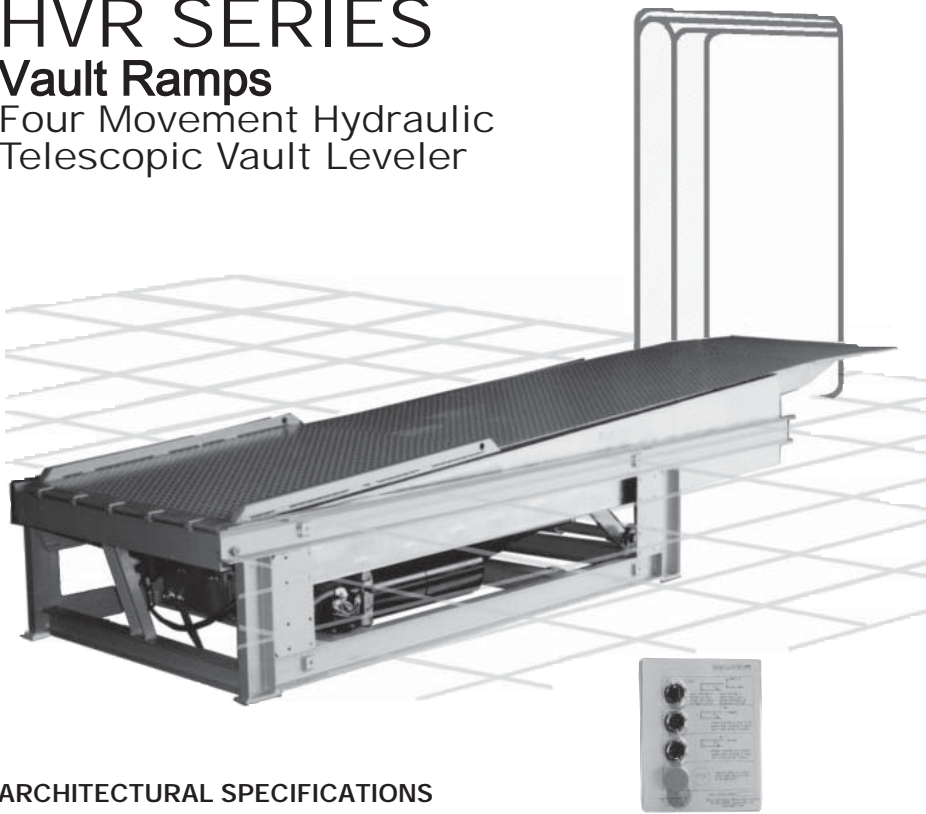


# HVR SERIES

## Vault Ramps

### Four Movement Hydraulic Telescopic Vault Leveler



CONTROL STATION BOX

## ARCHITECTURAL SPECIFICATIONS

### GENERAL

HVR SERIES Pit Mounted Hydraulic Vault Levelers are specially designed to enter into vaults and act as a loading platform.

- **HVR SERIES - Four Movement with 44" telescopic deck platform.**

### DESCRIPTION

Adjustable Hydraulic Vault Leveler with four movements: (1) Up, (2) down, (3) Forward, (4) Reverse. Vault Leveler to be \_\_\_\_\_ inches wide x \_\_\_\_\_ inches long with a dynamic rollover capacity of 4,000 lbs. Platform to extend horizontally 44" and have 16" vertical travel. Platform to be solid and able to compensate for out of level vault floors. Rear deck constructed of 3/8 inch tread checker plate reinforced by 1 1/2 inch square tubing. Center deck constructed of 3/16 inch tread checker plate reinforced by 4" square beams and C4 channel. Front of deck and lip constructed of 3/8 inch tread plate. Vault Leveler shall be complete with 1 HP, 1.3 GPM electro-hydraulic power unit. The hydraulic lift cylinder shall be 3 1/4" bore, 4" stroke with a 2" rod and the hydraulic slide deck cylinder shall be 2" bore, 44" stroke with a 1 3/8" diameter rod. Vault leveler to be equipped with full range stainless steel toe guards. Maintenance safety support legs for the rear entry deck hatch are standard. Vault Leveler to meet or exceed OSHA requirements and CS 202-56 specs. To be Beacon Model HVR SERIES as sold by Beacon Machinery, Inc.

