

S22

2,200 LB. CAPACITY

WALKIE STRADDLE STACKER



SPECIFICATIONS



A COMPACT, FLEXIBLE AND EASY TO USE STACKER

For operations needing a stacker that's easy to use with minimal maintenance, the S22 is an obvious pick. An offset control handle makes this stacker very compact and easy for an operator to walk alongside when moving materials. Its maintenance-free AGM batteries minimize downtime, and a standard onboard charger plugs into a 120V wall outlet. With adjustable straddle legs and a variety of lift heights to suit the application, S22 provides an excellent entry-level solution.

FEATURES



Compact Footprint

Fitting into tight spaces is easy for the S22 stacker. Its offset control head design keeps length down. Four adjustable straddle widths allow operations to fit the load without requiring excess room for the equipment.

Ergonomics That Support the Operator

The offset steering arm provides excellent line of sight for operators. Angled grips are designed to allow easy operation with either hand and a wrap-around guard, reverse switch, thumb controls and a horn are standard. The low-mounted tiller arm also offers excellent operator comfort and minimizes steering effort. Storage on top of the stacker provides space for the operator to keep frequently-used tools at hand.

Straightforward Controls

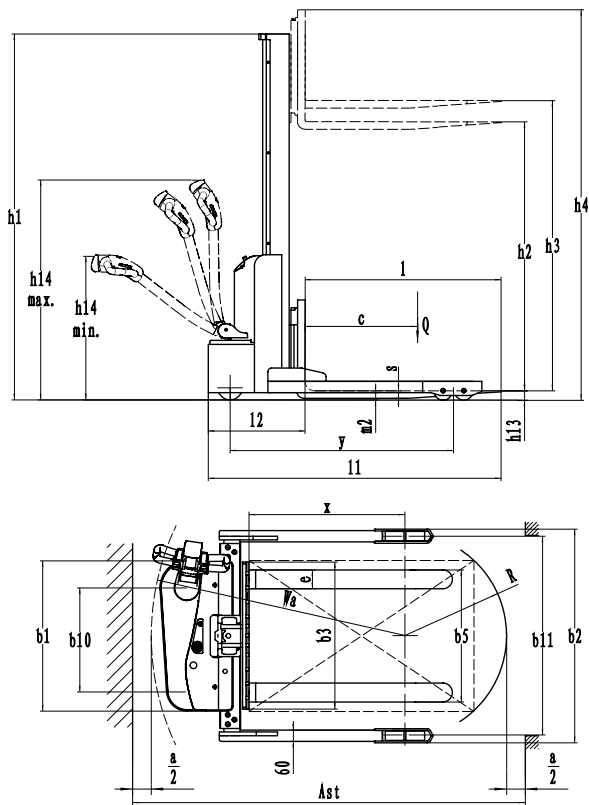
Both travel and lift/lower controls are conveniently located on the control head, using a thumb-actuated drive wheel for precise speed control, which helps in tight spaces and when walking alongside the equipment. The battery discharge indicator and key switch are easy to see and reach. The onboard charge cord is also accessible and easy to find.

