

BBX50 series

SPECIFICATIONS

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







The Forklift With Proven Ability.™ ISO 9001 CERTIFIED

| GENERAL | | | | | |
|-----------------------------------------------------------------------------------------|-------------------------|-------------------------------------------|------------------------------------------------------|-------------------------------------------|--|
| Power Type: Electric, Gas, Diesel, LPG | | Electric (36V) | FB20SHU-6 Electric (48V) | Electric (36V) | |
| | | Sit-Down | Sit-Down | Sit-Down | |
| Operation Type 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 WEIGHT | in. (mm) | 51.2 (1,300) | 51.2 (1,300) | 51.2 (1,300) | |
| Service weight (includes, min. weight battery) | lbs (kg) | 9.020 (4.050) | 8 020 (4 050) | 0.610 (4.420) | |
| | lbs. (kg) | 8,930 (4,050) | 8,930 (4,050) | 9,610 (4,420) | |
| TIRE | | Cushion | Cushion | Cushion | |
| Tire type | | 21 x 7 x 15 | | | |
| Tire size, front | | | 21 x 7 x 15 | 21 x 7 x 15 | |
| | x=driven | 16 x 5 x 10.5 2x / 2 | 16 x 5 x 10.5 2x / 2 | <u>16 x 6 x 10.5</u> 2x / 2 | |
| | | | 34.8 (885) / 35.6 (905) | | |
| Tread (center of tires) front / rear DIMENSIONS | in. (mm) | 34.8 (885) / 35.6 (905) | 34.8 (882) / 33.8 (903) | 34.8 (885) / 35.0 (890) | |
| | dog | 6/8 | 6/8 | 6/8 | |
| Tilting angle, 2-stage masts, (forward / backward) | deg. | 6/5 | 6/5 | 6/8 | |
| Tilting angle, 3-stage masts, (forward / backward) | deg. | | | | |
| 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) † Maximum fork height (2-stage std. mast) * * | in. (mm) | 176.0 (4,470) | 176.0 (4,470) | 176.0 (4,470) | |
| | in. (mm) in. (mm) | 128.0 (3,250) | 128.0 (3,250) 5.5 (140) | 128.0 (3,250) | |
| Free lift height (2-stage std. mast) | in. (mm) | 5.5 (140) | | 5.5 (140) 86.8 (2,205) | |
| Height overhead guard Length to fork face (2-stage mast) | | 86.8 (2,205) | 86.6 (2,200) | , | |
| | 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) | | |
| Carriage width / ITA Class Ground clearance, under 2-stage std. mast | in. (mm) | 37.0 (940) / II | 37.0 (940) / II | 37.0 (940) / II | |
| Ground clearance, under 3-stage std. mast | in. (mm) in. (mm) | 5.5 (140) | 5.5 (140) 5.5 (140) | 5.5 (140) | |
| | | 5.5 (140) | | 5.5 (140) | |
| Ground clearance, center of wheelbase Right angle stacking aisle (2-stage mast) †† | in. (mm) in. (mm) | 4.1 (105) 87.0 (2,210) | 4.1 (105) 87.0 (2,210) | 4.1 (105) 87.8 (2,230) | |
| Right angle stacking aisle (2-stage mast) 11 | in. (mm) | 87.0 (2,210) | 87.0 (2,210) | 87.8 (2,230) | |
| Turning radius, outside | . , | | | | |
| Battery compartment size: width x length x height | in. (mm) in. (mm) | 70.1 (1,780) | 70.1 (1,780) 38.8 x 29.1 x 23.8 (985 x 740 x 605) | 70.9 (1,800) | |
| PERFORMANCE | | 56.6 X 29.1 X 25.6 (965 X 740 X 605) | 56.6 X 29.1 X 25.6 (965 X 740 X 605) | 36.6 X 29.1 X 23.6 (965 X 740 X 605) | |
| 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 (2-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 (2-stage mast) | | | 94.5 (480) / 76.8 (390) | | |
| Maximum drawbar pull, loaded | fpm (mm/s) Ibs. (kN) | 94.5 (480) / 76.8 (390) 3,370 (15,000) | 3,370 (15,000) | 94.5 (480) / 76.8 (390) 3,370 (15,000) | |
| Maximum gradeability, loaded / unloaded at 1 mph | 1DS. (KIN) % | 25 | 25 | 21 | |
| Service brake, operation / control | 70 | Foot / Hydraulic | 25 Foot / Hydraulic | Foot / Hydraulic | |
| Parking brake, operation / control | | Hand / Mechanical | Hand / Mechanical | Hand / Mechanical | |
| Steering, type | | Hydraulic | Hydraulic | Hydraulic | |
| DRIVE | | nyurdunc | riyuraunc | Hydraulic | |
| 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 | Ibs. (kg) | 2,430 (1,100) | 2,430 (1,100) | 2,430 (1,100) | |
| Battery weight, maximum | lbs. (kg) | 2,820 (1,275) | 2,430 (1,100) | 2,820 (1,275) | |
| OTHER | 103. (Kg) | 2,020 (1,273) | 2,020 (1,273) | 2,020 (1,273) | |
| 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) | |
| · · · · · · · · · · · · · · · · · · · | gallons (liters) | 7.1 (27) | 7.1 (27) | 7.1 (27) | |
| | ganons (nters) | 1.1 (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.

