TecnoRampa

ISO 9001:2015 CERTIFIED COMPANY

Mechanical minidock platform

SMALL, SMART & STRONG

tecnorampa.us

We are manufacturers

Meets **ANSI MH30.1-2022 / ANSI MH30.2-2022** standard.

For further details on these regulations and the industry standards applicable to this product, please contact:

American National Standards Institute (ANSI)
1430 Broadway, New York, NY 10018
+1 212.642.4900
www.ansi.org

SAFETY

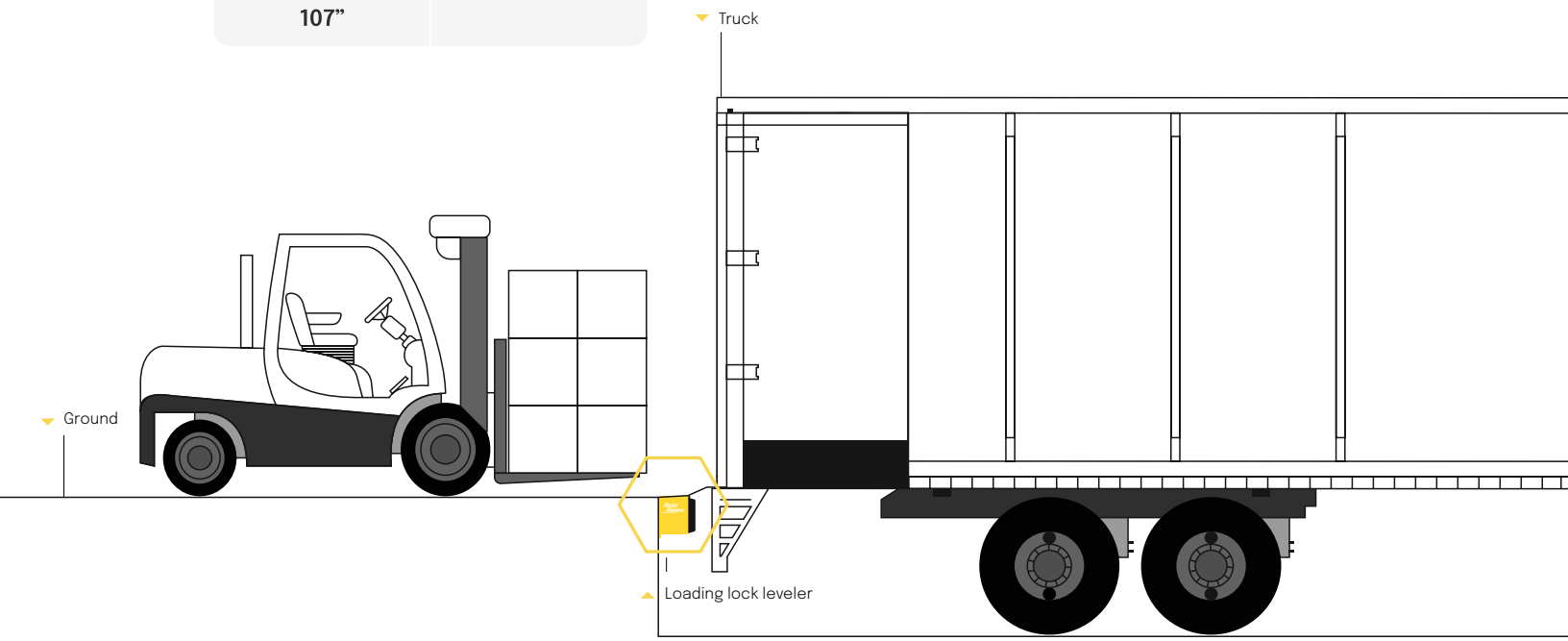
Complete control

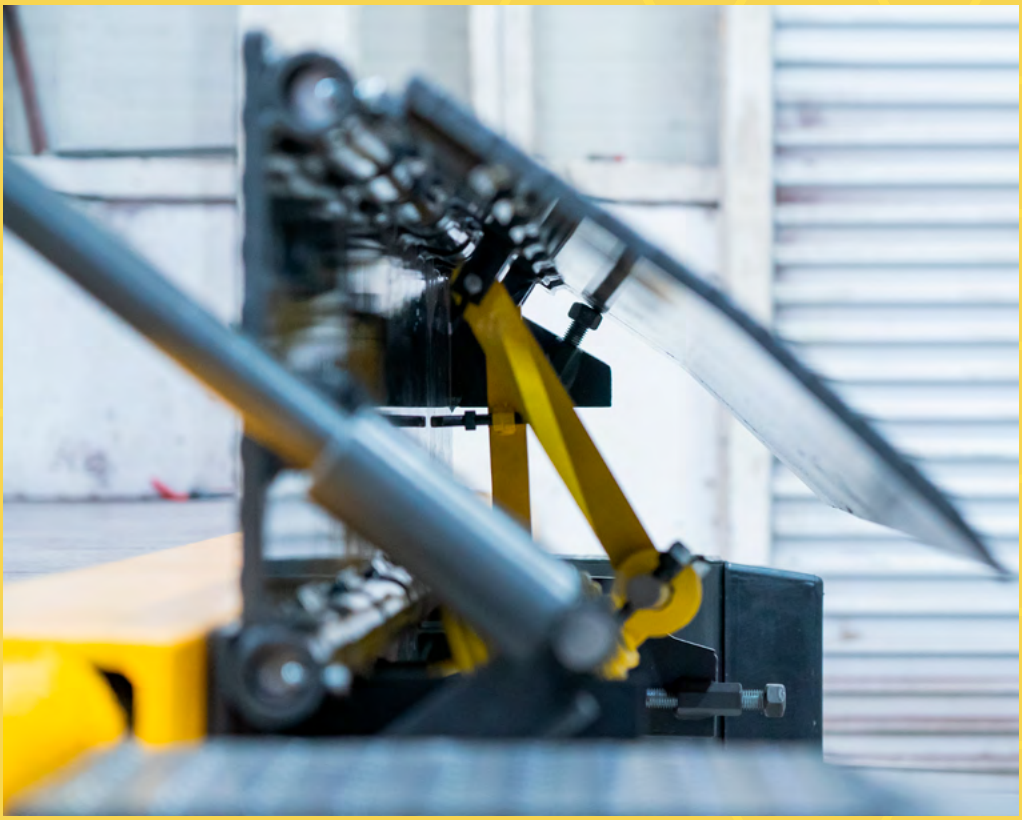
All of ourequipment has first-rate additions and is certified under rigorous standards that allow the excellent operation of our Mini Dock.

