-10-10PB(I)	6 50-10-10PB(I)	6 50-10-10PB(I)	6 50-10-10PB(I)	6 50-10-10PB(I)	6 50-10-10PB(I)	6 50-10-10PB(I)	6 50-10-10PB(I)
	s	3.2	Tyre Size	Rear				5.00- 8- 8PB(I)	5.00-8-8PB/I)	5.00- 8- 8PB(I)	5.00-8-8PB(I)	5.00- 8- 8PB(I)	5.00- 8- 8PB(I)	5.00-8-8PB(I)	5.00- 8- 8PB(I)
	اڭ	3.5	Number of Wheels	Front	Bear (x-driver			2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2
		3.6	Tread, Front	b4		17 17	mm	890	890	890	890	890	890	890	890
	ŀ	37	Tread, Rear	b3			mm	895	895	895	895	895	895	895	895
-		41	Tilting Angle	US a/B Forward/Pag		kward	degree	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
	ŀ	4.2	Mast Height Lowered	h1	2-stage Mar	st	mm	1995	1995	1995	1995	1995	1995	1995	1995
	-	13	Std Eroo Lift	h2 2-stage Std I		age Mast from Ground		1355	1355	140	140	1995	140	140	140
	ŀ	1.0	Std. Lift Hoight	h3	h3 2-stage Std. Mast, from Ground h4 2-stage Std. Mast h6		mm	3000	3000	3000	3000	2000	3000	3000	3000
	ŀ	4.5	Most Height Extended	h4			mm	3955	3955	3955	3955	3955	3955	3955	3955
	ŀ	4.7	Height Overhead Guard	h6			mm	2030	2030	2030	2030	2030	2030	2030	2030
	ŀ	4 19	Length with Std Forks	h with Std Forke 11		mm	2965	2965	3160	3160	3160	3200	3200	3200	
	Suc	4 20	Length, with Std. Fork Face	12	L2		mm	2195	2195	2240	2240	2240	2280	2280	2280
	lisi	4 21	Width at Tyre	 b1	Single			1070	1070	1070	1070	1070	1070	1070	1070
	e l	4 22	Forks	s/e/l	Thickness x Wi	dth x l enath	mm	31x100x770	31x100x770	35x100x920	35x100x920	35x100x920	35x100x920	35x100x920	35x100x920
		4 23	Fork Carriage Class ISO 2328, Type A/B/no			Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2		
	ŀ	4 24	Width Fork Carriage	h2		,110	mm	970	970	970	970	970	970	970	970
	ŀ	4.31	Width, Fork Ournage	m1 Under Mast		mm	120	120	120	120	120	120	120	120	
	ŀ	4.32	Ground Clearance	m2	m2 at Center of Wheelbase		mm	130	130	130	130	130	130	130	130
	ŀ	4.33	Right Angle	Ast	with L1000 x W	/1200 pallet	mm	3315	3315	3360	3360	3360	3395	3395	3395
	ŀ	4.34	Stacking Aisle	Ast	with L1200 x W	/800 pallet	mm	3515	3515	3560	3560	3560	3595	3595	3595
	ŀ	4.35	Turning Badius	Wa			mm	1915	1915	1955	1955	1955	1990	1990	1990
		5.1		Load	ed, 1st/2nd		km/h	19.0[9.0/19.0]	19.0[8.5/19.0]	18.5[8.5/18.5]	18.5[8.5/19.0]	18.5[8.5/18.5]	18.5[8.5/18.5]	18.5[8.5/18.5]	18.5[8.5/18.5]
			Travel Speed (FWD)	Linloaded 1st/2nd			km/h	19.0[9.0/19.0]	19.5[8.5/19.5]	19.0[9.0/19.0]	19.0[8.5/19.5]	19.0[9.0/19.0]	19.0[9.0/19.0]	19.0[8.5/19.0]	19.0[9.0/19.0]
		5.2		Loaded			mm/s	580	620	570	620	590	570	620	590
	_		Lifting Speed	Unlo	aded		mm/s	640	670	640	670	640	640	670	640
	ů,	5.3		Load	ed		mm/s	500	500	500	500	500	500	500	500
	Ĕ		Lowering Speed	Unlo	Unloaded			550	550	550	550	550	550	550	550
	f l	5.6	Max. Drawbar Pull	Load	ed		KN	10[11]	13[14]	10[11]	13[14]	15[14]	10[11]	13[14]	15[14]
	۳,	5.8	Max. Gradeability	Load	ed		%	34[38]	49[41]	26[27]	33[31]	37[35]	25[24]	29[28]	33[32]
		5.10	Service Brake	Oper	ation/Control			Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
		5.11	Parking Brake	Oper	ation/Control			Hand/Mechanica	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanica	Hand/Mechanical	Hand/Mechanical	Hand/Mechanica
		5.12	Steering	Туре				FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS
		6.4	Battery	Voltad	ge/ Capacity at 5-	hour rating	V/ah	12/33	12/64	12/33	12/64	12/33	12/33	12/64	12/33
		7.1	, Maker Model					NISSAN K15	Komatsu 4D92E	NISSAN K15	Komatsu 4D92E	NISSAN K21	NISSAN K15	Komatsu 4D92E	NISSAN K21
	e	7.2	Rated Output, SAE gross				КW	27@2500	35@2450	27@2500	35@2450	35@2450	27@2500	35@2450	35@2450
	Eng	7.3	Rated RPM				min-1	2500	2450	2500	2450	2450	2500	2450	2450
	с I	7.3.1	Max. Torque, SAE gross			Nm•min•1	113@1600	142@1800	113@1600	142@1800	152@1600	113@1600	142@1800	152@1600	
	-	7.4	No. of Cylinders/Displacement				cm ³	4-1486	4-2659	4-1486	4-2659	4-2065	4-1486	4-2659	4-2065
	ç	7.6	Fuel Tank Capacity				Ltr	40	40	40	40	40	40	40	40
	her	8.2	2 Relief Pressure for Attachment				bar	172	172	172	172	172	172	172	172
	δ	8.7	Transmission					TORQFLOW[Manual]] TORQFLOW[Manual] TORQFLOW[Manual]					
_	_														



