

# EQM Electric Chain Hoists with Motorized Trolleys



EQM010SD-SD

Harrington's MRQ Series dual speed (VFD Control) motorized trolley adds powered mobility to our EQ Series three-phase dual speed (VFD Control) electric chain hoists for applications where long travel distance is needed.

## Features and Benefits

### Pull-Rotor Motor Brake

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

### External Motor Fan

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

### Precision Machined Helical Gears

Immersed in oil bath lubrication results in quiet, smooth and cool operation.

### Chain Container

Durable plastic containers are standard.

### Corrosion Resistant Load Chain

Nickel-plated, Grade 80, DIN chain for superb durability and strength.

### Forged Carbon Steel Hooks

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

### Compact Aluminum Body

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

### Completely Sealed Body

Suitable for both indoor and outdoor applications, including harsh environments. (Consult Owner's Manual for details.) Gaskets throughout the hoist provide for an IP55 rating.

### Variable Frequency Drive (VFD)

Dual speed controls via "under-the-cover" variable frequency drive for both single-phase and three-phase hoists. VFD includes count hour meter, load limiter and no-load high-speed function.

### Long Life Friction Clutch

Protects hoist from damage and prevents overwinding.

### Upper/Lower Limit Switch

Low profile upper and lower limit switches provide excellent headroom.

### Unique Chain Guide

Provides quiet and smooth guiding of chain. Heavy cast iron construction for improved wear versus stamped steel design offered by many manufacturers.

### Durable Push Button Pendant

Easy to use, one-handed operation. Rated IP65. Standard control voltage is 24V. Strain relief wire is molded to pendant cord for added support and dependability. E-Stop is standard on all pendants.

### Extreme Duty Motor

Increased performance through 30/10-minute duty rating, H4 classification, Class B insulation, cooling fins and external thermal motor protection.

### Load Sheave

Five deep-groove pockets fully support the load chain during operation. Reduces vibration and chain wear. Provides true vertical lift.

### Operating Conditions

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

## Standard Motorized Trolley Specifications

### Capacity Range

1/8 Ton – 1 Ton

### Standard Voltage

(208-230)-3-50/60  
(380-460)-3-50/60

### Control Voltage

24VDC

### Duty Cycle\*

30/10 Min.

### Classification\*

ASME H4  
ISO 1/8-1/2T M6; 1T M5  
FEM 1/8-1/2T 3m; 1T 2m

### 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)

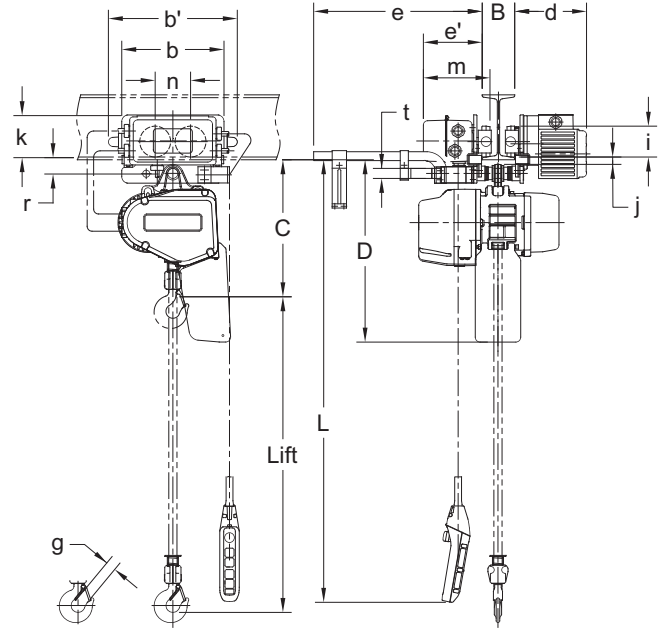
### Standard Pendant Drop

Standard pendant hangs approximately 4' above the hoist's fully extended bottom hook

\*See page 79-81 for additional information.



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**EQ 3-PHASE DUAL SPEED VFD HOIST WITH DUAL SPEED VFD TROLLEY — SPECIFICATIONS**

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed <sup>2</sup> (ft/min)			Lifting Motor <sup>1</sup> 3-Phase 50/60 Hz			Traversing Speed <sup>2</sup> (ft/min)		Traversing Motor <sup>1</sup> 3-Phase 50/60 Hz			Flange Width Adjustability B (in)		Minimum <sup>3</sup> Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)			
				High	Low	No Load High Speed	Output (Hp)	Rated Current (amps)		High	Low	Output (Hp)	Rated Current (amps)			Standard					Optional		
								@208-230V	@380-460V				@208-230V	@380-440V	@415-460V								
1/8	EQM001SD-SD	10	8.2	56	9.3	72	0.67	5.1	2.8	80	13	0.54	3.4	2.5	1.7	2.28 to 6.02	6.03 to 12.00	31.5	5.6 x 1	139			
1/4	EQM003SD-SD			33	5.5	43														141			
1/2	EQM005SD-SD			25	4.2	32														1.0	6.3	3.3	146
1	EQM010SD-SD			23	3.8	30														2.0	10.5	5.5	7.1 x 1

1) Although different voltages are shown, motors are NOT re-connectable and voltage can NOT be changed due to electrical components being voltage specific.

2) Speeds are adjustable between low and high speed.

3) Flange widths smaller than 4 inches will have a minimum radius of 137.8 inches.

**EQ 3-PHASE DUAL SPEED VFD HOIST WITH DUAL SPEED VFD TROLLEY — DIMENSIONS**

Cap. (Tons)	Product Code	Headroom C (in)	D (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)
1/8	EQM001SD-SD	16.5	20.3	15.6	12.4	8.7	20.3	7.1	1.1	3.7	1.1	5.1	8.1	4.3	2.0	1.2
1/4	EQM003SD-SD															
1/2	EQM005SD-SD															
1	EQM010SD-SD	19.3	22.2						1.2		0.9					