Our innovative Mini Dock Platform is developed to easily cover the connection between the platform and cargo transport. With minimal installation and operation requirements, it reduces operating times.

Mechanical minidock

CAPACITY 30,000 LBS	
length	Lip
101”	14-3/4”
107”	





- The mechanical system of the equipment is safe to use.

- The mechanical Mini Dock was designed to make the connection between a loading dock and the transport floor, facilitating movement between them.

- High resistance rubber stopper

- One the lip is making the connection between the platform and the transport, it can be used.

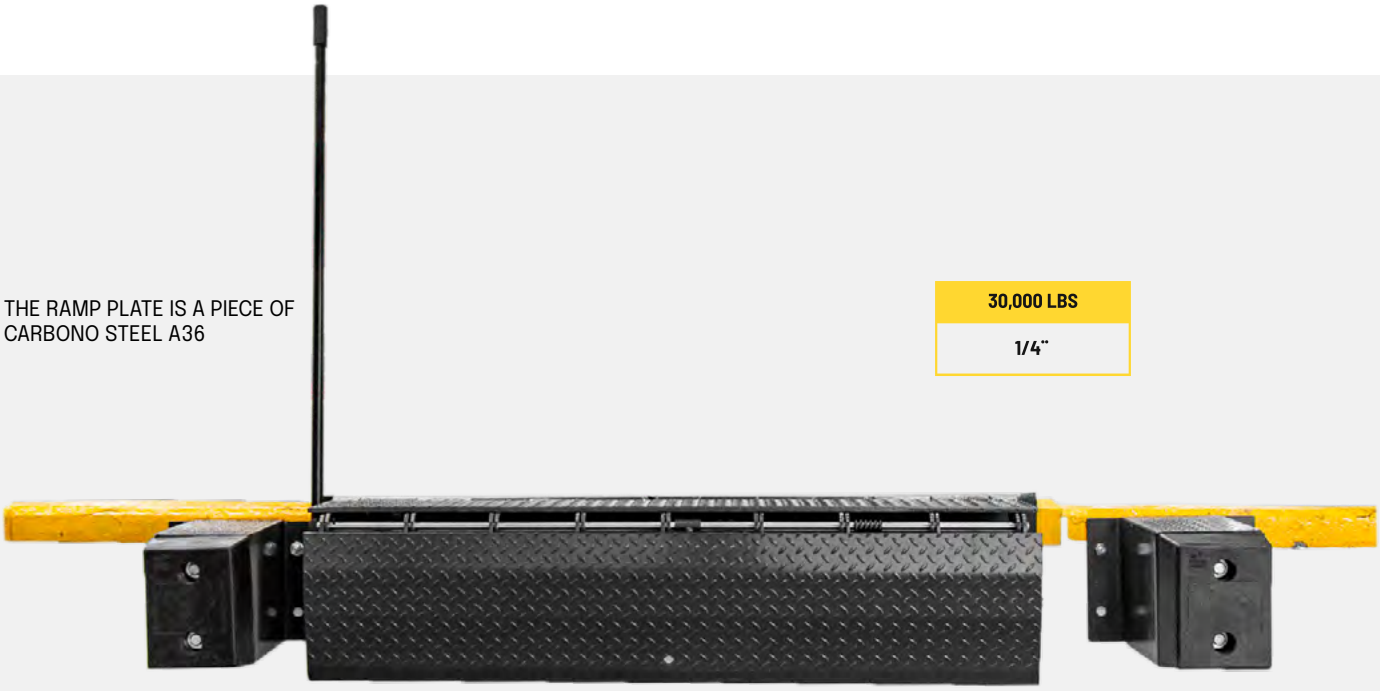
- no electrical connection is required and operation is carried out by simply lifting a lever.

- Metal platform with standard 14-3/4" lip, with a rated load capacity of 30,000 LB, (13607.771 KG).

