# RHH-4000 Hydraulic Dock Leveler

Best in class leveler safely bridges the gap while providing the smoothest transition in the industry.











Constant radius rear hinge Two-point crown control

Extended Lip Chamfer Rugged Steel Safe-T-Lip

# Help Reduce Chronic Injuries

The Smooth Transition Dok System® helps minimize Whole Body Vibration (AKA "Dock Shock") by up to  $16\%^2$ , increasing productivity through reduced chronic tibial injury and absenteeism.

- » Constant radius rear hinge reduces the gap at the back of the leveler to a consistant 1/3" space between the leveler deck and rear weldment; no matter the leveler position.
- Two-point crown control reinforces the front hinge and reduces the crown at the transition from leveler deck to leveler lip.
- Extended lip chamfer reduces the impact felt when transitioning from the leveler lip to the trailer bed
- » Reduce "Dock Shock" by 50% with the Smooth Transition Dok System and modern forklift design.<sup>2</sup>

# Increase Productivity With Optimal Safety

With effortless push button operation, easy clean frame, and a wide variety of safety features, personnel are safer and the dock leveler has a longer life expectancy.

- Infinite Lip Control helps reduce operating time and amplifies safety by allowing the operator to extend the lip or stop the platform at any time during leveler travel.
- » Safe-T-Lip® helps prevent vacant drop-off, while its slotted-lip design safely positions the barrier out of the way for unobstructed end-load access.

# Secure Loading & Unloading Operations

Rite-Hite® structural design allows the leveler to maintain constant contact with a trailer, helping to remove any unexpected obstacles.

Air ride suspensions and uneven loads can cause an unsafe separation between trailer floor and leveler lip. The L-Beam stringer (with two extra beams compared with competitors) increases deck strength and allows the leveler to flex up to 4" under its own weight, empowering the lift operator to drive with the confidence that they will not endure jarring impacts caused by a hazardous gap; especially when exiting.

#### **Enhance Safety During Maintenance**

The Safe-T-Strut™ through-the-lip design provides communication and safety from any angle inside or outside the building.

- The central, through-the-lip location keeps the strut in place throughout the entire operating range of the leveler. This position enables it to withstand an accidental impact of a 10,000 lb fork truck at 4 mph.
- » Visibility from inside the building indicates to all that maintenance is being performed and helps prevent accidental operation, keeping personnel safe during scheduled maintenance.

# Achieve Lower Lifetime Ownership Costs

Unique structural engineering stands firm under extreme warehouse demands to lower repair and maintenance costs, while increasing product lifespan.

- The formed front header (connection between deck and leveler lip) completes the foursided rectangular box construction and includes interlocking and welded stringers to create a stronger bond, increase overall strength and help limit lifetime maintenance downtime issues.
- Certified to meet and exceed ANSI MH30.1 performance testing standards.

# **Industry Leading Warranty**

Rite-Hite warranties are based on material handling gross weights and frequency of use. Consult your Rite-Hite Representative to discuss qualifications through the Dock Leveler Investment Guide (DLIG).

- > 10-Year non-prorated warranty (based on DLIG).
- » Up to 20-Year limited money-back warranty (based on DLIG).



# **Specifications**

# **General Description**

The RHH-4000 Hydraulic Dock Leveler offers the safety and reliability the industry expects from Rite-Hite. Our first dock leveler with a Smooth Transition Dok System, the RHH-4000 is proven to reduce whole body vibration<sup>1</sup>, helping to protect people and material handling equipment while increasing productivity.