Load capacity curve

Model **1**.0t

1900	_	_
1000		
1700		
1500		
1300		
1100		
900		
700		
/00		
500		
	1900 1700 1500 1300 1100 900 700 500	1900

Model 1.5t

(ka) 1000

(128)	1000		Г
	1700		_
t	1500		
Ϊζ	1300		
bac	1100	_	-
S	900		_
	700		_
	500		





BX50 Series Specifications

		51100																						
1.2	Model		Manuf	acturer's Designation	_	FG20-16	FD20-16	FG20H-16	FD20H-16	FG25-16	FD25-16	FG25H-16	FD25H-16	FG30-16	FD30-16	FD30H-16	FG35AT-16	FD35AT-16	FG20NT-16	FD20NT-16	FG25NT-16	FD25NT-16	FG30NT-16	FD30NT-16
						TORQFLOW[Clutcl	h] TORQFLOW[Clutcl	h] TORQFLOW	TORQFLOW[Clutch	h] TORQFLOW[Clute	h] TORQFLOW[Clute	h] TOROFLOW	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TOROFLOW	TOROFLOW	TOROFLOW	TOROFLOW	TOROFLOW	TOROFLOW	TOROFLOW	TOROFLOW
. <u>S</u> 1.3	Power Type	e	Electric	c, Diesel, Gasoline, LPG	i, Cable	Gasoline	Diese	Gasoline	Diese	Gasoline	Diesel	Gasoline	Diese	Gasoline	Diese	Diesel	Gasoline	Diesel	Gasoline	Diese	Gasoline	Diesel	Gasoline	Diese
. <u>5</u> 1.4	Operation 7	Туре				Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting
1 .5	Rated Capa	acity	Q	Rated Capacity	kg	2000	2000	2000	2000	2500	2500	2500	2500	3000	3000	3000	3500	3500	2000	2000	2500	2500	3000	3000
a.1	Load Cente	er	с	Rated Load Center	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
ວັ _{1.6.}	1 Alternative	Capacity	Q2	Capacity@600mm Load Cent	er kg	1810	1810	1810	1810	2270	2270	2270	2270	2720	2720	2720	3180	3180	1810	1810	2270	2270	2720	2720
18	Load Distar	nce	x	Front Axle Center to Fork Fac	e mm	460	460	460	460	465	465	465	465	490	490	490	505	505	430	430	435	435	440	440
1.0	Wheelbase		N N			1650	1650	1650	1650	1650	1650	1650	1650	1700	1700	1700	1700	1700	1400	1400	1400	1400	1450	1450
2.1	Q : M	, 	у		ka	2020(2220)	2210[2220]	2220	2210[2220]	2500(2600)	2690[2700]	2500	2690[2700]	4210[4220]	4210[4220]	4210[4220]	4010	F010	2220	2220	2620	2720	4070	1430
2.1	Service we	eight			Ng	3220[3230]	4700[4700]	3220	4700[4720]	5330[5000]	5080[5700]	5330	5000[5700]	4210[4230]	4310[4320]	4310[4320]	4910	3010	3230	4020	5050	5730	4070	4170
2.2 ght	_		Loaded	Front	Kg	46/0[4680]	4/00[4/20]	4670	4/00[4/20]	5420[5430]	5460[5470]	5420	5460[5470]	6390[6400]	6430[6440]	6430[6440]	/440	/480	4600	4630	5350	5380	6250	6240
.ie 2.2.	Axle Loadir	ng -		Kear	kg	550[550]	610[610]	550	610[610]	670[670]	/20[/30]	670	/20[/30]	820[830]	880[880]	880[880]	970	1030	630	/00	/80	850	820	930
2.3	_		Unload	ed Front	kg	1480[1480]	1510[1520]	1480	1510[1520]	1430[1430]	1460[1470]	1430	1460[1470]	1600[1610]	1640[1650]	1640[1650]	1820	1860	1250	1280	1140	1170	1260	1250