Single Plate

THE RAMP PLATE IS A PIECE OF CARBONO STEEL A36

30,000 LBS
1/4"



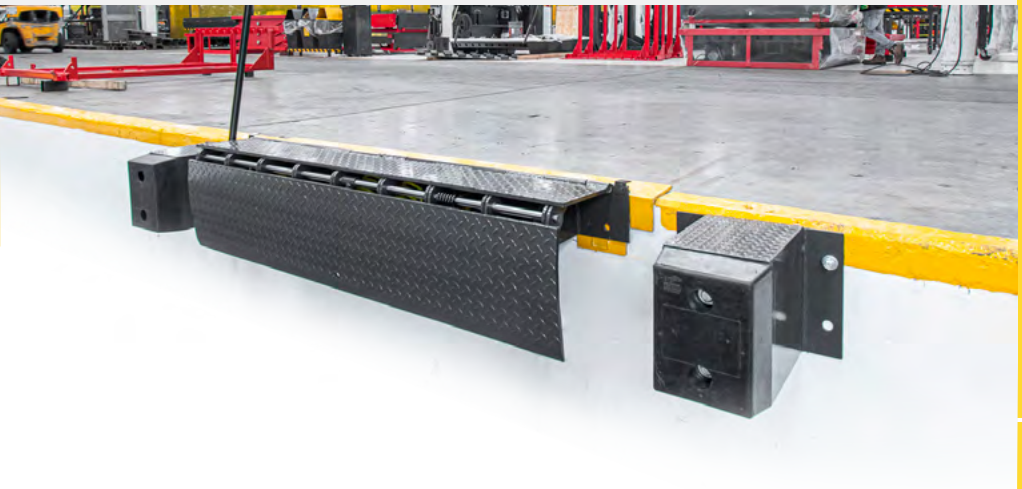
Lip

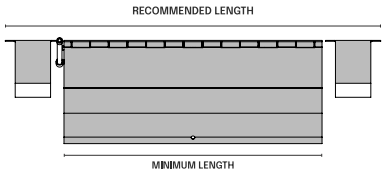
LIP IS A 36 CARBONO STEEL PLATE

30,000 LBS
3/4"

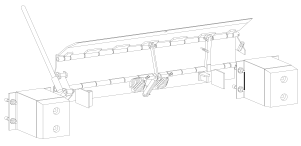
2 bumpers included

— Dock bumpers, (x2 included), protect your building from impact, providing the minimum space required to activate the Brake Ramp TECNORAMPA®





Top view



Pit isometric

Technical details

Nominal dimensions:
66” x 13.6” (1676.4mm x 345mm)

Nominal thickness, (Deck):

Frame:

Leveling:
0 to +6” With respect to Platform level.

Standar Lip:
14-3/4”

Lip, nominal thickness:

Type:
Mechanical.

Finish:
Lead Grey / Yellow

installation

One-piece corner plate, minimum thickness should be 1/4”, measuring 13” wide, and the face of the plate 10” wide.

POWDER COAT

ELECTROSTATIC

Maximum protection and durability through an advanced electrostatic paint system with a specialised oven for thermal curing.

Excellent impact, abrasion and scratch resistance, validated by ASTM D2794 and ASTM D4060 tests.

Maintains its properties and colour in temperature ranges from -20°C to 200°C, complying with ISO 2813 accelerated ageing stability.

Optimum thickness between 60 and 80 microns, complying with standards such as ISO 2360.

Curing of paint between 180°C and 200°C for 10 to 15 minutes, achieving a thermoset coating validated by adhesion (ISO 2409) and hardness (ASTM D3363) tests.

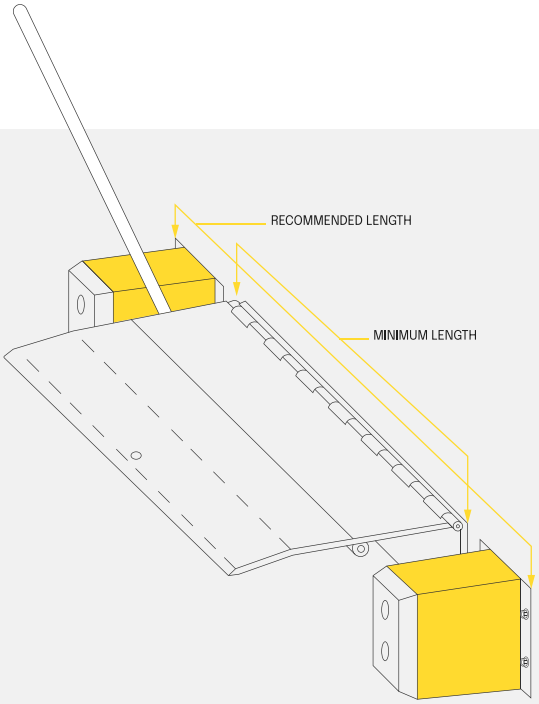
Installation requirements

TECHNICAL DETAILS

NOMINAL DIMENSIONS:
MINIMUM LENGTH:
68” (1727MM)

RECOMMENDED LENGTH:
101” (2565MM)

