

3,000–5,000 lb Capacity

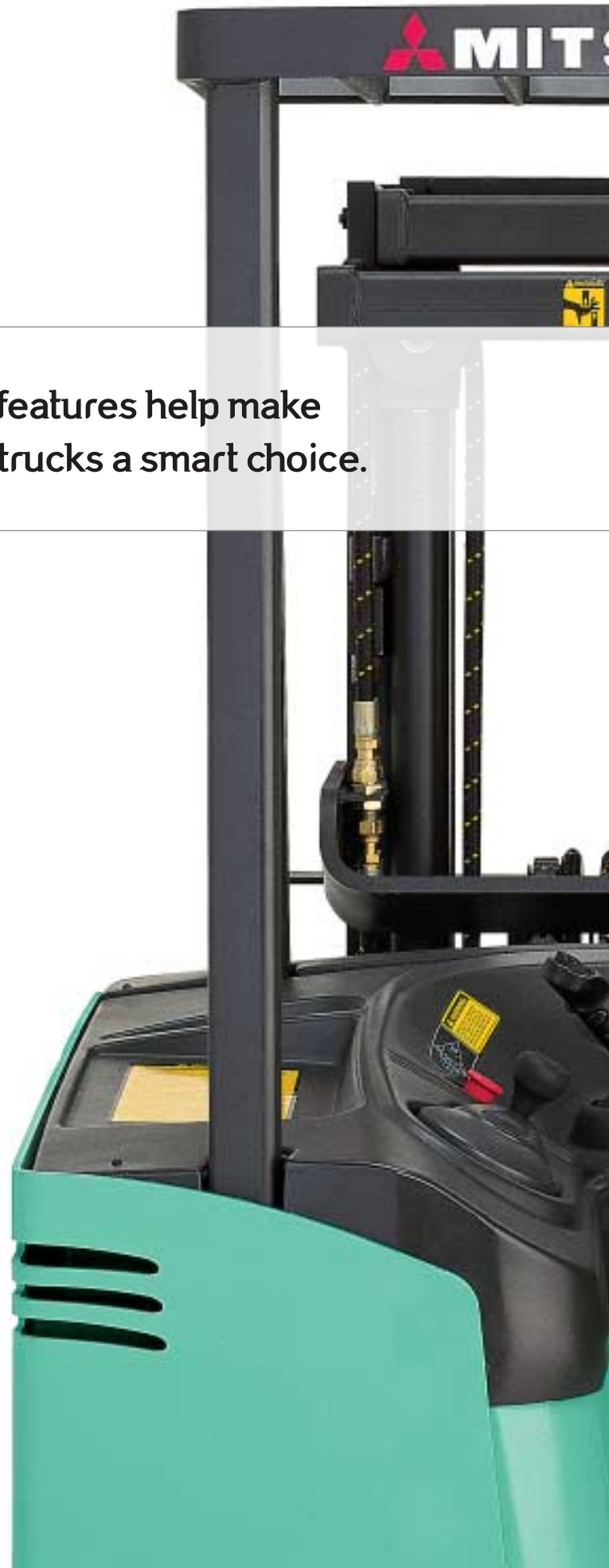
## Stand-Up End Control Forklifts



## A Reputation For Reliability

Achieving the perfect balance of innovation and value is a near obsession at Mitsubishi Forklift Trucks. Our company-wide commitment is to build forklifts that deliver reliability, power, and comfort in equal measure.

**Heavy-duty features help make these forklift trucks a smart choice.**





## Stand-Up End Control Forklifts

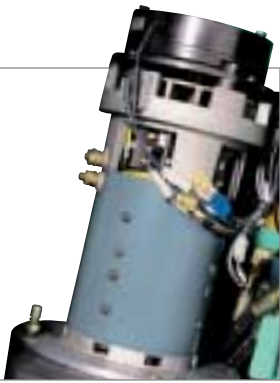
3,000–5,000 lb Capacity

### Comfort And Efficiency

This family of forklift trucks is built on the same heavy-duty chassis and each is equipped with the same Triplex mast, carriage, control system, and steering system. And as electric-powered vehicles, they run clean and quiet with absolutely no exhaust. From mast to motor, these forklift trucks are designed to tackle tight aisles, closed spaces, and demanding applications.