2.3.	1			Rear	kg	1740[1750]	1800[1810]	1740	1800[1810]	2160[2170]	2220[2230]	2160	2220[2230]	2610[2620]	2670[2670]	2670[2670]	3090	3150	1980	2050	2490	2560	2810	2920
3.1	Tyre Type					Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
3.2	Tyre Size		Front			7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)) 7.00-12-12PR(I	7.00-12-12PR() 7.00-12-12PR(I	7.00-12-12PR(I)	28x9-15-12PR(I)	28x9-15-12PR(I)	28x9-15-12PR(I)	250-15-16PR(I)	250-15-16PR(I)	22 1/4x7 1/2-15/5.5	50 22 1/4x7 1/2-15/5.5	0 22 1/4x7 1/2-15/5.5	0 22 1/4x7 1/2-15/5.50	22 1/4x7 1/2-15/5.5	0 22 1/4x7 1/2-15/5.50
8 3.3			Rear			6.00-09-10PR() 6.00-09-10PR() 6.00-09-10PR(I)	6.00-09-10PR(I)) 6.00-09-10PR() 6.00-09-10PR(I) 6.00-09-10PR(I)	6.00-09-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-12PR(I)	6.50-10-12PR(I)	17 3/4x6 1/2 -10/5.	00 17 3/4x6 1/2 -10/5.0	00 17 3/4x6 1/2 -10/5.	00 17 3/4x6 1/2 -10/5.0	0 17 3/4x6 1/2 -10/5.0	00 17 3/4x6 1/2 -10/5.00
₽ 3.5	Number of	Wheels	Front/F	Rear (x=driven)		2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2
3.6	Tread, Fron	nt	b4		mm	965	965	965	965	965	965	965	965	1005	1005	1005	1060	1060	900	900	900	900	900	900
3.7	Tread, Rear	r	b3		mm	960	960	960	960	960	960	960	960	965	965	965	965	965	885	885	885	885	885	885
4 1	Tilting Ang	مار	alB	Forward/Backward	degree	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/10	6/10	6/10	6/10	6/10	6/10
4.1	Most Hoight	Loword	h1	2-stage Mast	mm	1995	1995	1995	1995	1995	1995	1995	1995	2070	2070	2070	2100	2100	1995	1995	1995	1995	2070	2070
4.2	Std Ereal	:4	h2	2 stage Mast	d mm	1555	1505	1555	1555	1555	1555	1555	1555	160	160	160	145	145	1555	1505	1555	1555	160	160
4.5	Std. Free Li	.m.	h2	2-stage Std. Mast, from Groun	d mm	150	150	150	150	100	100	100	100	100	100	100	145	145	150	150	100	100	100	100
4.4	Std. Lift He	eight	113	2-stage Std. Mast, from Groun	a mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
4.5	Mast Height,	, Extended	n4	2-stage Std. Mast	mm	4050	4050	4050	4050	4050	4050	4050	4050	4275	4275	4275	4280	4280	4050	4050	4050	4050	4275	4275
4.7	Height, Overh	nead Guard	h6		mm	2070	2070	2070	2070	2070	2070	2070	2070	2090	2090	2090	2105	2105	2025	2025	2025	2025	2025	2025
<u>v</u> 4.19	Length, with	Std. Forks	L1		mm	3450	3450	3450	3450	3655	3655	3655	3655	3775	3775	3775	3865	3865	3260	3260	3475	3475	3535	3535
.0 4.20	Length, to F	Fork Face	L2		mm	2530	2530	2530	2530	2585	2585	2585	2585	2705	2705	2705	2795	2795	2340	2340	2405	2405	2465	2465