| HZ2500-03 HZ2500-03 HZ2500-03 HZ2500-03 HZ2500-03 5500 52200 S000 5200 S000 52000 S000 52 | | | | | | |
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| 17.0 (437) 17.0 (437) 17.4 (420) 14.4 (427) 13.2 (1.300) 13.3 (1.480) 53.3 (1.480) 13.2 (1.300) 53.3 (1.480) 53.3 (1.480) 0.6 (6) (4.470) 0.0 (0.435) 5.670 (4.355) 10.66 (4.670) 10.60 (4.670) 21.7 2 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21.7 2 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21.7 2 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21 : 8 : 15 21.7 2 : 25 22.7 2 22.7 2 22.7 2 27.7 2 27.7 2 38.3 (100) 55 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : 4000 / 35 : | | | , , , | | , , , | |
| 512 (1,380) 58.3 (1,480) 58.3 (1,480) 58.3 (1,480) 58.3 (1,480) 2,810 (4,420) 2,870 (4,328) 2,870 (4,328) 10,680 (4,89) 10,680 (4,89) Cubion Cubion Cubion Cubion Cubion Cubion 2,12 × 7x 15 21 × 8 x 15 2,12 × 7x 15 2,12 × 8 x 15 21 × 8 x 15 3,8, (880) / 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) 4,18 6,18 6,18 6,18 6,18 6,18 6,15 6,15 6,15 6,15 6,15 128,0 (2,50) 178,0 (4,70) 175,0 (4,70) 175,0 (4,70) 156,0 (2,70) 128,0 (2,50) 178,0 (2,20) 88 (2,23) 88 (2,23) 88 (2,23) 128,0 (2,50) 178,0 (2,20) 88 (2,23) 88 (2,23) 88 (2,23) 128,0 (2,50) 178,0 (2,20) 88 (2,23) 88 (2,23) 88 (2,23) </td <td> </td> <td></td> <td></td> <td></td> <td>. ,</td> <td></td> | | | | | . , | |
| 9,600,64,620 9,670,64,380 9,670,64,380 10,680,64,840 10,680,64,840 21 x 7 x 15 21 x 8 x 15 | | | | | | |
| Curbin Curbin Curbin Curbin Curbin Curbin Curbin 21 x 2 x 15 21 x 8 x 15 21 x 2 x 12 2x / 2 | 51.2 (1,300) | 58.3 (1,480) | 58.3 (1,480) | 58.3 (1,480) | 58.3 (1,480) | |
| Curbin Curbin Curbin Curbin Curbin Curbin Curbin 21 x 2 x 15 21 x 8 x 15 21 x 2 x 12 2x / 2 | | | | | | |
| 21 k 2 k 15 21 k 8 k 15 21 k 8 k 15 21 k 8 k 15 16 k 5 k 10.5 16 k 5 k 10.5 16 k 6 k 10.5 16 k 6 k 10.5 16 k 6 k 10.5 2 k 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 4 2 1 2 k 2 2 2 k 4 2 1 2 k 2 2 2 k 4 2 1 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 | 9,610 (4,420) | 9,670 (4,385) | 9,670 (4,385) | 10,680 (4,845) | 10,680 (4,845) | |
| 21 k 2 k 15 21 k 8 k 15 21 k 8 k 15 21 k 8 k 15 16 k 5 k 10.5 16 k 5 k 10.5 16 k 6 k 10.5 16 k 6 k 10.5 16 k 6 k 10.5 2 k 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 2 4 2 2 2 k 4 2 1 2 k 2 2 2 k 4 2 1 2 k 2 2 2 k 4 2 1 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 k 2 2 | | | | | | |
| If is is is 0.5 22/2 22/2 22/2 22/2 22/2 22/2 34.8 (855) / 35.0 (890) 35.4 (900) / 35.0 (890) 35.4 (900) / 35.0 (890) 35.4 (900) / 35.0 (890) 5/8 6/5 6/5 6/5 6/5 6/5 85.5 (2.12) 85.5 (2.12) 85.5 (2.12) 85.5 (2.12) 85.5 (2.12) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 178.0 (4.470) 18.1 (2.065) 87.6 (2.230) 87.8 (2.230) 87.8 (2.230) 87.8 (2.230) 81.1 (2.065) 87.6 (2.230) 87.6 (2.230) 88.8 (2.255) 88.8 (2.255) 18.1 (2.065) 87.6 (2.230) 87.8 (2.230) 88.8 (2.255) 88.8 (2.255) 18.1 (2.064) 18.1 (0.061) 41.0 (0.051) 0.04 (4.210) 17.0 (4.071) 18.1 (2.064) 18.2 (0.23) 88.8 (2.255) 88.8 (2.255) 88.1 (2.251) 88.8 | | | | | | |
| 2x/2 2x/2 2x/2 2x/2 2x/2 2x/2 34.8 (855)/35.0 (890) 35.4 (900)/35.0 (890) 35.4 (900)/35.0 (890) 35.4 (900)/35.0 (890) 6.68 6.68 6.78 6.78 6.78 6.78 6.63 6.65 6.75 6.75 6.75 6.75 85.5 (2,172) 85.5 (2,172) 85.5 (2,172) 85.5 (2,172) 85.5 (2,172) 17.60 (4.470) 17.60 (4.470) 17.80 (4.470) 17.80 (4.470) 17.80 (4.470) 12.80 (2,290) 12.80 (2,250) 12.80 (2,250) 12.80 (2,250) 12.80 (2,250) 85.8 (2,05) 87.8 (2,250) 87.8 (2,250) 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) 11.5 1.9 + 2.1 90 (100 - 170) 15.7 3.9 + 2.1 90 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (100 - 170 (10 | 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 | |
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| 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <th100< th=""> <th100< th=""> <th100< th=""></th100<></th100<></th100<> | | 92.9 (2,360) | 92.9 (2,360) | 94.5 (2,400) | 94.5 (2,400) | |
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| 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) 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) 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) 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) 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) 3,370 (15.000) 3,370 (15.000) 170 17 17 17 17 17 17 17 18.0 (13.4) 13.5 (10.1) 18.0 (13.4) | 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) | |
| 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) 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) 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) 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) 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) 3,370 (15.000) 3,370 (15.000) 170 17 17 17 17 17 17 17 18.0 (13.4) 13.5 (10.1) 18.0 (13.4) | | | | | | |
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| MOSFET AC Inverter MOSFET AC Inverter MOSFET AC Inverter MOSFET AC Inverter 2,698 (186) 2,698 (186) 2,698 (186) 2,698 (186) | | | | | | |
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| 2,698 (186) 2,698 (186) 2,698 (186) 2,698 (186) 2,698 (186) | | | | MOGETTAC | | |
| | | | | | | |
| 7.1 (27) 10.3 (39) 10.3 (39) 10.3 (39) 10.3 (39) | | | | | | |
| | 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