### SCOPE

The Beacon HVR SERIES Vault Levelers are designed to accommodate vaults with high volumes of traffic, servicing most sizes bank vault door openings. These vault levelers are designed to extend out toward the vault door opening and into the vault. The HVR SERIES 100% hydraulic adjustable vault levelers have four movements:

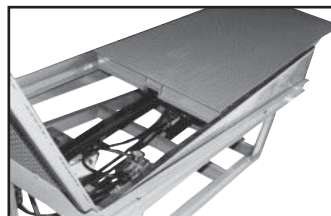
- 1-UP; 2-DOWN; 3-FORWARD; 4-REVERSE

Total control of all movements is achieved with the use of clearly marked selector controls and push-buttons. Standard models are capable of a 16" vertical working range including 16" above the surface floor outside of the vault door opening and 0" below the floor surface. The 44" slide deck telescoping platform can be stopped by the operator at the desired travel length.

### OPERATION

After the vault door is opened and moved around to the vault wall, open the day gate if applicable. Turn the "UP/DOWN" selector to "UP" to raise the platform. When the platform is at least 4" above the vault floor, release the selector control. The platform stops and will not settle down. This feature allows for exact positioning of the platform lip. Turn the "FORWARD" selector control to extend the platform out toward the vault door opening. When the platform is over and into the vault opening release the "FORWARD" selector control to stop the platform. Next turn the "UP/DOWN" selector control to "DOWN" and the platform will settle down to the vault floor.

To store the platform, turn the "UP/DOWN" selector control to "UP". When the platform is at least 4" above the vault floor, release the selector control. Push the "REVERSE" selector control until the platform is completely retracted. Then turn the "UP/DOWN" selector control to "DOWN" to complete the storing cycle. At any time, the "EMERGENCY STOP" button can be pushed to stop any and all movements of the vault leveler.



## DIMENSIONS

MODEL	VL WTH	VL LNG	VL HGT	PIT WTH	PIT LNG	PIT HGT
HVR-37-114-4	44"	113.5"	19.5"	45"	114.5"	19.5"

\*VL = Vault Leveler Dimensions  
\*PIT = PIT Size Dimensions  
Special Sizes Available

The ramp shall be provided with electric selector controls for the four movements: 1-UP; 2-DOWN; 3-EXTEND; 4-RETRACT.

The ramp platform shall be provided with an extending deck/lip section, designed to increase its length in the same plane, from the fully retracted position to the fully extended position.

The ramp platform, including the extending deck/lip, shall be locked into position with a hydraulic counter balance valve to help carry the load on top of the platform.

## FEATURES

HVR SERIES Hydraulic Vault Leveler to include:  
Full Range Toe Guards.  
Telescoping Slide Deck for high traffic cycles.  
44" Telescoping deck/lip for long reaches and service ranges.  
Maintenance Safety Struts.

## CONSTRUCTION

HVR SERIES platform is made up of a rear deck and a sliding deck. The rear deck is attached at the rear of the frame. The sliding deck moves underneath and inside the rear deck section by the horizontal telescoping hydraulic cylinder allowing extension out to the vault door opening.

All checker plate and structural steel to be 55,000 lb. minimum yield. The rear deck hatch is constructed of 3/8" tread checker plate reinforced by 1 1/2" square tubing. Center deck constructed of 3/16" tread checker



