

KOMATSU

BBX50 series **SPECIFICATIONS**

Cushion Tire Lift Trucks
4,000 – 6,500 lbs. Capacity
Total AC Electric
36/48 Dual Voltage System



KOMATSU FORKLIFT



The Forklift With Proven Ability.™

ISO 9001 CERTIFIED

TRUCK DATA

GENERAL		FB20SHU-6	FB20SHU-6	FB25SHU-6
Power Type: Electric, Gas, Diesel, LPG		Electric (36V)	Electric (48V)	Electric (36V)
Operation Type		Sit-Down	Sit-Down	Sit-Down
Capacity @ 24 in. (600 mm) load center *	lbs. (kg)	4,000 (1,810)	4,000 (1,810)	5,000 (2,270)
Load distance from center of axle (2-stage mast)	in. (mm)	17.0 (431)	17.0 (431)	17.0 (431)
Load distance from center of axle (3-stage mast)	in. (mm)	17.0 (431)	17.0 (431)	17.0 (431)
Wheelbase	in. (mm)	51.2 (1,300)	51.2 (1,300)	51.2 (1,300)
WEIGHT				
Service weight (includes, min. weight battery)	lbs. (kg)	8,930 (4,050)	8,930 (4,050)	9,610 (4,420)
TIRE				
Tire type		Cushion	Cushion	Cushion
Tire size, front		21 x 7 x 15	21 x 7 x 15	21 x 7 x 15
Tire size, rear		16 x 5 x 10.5	16 x 5 x 10.5	16 x 6 x 10.5
Number of wheels, front / rear	x=driven	2x / 2	2x / 2	2x / 2
Tread (center of tires) front / rear	in. (mm)	34.8 (885) / 35.6 (905)	34.8 (885) / 35.6 (905)	34.8 (885) / 35.0 (890)
DIMENSIONS				
Tilting angle, 2-stage masts, (forward / backward)	deg.	6 / 8	6 / 8	6 / 8
Tilting angle, 3-stage masts, (forward / backward)	deg.	6 / 5	6 / 5	6 / 5
Mast height, lowered (2-stage std. mast)	in. (mm)	85.5 (2,170)	85.5 (2,170)	85.5 (2,172)
Mast height, extended (2-stage std. mast) †	in. (mm)	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)
Free lift height (2-stage std. mast)	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)
Height overhead guard	in. (mm)	86.8 (2,205)	86.6 (2,200)	86.8 (2,205)
Length to fork face (2-stage mast)	in. (mm)	80.5 (2,045)	80.5 (2,045)	81.3 (2,065)
Length to fork face (3-stage mast)	in. (mm)	80.5 (2,045)	80.5 (2,045)	81.3 (2,065)
Overall width, at drive tires	in. (mm)	41.7 (1,060)	41.7 (1,060)	41.7 (1,060)
Forks, thickness x width x length	in. (mm)	1.6 x 3.9 x 42.1 (40 x 100 x 1,070)	1.6 x 3.9 x 42.1 (40 x 100 x 1,070)	1.6 x 3.9 x 42.1 (40 x 100 x 1,070)
Carriage width / ITA Class	in. (mm)	37.0 (940) / II	37.0 (940) / II	37.0 (940) / II
Ground clearance, under 2-stage std. mast	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)