PIT MATERIAL:
CONCRETE WITH A STRENGTH OF 250KG/CM2 WITH AT LEAST 15CM (6”) THICK

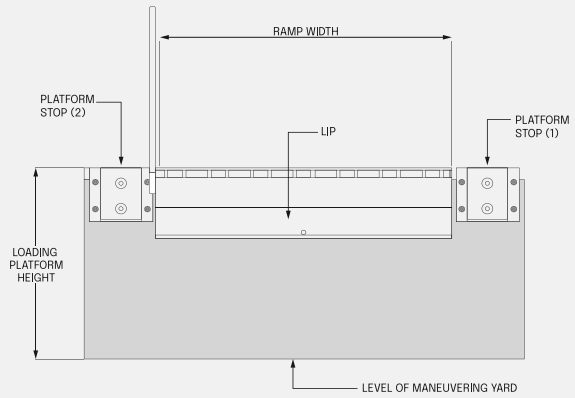


TECHNICAL DETAILS OF LEVELER

	MODEL OF MINIDOCK	
	MDM3066	**MDM3072**
RATED CAPACITY	30,000 LBS	30,000 LBS
RATED DIMENSIONS	66 IN	72 IN
PLATFORM DIMENSIONS	66” X 13.6” (1676.4MM X 345MM)	72” X 13.6” (1676.4MM X 345MM)
LEVELING	0 TO +12” WITH RESPECT TO PLATFORM LEVEL	+/- 12” WITH RESPECT TO PLATFORM LEVEL
STANDARD LIP	14-3/4”	14-3/4”
OPERATION SYSTEM	MECHANICAL	MECHANICAL
FINISH	LEAD GREY/YELLOW	LEAD GREY/YELLOW

ANGLE PLATE 13”x10”x1/4”

(MATERIAL NOT SUPPLIED BY TECHNORAMP)



Installation

WARNING

DO NOT INSTALL, OPERATE AND/OR REPAIR THIS LEVELER UNTIL YOU HAVE READ AND UNDERSTAND ALL SAFETY INFORMATION AND INSTRUCTIONS CONTAINED HEREIN AND ON THE LEVELER.
DO NOT WORK UNDER OR AROUND THE LEVELER BEING INSTALLED WITHOUT FIRST PLACING ADEQUATE BARRIERS TO PREVENT VEHICULAR TRAFFIC FROM ENTERING THE WORK AREA.
KEEP HANDS AND FEET AWAY FROM THE PLATFORM LEVELER ATTACHMENT POINTS.

MECHANICAL INSTALLATION ON PLATFORM EDGE

1. Inspect the curb angle of the loading platform and verify that it is firmly embedded and anchored in the concrete. If there is no curb angle report it to the personnel in charge and do not proceed with the installation until the necessary modifications have been made.

WARNING

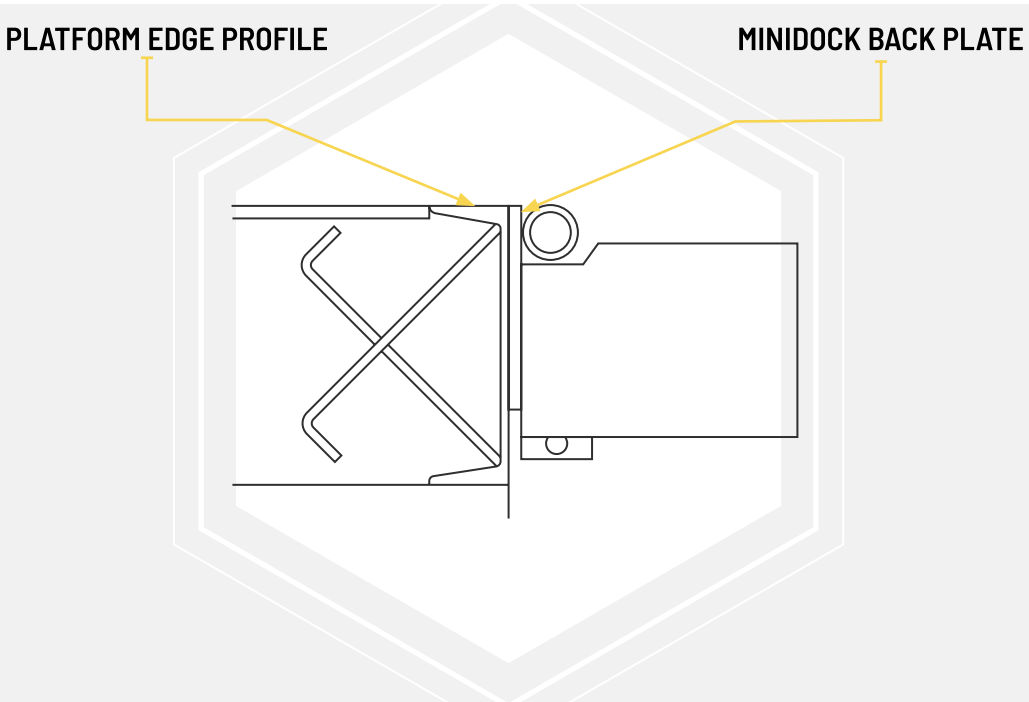
THE LEVELER MUST BE WELDED TO A STEEL ANGLE SECURELY. DO NOT ATTEMPT TO USE BOLTS OR ANCHORS ALONE TO SECURE THE SIDEWALK LEVELER TO THE CONCRETE.
USE CARE WHEN REMOVING THE STRAPS SECURING THE LEVELER. KEEP HANDS AWAY FROM THE ATTACHMENT POINTS AND WEAR APPROPRIATE SAFETY CLOTHING: GOGGLES, GLOVES AND WORK BOOTS.

2. Remove the straps holding the leveler and discard all shipping material.

WARNING

USE CAUTION WHEN LIFTING OR MOVING THE LEVELER. DO NOT ATTEMPT TO LIFT WITHOUT PROPER LIFTING EQUIPMENT THAT IS CAPABLE OF LIFTING AT LEAST 600 POUNDS.

