



FS030BF

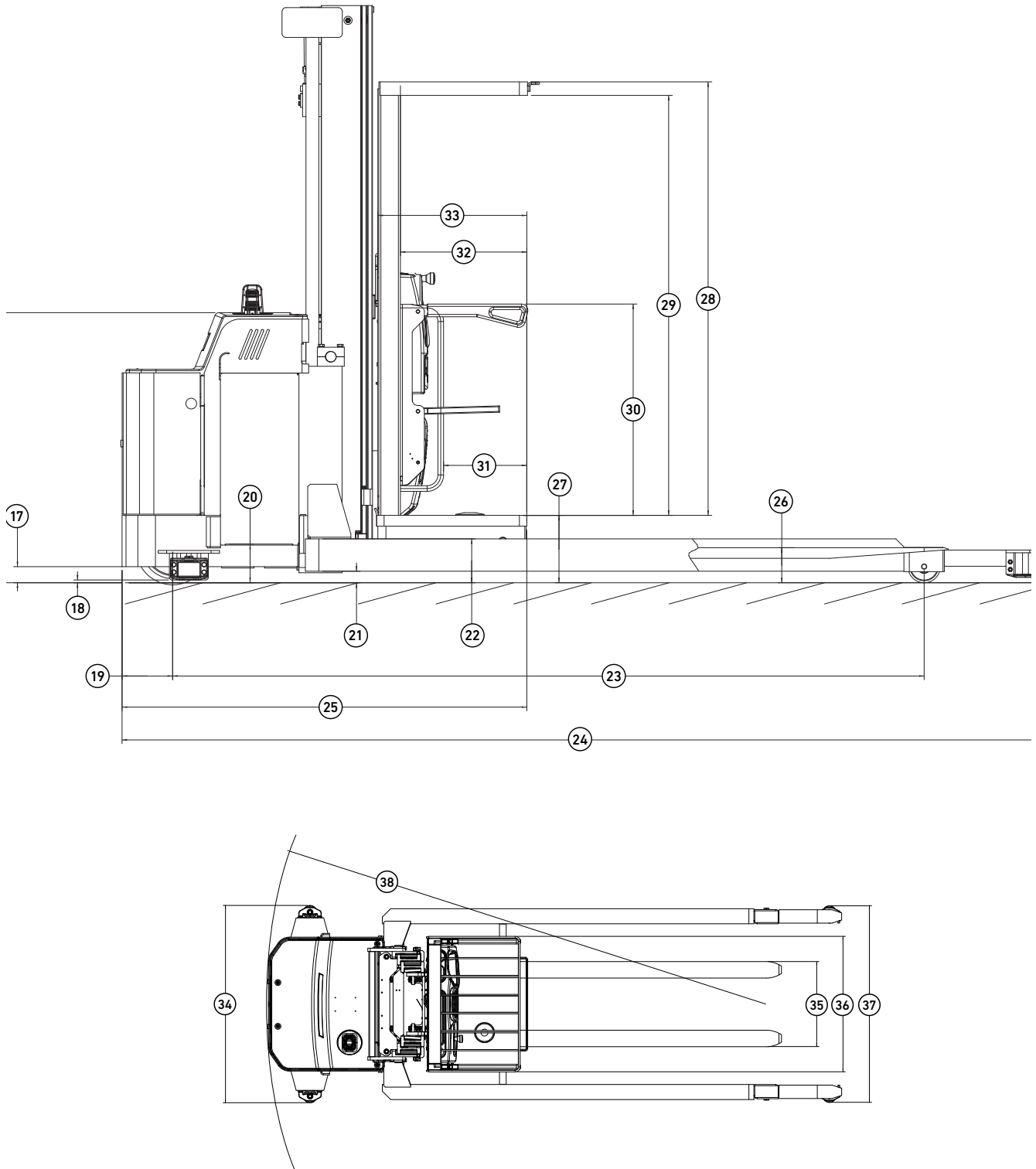
SPEC SHEET

3,000 lbs.

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Medium/high level  
furniture order picker



Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).

