

# INSTRUCTION MANUAL LOW HEADROOM RMLH PUSH TROLLEY / RMLHC HAND-GEARED TROLLEY RMLH / RMLHC

English

STD-R-KHA-F-CQD-ENG



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## FOREWORD

This manual has been prepared to acquaint you of the procedures necessary for the installation, operation, and maintenance of the equipment you have purchased.

Proper installation is important to the ultimate performance of this equipment. Careful study of and adherence to the instructions will help ensure safe, dependable operation. It is also recommended that you keep this manual readily accessible to operators as well as maintenance and safety personnel.

Information in this manual is subject to change without notice.

### Warranty

All sales are subject to the [R&M Materials Handling, Inc.](#) Standard Terms and Conditions of Sale (Revision 101707), a copy of which is available at [www.rmhoist.com](http://www.rmhoist.com) or upon request from [R&M Materials Handling, Inc.](#) customer service/sales representatives and the terms of which are incorporated as if fully rewritten herein.

### Claims for Damage in Shipment

All shipments are carefully inspected and are delivered to the carrier in good order. Upon receipt of shipment caution should be exercised so that there is no loss or damage. If damage has occurred, refuse to accept the shipment until the carrier makes the proper notation to that effect.

In the event of concealed loss or damage, notify the carrier immediately. By following these suggestions you will encounter less difficulty collecting your claim.



**CAUTION:** Read the instructions supplied with the product before installation and commissioning.



**CAUTION:** Keep the instructions in a safe place for future reference.

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# 1 INSTALLATION

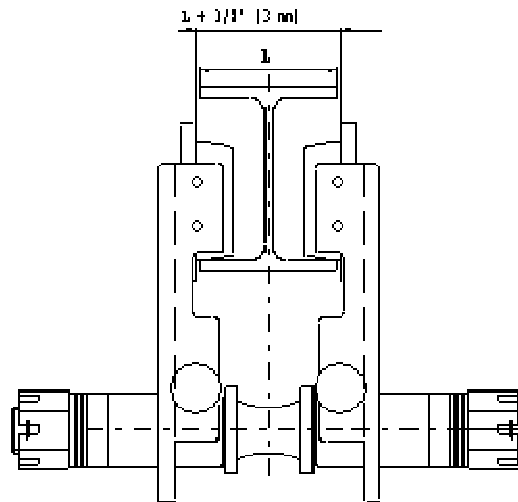
Check that:

- The beam is adequate for the loads to be supported.
- The beam flange dimensions correspond to the trolley to be installed.
- The wheels will be able to travel freely along the rail.
- All nuts are properly tightened and include the cotter pin.
- The trolley wheels have adequate clearance along the entire length of rail.
- The end stops are in place before operating.

## 1.1 Trolley Adjustment

Trolley models have a single flange width range. The trolley is adjustable only for that individual flange width range. Table 1 on the following page indicates the beam flange range for each trolley model.

Figure 1. Trolley Adjustment



### Trolley assembly procedure

1. Place the equal number of spacers of the same length on the cross shaft in between the side plates to achieve approximately 1/8" [3 mm] of total wheel clearance between the rail and wheel flanges.
2. Place and distribute equally the spare spacers on the exterior side of both side plates.
3. Hand-tighten the nuts to hold the trolley side plates together.
4. Gently pull the trolley downward to take up any play and even out the cross shaft holes.
5. Make sure the load point on the cross shaft is centered with the center of the rail.
6. Tighten each cross shaft nut until tight, aligning the slots in the nut with the hole in the shaft.
7. Insert the cotter pins through each nut. Spread the cotter pin end open.

Table 1. Trolley Specifications

Models	Beam Flange Range inch [mm]	Maximum Capacity lbs. [kg]
RMLH-500 RMLHC-500	1.96 –8.0 [50 – 203]	1100 [500]
RMLH-1000 RMLHC-1000	2.52 – 12.0 [64 – 305]	2200 [1000]
RMLH-2000 RMLHC-2000	3.46 – 12.0 [88 – 305]	4400 [2000]
RMLH-5000 RMLHC-5000	4.49 – 12.0 [114 – 305]	11000 [5000]

## 2 MAINTENANCE

### 2.1 Maintenance Table

Table 2. Maintenance Schedule

Check	Interval	Qualification of personnel
For loose screws and signs of corrosion	Annually	Qualified mechanic
Condition of the drive pinion	Annually	Operator
Measurement of the wheel tread diameter	Annually	Operator
Lubrication of open gear	monthly	Operator

### 2.2 Lubrication

Table 3. Lubrication Specifications and Brands

Lubrication point	Specifications	Possible brands	Quantity
wheel drive pinion	KP 0 K grease (DIN 51502) Soap-based lithium + MoS 2 Approx. melting point + 356 °F Worked penetration 671 - 725 °F Operating temperature	Tribol: Molub Alloy multi-purpose grease BP: Multi-purpose grease L 21 M Mobil: Mobilgrease Special Shell: Shell Retimax AM Texaco: Molytex grease EP 2	As necessary

### 3 RMLH PUSH TROLLEY & RMLHC HAND-GEARED TROLLEY

#### 3.1 Description of the RMLH Push Trolley and the RMLHC Hand-geared Trolley

RMLH and RMLHC trolley models have a single beam flange width to cover a wide range of beam flange widths.

The trolley wheels are single flange and crown tread type suitable for Wide Flange beams or tapered flange beams.

Wheel bearings are permanently lubricated and do not require greasing.

Trolleys have safety drop lugs and rubber bumpers are standard.

Capacity range of the RMLH Push trolley models is ½ ton [500 kg] to 5 ton [5000 kg].

Capacity range of the RMLHC Hand-geared trolley models is ½ ton [500 kg] to 5 ton [5000 kg].