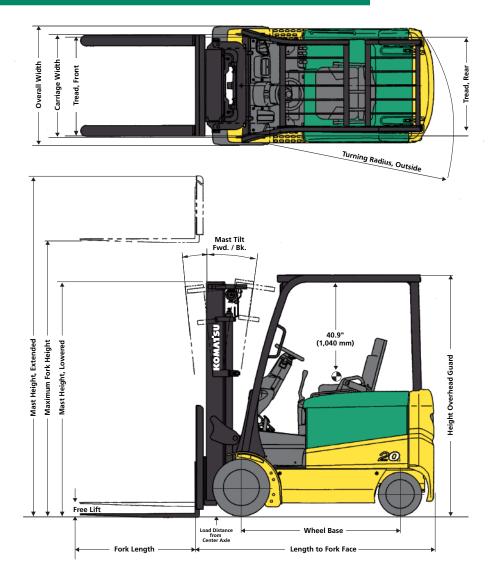
| FB32SHU-6 | FB32SHU-6 |
|------------------------------------------|--------------------------------------|
| Electric (36V) | Electric (48V) |
| Sit-Down | Sit-Down |
| 6,500 (2,950) | 6,500 (2,950) |
| 14.4 (442) | 14.4 (442) |
| | |
| 14.4 (442) | 14.4 (442) |
| 58.3 (1,480) | 58.3 (1,480) |
| | |
| 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) | 30.0 X 30.2 X 23.0 (903 X 920 X 003) |
| 7 5 (12 0) (8 1 (12 0) | |
| 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) |
| 5/000 (1/500) | |
| 3,800 (1,725) | 3,800 (1,725) |
| | 3,800 (1,725) |
| | 3,800 (1,725) MOSFET AC Inverter |
| 3,800 (1,725) MOSFET AC Inverter | MOSFET AC Inverter |
| 3,800 (1,725) | |