## GENERAL SPECIFICATIONS - FS030BF

GENERAL	1	Manufacturer			Yale	
	2	Model designation			FS030BF	
	3	Power/voltage			Electric / 24 Volts	Electric / 36 Volts
	4	Operation type			Stand-up	
	5	Rated capacity		lb. (kg)	1500 (680)	
	6	Load center		in. (mm)	48 (1219)	
	7	Tire type	Front/rear	load/drive	Poly/Poly	
	8	Wheels (X=driven)		front/rear	2/3/(1X)	
DIMENSIONS	9	Mast – 3-stage (TOF)		in. (mm)	See mast chart	
	10	Operator clearance height		in. (mm)	77.9 (1978)	
	11	Forks	Width/thickness	in. (mm)	5/2 (130/50)	
	12	Fork spread	Inside to inside	Min/Max	in. (mm)	13/18 (330/457)
	13		Outside to outside	Min/Max	in. (mm)	23/28 (584/710) 21/28 (533/710)
	14	Top of fork	Mast lowered	in. (mm)	6.5 (165)	
	15	Head length, length to face of operator deck		3-Stage	in. (mm)	75.1 (1907)
	16	Hood height		in. (mm)	50.0 (1272)	
	17	Bumper height		in. (mm)	3.0 (76)	
	18	Guide roller clearance height		in. (mm)	0.5 (13.1)	
	19	Bumper to drive axle		in. (mm)	9.4 (238)	
	20	Height of battery rollers		in. (mm)	7.2 (182)	
	21	Base arm clearance		in. (mm)	2.1 (54)	
	22	Height to top of base arms		in. (mm)	8.1 (207)	
	23	Wheelbase		in. (mm)	139.4 (3540)	
	24	Frame length		in. (mm)	171.2 (4349)	
	25	Head length		in. (mm)	75.1 (1907)	
	26	Lowered fork height		in. (mm)	6.5 (165)	
	27	Floor step height		in. (mm)	12.5 (317)	
	28	Floor to top of overhead guard		in. (mm)	80.4 (2042)	
	29	Floor to underside of overhead guard		in. (mm)	77.9 (1978)	
	30	Handrail height	Fixed/retractable	in. (mm)	39.0 / 39.2 (990 / 995)	
	31	Platform side opening	Fixed rail	in. (mm)	15.4 (392)	
	32	Platform depth	Inside	in. (mm)	23.4 (595)	
	33		Overall	in. (mm)	27.6 (702)	
	34	Frame width		in. (mm)	40 (1016)	
	35	Fork width		in. (mm)	22.8 to 28.0 (580 to 711)	
	36	Platform width		in. (mm)	40.2 (1022)	
	37	Overall width		in. (mm)	52.5 (1334)	
				in. (mm)	54.5 (1384)	
				in. (mm)	56.8 (1443)	
				in. (mm)	58.5 (1486)	
				38	Turning radius	
	39	Height	Standard 3 stage mast lowered		in. (mm)	107 (2718)
	40	Operator platform size		Width/depth	in. (mm)	40/27.5 (1016/698)
	41	Turning radius	Minimum outside		in. (mm)	149.3 (3793)
	42	Stacking aisle, zero clearance w/48" W x 96" L pallet		in. (mm)	163.2 (4145)	
	43	Intersecting aisle, equal aisles w/48" W x 96" L pallet		in. (mm)	113.3 (2878)	
	PERF.	44	Stability	Comply with ANSI?		Yes
45		Travel speed*		NL/RL	mph (km/h)	6.5/6.5 (10.5/10.5)
46		Lift speed		NL/RL	ft/min	See performance chart
47		Lower speed		NL/RL	ft/min	See performance chart
WEIGHT	48	Truck weight	Without battery	NL	lb. (kg)	7050 (3198)
	49	Axle loading - drive	Static with max. wt. battery	NL/RL	lb. (kg)	6493/5476 (2945/2484)
	50	Axle loading - load wheels	Static with max. wt. battery	NL/RL	lb. (kg)	2557/6574 (1160/2982)
WHEELS & TIRES	51	Tire size	Drive	in. (mm)	13.5/5.5 (343/140)	
	52		Load wheel	in. (mm)	6.0/3.0 (152/76)	
	53	Wheelbase		in. (mm)	139.4 (3540)	
	54	Ground clearance	No load, lowest point		in. (mm)	0.5 (13)
	55		No load, center wheelbase		in. (mm)	2.1 (54.4)
ELECTRIC	56	Brakes	Method of control	Service/parking		Foot
	57		Method of operation	Service/parking		Spring applied/electric released
	58	Battery	Type		Lead acid	
	59		Volts		24	36
	60		Minimum weight		lb. (kg)	1500 (680)
	61	Traction motor control method		AC transistor		
	62	Pump motor control method		Contactor		
	63	Number of travel speeds		Infinitely variable		

\* Speeds are the same in either direction, with or without rated load. Steer angle <10 degrees.

