

3,000-4,000 lb Capacity Stand-Up End Control Forklift Trucks



The compact and versatile stand-up end control trucks are ideal for fast-moving applications requiring extensive shuttling, frequent entries and exits of trucks and tight turns in narrow spaces. With capacities from 3,000-4,000 lbs, these reliable alternating current (AC) powered forklift trucks make it easy for operators to load/unload trailers and to pick or rack loads. Many value-added features, such as dual drive motors, low-effort electric steering and heavy-duty mast construction are standard.



Specifications

CHARACTERISTICS			FBC15NS		FBC18NS	
	Capacity at rated load center	lb kg	3,000	1,360	3,500	1,588
	Capacity load center – distance from fork face	in mm	24	600	24	600
	Power voltage		36		36	
	Tire type drive/steer		solid rubber / poly		solid rubber / poly	
	Wheels (x=driven)		2 x / 2.0		2 x / 2.0	
DIMENSIONS						
A	Lift with Duplex mast	in mm	146	3,700	146	3,700
B	Free fork height with maximum height triplex mast	in mm	44	1,140	44	1,140
	Fork width	in mm	3.9	100	3.9	100
	Fork thickness	in mm	1.4	35	1.4	35
C	Fork spacing – out-to-out minimum	in mm	7.75	200	7.75	200
	Fork spacing – out-to-out maximum	in mm	36.25	920	36.25	920
D	Tilt angle – forward / backward		3° / 5°		3° / 5°	
	Mast width	in mm	22.75	580	22.75	580
E	Length to fork face	in mm	67.4	1,713	67.4	1,713
	Overall chassis width	in mm	41.0	1,040	41.0	1,040
F	Overall lowered height (mast)	in mm	93.0	2,365	93.0	2,365
G	Overall lowered height to top of overhead guard	in mm	88.0	2,240	88.0	2,240
H	Overall height with extended mast	in mm	196	4,960	196	4,960
	Step height	in mm	8.0	204	8.0	204
	Battery roller height	in mm	7.3	185	7.3	185
I	Minimum outside turning radius	in mm	55.5	1,410	55.5	1,410
	Minimum aisle – 90 deg. stack - zero clearance [1]	in mm	67.5	1,715	67.5	1,715
PERFORMANCE						
	Travel speed – tractor first (loaded / empty)	mph km/h	7.7 / 7.7	12.4 / 12.4	7.7 / 7.7	12.4 / 12.4
	Travel speed – forks first (loaded / empty)	mph km/h	7.7 / 7.7	12.4 / 12.4	7.7 / 7.7	12.4 / 12.4
	Lift speed loaded (triplex)	fpm m/s	80	0.40	75	0.38
	Lift speed empty (triplex)	fpm m/s	110	0.55	110	0.55
	Lower speed loaded (triplex)	fpm m/s	95	0.48	95	0.48
	Lower speed empty (triplex)	fpm m/s	90.0	0.45	90.0	0.45
	Maximum fork height with rated load	in mm	188	4,780	188	4,780
	Gradeability – loaded - maximum	%	15		15	
	Gradeability – empty - maximum	%	15		15	
WEIGHT						
	Truck weight – empty - with min weight battery	lb kg	7,700	3,500	8,400	3,800
	Battery weight – min	lb kg	2,000	910	2,000	910
	Battery weight – max	lb kg	2,300	1,050	2,300	1,050
CHASSIS						
	Chassis type (stand / sit)		stand		stand	
J	Wheelbase	in mm	45.9	1,167	45.9	1,167
K	Ground clearance – center of wheelbase	in mm	4.0	104	4.0	104
	Ground clearance – lowest point at mast	in mm	2.0	51.0	2.0	51.0
	Tire size – drive	in mm	16.25 x 7.0	413 x 178	16.25 x 7.0	413 x 178
	Tire size - steer	in mm	10.5 x 4.0	267 x 102	10.5 x 4.0	267 x 102
	Brake type		electric disc		electric disc	
ELECTRICAL						
	Traction motor type		AC induction		AC induction	
	Traction motor output kW (60 min. rating)	HP kW	5.9	4.4	5.9	4.4
	Pump motor type		AC induction		AC induction	
	Pump motor output kW (20% rating)	HP kW	14.7	11.0	14.7	11.0
	Steer motor type		AC induction		AC induction	
	Steer motor output kW (60 min. rating)	HP kW	0.53	0.4	0.53	0.4
	Battery maximum capacity - A/H (6 hr. rating)		1,240		1,240	
L	Battery compartment length (front-back)	in mm	16.25	413	16.25	413
	Battery compartment width (side-side)	in mm	38.58	980	38.58	980
	Battery compartment height	in mm	31.69	805	31.69	805

