

# KOMATSU®

# BBX50

*36 Volt / 48 Volt Electric*

**4-WHEEL CUSHION FORKLIFTS**



**RATED CAPACITY**

4,000 - 6,500 lb  
1815 - 2950 kg

**LOAD CENTER**

24 in.  
600 mm

BBX50 SERIES

# WALK-AROUND

BBX50 SERIES



FB30SHU-6

Photos may include optional equipment.

## RATED CAPACITY @ LOAD CENTER

### Cushion

FB20SHU-6	4,000 lb (1,815 kg) @ 24 in. (600mm)	Std. Battery Compartment
FB25SHU-6	5,000 lb (2,270 kg) @ 24 in. (600mm)	Std. Battery Compartment
FB25SHEU-6	5,000 lb (2,270 kg) @ 24 in. (600mm)	"EE" Rated, Std. BC
FB25SHGU-6	5,000 lb (2,270 kg) @ 24 in. (600mm)	Larger Battery Compartment
FB30SHU-6	6,000 lb (2,725 kg) @ 24 in. (600mm)	Larger Battery Compartment
FB32SHU-6	6,500 lb (2,950 kg) @ 24 in. (600mm)	Larger Battery Compartment

## Comfort & Efficiency

- Komatsu was the first manufacturer to offer TOTAL AC drive and hydraulic systems for longer run times between battery charges and greater overall efficiency
- Ergonomic designs offer the operator easy entry/exit, lots of foot and leg room, easy access to deck mounted hydraulic control levers and steer column directional controls
- Multi-purpose display and machine programming panel provides exceptional value and lots of application flexibility
- Komatsu's EZview mast offers an excellent view for precise load handling

## Durability & Reliability

- 90+ years of design & manufacturing experience in heavy equipment allows Komatsu to deliver exceptional performance with the durability, reliability and quality you should expect from a world class manufacturer
- Komatsu Engineering Standards push our products to exceed industry standards
- Easy access for daily checks and routine maintenance reduces downtime and overall costs while an on-board diagnostic system makes troubleshooting and repairs quick and simple

## Ecology & Economy

- Komatsu's TOTAL AC drive and hydraulic systems provide greater value by running longer and doing more work per battery charge
- Electric forklifts produce no harmful emissions and are very eco-friendly which reduces environmental impact
- Komatsu's BBX50 provides a high performance material handling solution and an alternative to internal combustion forklifts in a wide variety of material handling applications with reduced maintenance costs and lifetime operational cost advantages



# COMFORT & EFFICIENCY



## Accelerate Power, Performance and Productivity

### Total AC Power

Komatsu technology accelerates your productivity with superior performance from Total AC Power traction and hydraulic systems. The new standard in electric forklifts, the Komatsu BBX50 Series offers six heavy-duty models ranging from 4,000 lbs. to 6,500 lbs. lifting capacity with standard or extended range battery compartments.

### Komatsu Gives You More...

- More power and quicker acceleration to move more loads
- More control to reduce product damage
- More capacity to carry more cases
- More run time in the cooler or freezer...and Less
- Fewer emissions for cleaner operations
- Less maintenance for lower cost of operation

Whether you are moving two loads or two thousand, you can count on Komatsu to meet the challenge of a demanding application. Accelerate to the Future with Komatsu BBX50 Total AC Power.

### EZview® Mast

With the excellent visibility window of the EZview® the BBX50 operator has a great view of the fork tips and surroundings for confident load handling. To the back of the machine, the slim contoured counterweight offers good sightlines for reverse travel and maneuvering.



## See the Difference. See the Results.

Komatsu gives a new look to your forklift. Extensive research and ergonomic engineering provides the operator with easy access and a wide open view. You can see the comfort and confidence through increased productivity. Ergonomic designs for greater operator comfort.

- Slim line steering column
- Small two-spoke steering wheel
- EZ View mast
- Large dash display on console
- Ultra-bright LED headlights Operator Comfort and Confidence
- Tilt steering column
- Wide open floorboard area with optimum pedal placement
- Komfort® seat
- Large entry access hand grip
- Lowered step height
- Cupholder, convenience tray and work order clipboard
- Low noise level with on-demand power steering
- Operator controlled speed limiting turtle mode

# DURABILITY & RELIABILITY

## Our Electrical Heritage & Experience are Built-In!!

You can rely on Komatsu's nearly 100 years of experience in designing and building durable and rugged machines used every day in tough construction & mining applications. Our advanced engineering designs and strict adherence to our own Komatsu Engineering Standards ensures that high quality, durability and renowned reliability is designed and built-in to every BBX50 electric forklift.