Ground clearance, under 3-stage std. mast	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)
Ground clearance, center of wheelbase	in. (mm)	4.1 (105)	4.1 (105)	4.1 (105)
Right angle stacking aisle (2-stage mast) ††	in. (mm)	87.0 (2,210)	87.0 (2,210)	87.8 (2,230)
Right angle stacking aisle (3-stage mast) ††	in. (mm)	87.0 (2,210)	87.0 (2,210)	87.8 (2,230)
Turning radius, outside	in. (mm)	70.1 (1,780)	70.1 (1,780)	70.9 (1,800)
Battery compartment size: width x length x height	in. (mm)	38.8 x 29.1 x 23.8 (985 x 740 x 605)	38.8 x 29.1 x 23.8 (985 x 740 x 605)	38.8 x 29.1 x 23.8 (985 x 740 x 605)
PERFORMANCE				
Travel speed, forward, loaded / unloaded	mph (km/hr)	8.7 (14.0) / 9.3 (15.0)	10.6 (17.0) / 10.9 (17.5)	8.4 (13.5) / 9.0 (14.5)
Lifting speed, loaded / unloaded (2-stage mast)	fpm (mm/s)	62.0 (315) / 106.3 (540)	82.7 (420) / 126.0 (640)	57.1 (290) / 106.3 (540)
Lifting speed, loaded / unloaded (3-stage mast)	fpm (mm/s)	61.0 (310) / 102.4 (520)	81.7 (415) / 122.0 (620)	56.1 (285) / 102.4 (520)
Lowering speed, loaded / unloaded (2-stage mast)	fpm (mm/s)	96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)
Lowering speed, loaded / unloaded (3-stage mast)	fpm (mm/s)	94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (390)
Maximum drawbar pull, loaded	lbs. (kN)	3,370 (15,000)	3,370 (15,000)	3,370 (15,000)
Maximum gradeability, loaded / unloaded at 1 mph	%	25	25	21
Service brake, operation / control		Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic
Parking brake, operation / control		Hand / Mechanical	Hand / Mechanical	Hand / Mechanical
Steering, type		Hydraulic	Hydraulic	Hydraulic
DRIVE				
Drive motor, 60 minute rating	HP (kW)	13.5 (10.1)	18.0 (13.4)	13.5 (10.1)
Pump motor, 5 minute rating	HP (kW)	14.6 (10.9)	19.6 (14.6)	14.6 (10.9)
Battery voltage	volts	36	48	36
Battery capacity, minimum	Ah/6 hr. rate	675	525	675
Battery capacity, maximum	Ah/6 hr. rate	1,210	880	1,210
Battery weight, minimum	lbs. (kg)	2,430 (1,100)	2,430 (1,100)	2,430 (1,100)
Battery weight, maximum	lbs. (kg)	2,820 (1,275)	2,820 (1,275)	2,820 (1,275)
OTHER				
Drive motor control		MOSFET AC Inverter	MOSFET AC Inverter	MOSFET AC Inverter
Relief pressure, maximum	psi (bar)	2,698 (186)	2,698 (186)	2,698 (186)
Hydraulic tank capacity	U.S. gallons (liters)	7.1 (27)	7.1 (27)	7.1 (27)