3. Position the rear frame so that the top of the frame is flush with the level of the top of the curb angle. Make sure the top of the frame is parallel to the top of the curb angle.

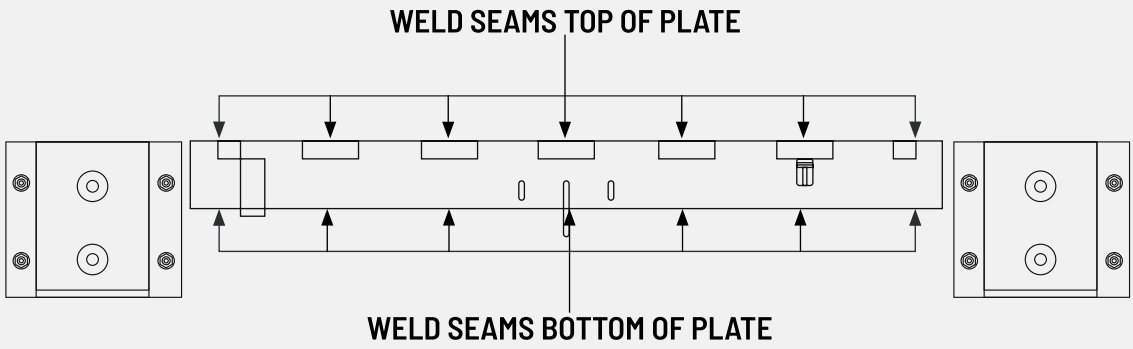


Installation

4 Welding application to attach minidock.

- I tack welded the top of the rear frame securely to the curb angle.
- Make sure the rear frame is firmly against the curb angle, and tack weld the bottom of the rear frame to the curb profile.
- Finish welding the top of the back frame to the curb angle. Weld 1/4" x 4-1/2" (6mm x 115mm) long welds on both ends of the back frame. Repeat 1/4" welds on 10.25" (260mm) centers along the entire length of the rear frame.
- Apply the same weld to the bottom of the rear frame at the curb angle. Weld 1/4" x 4-1/2" (6mm x 115mm) long welds at both ends of the bottom of the rear frame. Repeat 1/4" welds on 10.25" (260mm) centers along the entire length of the rear frame.
- Vertical weld both ends of back frame to curb angle, complete length of vertical contact.

WELDING POINTS TOP SIDE OF PLATE
7018 SOLDER APPLIED WITH DIMENSIONS OF 1/4" X 4-1/2" WITH 10-1/4" CENTER-TO-CENTER SPACING.
WELDING POINTS BOTTOM SIDE OF PLATE
7018 SOLDER APPLIED WITH DIMENSIONS OF 1/4" X 4-1/2" WITH 10-1/4" CENTER-TO-CENTER SPACING.
EXTERNAL PLATE WELDING POINTS
7018 SOLDER APPLIED WITH 1/4" DIMENSIONS OVER THE ENTIRE VERTICAL CONTACT LENGTH



5 Placement of sockets and/or weld on bumpers once back plate weld attachment is complete.

- Position the left stop bracket (on the driveway in front of the dock leveler) so that there is a 1" (25 mm) clearance between the side of the bracket and the deck plate, and the bracket is level with the top of the curb angle. Weld all horizontal and vertical contact areas between the bracket and the curb angle and plug the mounting holes that overlap the curb angle with weld. Install 3/4" X 4-3/4" cleat anchors in the concrete in the mounting holes that are not welded.
- Position the right stop bracket so that there is a 1" (25 mm) clearance between the bracket and the dock leveler cover plate. Weld all horizontal and vertical contact areas between bracket, curb angle and mounting holes. Install 3/4" X 4-3/4" concrete cleat anchors in the mounting holes that are not welded.

6 Installation survey.

- Clean the entire work area and apply touch-up paint where required.
- Ensure that all concrete anchors have been secured.

7 Test operate the unit through several complete cycles of operation.

- Refer to: HOW TO OPERATE. If problems are observed, refer to section MINIDOCK SETTINGS