## The Strongest Link in the Supply Chain

### The Reliability of TOTAL AC

- AC master controller—self-diagnostic / low maintenance
- AC traction motor—maintenance free
- AC hydraulic motor—maintenance free
- No power steering motor

### The Leader in Reliability, Komatsu Offers:

- Standard LED head lamps
- O-Ring face seal hydraulic fittings
- Solid State accelerator pedal assembly
- Durable and quiet helical gear, double reduction transaxle with transverse mounted large diameter drive motor



## Multi-Purpose Display and Programming Panel Provides Exceptional Value and Versatility

### Programmable Performance

- Driver selectable turtle mode
- Supervisor adjustable performance-power curve, lift speed, tilt speed, turtle speed
- On-board diagnostics with technician adjustable parameters—supervisor override, maximum travel speed, regenerative braking (four modes), hour meter indicator, battery state of charge indicator and lift interrupt
- Maintenance monitor mode
- Password protected access, no service tool required
- Automatic selection, dual-voltage system, 36- or 48-volt

### Communication Center

- Battery state of charge indicator
- Travel speed and drive power indicator
- Service message, parking brake and turtle mode indicator
- Two line, 24 character system status display message



# ECONOMY & ECOLOGY

## Komatsu BBX50 Made Especially for You

The BBX50 speaks directly to your bottom line with an extended model range and optional packages to handle your special application.

- UL 'EE' rating as to fire and electric shock hazard (FB25SHEU-6)
- Freezer conditioning for cold storage applications
- Slide-out battery removal for multi-shift operation
- Large battery compartment for extended run time
- 6,500 lb. capacity model for larger loads
- Special tires for wet floors
- Integral sideshift for increased capacity
- A variety of attachments available for custom applications

## Share Our Strength

Komatsu Forklift users benefit from Komatsu's more than 90 years of experience with engineering excellence in heavy equipment. Komatsu Forklift has been providing material handling solutions for over 50 years.

### Komatsu Gives You More...

- One piece, cast steel final drive housing
- Rubber mounted steer axle with double acting steering cylinder mounted inside axle structure
- Water-proof electrical connectors
- Heavy-duty, self-activating, drum and shoe service brakes
- Welded frame construction with integral hydraulic reservoir

Let us show you how durability by design and industry leading technology can accelerate your productivity. Contact your authorized Komatsu dealer today.

### Komatsu Value

Komatsu beats the competition by taking the complicated and making it simple. We strive to provide innovative solutions using the technologies of tomorrow—today.

## Electric Forklifts are Better for the Environment and Will Lower Your Operational Costs

- Electric forklifts generate less noise and vibration leading to reduced operator fatigue
- Electric forklifts have fewer moving parts which leads to lower maintenance and operational costs
- Electric forklifts produce zero emissions, meaning a cleaner working environment for your operators and employees
- Electric forklifts have lower environmental impact and utilize renewable resources making them a great choice for today's eco-friendly world



# 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 designed to be nearly maintenance-free, save for visual inspection and periodic cleaning to blow out dust. 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.

## 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.

# EQUIPMENT

## 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
- 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
- UL 'EE' rating (FB25SHEU-6)
- 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
- Operator cooling fan
- Tilt cylinder boots
- Full suspension seat
- Assist grip with horn button
- Blue spotlight
- Rapid charge ready
- Non-marking tires

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)



