

## Beacon BTAD-S2 Series Loading Dock Portable Scissor Dock Lift



Heavy Duty,  
Electrohydraulic  
5,000 to 8,000 lb.  
Capacity  
Portable or  
Stationary  
for Surface  
Installation

BTAD-S2-50-608-1P

### Model Number Format

**Series** "BTAD-S2"  
**Loading Dock**  
**Capacity**  
50 = 5,000 lbs.  
**Platform Size**  
608 = 6' W x 8' L  
**S = Stationary, P = Portable**

### Description

Beacon BTAD-S2 Series Portable loading docks are high speed, high axle load, self contained mobile or stationary lifts that require no pit or concrete work. As mobile units, they can be easily moved to service several locations. Load capacities are 5,000 to 8,000 lbs., travel distances are 54 in. with platform sizes from 72 x 72 to 84 x 120 in.

A detachable dolly and wheels make the BTAD-S2 easily portable. If the installation is to be permanent, the unit can be lag bolted to the surface of existing concrete.

### Standard Features

- End-to-end, end-to-side or end-to-other-side ramp position. To be specified
- Portable or stationary mounting
- Unitized power unit in a weatherproof steel housing consisting of a 3HP, 230/460V, 3PH, 60Hz. intermittent duty super torque motor, internal high-pressure gear pump with check valve, relief valve, pressure-compensated flow control valve, solenoid valve, suction and return filters. Specify required voltage
- 24V operating control voltage
- NEMA-4 dual keylock "UP-DOWN" pushbutton controls attached at each end of the platform. (Note: Keylock style provided only at bridge end)
- NEMA-12 prewired control box (dust/drip-tight industrial type) with liquid-tight electrical connectors. Control box contains magnetic starter, control transformer, thermal overload and fuse
- All controller components are UL and/or CSA approved
- Upper travel limit switch to automatically shut off motor and pump at pre-set height
- 15 ft. power cord with twist-lock plug
- Four-way safety treadplate deck, straight toe guards with black and yellow safety stripes
- Steel approach ramp, 36 x 60 in., hinged, with 2 safety lifting chains
- Steel bridge plate, 18 x 60 in., hinged with 2 safety lifting chains
- Two steel handrails, 42 in. high with midrails and 4 in. high toeboard
- Four safety chains with snap hooks
- Hinged safety restraint maintenance bars
- Surfaces degreased, oxide primed and finished with two coats of enamel
- Hard, chrome-plated, polished shafting, hydraulic rams and axles at pivot points
- Hydraulic velocity fuse at base of each cylinder
- Lifetime, self-lubricating, anti-friction bearings at all pivot points
- Includes hydraulic oil

### Limited Warranty Policy

Refer to Warranty Form Number WF-0901 for specific details.

Specifications are subject to change without notice.

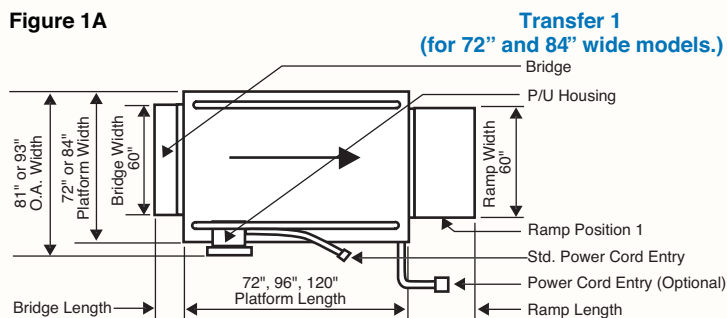
BTAD-S2 Series Loading Docks are one of a group of Beacon material handling products.



**Note:** When specifying, use the following suffixes after a dash at the end of the model number:

1. First character is ramp position. Use 1 for end-to-end, 2 for end-to-side (north) and 3 for end-to-side (south).
  2. Second character is type of mounting. Use P for portable and S for stationary.
- Example: BTAD-S2-50-608-1P is a scissor dock lift with 5,000 lb. capacity, platform size of 72 x 96 in. with end-to-end transfer and is portable.