Model Number	Rated Capacity 24 in Load Center	610mm Load Center
FBC15KS	3000 lb	1360 kg
FBC18KS	3500 lb	1590 kg
FBC20KS	4000 lb	1820 kg
FBC25KS	5000 lb	2270 kg





## Vertical Drive Unit Design Helps Make Servicing Easy

Mounted vertically near the outside of the chassis, the transmission, brake, and drive motor are positioned for easy access. The vertical column also helps provide efficient cooling in a compact design.

## Efficient Hydrostatic Steering

A dedicated, permanent-magnet motor helps produce full hydrostatic power steering using quiet, "stealth-pump" technology.



## Truck Hydraulics

The hydraulic system is designed for quiet efficiency and simplicity of operation, utilizing separate pumps and motors for various requirements.

Components include the following:

- An efficient power steering pump and motor designed to control the small amount of oil flow required for steering
- A heavy-duty main pump and motor designed to control the heavy oil flow required to achieve competitive mast speeds
- A simple, dependable mechanical spool valve designed to precisely control mast speeds from the multi-function control handle
- A smaller auxiliary pump and motor designed to control mast tilt and operational low-speed hydraulic functions, such as sideshift
- An optional system with a dedicated lever on the dash designed to control high-speed hydraulic functions, such as carton clamps and push-pull devices.



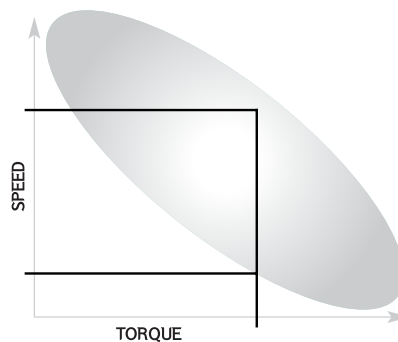
## GE® Controller With Fewer Parts

Each chassis uses two GE SX MOSFET traction controllers. These state-of-the-art devices require substantially fewer parts than earlier controllers. Servicable components, such as directional contactors, have been eliminated.

## Traction Control

Our Stand-Up End Control forklift trucks use an independent separately excited ("SEPEX") motor to power each drive wheel. SEPEX motor technology helps match motor speed and torque to an operator's demands. An independent controller for each drive motor is designed to provide continuous, proportional control to each motor. The result is improved traction in turns, on wet or smooth floors in warehouses, and in trailers. Another system benefit is a much tighter turning radius, which is a time-saving advantage in close quarters. The forklift is capable of literally turning in its own length.

## Separately Excited Drive Motors



Multiple speeds can be produced by the motor without changing torque output, as shown in the vertical line in this graph. This helps improve operator control.



## Operator's Compartment

A canted floor helps allow the operator to work comfortably against a padded, wrap-around backrest. Additional padding is offered for the operator's arm.



The heavy-duty ERGOMAT® pad on the floor and on the operator presence pedal help absorb vibration, while providing an extra measure of comfort.

The position of the operator presence pedal and controls helps allow for a flexible sidestance, enabling the operator to shift body position based on operation requirements, without releasing the controls.

The spacious, low-profile floor and entry make this forklift a smart choice for operators who need to exit and enter the forklift several times during a shift.



To keep operator materials available, a convenient tray is provided to help hold paperwork, tools, and other items.

## Functions At Your Fingertips

The ergonomically designed, multi-function control handle helps allow the operator to maneuver the forklift easily, and helps provide intuitive control of forward and reverse travel, acceleration, mast tilt, mast lift and lower, horn, and optional sideshift.





## Monitoring Forklift Truck Functions

The control panel shows a range of forklift truck conditions on a visible display, helping the operator to continuously monitor various forklift functions. In addition, programming and forklift truck diagnostics can be performed by qualified personnel through the display, without the need of a handset.

## Performance Modes

Customers can choose between four traction performance modes, and several settings can be further adjusted within each mode to meet application or operator requirements.

A narrow mast design helps give operators a clear view around the right side, a benefit in congested areas. Duplex, Triplex, and Quad masts are available, with a unique channel section that helps provide solid and secure nesting.



## Troubleshooting

Service technicians can troubleshoot the forklift truck by looking at the last 16 faults on the display. Date and time stamping can help trace when an event occurred during a shift.