# SPECIFICATIONS

GENERAL		FB32SHU-6	FB32SHU-6
Power Type: Electric, Gas, Diesel, LPG		Electric (36V)	Electric (48V)
Operation Type		Sit-Down	Sit-Down
Capacity @ 24 in. (600 mm) load center *	lbs. (kg)	6,500 (2,950)	6,500 (2,950)
Load distance from center of axle (2-stage mast)	in. (mm)	14.4 (442)	14.4 (442)
Load distance from center of axle (3-stage mast)	in. (mm)	14.4 (442)	14.4 (442)
Wheelbase	in. (mm)	58.3 (1,480)	58.3 (1,480)
WEIGHT			
Service weight (includes, min. weight battery)	lbs. (kg)	11,315 (5,130)	11,315 (5,130)
TIRE			
Tire type		Cushion	Cushion
Tire size, front		21 x 8 x 15	21 x 8 x 1
Tire size, rear		16 x 6 x 10.5	16 x 6 x 10.5
Number of wheels, front / rear	x=driven	2x / 2	2x / 2
Tread (center of tires) front / rear	in. (mm)	35.4 (900) / 35.0 (890)	35.4 (900) / 35.0 (890)
DIMENSIONS			
Tilting angle, 2-stage masts, (forward / backward)	deg.	6 / 8	6 / 8
Tilting angle, 3-stage masts, (forward / backward)	deg.	6 / 5	6 / 5
Mast height, lowered (2-stage std. mast)	in. (mm)	88.5 (2,248)	88.5 (2,248)
Mast height, extended (2-stage std. mast) †	in. (mm)	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)
Free lift height (2-stage std. mast)	in. (mm)	5.5 (140)	5.5 (140)
Height overhead guard	in. (mm)	87.8 (2,230)	87.8 (2,230)
Length to fork face (2-stage mast)	in. (mm)	89.8 (2,280)	89.8 (2,280)
Length to fork face (3-stage mast)	in. (mm)	89.8 (2,280)	89.8 (2,280)
Overall width, at drive tires	in. (mm)	43.3 (1,100)	43.3 (1,100)
Forks, thickness x width x length	in. (mm)	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)
Carriage width / ITA Class	in. (mm)	37.0 (940) / III	37.0 (940) / III
Ground clearance, under 2-stage std. mast	in. (mm)	5.5 (140)	5.5 (140)
Ground clearance, under 3-stage std. mast	in. (mm)	5.5 (140)	5.5 (140)
Ground clearance, center of wheelbase	in. (mm)	4.1 (105)	4.1 (105)
Right angle stacking aisle (2-stage mast) ††	in. (mm)	96.1 (2,440)	96.1 (2,440)
Right angle stacking aisle (3-stage mast) ††	in. (mm)	96.1 (2,440)	96.1 (2,440)
Turning radius, outside	in. (mm)	78.5 (1,995)	78.5 (1,995)
Battery compartment size: width x length x height	in. (mm)	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)
PERFORMANCE			
Travel speed, forward, loaded / unloaded	mph (km/hr)	7.5 (12.0) / 8.1 (13.0)	9.3 (15.0) / 10.3 (16.5)
Lifting speed, loaded / unloaded (2-stage mast)	fpm (mm/s)	47.2 (240) / 93.5 (475)	65.0 (330) / 110.2 (560)
Lifting speed, loaded / unloaded (3-stage mast)	fpm (mm/s)	45.3 (320) / 82.7 (420)	63.0 (320) / 104.3 (530)
Lowering speed, loaded / unloaded (2-stage mast)	fpm (mm/s)	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)
Maximum drawbar pull, loaded	lbs. (kN)	3,370 (15,000)	3,370 (15,000)
Maximum gradeability, loaded / unloaded at 1 mph	%	17	17
Service brake, operation / control		Foot / Hydraulic	Foot / Hydraulic
Parking brake, operation / control		Hand / Mechanical	Hand / Mechanical
Steering, type		Hydraulic	Hydraulic
DRIVE			
Drive motor, 60 minute rating	HP (kW)	13.5 (10.1)	18.0 (13.4)
Pump motor, 5 minute rating	HP (kW)	14.6 (10.9)	19.6 (14.6)
Battery voltage	volts	36	48
Battery capacity, minimum	Ah/6 hr. rate	900	675
Battery capacity, maximum	Ah/6 hr. rate	1,650	1,210
Battery weight, minimum	lbs. (kg)	3,000 (1,360)	3,300 (1,500)
Battery weight, maximum	lbs. (kg)	3,800 (1,725)	3,800 (1,725)
OTHER			
Drive motor control		MOSFET AC Inverter	MOSFET AC Inverter
Relief pressure, maximum		psi (bar)	2,698 (186)
Hydraulic tank capacity		U.S. gallons (liters)	10.3 (39)