Robust Build Quality

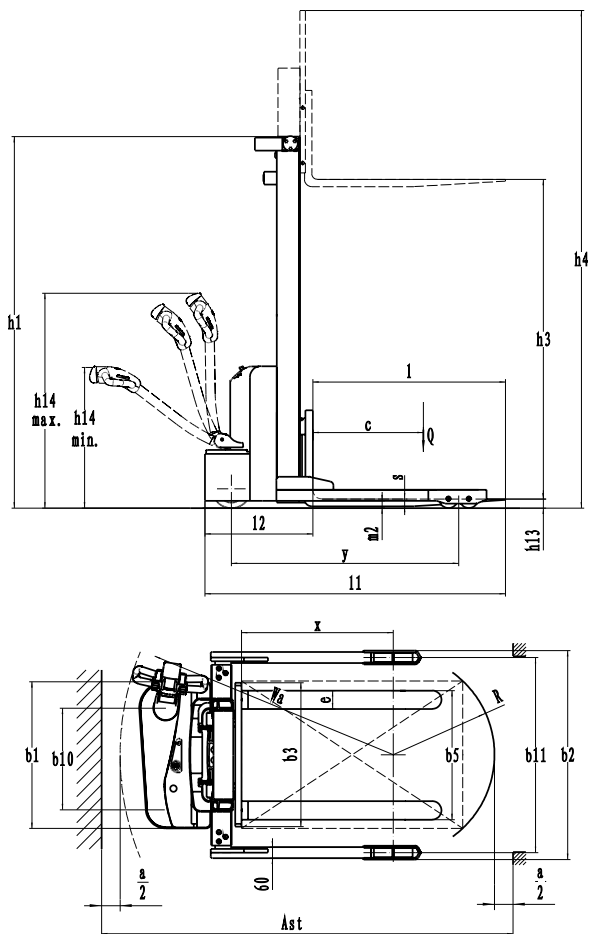
An all steel, welded chassis offers unparalleled rigidity and durability. Available non-telescoping mono mast and 2-stage telescoping mast feature adjustable rollers and chrome-plated lift cylinders to provide smooth operation and long service life. All models come standard with a plexiglass guard on the mast. And all models feature a stout, molded cover that is easily removable for service access.

DIAGRAMS

S22-62



S22-96 /
S22-116



SPECIFICATIONS

Distinguishing mark	1.1	Manufacturer			Big Joe
	1.2	Model designation			S22
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	lb.	2200
	1.6	Load center distance	c	in.	24
	1.8	Load distance, center of drive axle to fork	x	in.	33.3
	1.9	Wheelbase ¹	y	in.	50.8
Service weight	2.1	Service weight		lb.	1500
	2.2	Axle loading, laden (front / rear)		lb.	1670 / 2030
	2.3	Axle loading, unladen (front / rear)		lb.	1210 / 280
Tires/chassis	3.1	Tire type			Polyurethane
	3.2	Tire size, front			8.3x2.8
	3.3	Tire size, rear			4x2
	3.4	Additional wheels (caster wheels)		in.	4x2
	3.5	Wheels, number (front/rear) x=drive wheels			1x, 1 / 4
	3.6.1	Tread width, drive	b10	in.	21.0
	3.7.1	Tread width, load ²	b11	in.	41.7 / 45.7 / 49.6 / 53.5
Dimensions	4.2	Retracted mast height	h1	in.	82.5
	4.3	Free lift height	h2	in.	0
	4.4	Lift height	h3	in.	116.0
	4.5	Height, mast extended	h4	in.	153.0
	4.9	Height of tiller handle in drive position (min/max)	h14	in.	33.9 / 47.3
	4.10	Height of wheel arms	h8	in.	4.0
	4.15	Lowered height	h13	in.	2.4
	4.19	Overall length	l1	in.	65.5
	4.20	Length to face of forks	l2	in.	23.5
	4.21	Overall width ²	b1/b2	in.	44.7 / 48.6 / 52.5 / 56.5
	4.22	Fork dimensions	s x e x l	in.	1.5 x 4 x 42
	4.24	Fork carriage width	b3	in.	30.7
	4.25	Fork spread	b5	in.	8 - 30
	4.26	Inside width between straddle arms ²	b4	in.	38 / 42 / 46 / 50
	4.31	Ground clearance, below mast	m1	in.	1.2
	4.32	Ground clearance, center of wheelbase	m2	in.	1.6
	4.34.1	Right angle stack aisle width	Ast	in.	See Aisle Width Tables
Performance Data	4.35	Turning radius	Wa	in.	54.5
	5.1	Travel speed, laden/unladen		mph	3.1 / 3.4
	5.2	Lifting speed, laden/unladen		fpm	20 / 39
	5.3	Lowering speed, laden/unladen		fpm	21 / 21
	5.8	Max gradeability, laden/unladen		%	3 / 10
Electric	5.10	Service brake			Electromagnetic
	6.1	Drive motor rating S2 60min		kW	0.65
	6.2	Lift motor rating at S3 15%		kW	2.2
	6.4	Battery voltage / nominal capacity		V/Ah	24V / 85Ah
	6.5	Battery weight		lb	95
Additional	8.1	Type of drive control			DC
	10.5	Steering design			Mechanical
	15.1	Charger output current		A	15

¹ 47.6 in. when equipped with mono mast.