Right angle stack and equal intersecting aisle dimensions provided with a 40" wide x 48" long pallet load, allowing zero clearance.

## BATTERY SPECIFICATIONS - FS030BF

Number of cells	Cell size	Plates per cell	Capacity 6 hr rate	Battery dimensions			Weight
				"X" (length)	"Y" (width)	"Z" (height)	
			amp hr (kwh)	in. (mm)	in. (mm)	in. (mm)	lb. (kg)
12	125	17	1000 (23.4)	38.1 (969)	13.5 (342)	30.6 (776)	1818 (825)
12	140	17	1120 (26.2)	38.1 (969)	13.5 (342)	30.6 (776)	1851 (840)
12	155	17	1240 (29.0)	38.1 (969)	13.5 (342)	30.6 (776)	1860 (844)
18	125	11	625 (21.9)	38.1 (967)	13.3 (339)	30.6 (776)	1800 (816)
18	140	11	700 (24.6)	38.1 (967)	13.3 (339)	30.6 (776)	1849 (839)
18	155	11	775 (27.2)	38.1 (967)	13.3 (339)	30.6 (776)	1859 (843)

Battery compartment length is measured from front to rear. Battery compartment width is measured across truck.

SB350 Amp "red" connector, cable position B, cable length 16" (405mm). Maximum cable gauge 1/0 AWG

Battery with lid will NOT fit in battery compartment. Battery weight range 1500 - 2000 lbs.

Amp hour capacity min / max - 24 volt truck 960 / 1240. 36 volt truck 600 / 775.

## MAST PERFORMANCE - FS030BF

	Lifting speed		Lowering speed	
	Empty	Rated load†	Empty	Rated load†
	ft/min (m/s)	ft/min (m/s)	ft/min (m/s)	ft/min (m/s)
24V DC	67 (0.340)	45 (0.229)	80 (0.406)	80 (0.406)
36V DC	78 (0.396)	63 (0.320)	80 (0.406)	80 (0.406)

† Rated load figures are based on 1500 lb. load (680 kg) and a 48" load center.

NOTE: Performance specifications are for truck with standard equipment. Performance specifications are 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, the proposed application should be discussed with your dealer.

## TRAVEL SPEEDS (24V & 36V) - FS030BF

Fork height	Steer angle <10°	Steer angle >10°
in. (mm)	mph (kph)	mph (kph)
0 (0)	6.5 (10.5)	6.5 (10.5)
24 (610)	6.5 (10.5)	3.0 (4.8)
60 (1524)	6.0 (9.7)	2.7 (4.4)
116 (2946)	4.7 (7.5)	2.3 (3.6)
150 (3810)	3.9 (6.2)	2.0 (3.2)
195 (4953)	2.8 (4.5)	1.6 (2.6)
250 (6350)	1.5 (2.4)	1.2 (1.9)
272 (6909)	1.0 (1.6)	1.0 (1.6)
>272 (6909)	No travel*	No travel*

NOTE: Speed limits are for trucks at operating temperature with fully charged battery. Speeds are the same in either direction, with or without rated load.

For lift heights between 24.0" (610 mm) and 272.0" (6909 mm), traction speed is reduced when steering angle exceeds 10°.

\* Travel above 272.0" (6909 mm) fork height requires a high level traction option. Capacity reduction required.

Contact your local dealer for additional information.

## MAST DIMENSIONS - FS030BF

	Maximum fork height (TOF)	Overall lowered height	Overall extended height
	in. (mm)	in. (mm)	in. (mm)
3-Stage (6.9")	240 (6096)	107 (2718)	327 (8306)
	270 (6858)	119 (3023)	357 (9068)
	300 (7620)	131 (3325)	387 (9830)
	330 (8382)	143 (3632)	417 (10592)
	360 (9144)	155 (3937)	447 (11354)

Lift heights over 360" (9144 mm) maximum fork height may require reduced capacity depending upon OEC dimensions.

