



## RPT PUSH TROLLEY

## RPTC HAND-GEARED TROLLEY



## INSTRUCTION MANUAL



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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.

### Standard Guarantee and Warranty

[R&M Materials Handling, Inc.](#), hereinafter called the Company, will repair or replace, at its option, equipment or parts with defects in material and/or workmanship identified within one year of shipment from [R&M](#) for manual chain hoists, manual lever pullers, trolleys and beam clamps. Should a problem develop, contact the factory or authorized repair center for written authorization to inspect, repair, or replace.

The Warranty Administrator will provide a written Return Goods Authorization (RGA) for return of the equipment. All equipment shall be returned freight prepaid to the factory or authorized repair center; the RGA number should be clearly indicated. If the problem is covered under warranty, the equipment will be repaired or replaced and returned freight prepaid. If inspection reveals that the problem is not warranty related, the purchaser will be provided a quotation for repairs. If no purchase order is provided for repairs, the equipment will be returned freight collect. The purchaser is responsible for removal and installation. In event that replacement parts are issued for warranty related field repairs, parts will be invoiced at net value; original parts must be returned (freight collect) for failure evaluation. If evaluation reveals a warranty situation, a credit will be issued against the replacement parts invoice.

This warranty does not cover failure due to normal operating wear and tear. All products shall be regularly maintained and operated in accordance to the equipment's Installation, Operation and Instruction manual. The original warranty period is not renewed or extended by repair work or parts supplied after the original ship date.

This warranty does not cover damage due to abuse from side pulling of load, excessive jogging, eccentric loading, chemical exposure not specified in order, damage resulting from an accident, or damage resulting from improper storage or handling prior to placing the equipment in service. Failure of equipment to meet published performance specifications due to abnormal operating conditions beyond [R&M's](#) knowledge or control shall not be considered defective workmanship and/or material unless [R&M's](#) examination discloses such a defect. Correction of such defects shall constitute fulfillment of this warranty.

This warranty is void if parts or materials used in the repair or maintenance of [R&M's](#) equipment are not supplied or approved by [R&M](#). Any modification or change made by the Purchaser without [R&M's](#) written approval will void the warranty.

### 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.

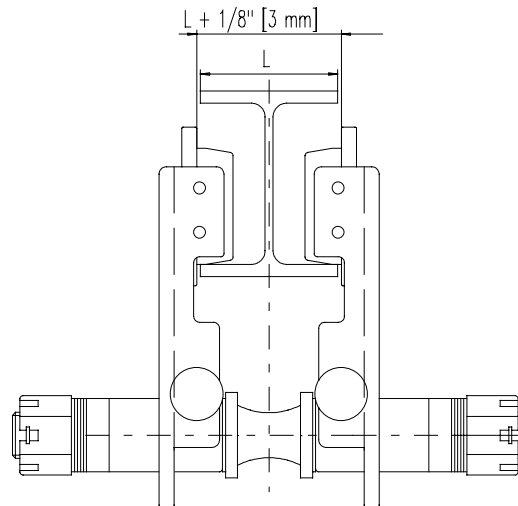
## 1 Installation

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

Most trolley models have two flange width ranges. In these cases, the trolley has two cross shaft lengths, one for each range. Depending on the cross shaft supplied, the trolley is adjustable only for that individual flange width range. The table below indicates the beam flange ranges for each trolley model.



#### 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.

Models	Beam Flange Range inch [mm]	Cross Shaft Length inch [mm]	Maximum Capacity lbs. [kg]
RPT-250	2 – 7.88 [50 – 200]	11 [278]	550 [250]
RPT-500	2 – 7.88 [50 – 200]	12 [303]	1100 [500]
	7.40 – 12.2 [188 – 310]	16.2 [411]	
RPT-1000	2.56 – 7.88 [65 – 200]	12.7 [322]	2200 [1000]
RPTC-1000	7.88 – 12.2 [200 – 310]	17 [430]	
RPT-2000	3.46 – 7.88 [88 – 200]	13.4 [340]	4400 [2000]
RPTC-2000	7.40 – 12.2 [188 – 310]	17.7 [448]	
RPT-3000	3.93 – 7.95 [100 – 202]	14.3 [362]	6600 [3000]
RPTC-3000	7.40 – 12.20 [188 – 310]	18.5 [470]	
RPT-5000	4.5 – 7.95 [114 – 202]	15.1 [384]	11000 [5000]
RPTC-5000	7.40 – 12.20 [188 – 310]	19.3 [490]	



## 2 Maintenance

### 2.1 Maintenance Table

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

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 RPT Push Trolley & RPTC Hand-gearred Trolley

### 3.1 Description of the RPT Push Trolley and the RPTC Hand-gearred Trolley

The cross shaft of the RPT push trolley and the RPTC hand-gearred trolley is suited for the top hook of manual chain hoists or manual lever pullers. In addition, the LM1, LM05 or LM10 electric chain hoists can be adapted to the RPT push trolley, either with a top hook or a lug. The top hook, equipped with a safety latch, simply hooks over the cross shaft. The shaft is specially shaped to keep the top hook or the lug centered in place.