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 i a h p g a K % b n l i r a A l k i h l A i Z i i d Z t i g p t a r h n k Z r a h k s A i A Z e K

# MAST DATA

Maximum Fork Height in. (mm)	Lowered Mast Height† in. (mm)	Extended† Mast Height† in. (mm)	Free Lift† in. (mm)
<b>"EZview" FB20-25SHU-6 &amp; FB20-25SHGU-6</b>			
<b>2-STAGE FREE VIEW</b>			
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)
<b>3-STAGE FULL FREE VIEW</b>			
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)
<b>"EZview" FB30SHU-6</b>			
<b>2-STAGE FREE VIEW</b>			
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)
<b>3-STAGE FULL FREE VIEW</b>			
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)
<b>"EZview" FB32SHU-6</b>			
<b>2-STAGE FREE VIEW</b>			
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)
<b>3-STAGE FULL FREE VIEW</b>			
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)

Maximum Fork Height in. (mm)	Lowered Mast Height† in. (mm)	Extended† Mast Height† in. (mm)	Free Lift† in. (mm)
<b>FB20-25SHU-6 and FB25SHEU-6/FB25SHGU-6</b>			
<b>4-STAGE FULL FREE VIEW</b>			
193 (4902)	71.5 (1816)	241 (6121)	23.5 (597)
197 (5004)	72.5 (1842)	245 (6223)	24.5 (622)
221 (5613)	78.5 (1994)	269 (6833)	30.5 (775)
241 (6121)	83.5 (2121)	289 (7341)	35.5 (902)
259 (6579)	89.5 (2273)	307 (7798)	41.5 (1054)
277 (7036)	95.5 (2426)	281 (7137)	47.5 (1207)
295 (7493)	101.5 (2578)	343 (8712)	53.5 (1359)
<b>FB30SHU-6</b>			
<b>4-STAGE FULL FREE VIEW</b>			
193 (4902)	71.5 (1816)	241 (6121)	23.5 (597)
197 (5004)	72.5 (1842)	245 (6223)	24.5 (622)
221 (5613)	78.5 (1994)	269 (6833)	30.5 (775)
241 (6121)	83.5 (2121)	289 (7341)	35.5 (902)
259 (6579)	89.5 (2273)	307 (7798)	41.5 (1054)
277 (7036)	95.5 (2426)	281 (7137)	47.5 (1207)
295 (7493)	101.5 (2578)	343 (8712)	53.5 (1359)
<b>FB32SHU-6</b>			
<b>4-STAGE FULL FREE VIEW</b>			
193 (4902)	71.5 (1816)	241 (6121)	23.5 (597)
197 (5004)	76.5 (1943)	245 (6223)	28.5 (724)
217 (5512)	81.5 (2070)	265 (6731)	33.5 (851)
221 (5613)	82.5 (2096)	269 (6833)	34.5 (876)
241 (6121)	87.5 (2223)	289 (7341)	39.5 (1003)
257 (6528)	94.5 (2400)	305 (7747)	46.5 (1181)
276 (7010)	101.5 (2578)	324 (8230)	53.5 (1359)
296 (7518)	109.5 (2781)	344 (8738)	61.5 (1562)

