



R&M LoadMate[®]

Electric Chain Hoists & Manual Products

Reliable long-term performance



R&M LoadMate® electric chain hoists

LoadMate hoists are designed to maximize productivity with fast installation, easy operation and built-in durability. The compact design provides low headroom and allows close trolley approaches. R&M's advanced design and manufacturing techniques ensure safe operation, consistent quality and longer component life. It adds up to exceptional value — hoist equipment that saves on maintenance, repair and downtime costs over its lifetime.

Flexibility to meet your exact requirements

R&M LoadMate electric chain hoists offer a range of choices for a wide variety of applications.

- 1/8 to 5 ton capacities (125 -5000 kg).
- Choice of 3 standard mounting configurations (custom mounting configurations also available).
- 10,15 and 20 ft. lifts standard; additional lifting heights available up to 150 ft. single fall, 75 ft. double fall.
- Lift speeds from 8 to 32 FPM single-speed, 12/3 to 32/8 FPM two-speed, 0.25 to 5.6 HP hoist motors.
- 1 or 2-speed hoist motors available for LM05 and LM10 models; 2-speed hoist motors standard on LM1, LM16, LM20 & LM25 (2-speed motor ratio 4:1).
- Two-speed TMU trolley drive unit (two-speed trolley motor speed ratio is 4:1). Trolley brake and bumpers are standard. Variable frequency drive units are optional.
- Trolley control panel integrally mounted to the motor.
- Motors are class F insulated, 40% effective duty rated.
- Single-speed hoists are reconnectable for 208, 230 or 460/3/60.
- Two-speed hoists available for 208, 230, 460, 575/3/60 or 380/3/50 power supply.
- 115 volt single phase hoist models, available soon.

EASE OF OPERATION **Innovative design enhances versatility and ease of use.**

- **Premium-grade precision gearing** contributes to the hoist's compact, low-headroom design, low noise level and smooth operation.

- **Integral hoist control panel** encloses all electrical components (hoist contactors, transformer, terminal strips, etc.) and is easily accessed for maintenance.
- **Easy trolley mounting attachment** meets various application requirements. Slot in top of hoist body allows easy changeover of top hook, push trolley or motorized trolley mountings.
- **Crown tread wheels** standard on push and motorized trolleys, for use on standard I-beams and wide-flange W-beams.
- **Plug-in pendant** for quick replacement is standard.

SAFETY **Meets and exceeds industry safety standards**

All R&M hoists are statically and dynamically tested with a minimum of 125% rated load prior to shipping.

- **Electromagnetic disc brake-clutch combination** is designed for efficiency, safety, easy access and adjustment. The friction-type torque limiter is integrated with the brake (LM1, LM05, LM10) to ensure that the load is always stopped when the control button is released.
- **Upper/lower limit switches** stop the hoisting motion when the hook reaches the top or bottom limit of travel, providing safer operation and longer equipment life (optional on LM1 models).
- **Low-voltage controls** enhance operator safety. 115-volt control voltage is standard; 48-volt control is an option (standard with 380 volt).
- **Control panel and pushbutton enclosures** both meet NEMA type 3R (IP-55) protection classification.
- **Load hook** is drop-forged and heat-treated for strength and durability and is provided with a spring return safety latch.
- **Emergency stop button** and built-in main contactor are standard. (Except LM1.)
- **CSA approval** on all models.



reliable long-term performance

LONG LIFE

**Built for tough duty,
lasting performance**

Every feature of the LoadMate hoist assembly includes rugged, high-performance materials and quality engineering for longer service life and less downtime.

- **Thermal protection of hoisting motor** prevents damage due to over heating. A 2-speed hoist motor is available, offering more precise load handling and longer motor life due to less wear on the brake and contactor.
- **Hoist body** is constructed of pressure-cast aluminum for light-weight and easy handling, epoxy-painted for corrosion resistance, and ribbed for better heat dissipation.
- **5-pocket chain sprocket** (6-pocket on LM16) is heat-treated and machined to a high tolerance, providing exceptionally smooth lifting and reduced chain wear.
- **Load chain** is electro-zinc plated, heat-treated, and has a high tensile strength. Chain is also specially designed for chain hoist use.
- **Chain guide** ensures precise alignment of chain with load sprocket, reducing wear and prolonging chain life.
- **Chain container** is provided as standard.

