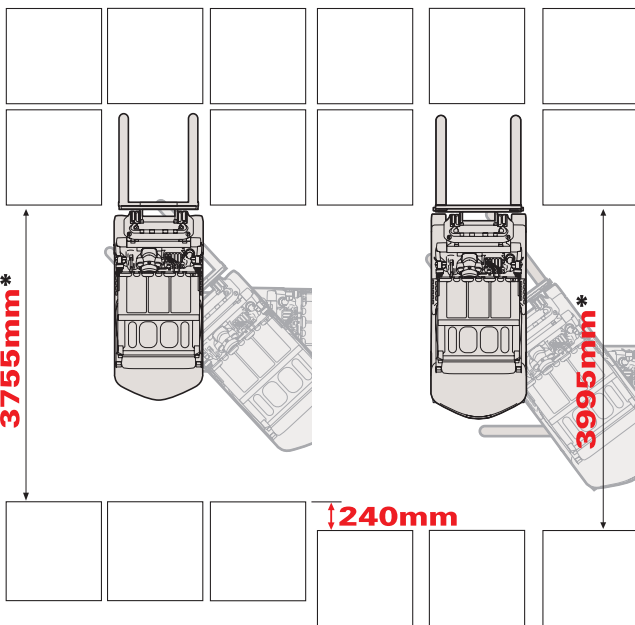


109 Compact 2.5 ton

Standard 2.5 ton



*2.5t truck include 200mm clearance.

BX50 109 COMPACT SERIES

2.0 TO 3.0 TON



Width of 109 cm



Swing Down LPG Bracket



Agility, Comfort and Productivity

Komatsu Forklift completes its range of 2.0 to 3.0 tonne-capacity LPG Diesel trucks with the compact BX50 Series, defined "109" due to the width b1 of 109 centimetres.

The characteristic counterbalance equipped with Solid Cushion tyres guarantees a lifting capacity equal to the traditional BX50 range but with turning radius comparable with those of the AX50 range: the warehouse footprint surface is increased by reducing the aisle size and the distance between pallets.

The BX50 109 provides high comfort levels due to vibration being absorbed by the dual-floating structure with silent block and OSS dampened seat. This comfort is noticeable even on uneven surfaces - an application that solid cushion tyre models historically resulted in poor operator comfort.

The operating compartment is extremely characterised by a wide entrance and ample adjustment available for the seat and steering column. The SLHS hydraulic system with double hydraulic pump has a flow dedicated to the hydraulics and another to the completely hydraulic KAPSIII steering system. The KAPS III steering system is extremely light, equipped with a synchronisation system between the steering wheel position and the angle of the wheels. This prevents the phenomena of hydraulic drift and oscillating speed typical of standard trucks on the market without the SLHS system. The result is precise and secure steering over long distances as well as within the confined areas in the warehouse warehouses.

The renowned quality and reliability of Komatsu are represented in the revolutionary new 1500kg to 3500kg IC engine range Komatsu has developed:

- a revolutionary transmission with cardan joint in aluminium alloy. The

result is improved heat dissipation supported by a modernised cooling system with heavy duty radiator for transmission oil circuit;

- the latest generation electrical system with water-proof connectors and centralised fuse boxes coupled with bonnet design prevents water stagnation;
- solid and powerful engines (4D94LE and K21/K25) protected by a cyclonic filter;
- a reinforced OSS operator's seat.

In advance of the European legislation, the 109 series satisfies the ISO3691 safety requirements. The 109 series is equipped with a man-on-board sensor which blocks all hydraulic actuations and disconnects the transmission when the operator dismounts from the truck. Also an alarm signal is activated if the parking brake is not applied.

The new transmission with torque converter and independent front axle guarantees smooth couplings and rapid changes of direction with substantial yet progressive accelerations. Approaching loads occurs without jerks. The direction levers and (standard) halogen light system control levers is now nearer the steering wheel, ensuring rapid access.

LPG models have available the "Swing Down Bracket" cylinder support which ensures the replacement of the LPG container effortlessly and in maximum safety.

A wide range of options responding to European markets needs are available on request. Contact your nearest Komatsu Forklift distributor. You will receive expert advice recommending the best solution for you.

Please visit the web site www.komatsuforklift.net. Here you will find the entire Komatsu Forklift range If you register, you can be informed of new developments as well as have access to privileged information.

KOMATSU

Part Number. PKS1022EN
Form. No. BX50(109)-S-E-P-2/06

This brochure may contain equipment that are not available in your area. Please consult your Komatsu Forklift distributor for those items you may require. Materials and specifications are subject to change without notice.