Smooth Transition Dok System includes: ☐ constant
radius rear hinge to reduce bumps and gaps at rear of
leveler, $\square$ two point crown control to evenly distribute
weight load and extend the life of the front hinge,
$\Box$ optimized lip chamfer to improve smoothness by 20%,
$\square$ 8" (203mm) deck beam spacing to support use of
$\square$ 3-wheel and $\square$ 4-wheel forklifts, and $\square$ 4" (101mm)
Self-Flex Deck does not require the weight of the forklift
to accommodate unbalanced/unlevel trailer beds as
the forklift travels in to and out of the trailer in service.
<b>Leveler Length (ft.):</b> □6 □8 □10 □12 □Enter Below
<b>Leveler Width (ft.)</b> : 6 6.5 7 Enter Below
Pit Length: Pit Width: Pit Depth:
Loveler Lin

Standard Lip Length (in.): ☐ 16 18 ☐ 20 Exclusive Safe-T-Lip™ (STL) **barrier** offered as  $\Box$ 18" (457 mm) lip w/5" (127 mm) STL or  $\square$  20" (508 mm) lip w/ 7" (178 mm) STL helps protect against open dock accidents, helping to stop a 10,000 lb. (4,535 kg) load moving at 4 mph (6 kph).

» Unique Safe-T-Lip can be easily positioned out of the way for end-loading (only with STL opt).

#### ☐ Manual End Load Legs

<b>□Lip keepers</b> with □ cross-traffic support and	
_automatic night locks help prevent building	break-
in attempts through dock areas.	

☐ Infinite Lip Control ☐ Extended Lip Chamfer **Lip Crown:** 2 Pt Increased Crown Control

□ 2 Pt Reduced Crown Contol □ 2 Pt Crown Control (STD)

**Lip Taper (in.)**: ☐ TPR2 ☐ TPR3 ☐ TPR4 ☐ TPR5 ☐ TPR5.5 □ Notch2 □ Notch3 □ Notch4 □ Notch5 □ Notch5.5

#### **Leveler Capacity**

Rite-Hite levelers are certified to exceed ANSI MH30.1 dock leveler performance testing standards. Leveler capacity by application:  $\Box$  C  $\Box$  D  $\Box$  F  $\Box$  G Optional MH14.1-1978 decals: MH14.1-1978 37.000 (C) ☐ MH14.1-1978 46,000 (D) ☐ MH14.1-1978 59,000 (F)

☐ MH14.1-1978 66,000 (G)

RIT	F•	11	T	F®
	ALWAYS	LOOKI	NG AH	EAD

RHH4PKG www.ritehite.com

Stand			

Two bumpers: □ Excluded □ RH410-10P1 □ RHV420-11P
☐ RHV420-11SFP1 ☐ RH612-14P1 ☐ RHV620-11P1
☐ RHV620-11SFP1 ☐ DS412-14P1 ☐ DS612-14P1
Toe Guard: ☐ Standard Grey (Integral) & Yellow (Full-
range toe guard) $\square$ Grey (INT & FRTG) $\square$ Yellow and
Black Stripes (INT & FRTG) ☐ Yellow (INT & FRTG)
Weatherseal: ☐ NB-1 Factory Installed ☐ NB-1 Kit (Field)
☐ PT-2 Factory Installed ☐ PT-2 Kit (Field)

### Operation

1. To raise the platform, push and hold the "Raise" button on the control box. 2. After the lip clears the trailer floor, push and hold the "Lip Out" button (levelers equipped with Infinite Lip Control (IFC)) while continuing to hold the "Raise" button to extend the lip. For levelers without IFC, raise the platform until the lip fully extends. 3. Release the push buttons to allow the leveler platform and lip to lower to the truck bed, above and below dock height, without manual chain pulling. 4. To store the dock leveler, press the "Raise" button until the lip clears the trailer bed and release the button to return the dock leveler to stored position.

# **Hydraulics**

The low pressure hydraulic pump, manifold & oil reservoir are contained in an integral assembly. Hoses routed under the platform, away from debris. All fittings are JIC flange or "O" ring flange. 

Biodegradable hydraulic fluid or MIL-5606 Oil-based hydraulic fluid options available. The platform is raised by an inverted ☐ Base Hydraulic System 2.5" Diameter Main Cylinder, 1-1/2" Diameter, Lip Cylinder, 1 HP Power Unit or ☐ Hydra-Rite<sup>™</sup> Hydraulic System 4" Diameter Main Cylinder, 2-1/2" Diameter Lip Cylinder, 1 HP Power Unit. ☐ Non-adjustable hydraulic velocity fuse limits platform free fall to 3" (76mm). Combination Power Unit: ☐ STR-4200 ☐ VBR-600

### Electrical/Controls

All controls are mounted in an interlock capable, NEMA 4X, gasketed control panel and enclosure assembly.