[1] Add load length

FBC20NS	
4,000	1,810
24	600
36	
solid rubber / poly	
2 x / 2.0	
146	3,700
45	1,145
3.9	100
1.6	40
7.75	200
36.25	920
3° / 5°	
22.75	580
73.0	1,854
41.0	1,040
93.0	2,365
88.0	2,240
196	4,960
8.0	204
7.3	185
60.4	1,535
73.0	1,855
7.7 / 7.7	12.4 / 12.4
7.7 / 7.7	12.4 / 12.4
70.0	0.35
110	0.55
95	0.48
90.0	0.45
188	4,780
15	
15	
9,250	4,200
2,600	1,180
2,900	1,320
stand	
51.0	1,295
4.0	104
2.0	51.0
16.25 x 7.0	413 x 178
10.5 x 4.0	267 x 102
electric disc	
AC induction	
5.9	4.4
AC induction	
14.7	11.0
AC induction	
0.53	0.4
1,240	
21.25	540
38.58	980
31.69	805

SAFETY STANDARDS

These trucks meet American National Standards Institute/ Industrial Truck Standards Development Foundation, ANSI/ITSDF B56.1. UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only; Type 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:

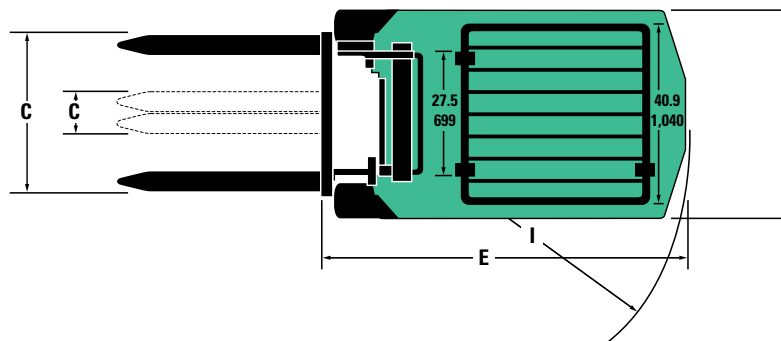
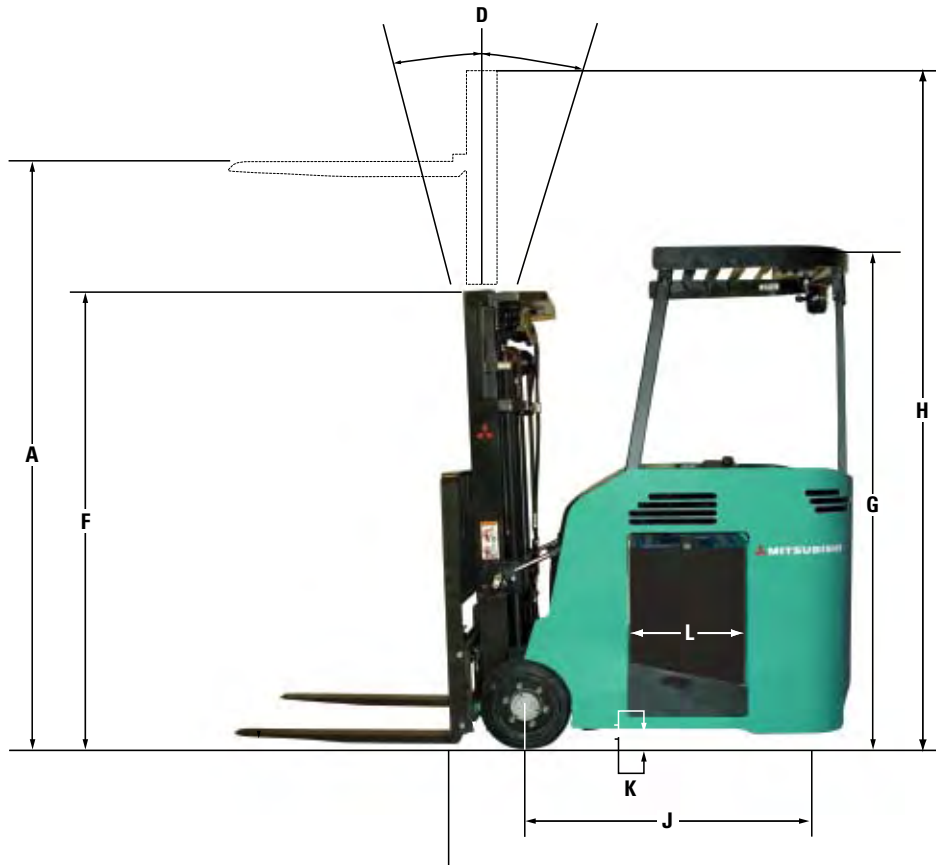
- ANSI/ITSDF B56.1.
- NFPA 505, fire safety standard for powered industrial trucks -type designations, areas of use, maintenance and operation.
- Occupational Safety and Health Administration (OSHA) regulations that may apply.

