KOMATSU

BX50

BX50 Series SPECIFICATIONS

Pneumatic Tire Lift Trucks

4000 - 7,000 lbs. Capacity

CLEAN AIR TECHNOLOGY TODAY AND TOMORROW

PROVEN KOMATSU ABILITY

The Forklift With Proven Ability.™

ISO 9001 CERTIFIED

KOMATSU FORKLIFT

Truck Data

GENERAL				FG20T-16	FG20HT-16	FD20T-16	FG25T-16	FG25HT-16	FD25T-16
Power Type				Gasoline	Gasoline	Diesel	Gasoline	Gasoline	Diesel
Operation Type				Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down
Capacity @ 24 in. (600 mm) load center *			lbs. (kg)	4,000 (1,810)	4,000 (1,810)	4,000 (1,810)	5,000 (2,267)	5,000 (2,267)	5,000 (2,267)
Load distance from center axle (2-stage)			in. (mm)	17.9 (455)	17.9 (455)	17.9 (455)	17.9 (455)	17.9 (455)	17.9 (455)
Wheelbase			in. (mm)	65.0 (1,650)	65.0 (1,650)	65.0 (1,650)	65.0 (1,650)	65.0 (1,650)	65.0 (1,650)
WEIGHT									
Service weight (includes 2-stage std. mast & forks)			lbs. (kg)	7,180 (3,255)	7,180 (3,255)	7,290 (3,310)	7,941 (3,605)	7,941 (3,605)	8,060 (3,660)
Axle Loading	Loaded	Front	lbs. (kg)	9,880 (4,480)	9,880 (4,480)	9,980 (4,485)	11,360 (5,155)	11,360 (5,155)	11,440 (5,195)
		Rear	lbs. (kg)	1,300 (590)	1,300 (590)	1,410 (640)	1,590 (720)	1,590 (720)	1,620 (735)
	Unloaded	Front	lbs. (kg)	3,270 (1,485)	3,270 (1,485)	3,280 (1,490)	3,110 (1,410)	3,110 (1,410)	3,190 (1,450)
		Rear	lbs. (kg)	3,900 (1,770)	3,900 (1,770)	4,010 (1,820)	4,840 (2,195)	4,840 (2,195)	4,870 (2,210)
TIRE									
Tire type				Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Tire size, front				7 x 12 x 12PR	7 x 12 x 12PR	7 x 12 x 12PR	7 x 12 x 12PR	7 x 12 x 12PR	7 x 12 x 12PR
Tire size, rear				6 x 9 x 10PR	6 x 9 x 10PR	6 x 9 x 10PR	6 x 9 x 10PR	6 x 9 x 10PR	6 x 9 x 10PR
Number of wheel, front / rear			x= driven	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
Tread (center of tires)		Front	in. (mm)	38.0 (966)	38.0 (966)	38.0 (966)	38.0 (966)	38.0 (966)	38.0 (966)
		Rear	in. (mm)	37.8 (960)	37.8 (960)	37.8 (960)	37.8 (960)	37.8 (960)	37.8 (960)
DIMENSIONS									
Tilting angle, 2-stage (FV) masts, forward / backward			deg.	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12
Tilting angle, 3-stage (TFV) masts, forward / backward			deg.	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5
Mast height, lowered (2-stage std. mast)			in. (mm)	85.4 (2,170)	85.4 (2,170)	85.4 (2,170)	85.4 (2,170)	85.4 (2,170)	85.4 (2,170)
Mast height, extended (2-stage std. mast) †			in. (mm)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)
Maximum fork height (2-stage std. mast) **			in. (mm)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)
Free lift height (2-stage std. mast)			in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)
Height overhead guard			in. (mm)	83.1 (2,110)	83.1 (2,110)	83.1 (2,110)	83.1 (2,110)	83.1 (2,110)	83.1 (2,110)
Length, with Standard Forks			in. (mm)	141.5 (3,595)	141.5 (3,595)	141.5 (3,595)	144.5 (3,670)	144.5 (3,670)	144.5 (3,670)