| Maximum Fork Height in. (mm) | Lowered in. (mm) | Height [†] Extended [†] in. (mm) | Free Lift [†] in. (mm) | |
|------------------------------------|---------------------|----------------------------------------------------------|------------------------------------|--|
| EZvie 2-STAGE FR | | U-6 & FB20-25 | SHGU-6 | |
| 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) | |
| | LL FREE VIEW | | 010 (110) | |
| 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 FR | EE 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 FU | LL 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) | |
| | | FB32SHU-6 | | |
| 2-STAGE FR | | | | |
| 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.

MAST DATA & SPECIAL FEATURES (continued)





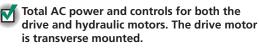


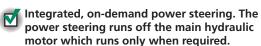
Komatsu "Proven Ability"

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





- 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 indicato 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 spee On/Off switch)

OPTIONAL EQUIPMENT

| \Box | 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 |
| | |

TECHNICAL DATA

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 Komfort Seat with hip restraints and retractable seat belt adjusts up to 6" fore and aft.

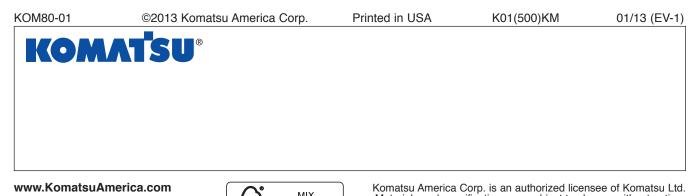
SERVICEABILITY

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.



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