

## NER/ER Electric Chain Hoists

### Extreme Duty Motor

Increased performance through 60 minute duty rating, H4 classification, Class B insulation, cooling fins, and standard thermal motor protection. Offers higher horsepower than most competitors.

### External Motor Fan

Functions to quickly eliminate motor and brake heat. This results in improved hoist duty rating and greatly lengthens brake life. Motor is totally enclosed, fan cooled (TEFC).

### Pull-Rotor Motor Brake

Extremely durable and reliable, this advanced design contains no brake coil to fail like conventional disc brakes.

### Compact Aluminum Body

Die-cast body is lightweight and offers low headroom—one of the best in the industry. Paint is electrostatically applied.

### Durable Push-Button Pendant

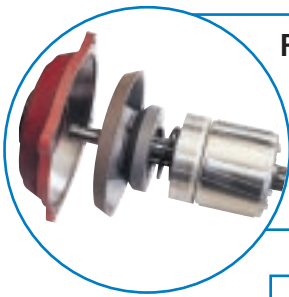
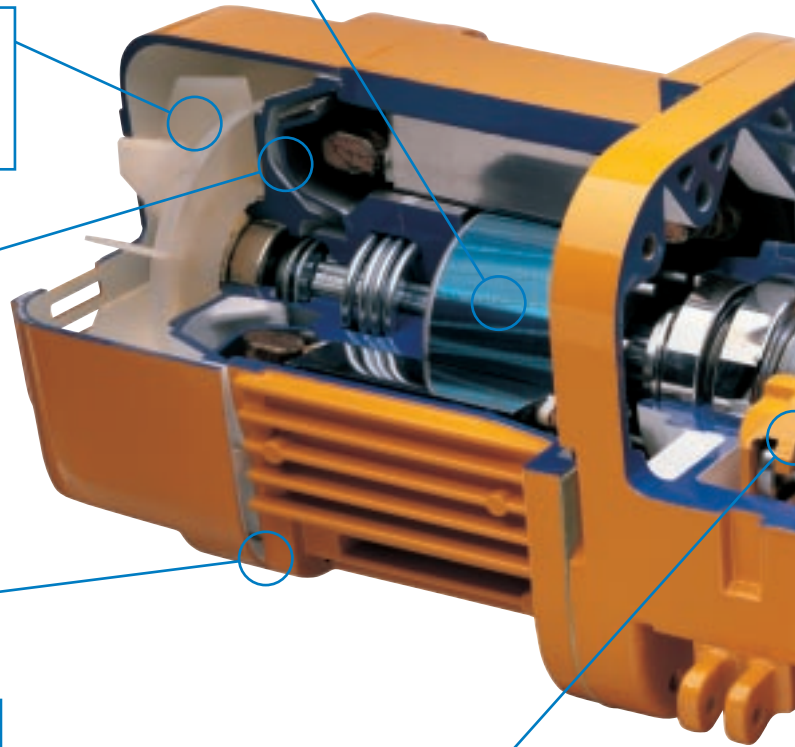
Easy to use, one-handed operation. Rated IP65. Standard control voltage is 110V. Strain relief wire is molded to pendant cord for added support and dependability.

### Forged Carbon Steel Hooks

Under excessive loads will open gradually and not fracture. Ball bearings produce smooth rotation. Bottom hook will swivel 360 degrees. Heavy-duty hook latches are standard.

### Unique Chain Guide

Provides quiet and smooth guiding of chain. Easily replaced without disassembly of hoist. Heavy cast iron construction for improved wear versus stamped steel design offered by many manufacturers.



**Load Sheave**

Deep-groove pockets fully support the load chain during operation. Reduces vibration and chain wear and provides a true vertical lift.

**Long Life Friction Clutch**

Protects hoist from damage and prevents overwinding. ER Series couples Weston-style load brake with friction clutch.

**Completely Sealed Body**

Suitable for both indoor and outdoor applications, including harsh environments. Gaskets throughout the hoist provide for an IP55 rating.

**Heat Treated Helical and Spur Gears**

Precision machined for long life. Oil bath lubrication results in a quiet, smooth, cool operation.

**Count Hour Meter**

This maintenance feature, supplied as standard on the ER Series hoists, tracks motor starts, running time and usage history by instant digital display. Meter operates independently of the hoist.

**Easy Maintenance Control Panel**

Simple layout of controls and a single swing-out panel. Hinged controller cover provides standard wiring diagram and allows fast on-site access.

**Superior Quality Chain**

Precision gauged, Grade 80, nickel-plated load chain is heat treated for wear resistance and extended life. Single fall available through 3 Ton.