Length to fork face (2-stage mast)			in. (mm)	99.4 (2,525)	99.4 (2,525)	99.4 (2,525)	102.4 (2,600)	102.4 (2,600)	102.4 (2,600)
Overall width, at drive tires (single)			in. (mm)	45.3 (1,150)	45.3 (1,150)	45.3 (1,150)	45.3 (1,150)	45.3 (1,150)	45.3 (1,150)
Forks, thickness x width x length			in. (mm)	1.6 x 3.9 x 42 (40 x 100 x 1070)	1.6 x 3.9 x 42 (40 x 100 x 1070)	1.6 x 3.9 x 42 (40 x 100 x 1070)	1.6 x 3.9 x 42 (40 x 100 x 1070)	1.6 x 3.9 x 42 (40 x 100 x 1070)	1.6 x 3.9 x 42 (40 x 100 x 1070)
Carriage width / ITA Class			in. (mm)	40.9 (1,040) / II	40.9 (1,040) / II	40.9 (1,040) / II	40.9 (1,040) / II	40.9 (1,040) / II	40.9 (1,040) / II
Ground clearance, under mast			in. (mm)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)
Ground clearance, center of wheelbase			in. (mm)	6.2 (158)	6.2 (158)	6.2 (158)	6.2 (158)	6.2 (158)	6.2 (158)
Right angle stacking aisle (2-stage mast) ††			in. (mm)	101.6 (2,580)	101.6 (2,580)	101.6 (2,580)	106.5 (2,705)	106.5 (2,705)	106.5 (2,705)
Turning radius, outside			in. (mm)	86.2 (2,190)	86.2 (2,190)	86.2 (2,190)	88.2 (2,240)	88.2 (2,240)	88.2 (2,240)
PERFORMANCE									
Travel speed, forward, loaded / unloaded			mph (km/h)	11.2 (18) / 11.8 (19)	11.2 (18) / 11.8 (19)	11.5 (18.5) / 11.8 (19)	11.2 (18) / 11.8 (19)	11.2 (18) / 11.8 (19)	11.5 (18.5) / 11.8 (19)
Lifting speed, loaded / unloaded (2-stage mast)			fpm (mm/s)	120 (610) / 124 (630)	120 (610) / 124 (630)	124 (630) / 130 (660)	120 (610) / 124 (630)	120 (610) / 124 (630)	124 (630) / 130 (660)
Lowering speed, loaded / unloaded (2-stage mast)			fpm (mm/s)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)
Maximum drawbar pull, loaded			lbs. (kN)	3,960 (17.6)	4,720 (21.0)	4,072 (18.1)	3,960 (17.6)	4,720 (21.0)	4,072 (18.1)
Maximum gradability			%	32	40	36	27	34	31
Service brake, operation/control				Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic
Parking brake, operation/control				Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical
Steering, type				FHPS	FHPS	FHPS	FHPS	FHPS	FHPS
DRIVE									
Engine Manufacturer / Engine model				Nissan / K21	Nissan / K25	Komatsu / 4D94LE	Nissan / K21	Nissan / K25	Komatsu / 4D94LE
Rated output (SAE Gross)			HP (kW) @ rpm	56 (41) @ 2700	60 (44) @ 2700	65 (48) @ 2,450	56 (41) @ 2700	60 (44) @ 2700	65 (48) @ 2,450
Maximum torque (SAE Gross)			lb-ft (Nm) @ rpm	119 (160) @ 1600	142 (193) @ 1600	141 (191) @ 1800	119 (160) @ 1600	142 (193) @ 1600	141 (191) @ 1800
No. of cylinder / displacement			cu. in. (cm3)	4 / 126 (2,065)	4 / 152 (2,488)	4 / 187 (3,062)	4 / 126 (2,065)	4 / 152 (2,488)	4 / 187 (3,062)
Fuel tank capacity			U.S. gallons (liters)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)
OTHER									
Relief pressure, maximum			psi (bar)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)
Transmission				Powershift	Powershift	Powershift	Powershift	Powershift	Powershift
Sound level, at operator ears			dB	82	83	-	82	83	-