☐ Ship Controls w/ Leveler: ☐ Shipping Separately ☐ Special CB Ordered ☐ Combined CB Ordered

» Informational signs/decal languages:

☐ French Canadian ☐ English (Standard) ☐ Portuguese

Remote Power Unit: Horizontal Vertical

**P** 414-355-2600 (800-456-0600)

**F** 414-355-9248

8900 North Arbon Drive

Milwaukee, WI 53223, USA

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	S

All electrical components, connections and wiring are UL listed or recognized. The leveler requires a power source of: ☐ 110-120/1/60 ☐ 208-240/1/60 ☐ 575/3/60  $\square$  208-240/3/60  $\square$  440-480/3/60  $\square$  208-240/1/50 (Int'l NO Euro) 380-415/3/50 (Int'l NO Euro) 380-415/3/50, 24V Coil (Euro Only)

#### ITL(OHD Open/Raise Leveler):

$\square$ ITL (OHD	Oprtr to	Oprt Leveler)	Switch by	Others
$\square$ ITL (OHD	Open to	Oprt Leveler)	Photoeye	by RH
☐ ITL (OHD	Open to	Oprt Leveler)	RH® Limit	Switch

#### Maintenance Features

Integra	al Safe-T-Strut Maintenance Support System	n
extend	Is through the lip and provides: $\square$ interior visua	1
notifica	ation, $\square$ continuous protection even if impacted	d
by a fo	rklift and $\square$ lock out tag out.	

#### ☐ Maintenance Pendant Receptacle

# Standard Warranty

Five-year parts and one-year labor warranty. All warranties subject to standard limitations on liability. 12-Month Limited Money-Back Guarantee of Customer Satisfaction\*. Up to 20-Year Money-Back Warranty based on the Dock Leveler Investment Guide (DLIG).

# Dock Leveler Investment Guide (DLIG)

□ Dock Leveler Investment Guide (DLIG)
<b>Max. Gross Load (1,000 lbs.):</b> □ 5 □ 7.5 □ 10 □ 12.5
□ 15 □ 17 □ 20 <b>Trucks/Day:</b> □ 0-8 □ 9-16 □ 17-24

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Specially Leveler Features
☐ LGV / AGV Application ☐ Self-Standing Frame
☐ Abrasive Ramp Surface ☐ Smooth Deck Lip
Emergency Stop
☐ Reinforced Rear Frame (Specialty Floors)
☐ Automatic Return To Dock (ARTD)
Cold Storage / Corrosive Applications
$\square$ Stainless Steel Hinge Pins $\square$ Zinc metalized finish
Insulation Options: $\square$ Foam (Deck) $\square$ Foam (Deck &
Stringers)** Thermal Paint Barrier (**DLIG not avail. w/ foam options)

# Special Above Dock Service

☐ **Above Dock Service** (Please see "Above Dock Service" supplement for additional specs / information)

# Client Info

Company Name

Date

Rite-Hite®, Safe-T-Lip®, Safe-T-Strut®, Smooth Transition Dok System™, Dok-Commander® and Hydra-Rite® are trademarks of Rite-Hite Holding Corporation. Rite-Hite products are covered by one or more U.S. patents with other U.S. and foreign patents pending. The information herein is provided as a general reference only regarding the use of the applicable products. The specifications stated here are subject to change.

(1) "DOCK SHOCK: The Impact of Whole-Body Vibration on an Aging Workforce" (November 2013)

(2) Lavender, Ph.D., S., & Mehta, M.S., J. (2012). Ergonomic evaluation of new dock levelers on the tibial shock experienced by fork truck operators when loading and unloading trailers. Unpublished raw data, Institute for Ergonomics, Ohio State University, Columbus, OH.