**Plug-In Connections**

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



**Operating Conditions**

Recommended for -4° to +104°F and humidity of 85% or less.

## NER/ER Electric Chain Hoists With Hook and Lug Suspensions

The NER/ER Series of electric chain hoists were designed using the latest technology. The results are high quality, low-headroom, full-featured hoists that provide daily reliable performance in both routine workplace situations and severe working environments.

Refer to pages 4 and 5 for details on features and benefits.

### Standard Hoist Specifications

<p><b>Capacity Range</b> 1/8 Ton–5 Ton (See ER large capacity—pages 26–35)</p> <p><b>Reconnectable Voltage</b> 208-230/460-3-60 for both single and dual speed hoists (optional voltages available)</p> <p><b>Control Voltage</b> 110V (optional 24V and 48V)</p> <p><b>Duty Cycle*</b> Single Speed—60 Min. Dual Speed—30/10 Min.</p> <p><b>Classification*</b> ASME H4 ISO M5 or M4 FEM 2M or 1Am</p> <p><b>Ratings</b> Hoist—IP55 Pendant—IP65</p>	<p><b>Limit Switch</b> Prevents overwinding/overlifting Standard upper</p> <p><b>Chain Falls</b> Single chain fall through 3 Ton (except NER030C)</p> <p><b>Standard Lift</b> 10' (longer lifts available)</p> <p><b>Standard Pendant Drop</b> 4' less than lift (longer drops available)</p> <p><b>Standard Power Supply Cord</b> 15' (longer lengths available)</p> <p><b>Standard Pendants</b> 2-button (Up/Down) Momentary contacts</p> <p><b>Chain Containers</b> Optional Canvas, plastic or steel</p>
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\*See page 48 for additional information.

#### NER vs. ER Features

ER model has same high-quality features as NER plus the following:

- Second brake—Weston-style mechanical load brake
- Count hour meter
- Large capacity—8 Ton–20 Ton



NER/ER010L

## NER/ER Electric Chain Hoists With Hook and Lug Suspensions

### SINGLE SPEED—SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Load Chain Dia. (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps)				
						@208-230V	@460V			
1/8	(N)ER001H	10	7.2	57	0.75	4.2	2.1	5.0 x 1	68	0.37
1/4	(N)ER003S			39	0.75	4.2	2.1	5.0 x 1	68	0.37
1/4	(N)ER003H			60	1.2	5.7	2.9	6.3 x 1	84	0.57
1/2	(N)ER005L			15	0.75	4.2	2.1	6.3 x 1	70	0.57
1/2	(N)ER005S			30	1.2	5.7	2.9	6.3 x 1	84	0.57
1	(N)ER010L			16	1.2	5.7	2.9	8.0 x 1	90	0.93
1	NER010M			24	1.9	7.3	3.7	8.0 x 1	110	0.93
1	(N)ER010S			29	2.4	10.5	5.3	8.0 x 1	134	0.93
1 1/2	(N)ER015S			20	2.4	10.5	5.3	10.0 x 1	152	1.5
2	(N)ER020L			14	2.4	10.5	5.3	10.0 x 1	154	1.5
2	NER020M	24	3.8	14.9	7.5	10.0 x 1	181	1.5		
2	(N)ER020S	28	4.7	18.3	9.2	10.0 x 1	240	1.5		
2 1/2	(N)ER025S	23	4.7	18.3	9.2	11.2 x 1	247	1.9		
3	NER030C	8.2	8.2	12	3.8	14.9	7.5	10.0 x 2	216	3.1
3	(N)ER030L			16	4.7	18.3	9.2	12.5 x 1	256	2.3
3	(N)ER030S			22	6.2	25.1	12.6	12.5 x 1	269	2.3
5	(N)ER050L			12	4.7	18.3	9.2	11.2 x 2	306	4.0