Most RPT and RPTC trolley models have two beam flange width ranges to cover a wide range of beam flange widths. In these cases, the trolley has two cross shaft lengths, one for each range.

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 RPT Push trolley models is ¼ ton [250 kg] to 5 ton [5000 kg].

Capacity range of the RPTC Hand-gearred trolley models is 1 ton [1000 kg] to 5 ton [5000 kg].

Models	Beam Flange Width Range inch [mm]	Maximum Capacity lbs. [kg]	Min. radius Curve	
			ft [m]	lbs. [kg]
RPT-250	2 – 7.88 [50 – 200]	550 [250]	3.28 [1]	7.75 [3.5]
RPT-500	2 – 7.88 [50 – 200]	1100 [500]	3.28 [1]	7 [3]
	7.40 – 12.2 [188 – 310]			9 [4]
RPT-1000	2.56 – 7.88 [65 – 200]	2200 [1000]	3.28 [1]	27 [12]
RPTC-1000	7.88 – 12.2 [200 – 310]			33 [15]
RPT-2000	3.46 – 7.88 [88 – 200]	4400 [2000]	4.92 [1.5]	35 [16]
RPTC-2000	7.40 – 12.2 [188 – 310]			42 [19]
RPT-3000	3.93 – 7.95 [100 – 202]	6600 [3000]	6.56 [2]	84 [38]
RPTC-3000	7.40 – 12.20 [188 – 310]			88 [40]
RPT-5000	4.5 – 7.95 [114 – 202]	11000 [5000]	6.56 [2]	130 [59]
RPTC-5000	7.40 – 12.20 [188 – 310]			134 [61]



## 4 Handling & Storage

(Also see "Dos 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 DOS AND DON'TS

### 5.1 DOS:

#### 5.1.1 GENERAL

Read the instruction manual carefully and always follow its recommendations. Only use "original parts" during repair or maintenance. Keep this instruction and operating manual near the equipment and accessible to the operator and maintenance mechanic at all times.

#### 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 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 unjamming 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.

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 RPT Push Trolley

Model	Maximum Capacity lbs. [kg]	Beam Flange Width Range in [mm]	Part Number
RPT-250	550 [250]	2 – 7.88 [50 – 200]	52291758
RPT-500	1100 [500]	2 – 7.88 [50 – 200]	52291759
		7.40 – 12.2 [188 – 310]	52291760
RPT-1000	2200 [1000]	2.56 – 7.88 [65 – 200]	52291761
		7.88 – 12.2 [200 – 310]	52291762
RPT-2000	4400 [2000]	3.46 – 7.88 [88 – 200]	52291763
		7.40 – 12.2 [188 – 310]	52291764
RPT-3000	6600 [3000]	3.93 – 7.95 [100 – 202]	52296722
		7.40 – 12.20 [188 – 310]	52296723
RPT-5000	11000 [5000]	4.5 – 7.95 [114 – 202]	52296724
		7.40 – 12.20 [188 – 310]	52296725

### 6.2 RPTC Hand-gearred Trolley

Model	Maximum Capacity lbs. [kg]	Beam Flange Width Range in [mm]	Part Number
RPTC-1000	2200 [1000]	2.56 – 7.88 [65 – 200]	52296613
		7.88 – 12.2 [200 – 310]	52296614
RPTC-2000	4400 [2000]	3.46 – 7.88 [88 – 200]	52296615
		7.40 – 12.2 [188 – 310]	52296617
RPTC-3000	6600 [3000]	3.93 – 7.95 [100 – 202]	52296618
		7.40 – 12.20 [188 – 310]	52296619
RPTC-5000	11000 [5000]	4.5 – 7.95 [114 – 202]	52296620
		7.40 – 12.20 [188 – 310]	52296621

Part number of the hand chain for RPTC Hand-gearred trolley is 52292623. Hand chain is ordered separately from the trolley. Always specify the chain drop when ordering the hand chain.