Table 4. RMLH and RMLHC Trolley Specifications

Models	Beam Flange Width Range inch [mm]	Maximum Capacity lbs. [kg]	Min. radius Curve		Weight lbs. [kg]
			ft [m]		
RMLH-500 RMLHC-500	1.96 – 8.0 [50 – 203]	1100 [500]	3.28 [1]		46.2 [21.0]
RMLH-1000 RMLHC-1000	2.52 – 12.0 [64 – 305]	2200 [1000]	3.28 [1]		64.5 [29.3]
RMLH-2000 RMLHC-2000	3.46 – 12.0 [88 – 305]	4400 [2000]	4.92 [1.5]		113.3 [51.5]
RMLH-5000 RMLHC-5000	4.49 – 12.0 [114 – 305]	11000 [5000]	6.56 [2]		210.1 [95.5]

### 4 HANDLING & STORAGE

(Also see 'Do's and Don'ts')

Do not allow the equipment to fall.

Do not stack these items of equipment on top of each other.

Handle the equipment by its structure or in its original packaging.

### 5 DO'S AND DON'TS

#### 5.1 DO'S:

##### 5.1.1 General

Read the manual carefully and always follow its recommendations. Only use "original parts" when repairing or maintenance. Keep this instruction manual near the equipment and readily available to the operator and the maintenance mechanic at all times.

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### 5.1.2 Handling / Storage

- Handle the equipment by its structure either using the fittings provided for this purpose or in its original packaging.
- Store the equipment in a non-aggressive environment away from sources of dust or dampness etc.
- Regularly clean and protect from corrosion (oiling etc.).

### 5.1.3 Installation / Maintenance / Servicing

- Have the equipment installed by mechanically competent and trained personnel.
- Ensure that safety regulations are complied with (safety harness, evacuation of work areas, warning signs, etc.).
- Verify the strength of the structure to which the equipment is to be attached.
- Carefully follow the installation instructions provided in the equipment's instruction manual.
- Ensure correct trolley wheel spacing relative to the rail being used.
- Carry out regular maintenance of the equipment in accordance with the instruction manual.
- Establish an inspection program and record details of all maintenance work carried out, particularly with regard to the end stops, the suspension crosspiece, etc.
- Replace any worn or suspect parts.
- Verify that all safety items are in good working order (end stop, etc.) in accordance with the instruction manual.
- Regularly check the equipment.
- If any distortion or abnormal wear is observed, the parts concerned must be replaced.
- Periodically check tightness of bolts and locking cotter pins.

### 5.1.4 During Use

- Before any maneuver, ensure that the load is adequately secured.
- Balance the load correctly before moving it.
- Do not side pull the load.
- Be aware of the safety rules to be observed during the various maneuvers.
- Operate the equipment in normal conditions of use (ambient temperature, atmosphere,).
- Equipment used outside should be adequately protected against the weather.
- Inform a competent person following any dangerous or doubtful operation of the equipment (strange noise, abnormal behavior, etc.).

## 5.2 DON'TS:

### 5.2.1 Handling / Storage

Do not put the equipment on anything without suitable support otherwise parts on the underside may become damaged.

### 5.2.2 Installation / Maintenance / Servicing

- Never modify the equipment.
- Never overload the equipment.

### 5.2.3 During Use

- Never attempt to move a load greater than the capacity indicated on the equipment.
- Remember that accidental impacts or snagging of the load being handled with surrounding objects may provoke an overload.
- Never side pull the load.
- Do not use the equipment for extracting or un-jamming purposes or for lateral pulling etc.
- Never use the equipment to transport people.
- Keep hands away from moving parts.
- Never use the equipment if it is in bad condition (worn, bent, etc.).
- Do not use spare parts of unknown or doubtful origin.
- Do not provoke violent impacts or shock loads with the equipment.
- Do not constantly use the end stops as a means of stopping.
- Never use the equipment as a ground for welding.
- Do not use the equipment for a purpose or in a situation for which it is not designed.
- Do not expose the equipment to an aggressive environment (temperature, acidity, etc).
- Do not operate jerkily as this provokes deterioration of the equipment.
- Never pull loads sideways; center the equipment above the load before lifting it.



**Note: Check that the equipment corresponds to the details on the delivery note attached to the packaging.**



## 6 PART NUMBERS

Part numbers listed are for complete trolleys.

### 6.1 RMLH Push Trolley

Table 5. *RMLH Push Trolley Part Numbers*

Model	Maximum Capacity lbs. [kg]	Beam Flange Width Range in [mm]	Part Number
RMLH-500	1100 [500]	1.96 – 8.0 [50 – 203]	52426366
RMLH-1000	2200 [1000]	2.52 – 12.0 [64 – 305]	52426367
RMLH-2000	4400 [2000]	3.46 – 7.88 [88 – 200]	52426368
RMLH-5000	11000 [5000]	4.5 – 7.95 [114 – 202]	52426369

### 6.2 RMLHC Hand-Geared Trolley

Table 6. *RMLHC Hand-Geared Trolley Part Numbers*

Model	Maximum Capacity lbs. [kg]	Beam Flange Width Range in [mm]	Part Number
RMLHC-500	1100 [500]	1.96 – 8.0 [50 – 203]	52392718
RMLHC-1000	2200 [1000]	2.52 – 12.0 [64 – 305]	52392719
RMLHC-2000	4400 [2000]	3.46 – 7.88 [88 – 200]	52392720
RMLHC-5000	11000 [5000]	4.5 – 7.95 [114 – 202]	52392721



**Note:** Part number of the hand chain for **RMLHC** Hand-geared trolley is 52292623. Trolley is furnished with hand chain, and the chain drop, unless otherwise specified, is for a hoist with 10 ft [3 m] of lift.