NOTE: Most values shown in this publication are rounded. Therefore, direct conversion between metric and English or Imperial may be slightly different from those shown. The performance of machines is affected by the condition of the vehicle and how it is equipped as well as the nature and condition of the operating area. If these specifications are critical or if your needs exceed the specifications shown here, discuss the proposed application with your authorized dealer.

	FB25SHU-6	FB25SHGU-6	FB25SHGU-6	FB30SHU-6	FB30SHU-6	
	Electric (48V)	Electric (36V)	Electric (48V)	Electric (36V)	Electric (48V)	
	Sit-Down	Sit-Down	Sit-Down	Sit-Down	Sit-Down	
	5,000 (2,270)	5,000 (2,270)	5,000 (2,270)	6,000 (2,720)	6,000 (2,720)	
	17.0 (431)	17.0 (431)	17.0 (431)	17.4 (442)	14.4 (442)	
	17.0 (431)	17.0 (431)	17.0 (431)	17.4 (442)	14.4 (442)	
	51.2 (1,300)	58.3 (1,480)	58.3 (1,480)	58.3 (1,480)	58.3 (1,480)	
	9,610 (4,420)	9,670 (4,385)	9,670 (4,385)	10,680 (4,845)	10,680 (4,845)	
	Cushion	Cushion	Cushion	Cushion	Cushion	
	21 x 7 x 15	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15	
	16 x 6 x 10.5	16 x 6 x 10.5	16 x 6 x 10.5	16 x 6 x 10.5	16 x 6 x 10.5	
	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	
	34.8 (885) / 35.0 (890)	35.4 (900) / 35.0 (890)	35.4 (900) / 35.0 (890)	35.4 (900) / 35.0 (890)	35.4 (900) / 35.0 (890)	
	6 / 8	6 / 8	6 / 8	6 / 8	6 / 8	
	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	
	85.5 (2,172)	85.5 (2,172)	85.5 (2,172)	85.5 (2,172)	85.5 (2,170)	
	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)	
	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	
	86.8 (2,205)	87.8 (2,230)	87.8 (2,230)	87.8 (2,230)	87.8 (2,230)	
	81.3 (2,065)	87.6 (2,225)	87.6 (2,225)	88.8 (2,255)	88.8 (2,255)	
	81.3 (2,065)	87.6 (2,225)	87.6 (2,225)	88.8 (2,255)	88.8 (2,255)	
	41.7 (1,060)	43.3(1,100)	43.3(1,100)	43.3(1,100)	43.3 (1,100)	
	1.6 x 3.9 x 42.1 (40 x 100 x 1,070)	1.6 x 3.9 x 42.1 (40 x 100 x 1,070)	1.6 x 3.9 x 42.1 (40 x 100 x 1,070)	2.0 x 4.9 x 42.1 (50 x 125 x 1,070)	2.0 x 4.9 x 42.1 (50 x 125 x 1,070)	
	37.0 (940) / II	37.0 (940) / II	37.0 (940) / II	37.0 (940) / III	37.0 (940) / III	
	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	
	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	5.5 (140)	
	4.1 (105)	4.1 (105)	4.1 (105)	4.1 (105)	4.1 (105)	
	87.8 (2,230)	92.9 (2,360)	92.9 (2,360)	94.5 (2,400)	94.5 (2,400)	
	87.8 (2,230)	92.9 (2,360)	92.9 (2,360)	94.5 (2,400)	94.5 (2,400)	
	70.9 (1,800)	76.0 (1,930)	76.0 (1,930)	77.0 (1,955)	77.0 (1,955)	
	38.8 x 29.1 x 23.8 (985 x 740 x 605)	38.8 x 36.2 x 23.8 (985 x 920 x 605)	38.8 x 36.2 x 23.8 (985 x 920 x 605)	38.8 x 36.2 x 23.8 (985 x 920 x 605)	38.8 x 36.2 x 23.8 (985 x 920 x 605)	
	9.9 (16.0) / 10.9 (17.5)	8.4 (13.5) / 9.0 (14.5)	9.9 (16.0) / 10.9 (17.5)	8.1 (13.0) / 8.7 (14.0)	9.3 (15.0) / 10.6 (17.0)	
	76.8 (390) / 126.0 (640)	57.1 (290) / 106.3 (540)	76.8 (390) / 126.0 (640)	51.2 (260) / 104.3 (530)	70.9 (360) / 124 (630)	
	75.8 385) / 122.0 (620)	56.1 (285) / 102.4 (520)	75.8 385) / 122.0 (620)	50.2 (255) / 100.4 (510)	69.9 (355) / 120.1 (610)	
	96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)	
	94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (390)	
	3,370 (15,000)	3,370 (15,000)	3,370 (15,000)	3,370 (15,000)	3,370 (15,000)	
	21	21	17	17	17	
	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic	
	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	
	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
	18.0 (13.4)	13.5 (10.1)	18.0 (13.4)	13.5 (10.1)	18.0 (13.4)	
	19.6 (14.6)	14.6 (10.9)	19.6 (14.6)	14.6 (10.9)	19.6 (14.6)	
	48	36	48	36	48	
	525	900	675	900	675	
	880	1,650	1,210	1,650	1,210	
	2,430 (1,100)	3,000 (1,360)	3,000 (1,360)	3,000 (1,360)	3,000 (1,360)	
	2,820 (1,275)	3,800 (1,725)	3,800 (1,725)	3,800 (1,725)	3,800 (1,725)	
	MOSFET AC Inverter	MOSFET AC Inverter	MOSFET AC Inverter	MOSFET AC Inverter	MOSFET AC Inverter	
	2,698 (186)	2,698 (186)	2,698 (186)	2,698 (186)	2,698 (186)	
	7.1 (27)	10.3 (39)	10.3 (39)	10.3 (39)	10.3 (39)	

* Optional masts, attachments, longer load dimensions, and higher lifting heights may result in derating of the capacity. Contact your authorized dealer.

** Other mast heights available. See MAST DATA chart for other standard mast heights. Contact your authorized dealer.

† Includes 48-inch (1,220 mm) high load backrest. Contact your authorized dealer.