	FG28HT-16	FD28T-16	FG30HT-16	FD30T-16	FG32HT-16	FD32T-16	FG35AT-16	FD35AT-16
	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel
	Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down
	5,500 (2,495)	5,500 (2,495)	6,000 (2,722)	6,000 (2,722)	6,500 (2,948)	6,500 (2,948)	7,000 (3,175)	7,000 (3,175)
	19.1 (485)	19.1 (485)	19.1 (485)	19.1 (485)	19.1 (485)	19.1 (485)	19.9 (505)	19.9 (505)
	66.9 (1,700)	66.9 (1,700)	66.9 (1,700)	66.9 (1,700)	66.9 (1,700)	66.9 (1,700)	66.9 (1,700)	66.9 (1,700)
	8,888 (4,035)	8,920 (4,050)	9,405 (4,270)	9,490 (4,310)	9,791 (4445)	9,930 (4,510)	10,793 (4,900)	10,970 (4,980)
	12,590 (5,710)	12,640 (5,740)	13,510 (6,130)	13,590 (6,170)	14,200 (6,440)	14,380 (6,530)	15,610 (7,080)	15,700 (7,130)
	1,810 (820)	1,770 (805)	1,910 (865)	1,890 (860)	2,110 (965)	2,050 (930)	2,200 (1,000)	2,270 (1,030)
	3,510 (1,590)	3,570 (1,620)	3,600 (1,635)	3,700 (1,680)	3,480 (1,580)	3,680 (1,670)	3,970 (1,800)	4,060 (1,845)
	5,390 (2,445)	5,350 (2,430)	5,810 (2,635)	5,790 (2,630)	6,320 (2,865)	6,260 (2,840)	6,830 (3,100)	6,910 (3,135)
	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	28 x 9 - 15 - 12 Pr(i)	28 x 9 - 15 - 12 Pr(i)	28 x 9 - 15 - 12 Pr(i)	28 x 9 - 15 - 12 Pr(i)	28 x 9 - 15 - 12 Pr(i)	28 x 9 - 15 - 12 Pr(i)	250 x 15 x 16PR	250 x 15 x 16PR
	6.50 - 10 - 10 PR	6.50 - 10 - 10 PR	6.50 - 10 - 10 PR	6.50 - 10 - 10 PR	6.50 - 10 - 10 PR	6.50 - 10 - 10 PR	6.50 - 10 - 12PR	6.50 - 10 - 12PR
	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
	40.4 (1,025)	40.4 (1,025)	40.4 (1,025)	40.4 (1,025)	40.4 (1,025)	40.4 (1,025)	41.7 (1,060)	41.7 (1,060)
	38.0 (965)	38.0 (965)	38.0 (965)	38.0 (965)	38.0 (965)	38.0 (965)	38.0 (965)	38.0 (965)
	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12
	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5
	85.0 (2,160)	85.0 (2,160)	85.0 (2,160)	85.0 (2,160)	88.6 (2,250)	88.6 (2,250)	89.2 (2,265)	89.2 (2,265)
	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)	176.0 (4,470)
	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	128.0 (3,250)	132.3 (3,360)	132.3 (3,360)
	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)
	83.9 (2,130)	83.9 (2,130)	83.9 (2,130)	83.9 (2,130)	83.9 (2,130)	83.9 (2,130)	84.5 (2,145)	84.5 (2,145)
	146.5 (3,720)	146.5 (3,720)	148.8 (3,780)	148.8 (3,780)	150.6 (3,825)	150.6 (3,825)	152.2 (3,865)	152.2 (3,865)