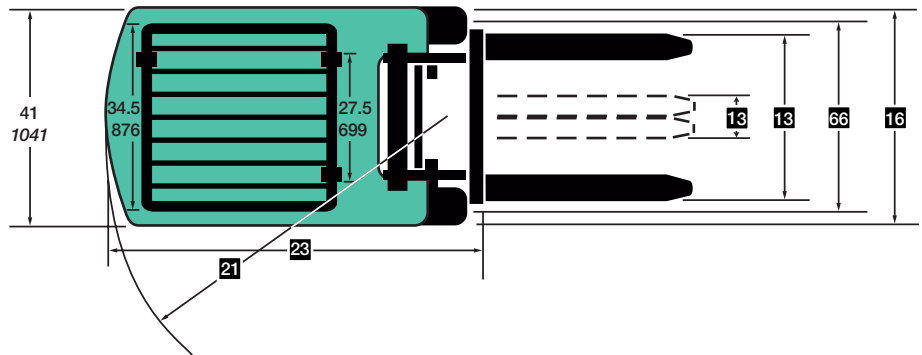
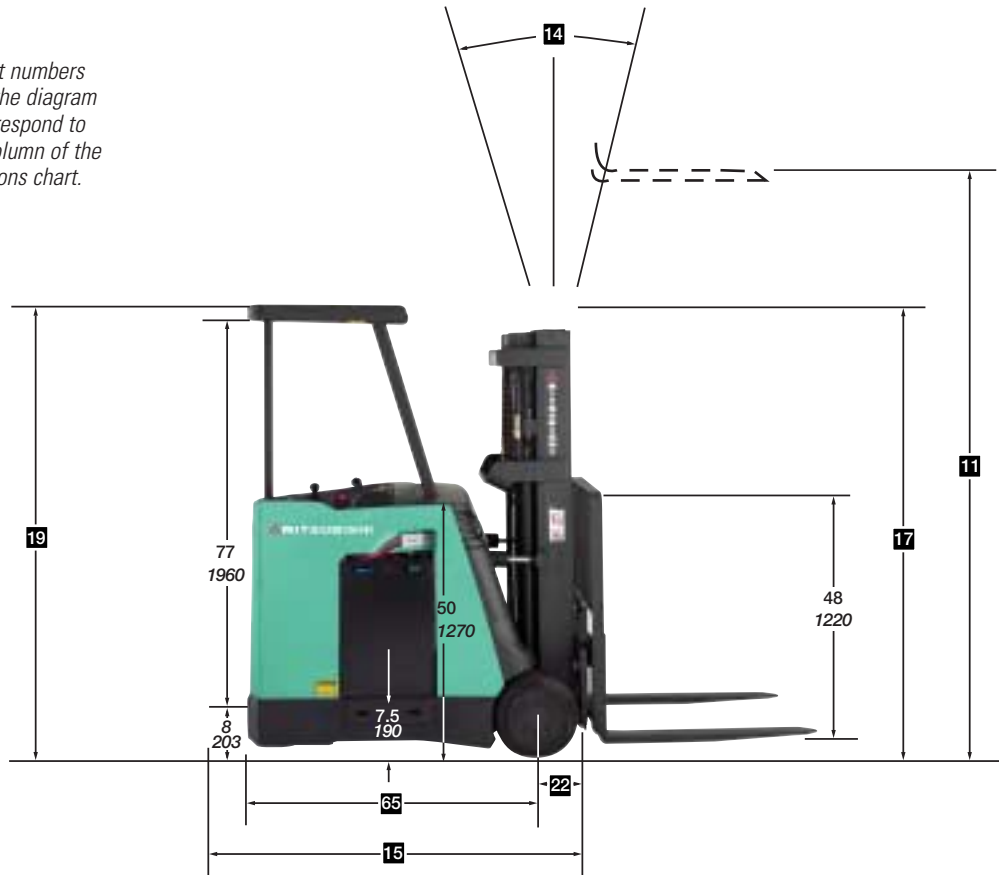
# SPECIFICATIONS