4. 21	Width, at T	yre	b1	Single	mm	1150	1150	1150	1150	1150	1150	1150	1150	1235	1235	1235	1290	1290	1090	1090	1090	1090	1090	1090
.E 4.22	Forks		s/e/l	Thickness x Width x Lengt	h mm	36x122x920	36x122x920	36x122x920	36x122x920	40x122x1070	40x122x1070	40x122x1070	40x122x1070	44x122x1070	44x122x1070	44x122x1070	50x150x1070	50x150x1070	36x122x920	36x122x920	40x122x1070	40x122x1070	44x122x1070	44x122x1070
4.23	Fork Carria	ge Class	ISO 23	28, Type A/B/no		Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 3	Class 3	Class 3	Class 3	Class 3	Class 2	Class 2	Class 2	Class 2	Class 3	Class 3
4.24	Width, Fork	Carriage	b2		mm	1020	1020	1020	1020	1020	1020	1020	1020	1060	1060	1060	1060	1060	960	960	960	960	940	940
4.31			m1	Under Mast	mm	115	115	115	115	115	115	115	115	135	135	135	135	135	105	105	105	105	105	105
4.32	Ground Cle	earance	m2	at Center of Wheelbase	mm	160	160	160	160	160	160	160	160	185	185	185	185	185	115	115	115	115	115	115
4 33	Pight Angle		Ast	with I 1000 x W1200 pallet	mm	3650	3650	3650	3650	3775	3775	3775	3775	3930	3930	3930	4055	4055	3410	3/10	3555	3555	3620	3620
4.00	Stacking Aig	isle	Aet	with L1000 x W/200 pallet	mm	2950	2950	2950	2950	2005	2005	3005	2005	4060	4060	4060	4000	4195	3610	3410	2695	2695	2750	3020
4.0	Turing	at	14/0	with E1200 X Wood panet		3830	3850	3850	2100	3305	3305	3305	2240	4000	4000	4000	4105	4185	1090	1000	2050	2050	3750	2110
4.30	Turning Ra	aaius	vva	1 4 1/0 1	IIIIII	2190	2190	2190	2190	2240	2240	2240	2240	2370	2370	2370	2480	2480	1980	1980	2050	2050	2110	2110
5.1	Travel Spee	ed (FWD)	Loade	a, ist/2na	Km/n	18.5[8.5/18.5]	18.5[8.5/18.5]	19.0	18.5[8.0/18.5]	18.5[8.5/18.5]	18.5[8.5/18.5]	19.0	18.5[8.0/18.5]	18.5[8.5/18.5]	19.0[8.5/18.5]	18.5[8.0/18.5]	18.0	18.0	17.0	17.0	16.5	16.5	16.0	16.0
			Unloaded, 1st/2nd		km/h	19.0[9.0/19.0]	19.0[8.5/19.0]	19.5	19.0[8.5/19.0]	19.0[9.0/19.0]	19.0[8.5/19.0]	19.5	19.0[8.5/19.0]	19.5[9.0/19.5]	19.5[9.0/19.0]	19.0[8.5/19.0]	19.0	19.0	16.5	16.5	16.5	16.5	16.0	16.0
5.2	Lifting Spee	ed	Loade	d	mm/s	545	630	620	660	545	630	620	660	450	520	550	410	450	545	630	545	630	515	520
8			Unloa	ded	mm/s	600	685	670	710	600	685	670	710	500	555	595	450	490	600	685	600	685	550	555
u 5.3	Lowering S	Speed	Loade	d	mm/s	450	450	450	450	450	450	450	450	400	420	420	400	420	450	450	450	450	420	420
			Unloa	ded	mm/s	500	500	500	500	500	500	500	500	500	500	500	400	400	500	500	500	500	500	500
5.6	Max. Drawl	bar Pull	Loade	d	KN	14[14]	18[17]	19	22[21]	14[14]	18[17]	19	22[21]	18[18]	18[17]	21[21]	16	20	14	17	14	17	16	16