	104.3 (2,650)	104.3 (2,650)	106.7 (2,710)	106.7 (2,710)	108.5 (2,755)	108.5 (2,755)	110.0 (2,795)	110.0 (2,795)
	48.6 (1,235)	48.6 (1,235)	48.6 (1,235)	48.6 (1,235)	48.6 (1,235)	48.6 (1,235)	50.8 (1,290)	50.8 (1,290)
	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)	2 x 4.9 x 42 (50 x 125 x 1,070)
	41.0 (1,041) / II	41.0 (1,041) / II	41.0 (1,041) / III	41.0 (1,041) / III	42.1 (1,070) / III	42.1 (1,070) / III	41.7 (1,060) / III	41.7 (1,060) / III
	7.3 (186)	7.3 (186)	7.3 (186)	7.3 (186)	7.3 (186)	7.3 (186)	7.3 (186)	7.3 (186)
	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.5 (140)	5.5 (140)
	110.1 (2,796)	110.1 (2,796)	112.6 (2,860)	112.6 (2,860)	114.4 (2,906)	114.4 (2,906)	117.6 (2,987)	117.6 (2,987)
	90.9 (2,310)	90.9 (2,310)	93.3 (2,370)	93.3 (2,370)	95.3 (2,420)	95.3 (2,420)	97.6 (2,480)	97.6 (2,480)
	11.5 (18.5) / 12.1 (19.5)	11.8 (19) / 12.1 (19.5)	11.5 (18.5) / 12.1 (19.5)	11.8 (19) / 12.1 (19.5)	10.9 (17.5) / 11.5 (18.5)	11.2 (18) / 11.8 (19)	10.9 (17.5) / 11.5 (18.5)	11.2 (18) / 11.5 (18.5)
	112 (570) / 124 (630)	118 (600) / 128 (650)	104 (530) / 124 (630)	104 (530) / 128 (650)	104 (530) / 114 (580)	98 (500) / 112 (570)	89 (450) / 91 (460)	87 (440) / 91 (460)
	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	98 (500) / 98 (500)	79 (400) / 79 (400)	79 (400) / 79 (400)
	4,630 (20.6)	4,072 (18.1)	4,630 (20.6)	3,937 (17.5)	4,630 (20.6)	3,937 (17.5)	4,410 (19.6)	3,847 (17.1)
	30	27	27	25	25	24	22	24
	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic
	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical
	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS
	Nissan / K25	Komatsu / 4D94LE	Nissan / K25	Komatsu / 4D94LE	Nissan / K25	Komatsu / 4D94LE	Nissan / K25	Komatsu / 4D94LE
	60 (44) @ 2700	65 (48) @ 2,450	60 (44) @ 2700	65 (48) @ 2,450	60 (44) @ 2700	65 (48) @ 2,450	60 (44) @ 2700	65 (48) @ 2,450
	142 (193) @ 1600	141 (191) @ 1800	142 (193) @ 1600	141 (191) @ 1800	142 (193) @ 1600	141 (191) @ 1800	142 (193) @ 1600	141 (191) @ 1800
	4 / 152 (2,488)	4 / 187 (3,062)	4 / 152 (2,488)	4 / 187 (3,062)	4 / 152 (2,488)	4 / 187 (3,062)	4 / 152 (2,488)	4 / 187 (3,062)
	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)	15.3 (58)
	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)	2,650 (181)
	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift
	83	-	83	-	83	-	83	-