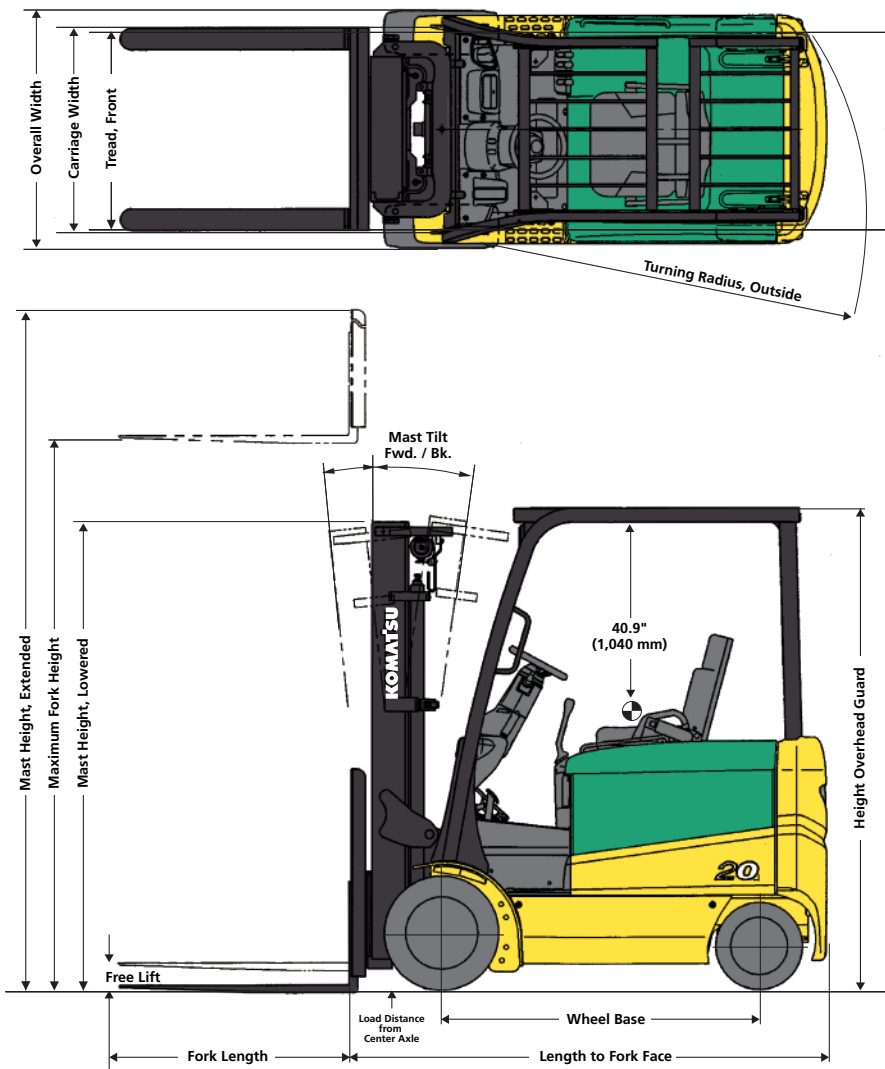
†† Add load length and clearance. Contact your authorized dealer.