Printed in Italy

BX50 109 COMPACT SERIES

2.0 TO 3.0 TON



Gasoline and Diesel Engine Lift Trucks

- Total truck width of 1090mm with a capacity of 2 to 3 tonnes in order to maximise warehouse space by working between compact rows of pallets
- Reduced aisles width and record turning radius for agile movement
- Operator's comfort guaranteed even on rough surfaces and loading yards thanks to the standard OSS damped comfort seat and dual floating structure that filters vibrations transmitted from the solid cushion tyres
- Safety system ahead of its time thanks to the ISO: 3691 system with "operator-on-board sensor" and hydraulic block against accidental use
- Spacious and ergonomic operator compartment
- LPG cylinder replacement facilitated thanks to the "Swing Down Bracket" system

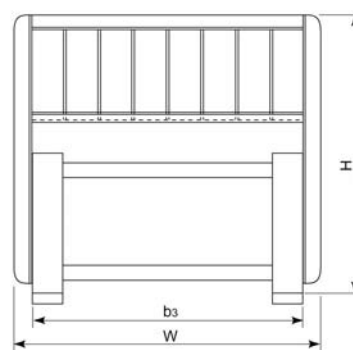
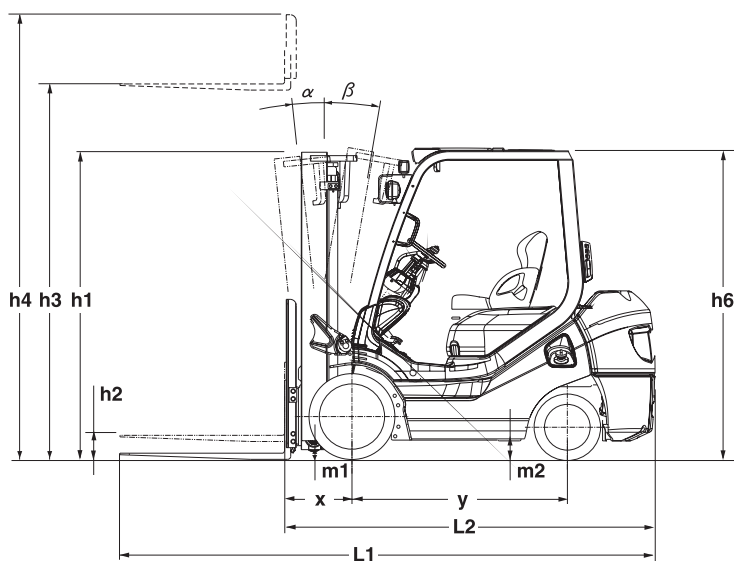
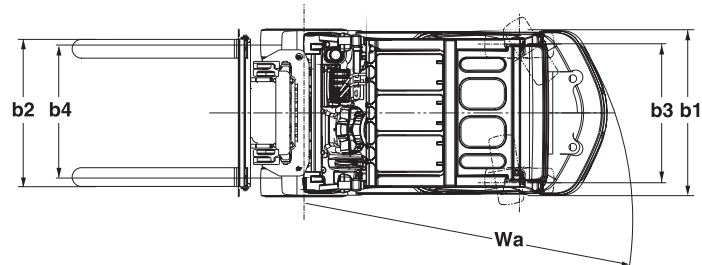
BX50 109 COMPACT SERIES