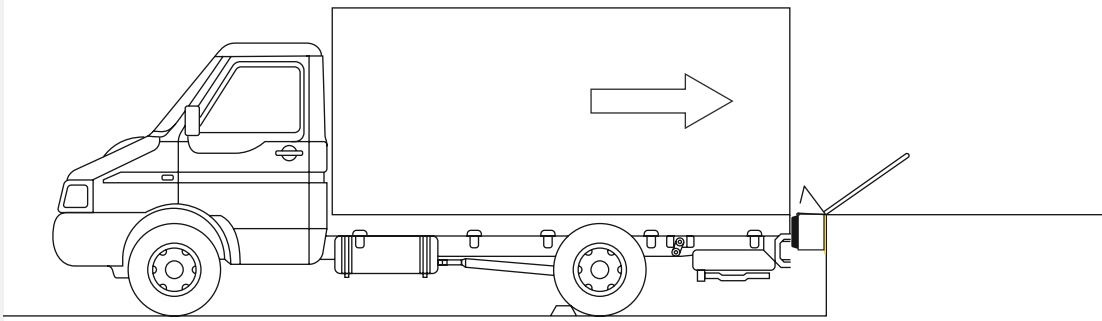
Form of operation

WARNING

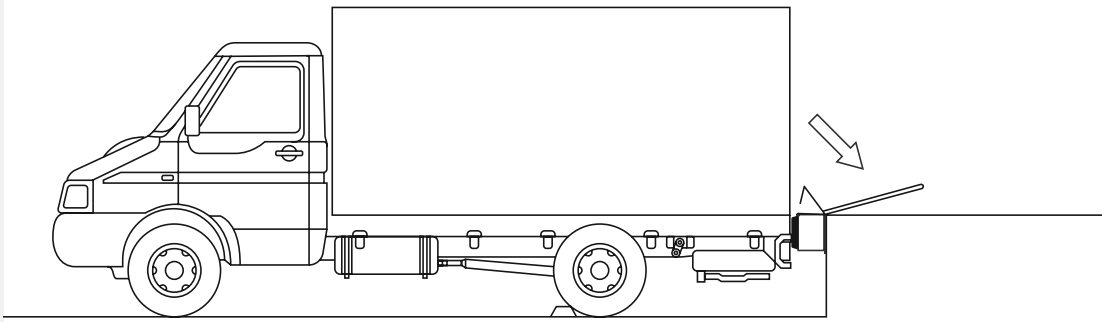
DO NOT OPERATE THIS LEVELER UNTIL YOU HAVE CHECKED ITS CONDITION. REPORT THE NEED FOR MINIDOCK REPAIRS TO YOUR SUPERVISOR IMMEDIATELY AND DO NOT OPERATE THE LEVELER UNTIL REPAIRS ARE MADE. PREVENTION CAN CAUSE A MINOR REPAIR AND AVOID BECOMING A MAJOR SERVICE PROBLEM AND MAKING THE LEVELER UNSAFE.
BEFORE OPERATING THE PLATFORM LEVELER, ALWAYS IMMOBILIZE THE TRUCK WITH A WHEEL RESTRAINT OR WHEEL CHOCKS.
DO NOT OPERATE THE PLATFORM LEVELER IF ANYONE IS STANDING ON OR IN FRONT OF IT.
DO NOT MANUALLY RAISE THE LIP OF THE LEVELER.
ALWAYS KEEP HANDS AND FEET AWAY FROM MOVING PARTS.
AFTER SERVICING THE TRUCK, ALWAYS RETURN THE LEVELER TO THE SAFE POSITION ON THE PLATFORM LEVEL, WITH THE LIP HELD IN THE APPROPRIATE LOCKS.
DO NOT DRIVE OVER THE LEVELER UNLESS THE LIP IS FIRMLY IN CONTACT ON THE VEHICLE BED AND HAS A MINIMUM PROJECTION OF 4 "(100 MM) ON THE VEHICLE BED.
DO NOT OPERATE THE LEVELER ABOVE ITS RATED CAPACITY.
DO NOT EXCEED 3 MPH (4.8 KM/H) WHEN DRIVING ON THE LEVELER.
DO NOT DRIVE OVER THE EDGES OF THE LEVELER AND/OR THE PLATFORM BUMPERS (BUMPERS ARE NOT STRUCTURAL).

LEVELER LIFTING

1. The vehicle driver reverses the vehicle into position firmly against the platform stop extensions. The minidock operator ensures that the vehicle is securely locked (using a vehicle restraint system and/or a blocking wheel) to avoid



2. The operator pulls the grab handle all the way back to rotate the controller to its bottom. The platform plate is past the vertical position and the lip plate is near horizontal.

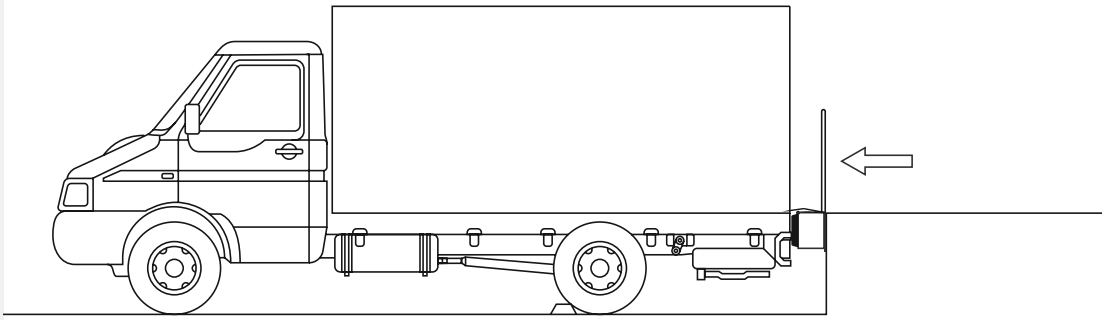


WARNING

DO NOT ATTEMPT TO OPERATE THE MINIDOCK WITHOUT USING THE GRAB HANDLE.
THE LIP PLATE SHOULD OVERLAP THE CONVEYOR VEHICLE AND LOAD CARRIER BY A MINIMUM OF 4" FULL WIDTH.

Form of operation

3. When the lip is fully extended, release the LIFT button. The leveler will automatically lower to the truck/trailer bed.