REDUCED MAINTENANCE

**Quality keeps your hoist
on the job long past the
pay-off point.**

LoadMate hoists are designed to run cool and maximize the life of gears, brakes and motors. Longer component life means less maintenance, less downtime and lower repair costs.

- Sealed brake keeps out lubricants
- Brake adjusts independent of load limiter

Mounting Configurations



Fixed top hook



Push trolley



Motorized trolley

ADDED VERSATILITY

Variable Frequency Drive option enhances motorized trolley operation

TMU's Variable Frequency Drive offers:

- 2-step multi-speed or stepless control method
- Flexibility in speed settings
- Dynamic braking

Minimum and maximum speed settings can be defined to provide easy and precise load placement, reduced load swings and less wear on equipment.

The sealed brake is incorporated into the motor design. The dynamic braking provided by the variable frequency drive allows for smooth stops and extended brake life.



Digichain

An ergonomically designed handle control allowing the hoist to be used as an extension of the operator's arm.

- Available on LM01 and LM05 models
- 1/8 to 1/2 ton capacities
- Single fall only
- Standard E-stop button
- NEMA type 3R (IP-55) protection rating



Manual Products

RMP Premium Manual Chain Hoist



- Capacities up to 20 tons
- Rugged steel construction
- Chain sprocket is ball-race mounted
- Automatic braking
- Lower hook limit maintained by fall stop on load chain
- Overload limiting device is standard
- Spark resistant options available



Capacity	Falls	Chain Pull*	Overhaul†	Weight	Headroom
Ton [kg]	1 or 2	Lbs. [N]	Ratio	Lbs. [kg]	Inch [mm]
1/2 [500]	1	57 [255]	43	31 [14]	12.20 [320]
1 [1000]	1	51 [226]	43	33 [15]	13.78 [350]
1.5 [1500]	1	57 [255]	86	44 [20]	16.54 [450]
2 [2000]	1	51 [226]	98	86 [39]	18.90 [485]
3 [3000]	1	82 [363]	98	87 [39.5]	22.44 [535]
5 [5000]	2	71 [314]	196	139 [63]	24.21 [740]

* For one block

Reference Technical Guide for additional dimensional data

†– Ft [m] of hand chain movement required for 1ft [m] of lift
Additional capacities (6 – 20 ton) available.

RM Series II Manual Chain Hoist

- Capacities from 1/4 to 5 tons
- Chain anchor maintains lower limit
- Overload limiting device is standard §
- Chain sprocket on mounted bearings
- Weston-style braking
- Double-reduction drive train

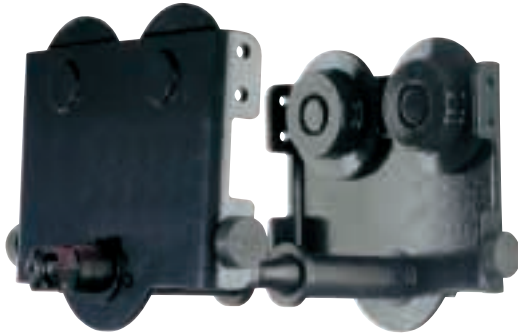
Capacity	Falls	Chain Pull	Overhaul	Weight	Headroom
Ton [kg]	1 or 2	Lbs. [N]	Ratio	Lbs. [kg]	Inch [mm]
1/4 [250]§	1	53 [235]	17	14 [6.4]	11 [280]
1/2 [500]	1	54 [240]	33	25 [11.3]	13.6 [345]
1 [1000]	1	57 [250]	53	29 [13]	14.8 [376]
1.5 [1500]	1	60 [265]	78	40 [17.8]	17.4 [442]
2 [2000]	1	76 [335]	90	45 [20.2]	18.5 [470]
3 [3000]	1	84 [372]	106	78 [35]	21.6 [548]
5 [5000]	2	81 [360]	197	91 [41.3]	27.1 [688]

§ - 1/4 ton [250 kg] model does not include overload limiting device.