Technical Data

ENGINES

K21 (2.1 liter) or K25 (2.5 liter) gasoline/LPG, 4-cylinder, in-line engines with Engine Concentrated Control Systems (ECCS) meet or exceed EPA emission standards. These low-RPM, high-torque industrial engines offer reduced maintenance requirements, exceptional emission controls, fast acceleration, high performance, reliable durability, and enhanced serviceability through engineering excellence.

- There are three engine fuel choices: gasoline multi-port fuel injection, LPG single-port (throttle-body) fuel injection, or a dual fuel system with easy switching at the flip of a switch. All engines are equipped with 3-way catalytic converters and closed-loop exhaust systems.
- All engines utilize an ECCS that continuously monitors data from the fuel pressure, accelerator throttle position, mass air-flow sensor, and heated oxygen sensor—for improved fuel economy, smooth operation, reliable starting in cold weather, and high performance throughout the operating range. An electronic governor protects the engine against over-rev damage.
- Crankshaft and camshaft position sensors provide information to the ECCS for optimum ignition and fuel injection timing. Each cylinder has an individual ignition coil for precise control and reliability.
- An engine coolant temperature sensor and controller protects the engine against damage due to high engine temperature by automatically limiting engine speed during high-temperature operation. If the engine coolant temperature exceeds safe operation temperature, the engine will be shut down. An illuminated indicator on the instrument console indicates high-temperature operation, and gives the operator warning of engine shutdown.
- The aluminum alloy cylinder head has large intake and exhaust valves and a semi-hemispherical combustion chamber for efficient fuel consumption.
- The engine block is designed with five main bearings. All main and rod bearings are micro-grooved to improve lubrication and reduce wear.
- Noise and vibration abatement reduce operator fatigue.

The 4D94LE diesel 4-cylinder, in-line, 2.77-liter engine employs 4-stroke, 4-cycle technology and direct injection to produce high performance with excellent fuel economy. The Komatsu 4D94LE diesel delivers the power and efficiency to get the job done quickly and cost-effectively, while meeting emission requirements.

- The Quick Glow Spark (QGS) starting system ensures a fast and reliable start in all climate conditions.

FUEL SYSTEM

Gasoline, LPG, Dual-Fuel, or diesel systems are available. The gasoline or diesel fuel tank is integral to the truck frame.

- In-tank mounted gasoline fuel delivery pump, fuel-level sensing unit, pressure regulator, and filter are standard.
- LPG fuel system uses single-point, throttle-body fuel injection. A removable 33 lb. or 43 lb. fuel tank is available with stationary, fold-back, or swing-out-and-down tank mountings.
- Easy-servicing diesel fuel system includes clean-out access and full-flow fuel filter with water separator.

COOLING SYSTEM

The high-capacity aluminum radiator is designed with an efficient thermal transfer fin and an oil cooler for the transmission torque converter.

- System design allows easy access to the reservoir for checking the coolant level.
- High-volume cooling fan uses flexible plastic blades and shroud for maximum air volume and noise abatement.

ELECTRICAL SYSTEM

Standard instrument package and operator conveniences:

- 12-volt electrical system
- 50A alternator (40A diesel) with built-in IC regulator
- Key-lock, anti-restart ignition switch (Gas/LPG only)
- High-torque, low-amp starter motor with planetary gear reduction
- Waterproof electrical connectors
- Electric fuel gauge, water temperature gauge, LED hour meter
- Indicator lights for Neutral/Return to Neutral, Low Oil Pressure, Low Battery/Alternator Output, Check Engine Warning, Hydraulic Lock (Operator Presence), and ECCS Status Code
- ECCS Service Support Tool connector for rapid system diagnostics (Gas/LPG only)

EZLIFT HYDRAULIC SYSTEM

The EZlift Hydraulic System features a tandem pump assembly with separate pumps for load handling and steering. This enables faster lifting at engine idle speed for greater fuel economy and performance levels.

- Large hydraulic fluid reservoir integral to the truck frame reduces heat buildup in the system.
- Pressure relief valve protects system components.

FRAME

An all-welded assembly with heavy-gauge steel and integral hydraulic and fuel tanks provide exceptional durability.

- Welded front cross-member and bolted drive axle increase frame rigidity.
- Loads are transferred directly from the mast to the drive axle and on to the floor without being transmitted through the frame, reducing frame stress.
- Wide, open step is designed into the frame assembly without compromising the structure.

DRIVE AXLE

A heavy-duty, cast steel drive axle housing supports the load and chassis without placing a load on the free-floating axle shafts. A flange is mounted to the truck frame to improve load distribution and reduce frame flexing.

TRANSMISSION

Komatsu Torqflow single-speed, powershift transmission is specifically designed for industrial applications.

