

# FC Series-Dock Leveler for Shipping Containers

## Container on Truck Service

### Four Movement Hydraulic Telescopic Dock Leveler

**VIDEO AVAILABLE**



## ARCHITECTURAL SPECIFICATIONS

### GENERAL

FC Series Dock levelers are available in two heavy duty styles:

- **FC Series - Four Movement Pit Mounted Leveler**
- **FCFS Series - Free Standing Leveler**

### DESCRIPTION

Adjustable hydraulic dock leveler with four movements: (1) Up, (2) Down, (3) Forward, (4) Reverse. Dock leveler to be \_\_\_\_\_ ft. long x \_\_\_\_\_ ft. wide with a rollover capacity of \_\_\_\_\_ lbs. Platform to extend horizontally 44 1/2" and have 24" vertical travel. Platform to be solid and able to compensate for canted trucks up to (4)", and constructed of floor plate reinforced by split box beams, with 3/4" 55,000 yield strength fixed lip. Dock leveler shall be complete with 2 HP, 5.8 GPM electro-hydraulic power unit and 3 1/4" ID double acting hydraulic cylinders. Dock leveler to be equipped with full range safety skirts, hydraulic velocity fuse, cross traffic/maintenance safety support legs. Dock leveler to meet or exceed OSHA requirements, ANSI MH 30.1-1993 and CS 202-56 specs. To be Beacon Model \_\_\_\_\_ as sold by Beacon Machinery, Inc.



FCF FREE STANDING LEVELER



CONTROL STATION BOX

### SCOPE

The Beacon FC Series Levelers are designed for docks that service incoming or outgoing refrigerated or non-refrigerated containers transported on trailer under-carriages. These levelers are designed to extend out toward the container. The FC Series 100% hydraulically adjustable dock levelers have four movements:

#### 1-UP; 2-DOWN; 3-FORWARD; 4-REVERSE

Size and movements are nominal dimensions.

Total control of all movements is achieved with the use of clearly marked switches and pushbuttons. The standard models are capable of a 24" working range of X" above and X" below the level position. The 44 1/2" platform extends 40 1/2" beyond the face of a 4" dock bumper. This long extension allows the FC Series Levelers to take the place of dangerous and cumbersome dock plates. FC Series Levelers have an angled platform to provide clearance over the back of the trailer undercarriage. The platform of the FC Series is solid and can compensate up to 4 inches for out-of-level truck beds. The platform resists break-in attempts through dock areas.

#### BEACON IS SAFETY

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.

#### BEACON IS BUILT TO LAST

Beacon is one of the few companies that rate their levelers with ACTUAL dynamic roll-over capacities. We are proud of the way we rate our equipment. Our levelers are built to see loads, day-in and day-out, year after year. Throughout our range of 20-50,000 lbs. you will discover our levelers are the most durable.

#### Vertical Travel



#### Horizontal Travel



#### Tilt Compensation



## DIMENSIONS

MODEL	A DL WTH	B DL LNG	C DL HGT	D PIT WTH	E PIT LNG	F PIT HGT
FC6610	6'6"	10'	32"	80"	10'	32.5"
FC612	6'	12'	32"	74"	12'	32.5"
FC78	7'	8'	32"	86"	8'	32.5"
FC710	7'	10'	32"	86"	10'	32.5"
FC712	7'	12'	32"	86"	12'	32.5"

CAPACITY: All models are available in 20, 30, 40 and 50,000 lb. rollover capacities.

MODEL	A DL WTH	B DL LNG	C DL HGT
FCFS6610	6'6"	10'	53 1/2"
FCFS612	6'	12'	53 1/2"
FCFS78	7'	8'	53 1/2"
FCFS10	7'	10'	53 1/2"
FGFS712	7'	12'	53 1/2"

CAPACITY: All models are available in 20, 30, 40 and 50,000 lb. rollover capacities.

\*DL = Dock Leveler Dimensions  
\*PIT = PIT Size Dimensions  
Custom Sizes Available  
Pit Shall Have 1/2" Slope To Front