Push Trolley and Beam Clamps

RPT Push Trolley



- Converts fixed top hook hoist to push travel
- Wheel treads compatible with W and I-beams
- Spark resistant options available

RPTC Hand Geared Trolley



- Wheels mounted on bearings
- Adjustable for a wide range of flange widths
- Safety drop lugs and rubber bumpers are standard

Trolley Model No.	Beam Flange Width Inch [mm]	Capacity Ton [kg]	Min. Radius Curve Ft [m]	Weight Lbs. [kg]
RPT-250	2-7.88 [50-200]	1/4 [250]	3.28 [1]	9 [4.1]
RPT-500	2-7.88 [50-200] 7.4-12.2 [188-310]	1/2 [500]	3.28 [1]	14 [6.5] 18 [8]
RPT-1000	2.56-7.88 [65-200] 7.4-12.2 [188-310]	1 [1000]	3.28 [1]	23 [10.5] 27 [12]
RPT-2000	3.46-7.88 [88-200] 7.4-12.2 [188-310]	2 [2000]	4.92 [1.5]	40 [18] 44 [20]
RPT-3000	3.93-7.95 [100-202] 7.4-12.2 [188-310]	3 [3000]	6.56 [2]	84 [38] 88 [40]
RPT-5000	4.5-7.95 [114-202] 7.4-12.2 [188-310]	5 [5000]	6.56 [2]	129 [58.5] 135 [61]
RPTC-1000	2.56-7.88 [65-200] 7.4-12.2 [188-310]	1 [1000]	3.28 [1]	31 [14] 34 [15.5]
RPTC-2000	3.46-7.88 [88-200] 7.4-12.2 [188-310]	2 [2000]	4.92 [1.5]	48 [21.5] 52 [23.5]
RPTC-3000	3.93-7.95 [100-202] 7.4-12.2 [188-310]	3 [3000]	6.56 [2]	93 [42] 97 [44]
RPTC-5000	4.5-7.95 [114-202] 7.4-12.2 [188-310]	5 [5000]	6.56 [2]	138 [62.5] 143 [65]

- Built-in suspension bar provides lower headroom
- Fast action transition screw for easy adjustment
- Versatile jaws to adjust for use on I-beams or Wide Flange beams

RBC Beam Clamp

Type	Capacity Tons [kg]	Beam Flange Width Inch [mm]	Weight Lbs. [kg]
RBC 1	1 [1000]	3 – 9 [75-230]	9 [3.9]
RBC 2	2 [2000]	3 – 9 [75-230]	11 [5]
RBC 3	3 [3000]	3 3/16 – 12 9/16 [80-320]	21 [9.5]
RBC 5	5 [5000]	3 9/16 – 12 1/8 [90-310]	25 [11.3]





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Lever Pullers

RLP Premium Manual Lever Puller

- Designed for both hoisting and pulling loads
- 360° handle rotation for operation from either side
- Upper and lower hooks rotate 360° for convenience
- Rubber handle grip for safety and comfort
- Rugged steel construction for durability
- Open chain path for simple inspection and cleaning



Capacity	Standard Lift*	Headroom	Handle Length	Normal Level Effort
Ton [kg]	Ft [m]	Inch [mm]	Inch [mm]	Lbs. [N]
3/4 [750]	5 [1.5]	12.80 [325]	11.0 [280]	31.5 [140]
1.5 [1500]	5 [1.5]	15.0 [380]	16.14 [410]	49.5 [220]
3 [3000]	5 [1.5]	18.90 [480]	16.14 [410]	72 [320]
6 [6000]	5 [1.5]	24.4 [620]	16.14 [410]	77 [340]

RL Manual Lever Puller

- Designed for both hoisting and pulling loads
- Lever directional switch allows operation from both directions
- Weston-style braking



Capacity	Standard Lift*	Headroom	Handle Length	Normal Level Effort
Ton [kg]	Ft [m]	Inch [mm]	Inch [mm]	Lbs. [N]
1/4 [250]	3 [1.0]	9.65 [245]	6.61 [168]	55 [245]
3/4 [750]	5 [1.5]	12.20 [310]	12.13 [308]	55 [245]
1.5 [1500]	5 [1.5]	15.16 [385]	16.06 [408]	66 [294]
3 [3000]	5 [1.5]	18.11 [460]	16.46 [418]	88 [392]

*Additional lifts available.

Both suspension hook and load hook are equipped with a safety latch. The shank of each is encapsulated allowing 360° rotation. Suspension hook and load hook dimensions are identical.

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