

# NERM/ERM Electric Chain Hoists with Motorized Trolleys



NERM/ERM020L-L/S  
(Shown with optional  
canvas chain container)

The MR Series of electric trolleys further expand the capabilities of our NER/ER line of electric hoists. These trolleys feature an innovative side guide roller system that results in very smooth travel along the beam.

## Features and Benefits

### UL® Listed\*\*

Certified and listed to UL 1340 “Standard for Hoists.”

### Easy Access Suspension

External pins allow for quick change from hook to lug for trolley mount configurations on most models.

### Perpendicular Orientation

MR motorized trolley mount hoists are configured as perpendicular to the beam. Parallel mount is available as an option.

### Green Initiative

Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

### Notched Hook and Latch System

Provides positive closing and improves resistance against lateral forces.

### High Air Flow

Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

### Unique Load Sheave

Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard; 6 pockets on smaller body hoists.

### Extended Chain Life

Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

### Limit Switches

Low-profile upper and lower limit switches are standard.

### Contactors

Mechanically interlocked, heavy-duty contactors on single speed models.

### Friction Clutch and Load Brake

Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

### High Strength, Corrosion and Wear Resistant Load Chain

Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

### Standard Count Hour Meter

Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

### Dual Speed VFD

Under-the-cover VFD standard for dual speed hoists and trolleys. Hoist speed ratio is 6:1 with adjustability up to 12:1. Trolley speed ratio is 6:1 with adjustability up to 10:1.

### “The Guardian”: Smart Brake Technology

A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

### Pendant Controls

Ergonomic design for operator comfort. Red button emergency stop is standard on all 4-button pendants.

## Standard Motorized Trolley Specifications

### Capacity Range

1/8 Ton – 5 Ton  
(See page 34 for 8 – 20 Ton)

### Standard Voltage

208-230/460-3-60  
Optional voltages available  
Dual speed models are not reconnectable

### Control Voltage

110V (optional 24V)

### Duty Cycle\*

Single Speed – 30 Min.  
Dual Speed – 30/10 Min. with VFD

### Classification\*

ASME H4  
ISO M5 or M4  
FEM 2m or 1Am

### Ratings

Trolley – IP55  
Pendant – IP65

### Standard Pendants

4-button (momentary contacts) with emergency on/off (maintained contacts)

### Shafts

Standard shafts fit wide flange range  
Longer shafts for wider beams  
Spacers for easy adjustments

### Drop Stops

Standard

### Bumpers

Standard

### Wheels

All steel  
Shielded ball bearings  
Fit flat or tapered beam flange

### Standard Power Supply Length

30' (longer lengths available)

### Standard Pendant Drop

Standard pendant hangs approximately 4' above the hoist's fully extended bottom hook (longer lengths available)

\*See page 79-81 for additional information.

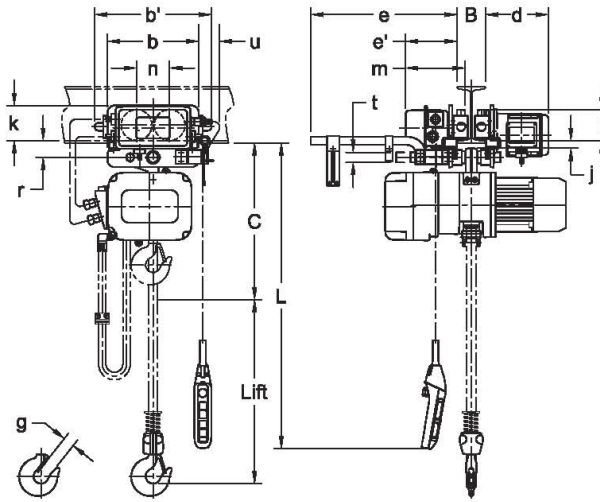
\*\*Most models shipped with UL listing. Contact Customer Service for listed models.

The 3 Ton (N)ERM030L is the previous hoist model.

HARRINGTON ELECTRIC CHAIN HOISTS



NERM/ERM020L-L/S  
(Shown with optional  
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NERM/ERM020L-L/S