MAST DATA & SPECIAL FEATURES

FB32SHU-6	FB32SHU-6
Electric (36V)	Electric (48V)
Sit-Down	Sit-Down
6,500 (2,950)	6,500 (2,950)
14.4 (442)	14.4 (442)
14.4 (442)	14.4 (442)
58.3 (1,480)	58.3 (1,480)
11,315 (5,130)	11,315 (5,130)
Cushion	Cushion
21 x 8 x 15	21 x 8 x 1
16 x 6 x 10.5	16 x 6 x 10.5
2x / 2	2x / 2
35.4 (900) / 35.0 (890)	35.4 (900) / 35.0 (890)
6 / 8	6 / 8
6 / 5	6 / 5
88.5 (2,248)	88.5 (2,248)
176.0 (4,470)	176.0 (4,470)
128.0 (3,250)	128.0 (3,250)
5.5 (140)	5.5 (140)
87.8 (2,230)	87.8 (2,230)
89.8 (2,280)	89.8 (2,280)
89.8 (2,280)	89.8 (2,280)
43.3 (1,100)	43.3 (1,100)
2.0 x 4.9 x 42.1 (50 x 125 x 1,070)	2.0 x 4.9 x 42.1 (50 x 125 x 1,070)
37.0 (940) / III	37.0 (940) / III
5.5 (140)	5.5 (140)
5.5 (140)	5.5 (140)
4.1 (105)	4.1 (105)
96.1 (2,440)	96.1 (2,440)
96.1 (2,440)	96.1 (2,440)
78.5 (1,995)	78.5 (1,995)
38.8 x 36.2 x 23.8 (985 x 920 x 605)	38.8 x 36.2 x 23.8 (985 x 920 x 605)
7.5 (12.0) / 8.1 (13.0)	9.3 (15.0) / 10.3 (16.5)
47.2 (240) / 93.5 (475)	65.0 (330) / 110.2 (560)
45.3 (320) / 82.7 (420)	63.0 (320) / 104.3 (530)
96.5 (490) / 82.7 (420)	96.5 (490) / 82.7 (420)
94.5 (480) / 76.8 (390)	94.5 (480) / 76.8 (39)
3,370 (15,000)	3,370 (15,000)
17	17
Foot / Hydraulic	Foot / Hydraulic
Hand / Mechanical	Hand / Mechanical
Hydraulic	Hydraulic
13.5 (10.1)	18.0 (13.4)
14.6 (10.9)	19.6 (14.6)
36	48
900	675
1,650	1,210
3,000 (1,360)	3,300 (1,500)
3,800 (1,725)	3,800 (1,725)
MOSFET AC Inverter	MOSFET AC Inverter
2,698 (186)	2,698 (186)
10.3 (39)	10.3 (39)

Maximum Fork Height in. (mm)	Mast Height [†]		Free Lift [†] in. (mm)
Lowered in. (mm)	Extended [†] in. (mm)		
"EZview" FB20-25SHU-6 & FB20-25SHGU-6			
2-STAGE FREE VIEW			
106.0 (2,690)	74.5 (1,890)	154.0 (3,910)	5.5 (140)
114.0 (2,895)	78.5 (1,995)	162.0 (4,115)	5.5 (140)
128.0 (3,250)	85.5 (2,170)	176.0 (4,470)	5.5 (140)
3-STAGE FULL FREE VIEW			
152.5 (3,870)	73.5 (1,870)	200.5 (5,095)	25.5 (645)
167.5 (4,255)	78.5 (1,995)	215.5 (5,475)	30.5 (775)
188.5 (4,785)	85.5 (2,170)	236.5 (6,010)	37.5 (950)
198.5 (5,040)	89.5 (2,275)	246.5 (6,260)	41.5 (1,055)
216.5 (5,500)	97.5 (2,480)	264.5 (6,720)	49.5 (1,255)
"EZview" FB30SHU-6			
2-STAGE FREE VIEW			
106.0 (2,690)	75.5 (1,920)	154.0 (3,915)	5.5 (140)
114.0 (2,895)	78.5 (1,995)	162.0 (4,115)	5.5 (140)
128.0 (3,250)	85.5 (2,175)	176.0 (4,470)	5.5 (140)
3-STAGE FULL FREE VIEW			
150.5 (3,820)	74.5 (1,890)	198.5 (5,045)	26.5 (670)
162.5 (4,125)	78.5 (1,995)	210.5 (5,350)	30.5 (755)
183.5 (4,660)	85.5 (2,175)	231.5 (5,880)	37.5 (950)
190.5 (4,840)	88.5 (2,250)	238.5 (6,060)	40.5 (1,030)
211.5 (5,370)	97.5 (2,480)	259.5 (6,590)	49.5 (1,255)
"EZview" FB32SHU-6			
2-STAGE FREE VIEW			
106.0 (2,690)	78.5 (1,995)	154.0 (3,915)	5.5 (140)
114.0 (2,895)	81.5 (2,070)	162.0 (4,115)	5.5 (140)
128.0 (3,250)	88.5 (2,250)	176.0 (4,470)	5.5 (140)
3-STAGE FULL FREE VIEW			
150.5 (3,820)	76.5 (1,945)	198.5 (5,045)	28.5 (725)
162.5 (4,125)	80.5 (2,045)	210.5 (5,350)	32.5 (825)
183.5 (4,660)	87.5 (2,225)	231.5 (5,880)	39.5 (1,005)
190.5 (4,840)	91.5 (2,325)	237.5 (6,035)	43.5 (1,105)
210.5 (5,370)	100.5 (2,555)	258.5 (6,565)	52.5 (1,335)

NOTE: Specifications for 2-Stage Full Free View and 4-Stage Full Free View (QFV) Masts are not indicated. Please consult your authorized dealer for information and availability.