GHM-3Li 1.8L 2000mm 2.5L 2500mm 3.0L 3000mm 3.2L 3200mm 3.5L 3500mm 4.0L 4000mm 4.5L 4500mm 5.0L 5000mm 5.5L 5500mm 6.0L 6000mm 6.5L 6500mm 7.0L 7000mm 7.5L 7500mm 8.0L 8000mm 8.5L 8500mm 9.0L 9000mm 9.5L 9500mm 10.0L 10000mm 10.5L 10500mm 11.0L 11000mm 11.5L 11500mm 12.0L 12000mm 12.5L 12500mm 13.0L 13000mm 13.5L 13500mm 14.0L 14000mm 14.5L 14500mm 15.0L 15000mm 15.5L 15500mm 16.0L 16000mm 16.5L 16500mm 17.0L 17000mm 17.5L 17500mm 18.0L 18000mm 18.5L 18500mm 19.0L 19000mm 19.5L 19500mm 20.0L 20000mm 20.5L 20500mm 21.0L 21000mm 21.5L 21500mm 22.0L 22000mm 22.5L 22500mm 23.0L 23000mm 23.5L 23500mm 24.0L 24000mm 24.5L 24500mm 25.0L 25000mm 25.5L 25500mm 26.0L 26000mm 26.5L 26500mm 27.0L 27000mm 27.5L 27500mm 28.0L 28000mm 28.5L 28500mm 29.0L 29000mm 29.5L 29500mm 30.0L 30000mm 30.5L 30500mm 31.0L 31000mm 31.5L 31500mm 32.0L 32000mm 32.5L 32500mm 33.0L 33000mm 33.5L 33500mm 34.0L 34000mm 34.5L 34500mm 35.0L 35000mm 35.5L 35500mm 36.0L 36000mm 36.5L 36500mm 37.0L 37000mm 37.5L 37500mm 38.0L 38000mm 38.5L 38500mm 39.0L 39000mm 39.5L 39500mm 40.0L 40000mm 40.5L 40500mm 41.0L 41000mm 41.5L 41500mm 42.0L 42000mm 42.5L 42500mm 43.0L 43000mm 43.5L 43500mm 44.0L 44000mm 44.5L 44500mm 45.0L 45000mm 45.5L 45500mm 46.0L 46000mm 46.5L 46500mm 47.0L 47000mm 47.5L 47500mm 48.0L 48000mm 48.5L 48500mm 49.0L 49000mm 49.5L 49500mm 50.0L 50000mm 50.5L 50500mm 51.0L 51000mm 51.5L 51500mm 52.0L 52000mm 52.5L 52500mm 53.0L 53000mm 53.5L 53500mm 54.0L 54000mm 54.5L 54500mm 55.0L 55000mm 55.5L 55500mm 56.0L 56000mm 56.5L 56500mm 57.0L 57000mm 57.5L 57500mm 58.0L 58000mm 58.5L 58500mm 59.0L 59000mm 59.5L 59500mm 60.0L 60000mm 60.5L 60500mm 61.0L 61000mm 61.5L 61500mm 62.0L 62000mm 62.5L 62500mm 63.0L 63000mm 63.5L 63500mm 64.0L 64000mm 64.5L 64500mm 65.0L 65000mm 65.5L 65500mm 66.0L 66000mm 66.5L 66500mm 67.0L 67000mm 67.5L 67500mm 68.0L 68000mm 68.5L 68500mm 69.0L 69000mm 69.5L 69500mm 70.0L 70000mm 70.5L 70500mm 71.0L 71000mm 71.5L 71500mm 72.0L 72000mm 72.5L 72500mm 73.0L 73000mm 73.5L 73500mm 74.0L 74000mm 74.5L 74500mm 75.0L 75000mm 75.5L 75500mm 76.0L 76000mm 76.5L 76500mm 77.0L 77000mm 77.5L 77500mm 78.0L 78000mm 78.5L 78500mm 79.0L 79000mm 79.5L 79500mm 80.0L 80000mm 80.5L 80500mm 81.0L 81000mm 81.5L 81500mm 82.0L 82000mm 82.5L 82500mm 83.0L 83000mm 83.5L 83500mm 84.0L 84000mm 84.5L 84500mm 85.0L 85000mm 85.5L 85500mm 86.0L 86000mm 86.5L 86500mm 87.0L 87000mm 87.5L 87500mm 88.0L 88000mm 88.5L 88500mm 89.0L 89000mm 89.5L 89500mm 90.0L 90000mm 90.5L 90500mm 91.0L 91000mm 91.5L 91500mm 92.0L 92000mm 92.5L 92500mm 93.0L 93000mm 93.5L 93500mm 94.0L 94000mm 94.5L 94500mm 95.0L 95000mm 95.5L 95500mm 96.0L 96000mm 96.5L 96500mm 97.0L 97000mm 97.5L 97500mm 98.0L 98000mm 98.5L 98500mm 99.0L 99000mm 99.5L 99500mm 100.0L 100000mm 100.5L 100500mm 101.0L 101000mm 101.5L 101500mm 102.0L 102000mm 102.5L 102500mm 103.0L 103000mm 103.5L 103500mm 104.0L 104000mm 104.5L 104500mm 105.0L 105000mm 105.5L 105500mm 106.0L 106000mm 106.5L 106500mm 107.0L 107000mm 107.5L 107500mm 108.0L 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