CHARACTERISTICS			FBC15KS		FBC18KS		FBC20KS				
1	Capacity	at rated load center	lb	kg	3000	1360	3500	1590	4000	1820	
2		at load center – distance	in	mm	24	610	24	610	24	610	
3	Operator Position		stand up		stand up		stand up				
4	Power	diesel, gasoline, LP gas, electric	electric		electric		electric				
5	Voltage		volts		36v		36v		36v		
6	Tire type drive/steer		solid rubber/polyurethane		solid rubber/polyurethane		solid rubber/polyurethane				
7	Wheels (x = driven)	number front / rear	2x/2		2x/2		2x/2				
<b>DIMENSIONS</b>											
10	Lift with duplex mast	maximum fork height with rated load	in	mm	152	3860	152	3860	152	3860	
11		maximum fork height	in	mm	152	3860	152	3860	152	3860	
12		free fork height	in	mm	47	1194	47	1194	47	1194	
13	Forks	thickness × length × width	in	mm	1.5×42×4		1.5×42×4		1.5×42×4		
	Fork spacing	out-to-out minimum / maximum	in	mm	8/35.5 203/902		8/35.5 203/902		8/35.5 203/902		
14	Tilt	forward / backward	deg		3 / 5		3 / 5		3 / 5		
15	Overall dimensions	length to fork face	in	mm	68.5	1740	68.5	1740	71.2	1810	
16		width	with standard tires	in	mm	41	1041	41	1041	42.5	1080
			with standard tires, wide stance for quad mast	in	mm	44	1118	44	1118	45.5	1156
			with lowered mast	in	mm	95	2415	95	2415	95	2415
17		height	to top of overhead guard	in	mm	88	2235	88	2235	88	2235
19			with extended mast	in	mm	200	6000	200	6000	200	6000
20	Minimum outside turning radius		in	mm	58	1470	58	1470	60.5	1535	
22	Load moment constant	in	mm	11.1	282	11.1	282	11.1	282		
23	Minimum aisle – 90° stack – zero clearance (add load length)	in	mm	69	1750	69	1750	71.5	1815		
<b>PERFORMANCE</b>											
40	Speeds	travel loaded / empty	36V	mph	km/h	6.8/7.0	10.9/11.3	6.7/7.0	10.8/11.3	6.6/7.0	10.6/11.3
41		lift speed loaded / empty	36V	fpm	m/s	70/102	.36/.52	65/102	.33/.52	60/102	.30/.52
42		lowering speed loaded / empty	36V	fpm	m/s	100/90	.51/.46	100/90	.51/.46	100/90	.51/.46
43	Drawbar pull	loaded at 1 mph (1.6 km)	36V	fpm	m/s	—	—	—	—	—	
		loaded maximum	36V	lb	N	—	—	—	—	—	
44	Gradeability	loaded at 1 mph (1.6 km)	36V	%		15	15	15	15		
		maximum loaded / empty	36V	%		15	15	15	15		
<b>WEIGHT</b>											
50	Empty	w/minimum weight battery	lb	kg	7850	3575	8250	3750	9100	4125	
51	Wheel load	with rated load	drive	lb	kg	—	—	—	—		
			steer	lb	kg	—	—	—	—		
		without load	drive	lb	kg	—	—	—	—		
			steer	lb	kg	—	—	—	—		
<b>CHASSIS</b>											
60	Tire size	front, standard tires	in	mm	16.25x6x11.25 413x152x286		16.25x6x11.25 413x152x286		16.25x7x11.25 413x152x286		
64		rear tires	in	mm	10x3.5	254x89	10x3.5	254x89	10x3.5	254x89	
65	Wheelbase		in	mm	50.5	1280	50.5	1280	53	1350	
66	Tread width	front, standard tires	in	mm	35	889	35	889	35	889	
		front, wide-stance tires for quad mast	in	mm	38	965	38	965	38.5	978	
67	Ground clearance	at lowest point at mast	in	mm	3	76	3	76	3	76	
68		at center of wheelbase	in	mm	4	102	4	102	4	102	
69	Brakes	service			foot, electric		foot, electric		foot, electric		
		parking			foot, electric		foot, electric		foot, electric		
70					foot, electric		foot, electric		foot, electric		
<b>POWER TRAIN</b>											
80	Battery	type			lead acid		lead acid		lead acid		
81		voltage / capacity	volts / AH		36/1085		36/1085		36/1240		
83		weight, minimum	lb		kg	2300	1050	2300	1050	2600	1180
84	Motors	traction output 36V (100% cont.)	HP		kW	5.6	4.2	5.6	4.2	5.6	4.2
86		lift output 36V (100% rating)	HP		kW	7.4	5.5	7.4	5.5	7.4	5.5
88	Controls	drive	type / speed		transistor		transistor		transistor		
89		hydraulic	type / speed		contactor		contactor		contactor		
90	Relief pressure	for attachments	psi		bar	adjustable		adjustable		adjustable	
91	Noise level	mean value at operator's ear			dB(A)	—		—		—	