2.0 TO 3.0 TON

CHARACTERISTICS	1.2	Model Designation				
	1.3	Power Type: Electric, Diesel, Gasoline, LPG, Cable				
	1.4	Operation Type: Pedestrian, Driver Standing, Sitting, Order Picking				
	1.5	Rated Capacity		Q	mm	
	1.6	Load Center		c	mm	
	1.8	Load Distance (Front axle center to fork face)		x	mm	
	1.9	Wheelbase		y	mm	
	WEIGHTS	2.1	Service Weight			kg
		2.2	Axle Loading	Loaded	Front	kg
2.2.1		Rear			kg	
2.3		Unloaded		Front	kg	
2.3.1				Rear	kg	
TYRES	3.1	Tyre Type: Cushion, Elastic Cushion, Pneumatic, Polyurethane				
	3.2	Tyre Size		Front		
	3.3			Rear		
	3.5	Number of Wheel: Front/Rear(x-driven)				
	3.6	Tread, Front		b10	mm	
	3.7	Tread, Rear		b11	mm	
	DIMENSIONS	4.1	Tilting Angle		a/b	°
4.2		Mast Height, Lowered		h1	mm	
4.3		Std. Free Lift		h2	mm	
4.4		Std. Lift Height		h3	mm	
4.5		Mast Height, extended		h4	mm	
4.7		Height, Overhead Guard		h6	mm	
4.19		Length, with Std. Forks		l1	mm	
4.20		Length, to Fork Face		l2	mm	
4.21		Width, at Tyre		b1		
4.22		Forks: Thickness/Width/Length		s/e/l	mm	
4.23		Fork Carriage Class: ISO 2328, Type A/B				
4.24		Width, Fork Carriage		b3	mm	
4.31		Ground Clearance	Under Mast	m1	mm	
4.32			at Center of Wheelbase	m2		
4.33		Right Angle Stacking Aisle	1000x1200 pallet mm	Ast	mm	
4.34	1200x800 pallet mm		Ast	mm		
4.35	Turning Radius		Wa	mm		
PERFORMANCES	5.1	Travel speed (FWD)	Loaded	1st/2nd/3rd	km/h	
	5.1.1		Unloaded	1st/2nd/3rd	km/h	
	5.2	Lifting Speed	Loaded/Unloaded		mm/s	
	5.3	Lowering Speed	Loaded/Unloaded		mm/s	
	5.6	Drawbar Pull	Loaded 1.5km/h		kN	
	5.8	Gradeability	Loaded 1.5km/h		%	
	5.10	Service Brake	Operation/Control			
	5.11	Parking Brake	Operation/Control			
	5.12	Steering				
	IC ENGINE	6.4	Battery	Voltage/Capacity at 5-hour rating		V/Ah
		7.1	Maker/Model			
		7.2	Output SAE gross			kW @ min -1
7.3						
7.3.1		Max. Torque, SAE gross			Nm @ min -1	
7.4		Num. of Cylinder, Displacement			# / cm3	
7.6		Fuel Tank Capacity			Ltr	
OTHERS	8.2	Relief Pressure for Attachment			bar	
	8.2.1	Tank Capacity			Ltr	
	8.6	Clutch				
	8.7	Transmission				

(1) data for truck with FV3.3mt mast WITHOUT load backrest

FD20NT-16	FD25NT-16	FD30NT-16	FG20NT-16	FG25NT-16	FG30NT-16
Diesel			Gasoline		
Sitting					
2000	2500	3000	2000	2500	3000
500					
430	435	440	430	435	440
1400		1450		1450	
3330	3730	4170	3230	3630	4070
4630	5380	6240	4600	5350	6250
700	850	930	630	780	820
1280	1170	1250	1250	1140	1260
2050	2560	2920	1980	2490	2810
Solid Cushion					
21x7x15		21x8x15		21x7x15	
16 1/4x6x11 1/4					
2*/2					
900					
885					
6/10					
1995		2070		1995	
150	155	160	150	155	160
3000					
4050		4275		4050	
2025					
3260	3475	3535	3260	3475	3535
2340	2405	2465	2340	2405	2465
1090					
36x122x920	40x122x1070	44x122x1070	36x122x920	40x122x1070	44x122x1070
Class 2, Type A		Class 3, Type		A Class 2, Type A	
960		940		960	
105					
115					
3410	3555	3620	3410	3555	3620
3610	3685	3750	3610	3685	3750
1980	2050	2110	1980	2050	2110
17.0	16.5	16.0	17.0	16.5	16.0
16.5	16.5	16.0	16.5	16.5	16.0
630/685		520/555		545/600	
450/500		420/500		450/500	
17		16		14	
34	29	24	27	23	24
Foot/Hydraulic					
Hand/Mechanical					
KAPS III - Hydrostatic					
12/64			12/33		
Komatsu 4D94LE		NISSAN K21		NISSAN K25	
46.3@2450		34.6@2450		42.6@2400	
2450		2450		2400	
186@1800		152@1600		186@1600	
4-3052		4-2065		4-2488	
40					
181					
55					
Torque Converter					
TORQFLOW					



		Load backrest				
		H	b_3	W	h_4	h_5
		mm	mm	mm	mm	mm
208/25	1000		960	1090	+370	-370
	1220	+590			-590	
	1370	+740			-740	
30	1220		940	1090	+570	-570
	1370	+720			-720	
	1520	+870			-870	