## OPERATION

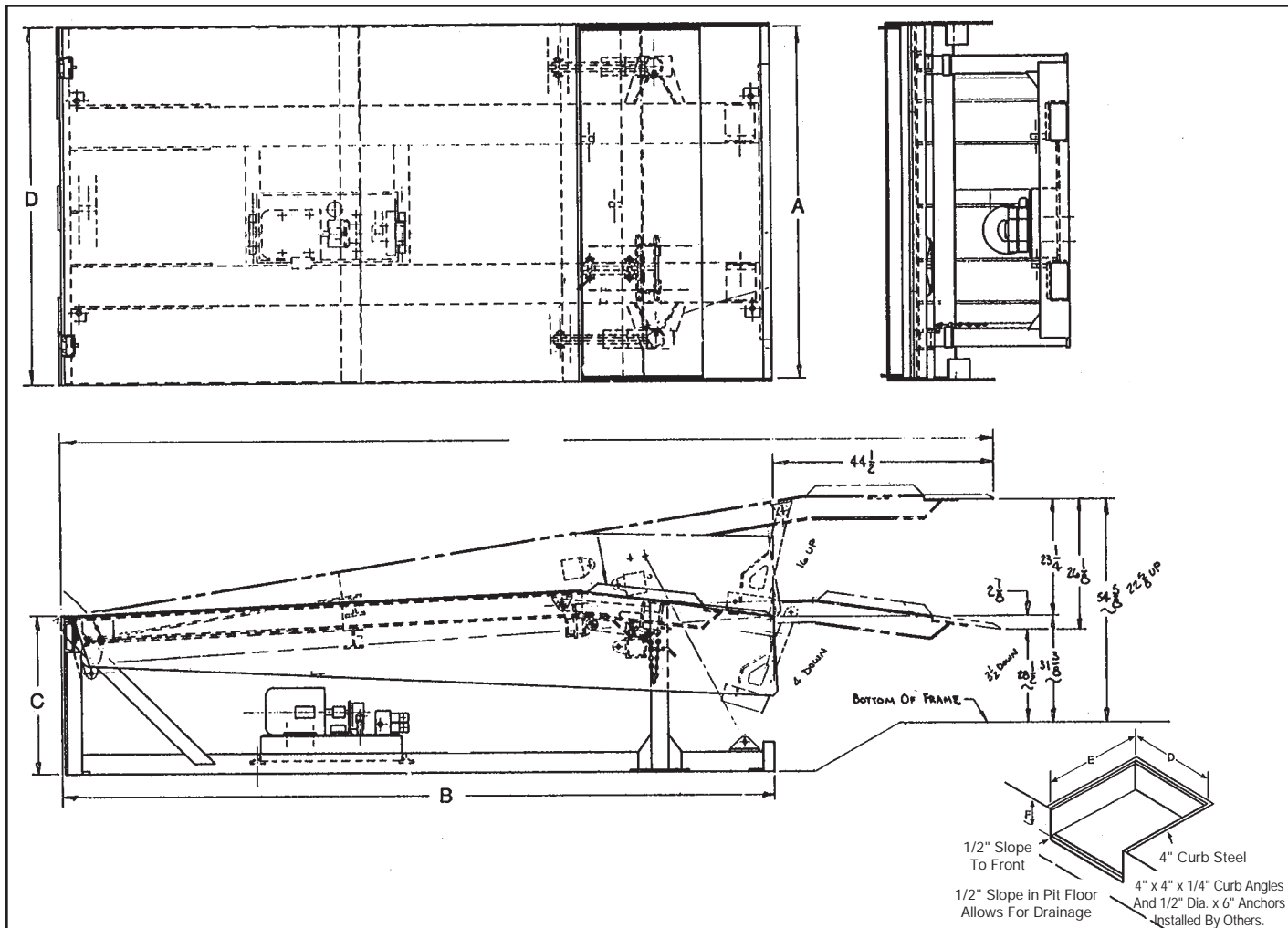
The ramp shall be provided with electric pushbutton control for the four movements:

#### 1-UP; 2-DOWN; 3-EXTEND; 4-RETRACT

The ramp platform shall be provided with extending section, designed to increase its length in the same plane by 44 1/2", from the fully retracted position to the fully extended position.



Purchase Order No:		Approved Date:	Ship Date:
Purchaser:		Dealer:	
Contractor:		Architect:	
Project:		Location:	
Model No:	Size:	Quantity:	Capacity:



The ramp platform, including the extension shall be "free floating", after the lip of the extension has been positioned on the truckbed, or tailgate.

## CONSTRUCTION

A continuous surface platform of non-skid steel floor plate shall be provided suitably reinforced to carry the rated load. The continuous surface platform shall provide for out of level compensation in any condition of loading by a flexing action across approximately the full surface of the non-skid plate of the platform.

The sides of the ramp shall be provided with steel skirts as a safety measure and shall be securely attached.

All concrete work by others. Pit to be constructed per drawing supplied for each installation. All curb angles by others.

## HYDRAULICS

5.8 gpm pump, three solenoid controlled valves and a pressure relief valve.

The FC Series' 7 gallon oil reservoir, with a sight gage and filler-breather cap, is mounted nearby.

Cylinders shall be single/double acting accurately machined.

All levelers have two 3 1/4" I.D. hydraulic lift cylinders with 2" diameter solid hard chrome plated rods.

The FC Series have 3 1/4" I.D. extension cylinders.

## ELECTRICAL

The FC Series' electro-hydraulic power unit is complete with a 2 hp. totally enclosed fan cooled electric motor.

The pushbutton controls are pre-wired and mounted in a fully gasketed, Nema 4X noncorrosive indoor-outdoor enclosure box.

All motors are totally enclosed and fan cooled and are 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 3 inches should a truck or trailer separate from the dock.

Mechanical legs on the FC Series act as safety supports for the platform during maintenance service.

Full range toe guards safety skirts are standard with every leveler.

## PAINT

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

## OWNERS MANUAL

Owners Manual comes with each unit, including Serial Numbers, General Information, Installation and Anchoring Instructions, Wiring Schematics, Hydraulics Schematics, Operating Instructions, Loading and Unloading Instructions, Maintenance Instructions, Trouble Shooting Cart, Part Numbers Listed.

## LEVELER WARRANTY

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

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