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Traversing Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)	
						Output (Hp)	Rated Current (amps) @208-230V @460V		Output (Hp)	Rated Current (amps) @208-230V @460V		Standard	Optional			NER	ER		
1/8	(N)ERM001H-L/S	10	8.2	55	L = 40 S = 80	0.75	3.4	1.7	0.54	3.2	1.6	2.28 to 5.00	5.01 to 6.02 OR 6.03 to 12.00	31.5**	4.3 x 1	128	130	0.28	
1/4	(N)ERM003S-L/S			36		0.75	3.4	1.7	0.54	3.2	1.6				4.3 x 1	128	130	0.28	
1/4	(N)ERM003H-L/S			53		1.2	4.8	2.5	0.54	3.2	1.6				6.0 x 1	148	150	0.54	
1/2	(N)ERM005L-L/S			15		0.75	3.4	1.7	0.54	3.2	1.6				6.0 x 1	139	146	0.54	
1/2	(N)ERM005S-L/S			29		1.2	4.8	2.5	0.54	3.2	1.6				6.0 x 1	148	150	0.54	
1	(N)ERM010L-L/S			14		1.2	4.8	2.5	0.54	3.2	1.6				7.7 x 1	170	176	0.89	
1	(N)ERM010S-L/S			28		2.4	8.6	4.2	0.54	3.2	1.6	7.7 x 1	185	185	0.89				
1 1/2	(N)ERM015S-L/S			18		2.4	8.6	4.2	0.54	3.2	1.6	3.23 to 6.02	6.03 to 7.02 OR 7.03 to 12.00	31.5†	10.2 x 1	243	254	1.6	
2	(N)ERM020C-L/S			7		1.2	4.8	2.5	0.54	3.2	1.6				7.7 x 2	214	218	1.8	
2	(N)ERM020L-L/S			14		2.4	8.6	4.2	0.54	3.2	1.6				10.2 x 1	245	256	1.6	
2	(N)ERM020S-L/S			28		4.7	16.4	7.9	0.54	3.2	1.6				10.2 x 1	284	282	1.6	
2 1/2	(N)ERM025S-L/S			22		4.7	16.4	7.9	0.54	3.2	1.6				39.4	11.2 x 1	333	331	1.9
3	(N)ERM030L-L/S*			16		4.7	18.3	9.2	0.5	3.2	1.6					12.5 x 1	362	362	2.3
3	(N)ERM030C-L/S			17		4.7	16.4	7.9	0.54	3.2	1.6	10.2 x 2	340	340		3.2			
5	(N)ERM050L-L/S	9.2	11	4.7	16.4	7.9	1.0	5.1	2.5	3.94 to 7.01	7.02 to 7.60 OR 7.61 to 12.00	70.9	11.2 x 2	443	439	3.8			

\*The (N)ERM030L-L/S listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

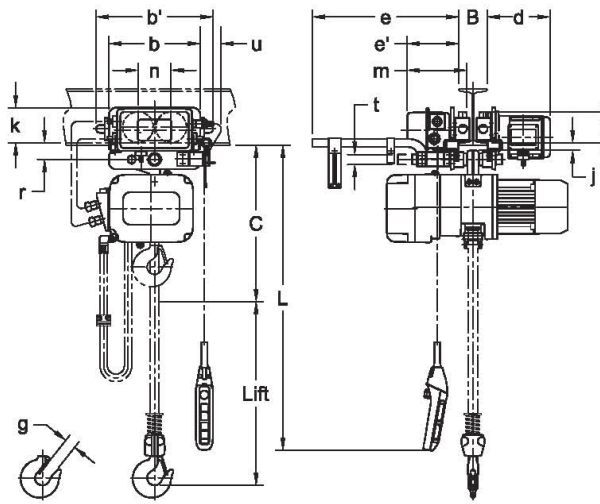
\*\*Flange widths smaller than 4 inches will have a minimum radius of 137.8 inches.

†Flange widths smaller than 5 inches will have a minimum radius of 39.4 inches.

# NERM/ERM Electric Chain Hoists with Motorized Trolleys



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NERM/ERM020L-L/S

## SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	(N)ERM001H-L/S	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003S-L/S	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003H-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005L-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005S-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010L-L/S	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010S-L/S	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1 1/2	(N)ERM015S-L/S	19.9	12.8	16.4	8.8	20.5	7.3	1.4	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020C-L/S	27.2	12.8	16.4	8.8	20.5	7.3	1.5	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020L-L/S	22.4	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020S-L/S	23.0	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2 1/2	(N)ERM025S-L/S	24.4	13.4	17.4	8.9	20.5	7.3	1.6	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
3	(N)ERM030L-L/S*	25.4	13.4	17.4	8.9	20.5	7.3	1.7	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.7
3	(N)ERM030C-L/S	32.9	13.4	17.4	8.9	20.5	7.3	1.8	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
5	(N)ERM050L-L/S	33.1	15.7	19.8	11.0	20.8	7.6	1.9	5.51	1.7	5.7	9.2	5.9	3.4	2.13	2.2

\*The (N)ERM030L-L/S listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

## MR Motorized Trolleys

### Pull-Rotor Motor Brake

Extremely durable and reliable, this advanced design furnishes precision load control, deceleration and long life.

### Heavy-Duty Motor

Designed for top performance with high-horsepower, 30-minute duty rating, cooling fins and standard thermal motor protection. Motor is totally enclosed, non-ventilated (TENV).

### Variable Frequency Drive

Dual speed controls via “under-the-cover” variable frequency drive standard.

### Sealed Protection

Appropriate for both indoor and outdoor applications, including harsh environments. (Consult owner’s manuals for details.) Gaskets throughout the trolley provide for an IP55 rating.

### Built-In Drop Stops

Important feature provides additional security for the operator and the equipment.

### Rubber Bumpers

Standard feature on all motorized trolleys. Provides protection from collisions. Complies with ASME standards.

### Side Guide Rollers

Four ball bearing supported rollers enhance smooth trolley motion and reduce wear of the wheels and beam.

### Cable Support Arm Assembly

Convenient “tow bar” is standard component that gives support and guides the power supply festooning.

### Pendant Plug-In Connections

Saves valuable time on setup and maintenance. “Quick disconnect” replaces typical competitive hard-wired designs.