**NOTE:** These specifications assume the use of drive axles, tires and tilt angles specified. Any modification to specifications, or any other combination of specifications made after the shipment of the truck, requires prior written approval from Mitsubishi Caterpillar Forklift America Inc. ("MCF A"). (See ASME B56.1 Part II 4.2.) Also be advised that overall operating visibility may be affected by the mast configuration and mast options of your forklift truck. Therefore, you may need to add ancillary [auxiliary] devices or modify your operating practices. Consult your dealer for further information.

FBC25KS	
5000	2270
24	610
stand up	
electric	
36v	
solid rubber/polyurethane	
2x/2	
152	3860
152	3860
47	1194
1.75x42x4	
8/35.5	203/902
3 / 5	
73.7	1870
42.5	1080
—	
95	2415
88	2235
200	6000
63	1600
11.3	282
74.5	1880
—	
6.5/7.0	10.5/11.3
50/102	.25/.52
100/90	.51/.46
—	
—	
15	
15	
—	
9500	4325
—	
—	
—	
—	
16.25x7x11.25	413x178x286
10x3.5	254x89
55.5	1410
34	864
—	
3	76
4	102
foot, electric	
foot, electric	
—	
lead acid	
36/1395	
2700	1230
9.8	73
7.8	5.8
transistor	
contactor	
adjustable	
—	

Call-out numbers shown in the diagram below correspond to the first column of the specifications chart.



**BATTERY INFORMATION**

MODEL		LENGTH		WIDTH		HEIGHT	
		in	mm	in	mm	in	mm
FBC15KS	STD	38.5	978	18.5	470	32.3	820
	OPT	38.5	978	16.25	413	32.3	820
	OPT	38.5	978	13.6	345	32.3	820
FBC18KS	STD	38.5	978	18.5	470	32.3	820
	OPT	38.5	978	16.25	413	32.3	820
FBC20KS	STD	38.5	978	21.25	540	32.3	820
	OPT	38.5	978	18.5	470	32.3	820
FBC25KS	STD	38.5	978	23.75	603	32.3	820

Connector, SB 350, Grey, Lead length 16 in (405 mm), Position-C

**SAFETY STANDARDS**

These trucks meet American Society of Mechanical Engineers (ASME) B56.1, part III Safety Standards for powered industrial trucks. UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only. Types E, EE (optional), Industrial Trucks. Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

- ASME B56.1, part II.
- NFPA 505, fire safety standard for powered industrial trucks - type designations, areas of use, maintenance and operation.
- Occupational Safety and Health Administration (OSHA) regulations that may apply.

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## Ask For A Demonstration

Discover how innovative Mitsubishi forklift trucks can handle your applications and complement the way your operators work. Ask your Mitsubishi forklift truck dealer for a demonstration.



A close-up, low-angle view of a Mitsubishi forklift truck. The top of the mast is visible, with the word "MITSUBISHI" printed in white on a black background. The truck's body is a vibrant teal color. The operator's seat and control panel are visible in the foreground. The background is a plain, light-colored wall.

**MITSUBISHI**

**For more information, call 1-888-MIT-LIFT  
or your local Mitsubishi forklift truck dealer.**

## **Quality And Support For The Long Haul**

Our services are as innovative as our forklifts. One example is our exclusive Mastersource® program, designed to be your single source for quality replacement parts—no matter what forklift brand you own. Another is our Master Protection™ program which offers extended power train warranties for your Mitsubishi forklifts. Your Mitsubishi forklift truck dealer offers an extensive line of products and services including Master Maintenance® programs, which tailor service and maintenance to your specific applications. Your Mitsubishi forklift truck dealer can provide options and additional visual and audible warning devices aimed at your specific applications and requirements. Operator training programs are also available to help reduce the potential for product damage and personal injury.



## Stand-Up End Control Forklifts 3,000–5,000 lb Capacity

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