- 5.8	Max. Grade	eability	Loade	d	%	28[27]	36[34]	38	45[44]	23[22]	31[29]	32	37[37]	26[25]	25[23]	30[30]	20	26	27	34	23	29	24	24
5.10	Service Bra	ake	Opera	tion/Control		Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulio	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
5.11	Parking Bra	ake	Opera	tion/Control		Hand/Mechanica	Hand/Mechanica	Hand/Mechanica	Hand/Mechanica	Hand/Mechanica	Hand/Mechanic	al Hand/Mechanica	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanica	al Hand/Mechanical	Hand/Mechanical	Hand/Mechanica	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical
5.12	Steering		Type			FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS
6.4	Battery		Voltage	Capacity at 5-hour rating	u V/ah	12/33	12/64	12/33	12/64	12/33	12/64	12/33	12/64	12/33	12/64	12/64	12/33	12/64	12/33	12/64	12/33	12/64	12/33	12/64
7 1	Maker Mod	tel	Tontago	, oupdoirt at o nour rating	, 17an	NISSAN K21	Komateu 4D94LE	NISSAN K25	Komateu 4D98E	NISSAN K21	Komateu 4D94I	E NISSAN K25	Komateu (D98E	NISSAN K25	Komatsu 4D94LE	Komateu 4D98E	NISSAN K25	Komateu 4D98E	NISSAN K21	Komateu 4D94LE	NISSAN K21	Komateu 4D94LE	NISSAN K25	Komateu 4D94LE
e 7.1	Bated Output	SAF gross			KM	35@2450	46@2450	43@2400	53@2400	35@2450	46@2450	43@2400	53@2400	13@2400	46@24E0	53@2400	43@2400	53@2400	35@2450	16@2450	35@2450	16@2450	43@2400	16@2150
il 7.2	Rated RPM	, one gross			min f	2450	40@2450	43@2400	33@2400	33@2450	40@2450	43@2400	2400	43@2400	2450	2400	43@2400	2400	33@2450	40@2450	35@2450	40@2450	+3@2+00	40@2400
ш /.3 С	May Trees	CAE and			min-1	2450	2450	2400	2400	2450	2450	2400	2400	2400	2450	2400	2400	2400	2450	2450	2450	2450	2400	2450
- /.3.	New Colline	SAE gross			NM·min·1	152@1600	186@1800	186@1600	216@1/00	152@1600	186@1800	186@1600	216@1/00	186@1600	186@1800	216@1/00	186@1600	216@1/00	152@1600	186@1800	152@1600	186@1800	186@1600	186@1800
7.4	No. of Cylinders/I	Uisplacement			Cm ³	4-2065	4-3052	4-2488	4-3318	4-2065	4-3052	4-2488	4-3318	4-2488	4-3052	4-3318	4-2488	4-3318	4-2065	4-3052	4-2065	4-3052	4-2488	4-3052
<u>s</u> 7.6	Fuel Tank C	Capacity			Ltr	58	58	58	58	58	58	58	58	58	58	58	58	58	40	40	40	40	40	40
8.2	Relief Pressure fo	or Attachment			bar	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181
O 8.7	Transmissi	ion				TORQFLOW[Manu	al) TORQFLOW[Manu	al) TORQFLOW	TORQFLOW[Manu	al] TORQFLOW[Manu	al] TORQFLOW[Manu	al] TOROFLOW	TORQFLOW[Manual]	TORQFLOW[Manual]	TORQFLOW[Manual]	TORQFLOW[Manual]	TOROFLOW	TOROFLOW	TOROFLOW	TOROFLOW	TORQFLOW	TOROFLOW	TOROFLOW	TOROFLOW







Load capacity curve







109 Series

1.2

4.5









Load capacity curve