- Column-mounted electrical shift lever gives the operator easy directional control without removing a hand from the steering wheel.
- Optimized stall ratio for torque converter provides high torque without sacrificing travel speed.
- A modulating control valve absorbs initial pressure spikes during initial engagement and directional change. This improves shifting capabilities and prolongs the life of the entire power train.
- Transmission oil is double-filtered by a 125-micron mesh on pickup, and a 35-micron cartridge on the return line.
- Transmission oil cooler is integral with the radiator.
- Inching control and auxiliary brake pedal combination allows the operator precise truck positioning with positive control.

BRAKES

Hydraulic brakes are self-energizing and self-adjusting.

- Brake fluid reservoir is located under the console cover for fast, easy inspection and maintenance.
- High-friction brake shoes are free of asbestos.
- Heavy-duty brake backing plate and thick brake drum provide reliable braking action and reduced heat.
- Mechanical parking brake has two-stage latching mechanism for positive engagement.
- Power assist is available on selected models.

Technical Data

STEER AXLE

Fully Hydrostatic Power Steering is standard.

- Independent power steering pump separates steering function from main hydraulics for smoother, more reliable action.
- Heavy-duty fabricated steer axle has double-acting, double-ended power steering cylinder and no drag links or tie rods.
- Steering stops are machined into the steering cylinder to reduce stress impact on steering linkages.
- Grease fitting on all linkages are accessible without lifting the truck.

MAST, CARRIAGE, LBR AND FORKS

High-visibility EZview mast assembly has a 6-roller carriage that is available in two-, three-, and four-stage Freelift Freeview designs.

- Sealed bearings require no maintenance.
- Angle-mounted bearings and a shaped rail flange prevent excessive wear and friction, while maintaining correct side thrust clearance.
- ITA Class II or Class III carriages accept a variety of fork sizes and common load-handling attachments.
- 48-inch-high load backrest is standard.
- Single or double auxiliary hydraulic-function internal hose routing is available.

OPERATOR COMPARTMENT

A unique "Komfort Zone" hydraulic suspension compartment isolates the operator from the floor surface and from engine vibrations, for greater operator comfort and productivity.

- Orthopedically designed "Komfort" seat has built-in lumbar support, retractable seat belt, lateral restraint system, and generous fore and aft adjustment.
- Hydraulic control levers are positioned for optimum access and ease of use. International symbols on the contoured grips indicate the function.
- Tilting steering console has small-diameter steering wheel and electronic instrumentation. Tilt is infinitely adjustable, with extended room between the engine bonnet and console.
- Wide-open floor board has suspended brake and inching pedals with ribbed rubber pads for comfort and safety. Integral accelerator mechanism has a transfer roller for smooth operation.
- Full-width rubber floor mat provides large, non-slip surface and reduces noise, vibration, and heat in the "Komfort Zone."
- Large, open steps with a traction surface and a large handgrip provide easy entry and exit for the operator.
- Standard headlight/turn indicator control lever is mounted on the steering column for easy use.
- Full-width overhead guard provides excellent visibility for high stacking and meets or exceeds ITSDF requirements.

SERVICEABILITY

The engine and transmission can be easily accessed for daily inspection without the use of any tools.

- Single-piece, all-steel engine cover and seat support is fully insulated to reduce noise and heat transfer to the "Komfort Zone."
- Engine cover has gas-filled cylinder with an automatic locking device to assist in opening and to prevent the cover from unexpectedly closing.
- Easy-access, easy-operation engine cover latch is recessed to prevent interference when entering and exiting the operator compartment.
- Engine cover is shaped for easy access into the engine area for maintenance and service.

COMPLIANCE, APPROVALS, AND ENVIRONMENTAL CONCERNS

Designed for maximum recycling at end of life, with special attention to materials and construction. Counterweight designed for breakup during recycling process. Transmission case is recyclable aluminum.
Komatsu forklifts meet or exceed American National Standard Institute, ITSDF B56.1-Part III Safety Standards for Powered Industrial Trucks.
Classified by Underwriters Laboratories, Inc. for fire hazard only. Contact your authorized dealer for application-specific requirements.
Meets or Exceeds EPA emissions standards 40 CFR.

KOMATSU®

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