SS Series Truck Service
Six Movement Solid Deck Leveler

ARCHITECTURAL SPECIFICATIONS

GENERAL
S Series Pit Mounted Hydraulic Dock Levelers are available with two different styles of deck platforms.
• SF Series - Six Movement Finger Deck
• SS Series - Six Movement Solid Deck

DESCRIPTION
Adjustable hydraulic dock leveler with six movements: (1) Up, (2) Down, (3) Forward, (4) Reverse, (5) Left, (6) Right. Dock leveler to be _____ ft. long x _____ ft. wide with a rollover capacity of ______ lbs.
Platform to extend horizontally 20 in., travel 24 in. vertically 12" up & 12" down and 12" side to side. Platform to extend 12" up & 12" down and 12" side to side. Platform to be (solid) or (segmented) and able to compensate for canted trucks up to (4) or (6) in., and constructed of floor plate reinforced by type A-36 structural "I" beams, with 3/4 in. 55,000 yield strength fixed lip. Dock leveler to be equipped with full range toe guards, hydraulic velocity fuse, and cross traffic / maintenance safety support legs. Dock leveler shall be complete with 3 Hp, 2.5 GPM electric-hydraulic power unit. Horizontal side movement & slide deck hydraulic cylinders to be double acting and deck vertical travel hydraulic cylinders to be single acting. Dock Leveler to meet or exceed OSHA requirements, ANSI 30.1-2007 and SC 202-56 spec. To be Beacon Model ______ as sold by Beacon Industries, Inc.

SCOPE
S SERIES IS SAFER
Unlike a standard hinged lip leveler, the slide deck has a continuous platform, making the unit inherently safer during dock operations. If a truck prematurely departs with dock personnel and equipment still on the leveler, the leveler supports the entire load to the end of its extended deck.

DIMENSIONS - Finger Deck

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DIMENSIONS - Solid Deck

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CONSTRUCTION
SF SERIES Segmented Finger platform shall consist of longitudinal segments of length and construction necessary to meet required platform dimensions. Each finger or segment shall be properly hinged mounted and supported at the rear curb angle end to provide the independent movement of each finger that is required to compensate for the maximum out of level condition of the truckbed.

SS SERIES solid platform shall consist of a longitudinal length platform and construction necessary to meet required platform dimensions. The platform shall be properly hinged mounted and supported at the rear curb angle end to provide required compensation for the maximum out of level condition of the truckbed. The surface of the ramp platform and lip shall be of non-skid steel floor plate.
RAMP SIDES: The sides of the ramp shall be provided with steel skirts as safety measure and shall be securely attached.

PITS AND CONCRETE WORK: All concrete work by contractor. Pit to be constructed per drawing supplied for each installation. All curb angles by contractor.

HYDRAULICS
2.5 gpm pump, solenoid controlled valves and a pressure relief valve. The S Series’ 7 gallon oil reservoir, with a sight gage and filler-breather cap, is mounted nearby. Easy maintenance from inside the building is obtained through the rear gap plate of the SF and SS Series leveler.

CYLINDERS: Cylinders shall be single/double acting accurately machined.
All levelers have two 3 1/2” I.D. hydraulic lift cylinders with 2” diameter solid hard chrome plated rods. The S Series have 3 1/2” I.D. extension and side shift cylinders.

ELECTRICAL
The SF and SS Series’ electro-hydraulic power unit is complete with a 3 hp. totally enclosed fan cooled electric motor.
The pushbutton controls are pre-wired and mounted in a fully gasketed, Nema 4X noncorrosive indoor-outdoor control box enclosure.
The motor is totally enclosed, fan cooled and is rated at 208/240/440 volts, 3 phase, 60 Hz. Other motor types are available on request.

All provided electrical components, connections and wiring are UL listed, approved or recognized. Motor starter, disconnect switch, transformer, wiring and conduit are not supplied as standard equipment.

SAFETY EQUIPMENT
A hydraulic safety fuse is provided to limit loaded platform free fall to 4” should a truck or trailer separate from the dock.

Mechanical legs on the S Series act as safety supports for the platform during maintenance service.
Full range toe guards are standard with every leveler.

PAINT
Durable polyurethane enamel paint is used on all parts of the leveler. The platforms, toe guards and major moving parts are safety yellow while the frame, hydraulic cylinders and other components are safety blue.

OWNERS MANUAL

LEVELER WARRANTY
The S Series comes with a Limited Warranty-5 Years on structure, 3 Years on hydraulic components and 1 Year on electrical components.