Komatsu "Proven Ability"

is Komatsu's ability to eclipse the competition by taking the complicated and making it simple. We strive to provide innovative solutions using the technologies of tomorrow—today.

SPECIAL FEATURES

- ✓ Total AC power and controls for both the drive and hydraulic motors. The drive motor is transverse mounted.
- ✓ Integrated, on-demand power steering. The power steering runs off the main hydraulic motor which runs only when required.
- ✓ Auto Power-Off. If no functions are operated for 15 minutes, the power automatically turns off.
- ✓ Komatsu Operator Presence System senses when the operator leaves the seat and disables travel and hydraulics.
- ✓ Multi-purpose display unit integrated into the console with access to performance parameter programming and service messages. No special handset required.

STANDARD EQUIPMENT

- ✓ Battery and operator restraint systems
- ✓ Battery discharge indicator with lift interrupt
- ✓ Cup & accessory holder
- ✓ Clipboard holder
- ✓ Double action parking brake
- ✓ E series EZ-view mast
- ✓ LED headlights – OHG mounted with combination switch
- ✓ Load Backrest
- ✓ Overhead guard (ANSI)
- ✓ Regenerative braking
- ✓ Solid state accelerator control
- ✓ Tilt steering column
- ✓ Travel speed limit (Turtle speed On/Off switch)

OPTIONAL EQUIPMENT

- ☐ Cold storage/freezer protection
- ☐ Drive-in rack headguard
- ☐ 2" raised/lowered headguard
- ☐ UL 'EE' rating
- ☐ Battery slide system
- ☐ Back-up alarm or smart back-up alarm
- ☐ Travel alarm
- ☐ Rear view mirror
- ☐ Rear, strobe and back-up lights
- ☐ Static discharge strap
- ☐ Fire extinguisher
- ☐ Seat activated parking brake
- ☐ Directional control pedal
- ☐ Left side battery connector
- ☐ Operator cooling fan
- ☐ Tilt cylinder boots
- ☐ Steer axle boots

Contact your authorized dealer for other options.

MOTORS

Drive motor is AC three-phase induction-type motor with fully sealed-for-life bearings. Internal cooling and temperature sensors allow top performance in all applications. Motor is temperature rated with Class F insulation. Drive motor power rating is 10.1 kW (13.5 HP) with 36-volt system and 13.4 kW (18.0 HP) with 48-volt system (1 hour rating).

Hydraulic pump motor is AC three-phase induction-type motor with fully sealed-for-life bearings. Internal cooling and temperature sensors allow top performance in all applications. Motor is temperature rated with Class F insulation. Hydraulic pump motor rating is 10.9 kW (14.6 HP) with 36-volt system and 14.6 kW (19.6 HP) with 48-volt system (5 minute rating).

There is no Power Steering Motor.

AC motors are virtually maintenance-free, save for visual inspection and periodic cleaning to blow dust out. There are no brushes to replace and no brush rigging to maintain.

ELECTRICAL SYSTEM

The electrical system automatically recognizes and will operate on either a 36- or 48-volt battery. Minor adjustments to the controller may be made without tools to tune the system to the battery voltage. A Battery State of Charge Indicator with Lift Interrupt is standard. Major electrical components consist of the drive motor, the hydraulic pump motor, a multi-purpose display console, direction and accelerator switches, and an integrated main controller.

The integrated main controller controls all traction and hydraulic functions as well as providing the power supply and communications. The power supply feeds separate MOSFET inverters for the drive and hydraulic motors. A main contactor provides protection in the event of system failure. The controller is fan cooled and the optional UL 'EE' rated model has a fully enclosed controller housing.