Specifications, equipment, technical data, photos and illustrations based on information at time of printing and subject to change without notice. Some products may be shown with optional equipment.

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. ("MCFA"). (See ANSI/ITSDF B56.1.) Also be advised that overall operating visibility may be affected by the mast configuration and mast options of your truck. Therefore, you may need to add ancillary [auxiliary] devices or modify your operating practices. Consult your dealer for further information.



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



Standard Features

- 100% AC - Transistorized AC drive, hydraulic and steering systems
- Infinitely variable lift/lower speed control
- Interactive display with hour meter, direction indicator, battery discharge indicator (BDI), text messages, and informative icons
- Electric power steering
- Electric disc brakes
- Solid state electronic horn
- Lift-out battery side-gates with adjustable battery retaining widths
- Battery compartment rollers
- UL type E rating
- Over-temperature protection for pump motor, drive motors, and control panel components
- 36V electrical system
- Dual drive motors
- Multifunction control handle, offering simultaneous control of drive, lift/lower, and auxiliary hydraulic functions
- Emergency disconnect
- Adjustable regenerative braking
- Truck fault history with storage of up to 32 fault codes

Serviceability

Extended service intervals up to 500 hours cut planned maintenance in half, promoting uptime and reducing operating costs. The diagnostic software used in these trucks does not require a handset or computer, and features a truck fault history that stores up to 32 fault codes.

Programmability

Many performance characteristics are fully programmable via the display panel, without a handset or computer. Customizable parameters, including travel speed and acceleration rate, regenerative braking, and coast control, make it easy to match each forklift truck's functionality to specific application and operator requirements.

Control

The innovative PM-1000 AC control system, featuring advanced MOSFET and thermal management technology, optimizes the productivity and energy efficiency of your material handling operations. A modular design separates the main logic module and power unit from the power inverter module and digital signal processing card, simplifying service by enabling the exchange of individual components.

Functionality

For exceptional versatility in racking applications, stand-up end control forklift trucks can be equipped with duplex, triplex, or quad masts. These compact, versatile forklift trucks turn quickly and easily in tight spaces, reducing cycle times during operations requiring frequent picking or racking. They also offer the best travel speeds in the industry, with and without load.

Ergonomics

The generous overall floor space and low step height of the operator compartment facilitate easy entry and exit. The ERGOMAT® anti-fatigue floor mat slopes gently towards the curved backrest to support operators in comfort. A flexible, fatigue-reducing, side stance operating position allows operators to easily adjust to various travel and application requirements with minimal effort.



See For Yourself

- Step into the operator compartment and you'll notice the roomy floor space. You'll also appreciate the ergonomic extras, such as an anti-fatigue floor mat, and comfort-padding where elbows, knees, and back come to rest.
- The first time you maneuver one of these forklift trucks into and out of a trailer, you'll be thankful for its fully electric power steering (EPS). Quieter and easier to control than hydraulic steering systems, EPS provides the precision necessary for tight turns in confined work areas. In addition, steering parameters can be programmed to match specific application or operator requirements.
- Whether traveling, picking up loads, or driving in for racking operations, you'll notice that these trucks have been designed for outstanding visibility between and around the front overhead guard legs.
- Over the course of a long day's work, you'll appreciate the interactive display, which allows you to monitor BDI, steering direction, vehicle speed, operator warnings, error codes, and other critical conditions. If trouble-shooting should become necessary, input/output tests and fault histories can be conveniently accessed via the display panel.



Ready. Reliable. Right On The Money.

Manufactured with superior quality and exceptional value, Mitsubishi forklift trucks are supported by an extensive dealer and field support network. Dealer locations exist throughout North and South America, offering flexible financing options and product support.

Value And Support For The Long Haul

Our programs deliver value just like our forklifts. One example is our parts program, designed to be your single source for quality replacement parts — no matter what forklift brand you own. Another is the Master Protection[®] program which offers extended powertrain 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.

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