² S22 equipped with fixed fork carriage features non-adjustable straddle legs with a fixed inner dimension of 10 in. and outer dimension of 19.9 in.

AISLE WIDTHS

All measurements shown are in inches

S22 Min. Right Angle Stack without Clearance (in.)				
38 in. Straddle	Load Length			
Load Width	36	40	42	48
36	76.9	76.9	76.9	77.7
42 in. Straddle	Load Length			
Load Width	36	40	42	48
36	78.8	78.8	78.8	78.8
40	78.8	78.8	78.8	79.3
46 in. Straddle	Load Length			
Load Width	36	40	42	48
36	80.8	80.8	80.8	80.8
40	80.8	80.8	80.8	80.8
42	80.8	80.8	80.8	80.8
50 in. Straddle	Load Length			
Load Width	36	40	42	48
36	82.8	82.8	82.8	82.8
40	82.8	82.8	82.8	82.8
42	82.8	82.8	82.8	82.8
48	82.8	82.8	82.8	82.8

MAST CHART

Mast Type	Carriage	Overall Dimensions (in.)					Load Capacity at Max Fork Height (lb.)
		Lift Height	Lowered Height	Extended Height	Free Lift Height	Truck Weight (lb.)	
Mono Mast	Fixed Fork	62	76.5	77.6	56	1020	2200
	Class 2 ITA Carriage	62	76.5	98.3	56	1200	
2-Stage Limited Free Lift	Class 2 ITA Carriage	96	72.5	132.0	0	1450	
	Class 2 ITA Carriage	116	82.5	153.0	0	1500	

STANDARD/OPTIONAL EQUIPMENT

- Standard
- Optional

Electrical System	24V infinitely variable travel control	●
Battery and Charging	Integral maintenance-free AGM batteries	●
	120V onboard charger, 15A output	●
Drive System	Permanent magnet DC drive and lift motors	●
Wheels & Tires	Drive tire: (1) 8.3 in. x 2.8 in. polyurethane	●
	Load wheels: (2) 4 in. x 2 in. polyurethane	●
	Caster: (1) 4 in. x 2 in. polyurethane	●
	Polyurethane traction drive tire	○
Front End Equipment	Class II ITA fork carriage: 32 in. wide	●
	Class II ITA fork carriage: 40 in. wide	○
	Class II ITA fork carriage: 48 in. wide	○
	Fixed fork carriage: 14.25 in. tall, 24 in. wide	○
	36 in. tall load backrest for models equipped with ITA carriage (lift height 96 in. or above)	●
	42 in. Class II ITA forks	●
	36 in. Class II ITA forks	○
	Fixed forks, 46 in. long, 2.25 in. thick, 6.75 in. wide	○
	ClearView polycarbonate mast guard	○
Operator	Offset control handle	●
	Thumb control travel functions	●
	Belly button reversing switch	●
	Lift and lowering controls in control handle	●
	Battery discharge indicator	●
	Hour meter	●
	Key switch	●



Established in 1951, Big Joe is a customer-driven North American material handling equipment company. We distribute innovative products for in-between-handling applications, purpose-built counterbalanced lithium forklifts, and market-leading autonomous solutions. Based in Madison, Wisconsin, we provide engineering expertise, customer service, aftermarket parts, and warranty support to our extensive dealer network and customers.



Certification: Big Joe lift trucks are built in compliance with ANSI B56.1 and OSHA section 1910.178(A)(2). Lift truck specifications are subject to change without notice. Any specifications critical to the intended application of the forklift should be reviewed with your Big Joe dealer. Images may show optional equipment not available in all regions.



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2026-04-29_V01