The multi-purpose display unit is mounted on the truck console for easy access and better visibility. The panel displays current operational status of the lift truck, various error codes if an operational error occurs, system status during inspection and maintenance, and other operational data. The display unit is also used to access the main controller for setting adjustable parameters and for service technician access for troubleshooting.

Adjustable parameters may be set in the 'user mode' or in the 'service mode'. The 'user mode' is available only if the technician has turned the "OVERRIDE SETTINGS" to "OFF" in the 'service mode.' 'User mode' settings include Drive Power, Lift Speed, Tilt Speed, and Turtle Speed Limit. The driver may always select the Turtle Speed to ON or OFF with the push of a single button. Additional parameters that may be set in 'service mode' include Maximum Travel Speed, Regenerative Braking Profiles, Acceleration Profiles, Hour Meter Indicators, and the Battery Discharge Indicator.

No tools are required to access the 'service mode' of the controller.

KOMATSU OPERATOR PRESENCE SYSTEM (KOPS)

The Komatsu Operator Presence System is regulated by the main controller and prevents basic truck operation unless the operator is in the normal operating position as indicated through a seat switch. If the operator is not in the proper operating position then neither travel nor lift/lower functions will operate. During normal truck operation there is a slight time delay to allow for momentary operator displacement before the KOPS takes effect.

DRIVE AXLE

The cast steel drive axle housing supports the weight of the truck chassis and the load to transfer the load on the mast directly through to the tires. Neither the drive axle nor the truck chassis carries any weight of the load. The drive motor is mounted transverse to the drive axle for optimum power transfer.

BRAKES

Regenerative electrical braking is programmable in four modes: Direction Reversing, Neutral (with accelerator pedal raised), Ramp Operation, and with the Brake Pedal. Also equipped with hydraulically operated, self-energizing, drum and shoe-type brakes on each drive wheel for positive operator control. Hand-operated parking brake with warning alert if operator leaves seat without applying brake. Two-step parking brake release handle to reduce the chance of accidental release.

MAST & CARRIAGE

EZview Mast System for improved operator visibility, available in 2-stage Free View; 2-stage, 3-stage, and 4-stage Full Free Lift Free View type.

- Sealed bearings for reduced maintenance with standard side thrust rollers on carriage.

- ITA standard Class II or Class III 6-roller carriage.
- 48" high load backrest.
- Single and double function internal hydraulic hosing is available for operating attachments.

FRAME

Welded steel construction frame with integral hydraulic reservoir and box construction for durability. Easy top battery removal with low side panel. Battery slide system may be retrofitted in field.

POWER STEERING & STEER AXLE

No separate power steering motor and pump. "On Demand" Fully Hydrostatic Power Steering is operated off main hydraulic pump running at low speed with a priority diverter valve. Solid beam steer axle is mounted on rubber mounts with eccentric trunnions to absorb impact and control axle articulation. Slimline tilting steering column and small diameter steering wheel improve operator comfort and visibility.

HYDRAULIC SYSTEM

Single hydraulic pump and AC motor for main hydraulics and power steering is operated by the integrated controller for high efficiency and high performance. Three-spool control valve with individual port relief is standard.

OPERATOR COMPARTMENT

The operator compartment is designed for comfort and productivity. Large open steps with low step height, wide open floor board with optimum pedal placement, tilt steering column, small diameter steering wheel, display panel on console and seat-side hydraulic levers all combine to create the most open and visible operator environment possible. Heavy-duty, vinyl-covered Comfort Seat with hip restraints and retractable seat belt adjusts up to 6" fore and aft.

SERVICEABILITY

The battery hood opens a full 90° to facilitate overhead battery removal and hydraulic pump motor access. AC traction and hydraulic motors have no brushes or other normal replacement maintenance items. The master AC Controller has no consumable maintenance items.

COMPLIANCE & APPROVALS

Meets or exceeds American National Standards Institute, ASME B56.1—Part III Safety Standards for Powered Industrial Trucks.

Classified by Underwriter's Laboratories, Inc. as to fire and electric shock hazard only; Type ES Industrial Trucks.

KOM80-01

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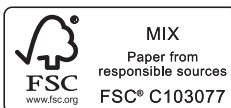
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