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

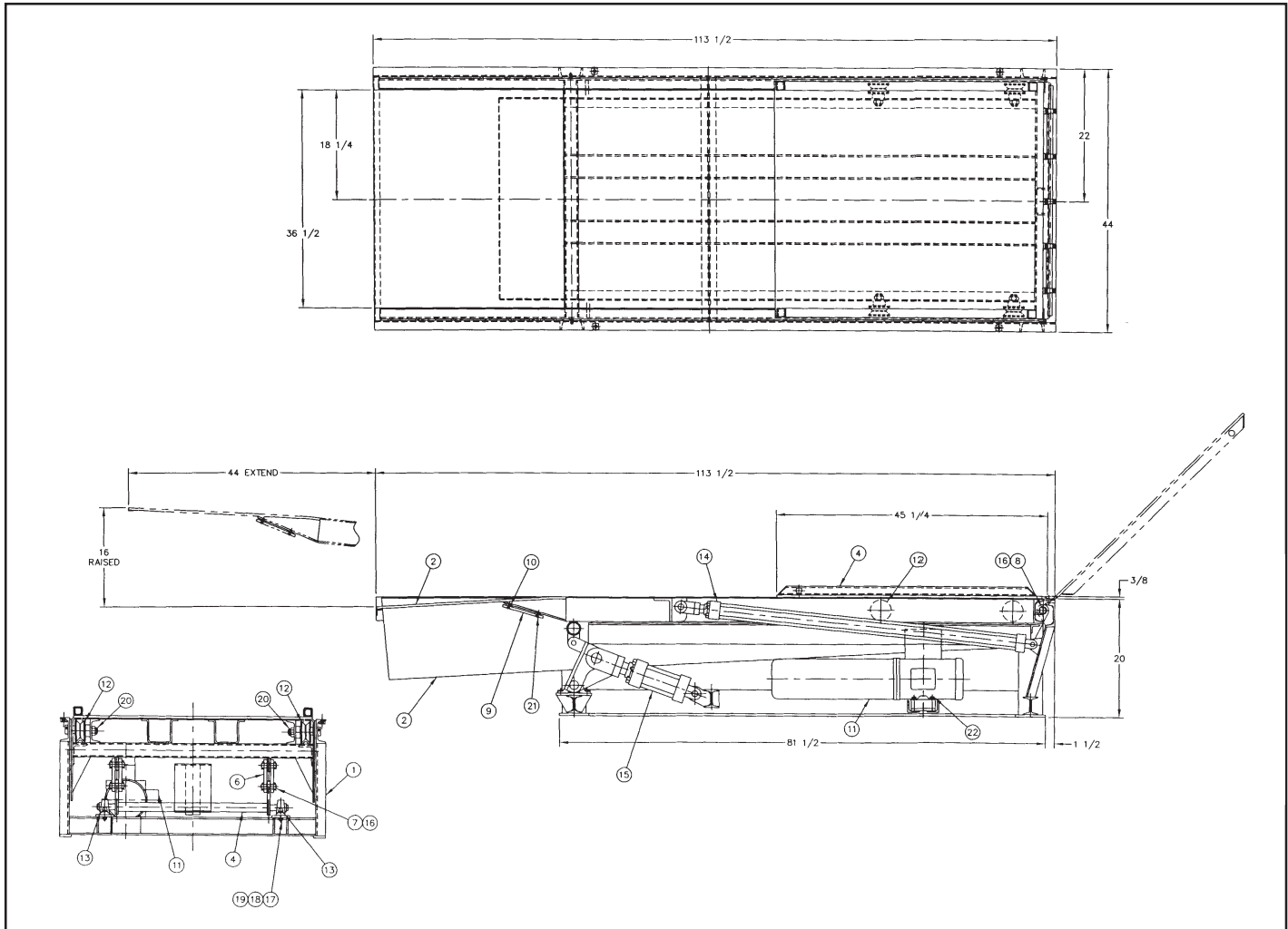


plate reinforced by 4" square beams and C4 channel. Front of deck and lip constructed of 3/8" tread checker plate.

The HVR SERIES solid platform shall consist of a longitudinal length platform and construction necessary to meet the required platform dimensions. The rear deck platform shall be properly mounted and supported with five hinges at the rear of the leveler frame.

The surface of the ramp platform and lip shall be non-skid tread plate.

The side of the ramp shall be provided with full range stainless steel safety toe guards.

The selector controls shall be of the type requiring constant pressure so the removal of pressure immediately stops all ramp movement.

The vault ramp shall be a packaged type, completely assembled unit with all components and load bearing structural members within its own steel frame, requiring only welding into position and electrical connections.

**PITS AND CONCRETE WORK:** All concrete work by contractor. Pit to be constructed per drawing supplied for each installation. Curb angles and concrete pit forms by Beacon.

## HYDRAULICS

Hydraulic pump at 1.3 GPM, 3 gallon cylindrical reservoir, adjustable relief valve with load check, 2 (ea.) 4-way, 3 position directional control valves. This unit is designed to both raise and lower the vault leveler deck plate under power, which includes a regeneration sandwich valve and counterbalance valve. The hydraulic lift cylinder shall be a 3 1/4" bore, 2" rod with 4" stroke. The horizontal telescoping slide deck cylinder shall be a 2" bore, 1 3/8" rod with 44" stroke.

## ELECTRICAL

The HVR SERIES electro-hydraulic power unit is complete with a 1 HP, totally enclosed fan cooled electric motor rated at 208/230 Volts, 3 Ph., 60 HZ. Other motor types are available on request.

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

All provided electrical components, connections and wiring are UL listed, approved or recognized. Motor starter, fuses, transformer and breakers are supplied as standard equipment.

## SAFETY EQUIPMENT

Full range toe guards are standard with every leveler.

## OWNERS MANUAL

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

## LEVELER WARRANTY

HVR SERIES comes with a Limited Warranty - 1 year on structural, hydraulic components and electrical components.