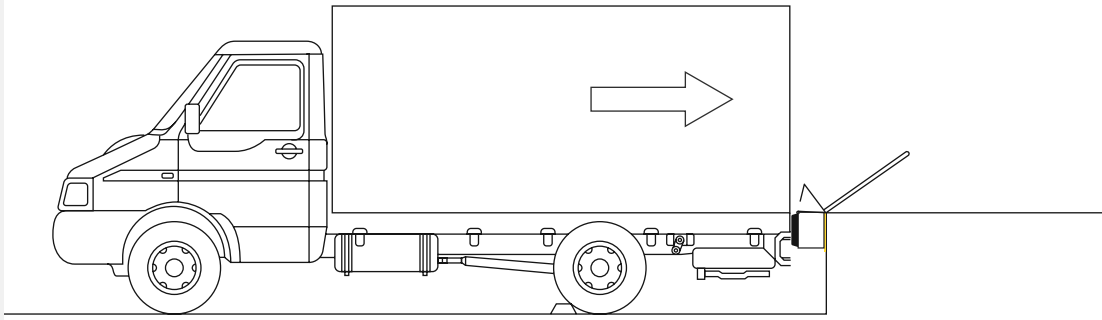


WARNING

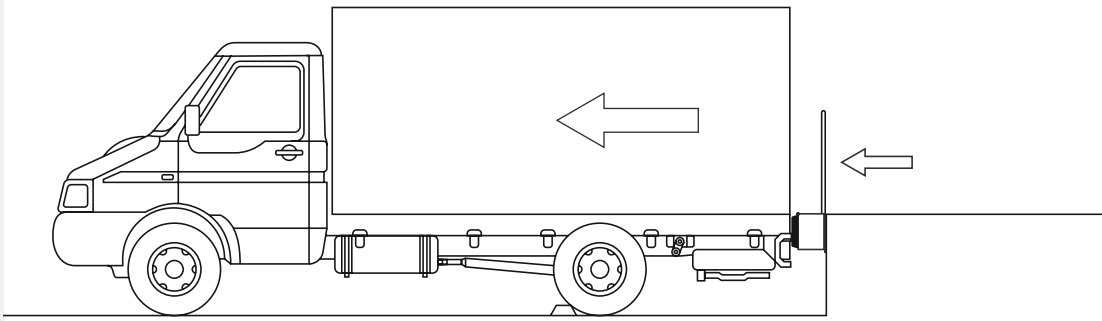
THE VEHICLE SHOULD NEVER BE ALLOWED TO LEAVE WITH THE LIP PLATE RESTING ON THE CARGO BED.

PLACE LEVELER IN THE REST POSITION

1. Upon completion of the loading/unloading process the operator should return the leveler to its stored position by lifting the platform plate, pulling back on the grab handle, just enough to release the lip from the surface of the conveyor bed. When the lip is tilted down to a hanging position, the unit is allowed to return to the stored position.



2. The grab handle is returned to the stored position. The loading vehicle can then leave the platform.



Maintenance of the equipment

DANGER

Before installation/maintenance/adjustment, place suitable barriers to prevent unauthorized personnel and vehicle traffic from entering the work area.

DANGER

Before carrying out any adjustment work, place the maintenance baton in position.

WARNING

All repairs and maintenance work must be performed only by trained and authorized personnel.

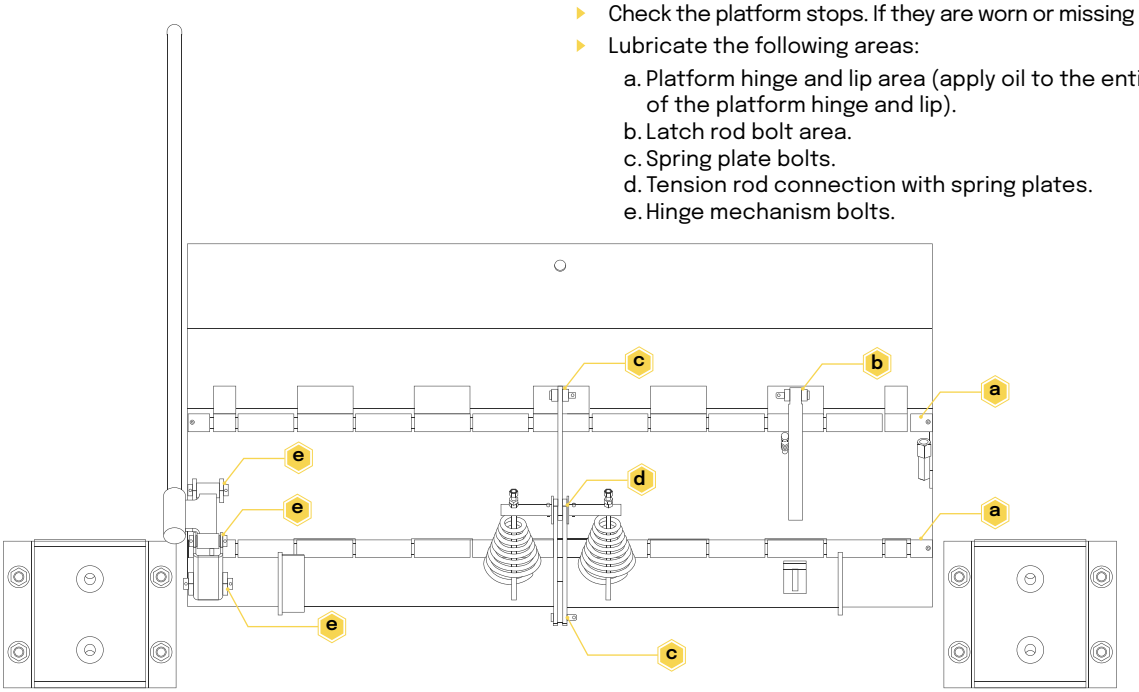
PREVENTIVE MAINTENANCE

Every 10 days of operation check the following points:

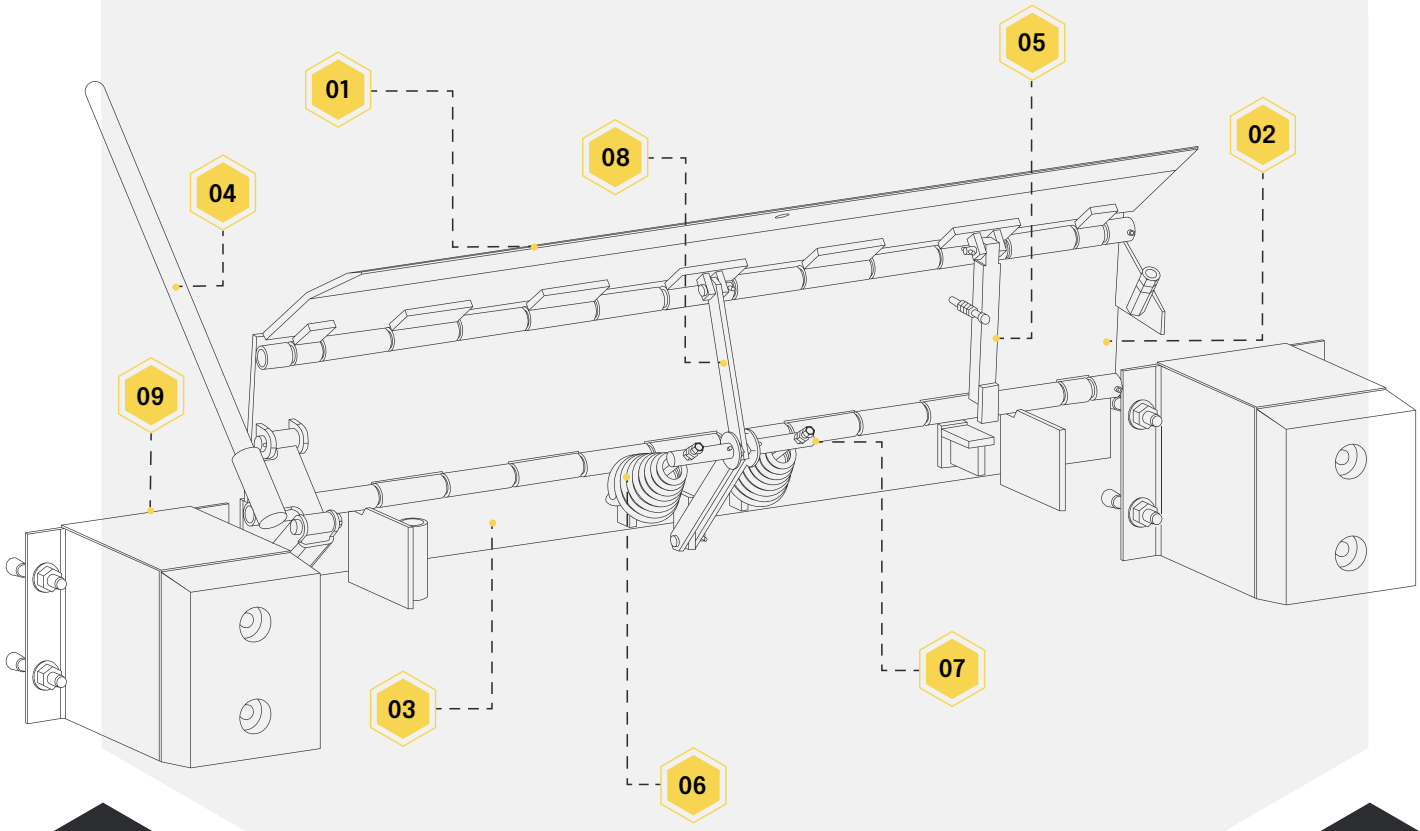
- Check for debris on the lip hinge. Clean as necessary.
- Check for debris in the rear hinge area of the minidock to ensure proper operation. Clean as necessary.
- Check that the bolts have their cotter pin or slotted pin in place. Do not operate the minidock if any of the bolts are not secured. Replace them if necessary.
- Check that the walk stops are present.

Every three months or every 250 hours of operation:

- Check all minidock for proper operation.
- Inspect the following items for damage/abnormal w
  - Check welding for flaws or fatigue. Pay special attention to hinges, clevises and the minidock back plate attached to the platform.
  - Lip and platform hinge bolts.
  - Inspect spring plates and hinged cane base for bending or bumping.
  - Inspect the latch bar for bent or banged out.
- Check all warning labels and signs. Replace as necessary.
- Check the platform stops. If they are worn or missing replace them.
- Lubricate the following areas:
  a. Platform hinge and lip area (apply oil to the entire length of the platform hinge and lip).
  b. Latch rod bolt area.
  c. Spring plate bolts.
  d. Tension rod connection with spring plates.
  e. Hinge mechanism bolts.



Inventory of parts



NO.	DESCRIPTION
01-	Lip
02-	Platform plate
03-	Rear plate
04-	Grab Handle
05-	Locking Bar
06-	Tension Spring for Minidock
07-	Tension Bar
08-	Spring Plate
09-	Minidock Platform Stop

› VEHICLE RESTRAINT

WE ARE MANUFACTURERS ›

EXPLORE OUR EXPERTISE IN:

TecnoRampa®

PARTS

ATTENTION

SERVICE

TecnoRampa

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