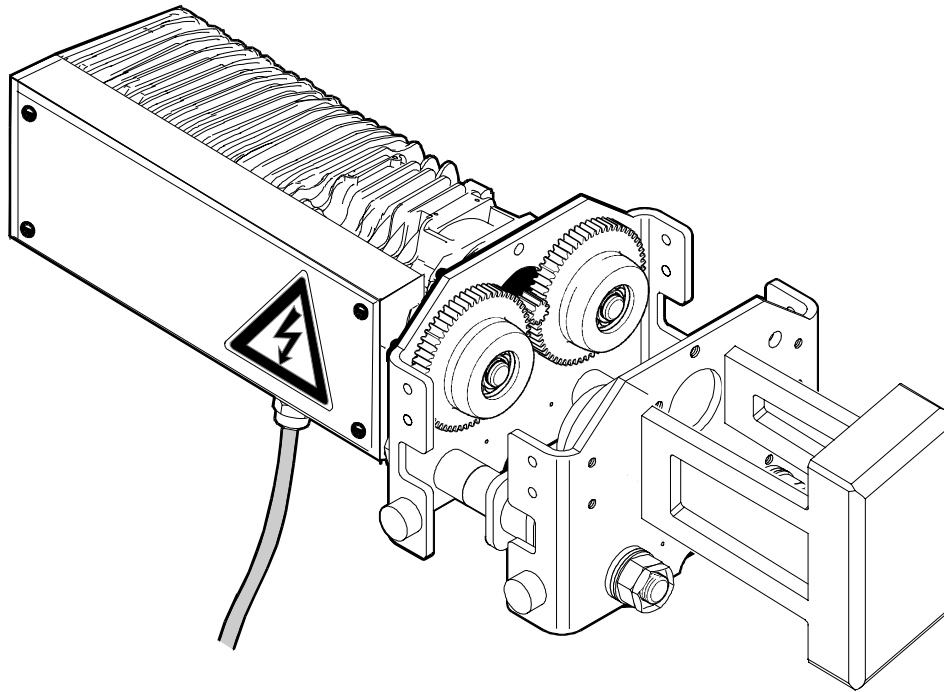




TDU MOTORIZED TROLLEY



INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

Serial Number: _____

(RECORD TROLLEY SERIAL NUMBER FOR FUTURE REFERENCE)



R&M Materials Handling, Inc
Springfield, Ohio USA
☎: 800 955-9967
web: www.rmhoist.com

LoadMate Chain Hoist
TDU Instruction Manual
Revision 2

Before proceeding with the installation, operation or maintenance of the trolley it is important that the installation, operating, and maintenance personnel read this bulletin carefully in order to ensure the safe and efficient use of the trolley.

Also, it is strongly recommended that the personnel responsible for the operation, inspection, and servicing of this trolley, read and follow the Safety Standard ANSI B30.16-1993 (or current revised edition). This standard covers Overhead Trolleys (under-hung) as promulgated by the American National Standards Institute and is published by the American Society of Mechanical Engineers. Copies of this publication are available from the Society at United Engineering Center, 345 East 47th St., New York, NY 10017.

If any instructions are unclear, contact the manufacturer or distributor of the trolley before attempting to install or use the trolley.

R&M Materials Handling, Inc
4501 Gateway Boulevard
Springfield, OH 45502
Tel. 937-328-5100
Fax 937-325-5319

Visit our website: www.rmhoist.com



FOREWORD

This manual has been prepared to acquaint you of the procedures necessary for the installation, operation, and maintenance of the hoist 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 two years from shipment from R&M for electric chain hoists. 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.

How to Order Repair Parts Correctly

The Parts Catalog section of this manual covers replacement parts required for your R&M Materials Handling, Inc. hoist. To ensure prompt service, each repair parts order must contain the following information:

1. Hoist serial number (affixed to hoist)
2. Capacity
3. Reference number from spare parts identification sheet
4. Quantity
5. Description
6. Voltage, phase, cycles
7. Correct shipping destination.



The Serial Number of your hoist will be found on the nameplate affixed to the hoist. Without this serial number we cannot be sure of sending you correct parts, so always mention the serial number for parts, service, etc.

All verbal orders must be immediately followed up with a written confirmation since the company cannot assume responsibility for the correctness of the verbal message.

R&M Materials Handling, Inc. spare parts are available locally in major industrial areas. Contact our Customer Service Department should you desire the name and address of the Authorized Stocking Parts Distributor for your area.

Minimum Charges

All orders for repair parts are subject to a minimum charge.

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.



GENERAL	6
Installation of Trolley.....	6
Coupling Suspension	7
Hook Suspension	7
Trolley Power Connection.....	7
TECHNICAL CHARACTERISTICS	8
Environmental data.....	8
Dimensions and Weights.....	8
TDU Trolley Flange Settings.....	9
MOTOR AND BRAKE	10
Motor.....	10
Brake	10
Description of Brake	11
Brake Spring.....	11
Adjustment of the Air Gap.....	11
Motor Brushes.....	12
Gear Reducer	12
TDU Printed Circuit Board	13
Voltage transformer card.....	13
Control Panel	14
Operating Tests	15
Wiring Diagram	15
Wiring Diagram - Electrical Connection with LM 5 hoist	16
Wiring Diagram - Electrical Connection with LM 10/16/20/25 hoist	16
PREVENTATIVE MAINTENANCE.....	17
Maintenance table	17
Lubricants.....	17
Spare Part Replacement Table	17
TROUBLE SHOOTING	18
SPARE PARTS	20
TDU Trolley.....	20
Gearmotor Assembly	22