Figure 1A



**Selector Table for BTAD-S2 Series. Capacities 5,000 to 8,000 lbs.**

Travel	Model	Capacity (pounds)	Axle Load Capacity			Platform (inches)	Width*** (inches)	Height (inches)		Std. Motor HP*	Speed (F.P.M.)		Ship Weight** (pounds)	
			Bridge Ends	End Opp Bridge	Sides			Lowered	Raised		Up			Down
											Empty	Loaded		
54”	BTAD-S2-50-606	5,000	3,500	2,800	—	72 x 72	81	6	60	3	14	10	15	2,500
	BTAD-S2-50-608	5,000	3,500	2,800	—	72 x 96	81	6	60	3	14	10	15	2,525
	BTAD-S2-50-708	5,000	3,500	2,800	2,800	84 x 96	93	6	60	3	14	10	15	2,550
	BTAD-S2-50-610	5,000	3,000	2,800	—	72 x 120	81	6	60	3	14	10	15	2,700
	BTAD-S2-50-710	5,000	3,000	2,800	2,500	84 x 120	93	6	60	3	14	10	15	2,725
	BTAD-S2-60-606	6,000	4,200	3,200	—	72 x 72	81	6	60	3	12	9	15	2,500
	BTAD-S2-60-608	6,000	4,200	3,200	—	72 x 96	81	6	60	3	12	9	15	2,525
	BTAD-S2-60-708	6,000	4,200	3,200	3,200	84 x 96	93	6	60	3	12	9	15	2,550
	BTAD-S2-60-610	6,000	4,000	3,200	—	72 x 120	81	6	60	3	12	9	15	2,700
BTAD-S2-60-710	6,000	4,000	3,200	3,200	84 x 120	93	6	60	3	12	9	15	2,725	
53½”	BTAD-S2-80-608	8,000	6,500	4,000	—	72 x 96	81	6½	60	3	10	6	15	2,750
	BTAD-S2-80-708	8,000	6,500	4,000	4,000	84 x 96	93	6½	60	3	10	6	15	2,700
	BTAD-S2-80-610	8,000	6,500	4,000	—	72 x 120	81	6½	60	3	10	6	15	2,725
	BTAD-S2-80-710	8,000	6,500	4,000	4,000	84 x 120	93	6½	60	3	10	6	15	2,750

\*Standard power supply is 230V/3PH/60Hz. See Options for alternate power supply. \*\*Approximate \*\*\*Includes platform and power unit. Power requirements depend upon frequency and type of operation and require specific selection. If required voltage is 208V/3PH/60Hz, booster transformers must be furnished. See options, model ELC-P116-05

### Twist Lock Plug Specifications

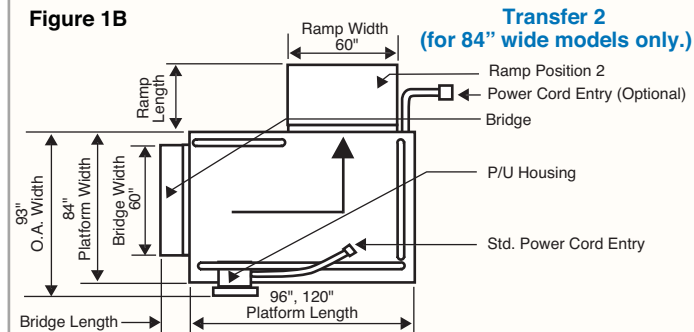
For all BTAD-S2 Portable Docks the TwistLock plug supplied with the product conforms to the following specifications. The purchaser is to furnish the mating receptacle.

Power Supply	NEMA Configuration	
	TwistLock Plug	Purchaser Receptacle
208-230 V, 3PH, 60Hz	L15-20P	L15-20R
460 V, 3PH, 60Hz	L16-20P	L16-20R
230 V, 1PH, 60Hz	L6-15P	L6-15R

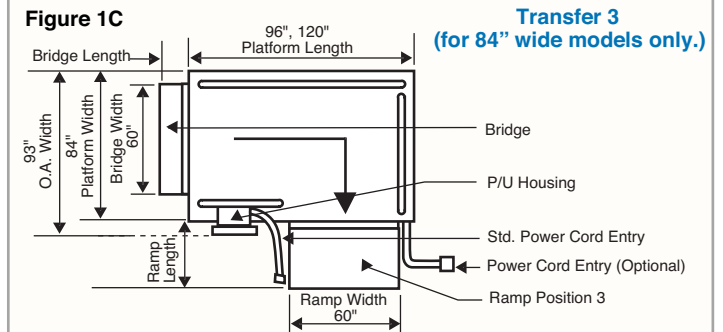
### Options and Accessories

Model	Description
ELC-WB-24-A	Two Second Warning Bell with adjustable volume control - Signals Up and Down - USPS
HLD-FRL	Flashing Red Light - USPS
BTAD-S2-PU-1PH-02	3 HP 230 Volt 1 Phase 60 Hz Power Unit (speeds reduced by 33%)
ELC-P133-00	Oil Reservoir Immersion Heater with Thermostat Control (115V/1PH/60Hz)
BTAD-PU-R	Remote Power Unit with 15'0" Hydraulic Hose & Limit Switch Wire
BTAD-AWC-2	Pop-Up Wheel Chock on Ramp End of Platform - USPS
BTAD-FRL-WB	Field Installable Flashing Red Light Kit - Two Second Warning Bell Complete with Enclosure & Relays
BTAD-TOW	Tow-Eye System; Dolly Jack has additional Tow-Eye to be attached to fork truck for towing
BTAD-ABR-1860	Aluminum Bridge Plate 18" x 60"
BTAD-RP-3660	Aluminum Approach Ramp 36" x 60"
HLD-SBR-1860	Steel Bridge Plate 18" x 60"
ELC-P109-10	Upper Travel Limit Switch
ELC-P116-05	Transformer for Boosting Power from 208V/3PH/60Hz to 240V/3PH/60Hz (2 required)

**Figure 1B**



**Figure 1C**



**BEACON INDUSTRIES, INC**

12300 Old Tesson Rd., St. Louis, MO 63128, USA

Ph: 314-487-7600 USA - Call Toll Free USA 800-454-7159 - Fax: 314-487-0100