## FEATURES LIST - FS030BF

PERFORMANCE	STD	OPT
24 Volt AC electrical system	●	
AC transistor control	●	
AC traction motor	●	
DC controlled hydraulics	●	
On demand electric power steering	●	
AC steer motor	●	
Auto deceleration system (ADS ) with regenerative braking	●	
Ergonomically advanced multi-function control handle with rotational adjustment and single speed lift/lower	●	
4 Operator selectable, programmable performance modes	●	
Smart-glide continuous height sensing	●	
Side guide rollers	●	
36 Volt AC electrical system		●
AC transistorized hydraulic control		●
6.25Kh Wire guidance		●
5.25Kh Wire guidance		●
Side guide rollers (48.25" and 55" OAW)		●
High level traction above 212" with restricted steer		●
DRIVE	STD	OPT
13.5" x 5.5" Superior XL-AC (901 compound)	●	
6.0" x 3.0" Single load wheel - high load compound	●	
Steer wheel angle graphic indication	●	
8" x 2.5" Dual polyurethane caster wheels	●	
3.0" x 2.75" Polyurethane guide rollers	●	
13.5" x 5.5" Polyurethane (601 compound)		●
13.5" x 5.35" Polyurethane – X grooved (601 compound)		●
13" x 5.5" Molded NDIIthane (non marking)		●
LIFT	STD	OPT
195" MFH / 89" OALH 3-stage anti-rattle mast	●	
Lift limit with or without push button override		●
Lowering limit with push button override		●
HANDLING	STD	OPT
Heavy duty pallet clamp - automatically engaged / foot released	●	
78" Long x 2" thick x 5" wide standard taper pin type forks	●	
84" Long x 2" thick x 5" wide standard taper pin type forks		●
Heavy duty automatic pallet clamp with opening range from 1/2" to 6"		●
ERGONOMICS	STD	OPT
Shock dampening operator's compartment floor mat	●	
Non-adjustable verticle console	●	
6" Vertical adjustable operator console		●
2 Speed upper body fan - console mounted		●
OPERATION	STD	OPT
Battery connector SB-350 red	●	
40.0" Wide X 27.5" deep operator platform	●	
39.0" L x 14.6" W x 31.5" H battery compartment	●	
175 Amp red, position B - 16" lead length battery connector	●	
32" Inside dimension (open end clearance)	●	
41" outside dimension (base width) outriggers	●	
Key switch start	●	
Multi-turn steering	●	
Electric park brake - automatically engaged / foot released	●	
Single hydraulic pump and motor	●	
Controller area network (CANbus) communications	●	
Graphic LCD multi-function smart display with back lighting	●	
Hour meters; truck, traction and hoist pump	●	
Bar graphic battery discharge indicator	●	
Low battery lift interrupt	●	
Performance mode selection and indication	●	
LED status indicators with symbols	●	
User passwords and operator logs with history	●	
Truck inspection check list	●	
Truck speed indication in MPH or KPH	●	

OPERATION CONTINUED	STD	OPT
Slack chain indication	●	
Battery power disconnect button	●	
Operator convenience station with storage areas, trash bin, beverage & clipboard holders	●	
Full body harness and operator tether	●	
Battery compartment corrosive resistant steel rollers	●	
Retractable platform side gates with cushioning and lift / traction cutout interlock	●	
Electric horn	●	
Static discharge strap	●	
Battery stand	●	
Battery puller	●	
38" Inside dimension (open end clearance)		●
48" outside dimension (base width)		●
27.5" Deep x 48" wide		●
27.5" Deep x 54" wide		●
27.5" Deep x 60" wide		●
Safety glass shield		●
Fixed hoop side rails		●
Stability casters		●
Line driver		●
Keyless - toggle switch		●
Retractable operator tether with full body harness or medium body belt		●
Audible alarms self adjusting 82-102 db(A) – Back-up alarm - reverse direction activation – Motion alarm - forward and reverse direction activation – Motion alarm - continuous operation with key-on		●
DC to DC converter - 25 amps / 300 watts @ 12 volts		●
Smart steer		●
Battery connector SB-350 gray		●
APPEARANCE	STD	OPT
2-Part poly YALE gold paint	●	
CONSTRUCTION	STD	OPT
Standard application / environmental construction	●	
UL classification type "E"	●	
UL classification type "EE"		●
SubZERO freezer package - operating temperatures range: -20° to +120° F		●
VISIBILITY	STD	OPT
Cantilever style overhead guard	●	
Wire mesh screen operator guard	●	
Amber LED strobe - continuous operation with key-on	●	
– Dome light and 2 speed fan package mounted on top of overhead guard		●
– Dome light, 2 speed fan and halogen glass lens spot light package		●
– Dome light, 2 speed fan and LED plastic lens spot light package		●
– 2 LED plastic lens spot lights mounted under overhead guard		●
ENERGY SYSTEM	STD	OPT
Lead acid	●	
SUPPLEMENTAL	STD	OPT
Operating manual and labels – english	●	
Parts manual - printed or CD		●



# About Yale®

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