### SINGLE SPEED—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)
1/8	(N)ER001H	13.8	21.1	13.0	10.4	10.7	0.9	4.0	3.9
1/4	(N)ER003S	13.8	21.1	13.0	10.4	10.7	0.9	4.0	3.9
1/4	(N)ER003H	14.6	21.9	13.8	10.8	11.1	0.9	4.7	4.1
1/2	(N)ER005L	14.0	21.1	13.0	10.4	10.7	0.9	4.0	3.9
1/2	(N)ER005S	14.6	21.9	13.8	10.8	11.1	0.9	4.7	4.1
1	(N)ER010L	16.1	21.9	13.8	10.8	11.1	1.2	4.7	4.1
1	NER010M	16.1	23.2	13.8	10.6	12.6	1.2	4.7	4.1
1	(N)ER010S	17.3	25.6	16.5	12.6	13.0	1.2	6.1	5.2
1 1/2	(N)ER015S	19.9	25.6	16.5	12.6	13.0	1.3	6.1	5.2
2	(N)ER020L	22.0	25.6	16.5	12.6	13.0	1.5	6.1	5.2
2	NER020M	22.0	26.9	16.5	12.4	14.4	1.5	6.1	5.2
2	(N)ER020S	24.0	30.9	18.9	15.5	15.5	1.5	7.2	6.5
2 1/2	(N)ER025S	24.6	30.9	18.9	15.5	15.5	1.6	7.2	6.5
3	NER030C	29.5	26.9	16.5	12.4	14.4	1.7	8.2	3.0
3	(N)ER030L	26.0	30.9	18.9	15.5	15.5	1.7	7.2	6.5
3	(N)ER030S	26.0	30.9	18.9	15.5	15.5	1.7	7.2	6.5
5	(N)ER050L	32.9	30.9	18.9	15.5	15.5	1.8	9.6	4.0



**DUAL SPEED—SPECIFICATIONS**

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Load Chain Dia. (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps)				
						@208-230V	@460V			
1/8	(N)ER001HD	10	7.2	58/19	0.6/0.2	2.9/2.4	1.5/1.2	5.0 x 1	79	0.37
1/4	(N)ER003SD			29/10	0.6/0.2	2.9/2.4	1.5/1.2	5.0 x 1	79	0.37
1/4	(N)ER003HD			60/20	1.2/0.4	5.7/5.1	2.9/2.6	6.3 x 1	101	0.57
1/2	(N)ER005LD			14/5	0.6/0.2	2.9/2.4	1.5/1.2	6.3 x 1	84	0.57
1/2	(N)ER005SD			30/10	1.2/0.4	5.7/5.1	2.9/2.6	6.3 x 1	101	0.57
1	(N)ER010LD			14/5	1.2/0.4	5.7/5.1	2.9/2.6	8.0 x 1	108	0.93
1	(N)ER010SD			29/10	2.4/0.8	9.1/5.7	4.6/2.9	8.0 x 1	152	0.93
1 1/2	(N)ER015SD			20/7	2.4/0.8	9.1/5.7	4.6/2.9	10.0 x 1	168	1.5
2	(N)ER020LD			15/5	2.4/0.8	9.1/5.7	4.6/2.9	10.0 x 1	170	1.5
2	(N)ER020SD			29/10	4.7/1.6	19.6/9.4	9.8/4.7	10.0 x 1	287	1.5
2 1/2	(N)ER025SD	23/8	4.7/1.6	19.6/9.4	9.8/4.7	11.2 x 1	293	1.9		
3	(N)ER030LD	17/6	4.7/1.6	19.6/9.4	9.8/4.7	12.5 x 1	300	2.3		
3	(N)ER030SD	23/8	6.2/2.0	24.1/10.6	12.1/5.3	12.5 x 1	320	2.3		
5	(N)ER050LD	12/4	4.7/1.6	19.6/9.4	9.8/4.7	11.2 x 2	353	4.0		

**DUAL SPEED—DIMENSIONS**

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)
1/8	(N)ER001HD	13.8	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/4	(N)ER003SD	13.8	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/4	(N)ER003HD	14.6	23.2	13.8	10.6	12.6	0.9	4.7	4.1
1/2	(N)ER005LD	14.0	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/2	(N)ER005SD	14.6	23.2	13.8	10.6	12.6	0.9	4.7	4.1
1	(N)ER010LD	16.1	23.2	13.8	10.6	12.6	1.2	4.7	4.1
1	(N)ER010SD	17.3	26.9	16.5	12.4	14.4	1.2	6.1	5.2
1 1/2	(N)ER015SD	19.9	26.9	16.5	12.4	14.4	1.3	6.1	5.2
2	(N)ER020LD	22.6	26.9	16.5	12.4	14.4	1.5	6.1	5.2
2	(N)ER020SD	27.0	32.2	18.9	15.5	16.8	1.5	7.2	6.5
2 1/2	(N)ER025SD	27.0	32.2	18.9	15.5	16.8	1.6	7.2	6.5
3	(N)ER030LD	28.5	32.2	18.9	15.5	16.8	1.7	7.2	6.5
3	(N)ER030SD	28.5	32.2	18.9	15.5	16.8	1.7	7.2	6.5
5	(N)ER050LD	35.2	32.2	18.9	15.5	16.8	1.8	9.6	4.0

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