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x= FOH + s		(!) Data without load backrest						Capacity kg@ 500mm		Mast weight Kg							
		h ₃ mm		h ₁ mm		h ₄ (!) mm		h ₂ /h ₅ (!) mm			α °		β °		Integral Sideshift		Standard carriage
Solid Cushion															Single		Single
Model		h ₃ mm		h ₁ mm		h ₄ (!) mm		h ₂ /h ₅ (!) mm		α °		β °		Integral Sideshift		Standard carriage	
FD20NT-16 / FG20NT-16		FV FOH Std=394 FOH SS=424		3000	1995	3680	150	6	10	2000	2000	545					
				3300	2145	3980	150	6	10	2000	2000	569					
				3500	2245	4180	150	6	10	2000	2000	591					
				3700	2345	4380	150	6	10	2000	2000	607					
				4000	2545	4680	150	6	10	2000	2000	675					
				4300	2695	4980	150	6	10	1950	2000	700					
				4500	2795	5180	150	6	10	1900	2000	715					
				4700	2945	5380	150	6	6	1900	1950	740					
				5000	3095	5680	150	6	6	1850	1850	764					
		FFV FOH=420		3000	1995	3710	1330	6	10	2000	2000	680					
				3300	2145	4010	1480	6	10	2000	2000	705					
				3500	2245	4210	1580	6	10	2000	2000	720					
				4000	2545	4710	1880	6	10	1950	1950	800					
				4500	2795	5210	2130	6	10	1850	1850	840					
		TFV FOH Std=419 FOH SS=449		3700	1795	4440	1130	6	6	1900	2000	845					
				4000	1895	4740	1230	6	6	1900	1950	860					
				4300	1995	5040	1330	6	6	1850	1900	880					
				4500	2070	5240	1405	6	6	1800	1850	895					
				4700	2145	5440	1480	6	6	1800	1800	910					
				5000	2245	5740	1580	6	6	1750	1750	925					
				5500	2445	6240	1780	6	6	1500	1500	960					
				6000	2645	6740	1980	6	6	950	1000	1.030					
		FD25NT-16 / FG25NT-16		FV FOH Std=395 FOH SS=420		3000	1995	3680	150	6	10	2500	2500	545			
						3300	2145	3980	150	6	10	2500	2500	569			
						3500	2245	4180	150	6	10	2500	2500	591			
						3700	2345	4380	150	6	10	2500	2500	607			
						4000	2545	4680	150	6	10	2500	2500	675			
						4300	2695	4980	150	6	10	2400	2450	700			
4500	2795					5180	150	6	10	2350	2350	715					
4700	2945					5380	150	6	6	2200	2250	740					
5000	3095					5680	150	6	6	1900	1900	764					
FFV FOH=421				3000	1995	3710	1330	6	10	2500	2500	680					
				3300	2145	4010	1480	6	10	2500	2500	705					
				3500	2245	4210	1580	6	10	2500	2500	720					
				4000	2545	4710	1880	6	10	2450	2500	800					
				4500	2795	5210	2130	6	10	2200	2300	840					
TFV FOH Std=420 FOH SS=450				3700	1795	4440	1130	6	6	2450	2500	845					
				4000	1895	4740	1230	6	6	2450	2500	860					
				4300	1995	5040	1330	6	6	2350	2400	880					
				4500	2070	5240	1405	6	6	2300	2350	895					
				4700	2145	5440	1480	6	6	2250	2250	910					
				5000	2245	5740	1580	6	6	1900	1900	925					
				5500	2445	6240	1780	6	6	1600	1600	960					
				6000	2645	6740	1980	6	6	1000	1000	1.030					
FD30NT-16 / FG30NT-16				FV FOH Std=396 FOH SS=441		3000	2070	3710	155	6	10	3000	3000	615			
						3300	2220	4010	155	6	10	3000	3000	641			
						3500	2320	4210	155	6	10	3000	3000	658			
						3700	2420	4410	155	6	10	3000	3000	675			
						4000	2620	4710	155	6	10	2900	3000	742			
						4300	2770	5010	155	6	10	2850	3000	768			
		4500	2870			5210	155	6	10	2800	6000	785					
		4700	3020			5410	155	6	6	2750	2950	810					
		5000	3170			5710	155	6	6	2700	2750	835					
		FFV FOH=430				3000	2070	3780	1350	6	10	2900	3000	780			
						3300	2220	4080	1500	6	10	2900	3000	810			
						3500	2320	4280	1600	6	10	2900	3000	825			
						4000	2620	4780	1900	6	10	2900	2900	905			
				4500	2870	5280	2150	6	6	2600	2750	950					
				3700	1870	4510	1150	6	6	2800	2950	950					
				4000	1970	4810	1250	6	6	2800	2850	970					
		TFV FOH Std=406 FOH SS=451		4300	2070	5110	1350	6	6	2700	2800	990					
				4500	2145	5310	1425	6	6	2650	2750	1.005					
				4700	2220	5510	1500	6	6	2600	2700	1.020					
				5000	2320	5810	1600	6	6	2500	2500	1.040					
				5500	2520	6310	1800	6	6	1600	1600	1.080					
				6000	2720	6810	2000	6	6	1000	1000	1.155					