

EQ Electric Chain Hoists Hook or Suspension Bar Mount



EQ010SD

Harrington's EQ Series three-phase dual speed (VFD Control) electric chain hoists are ergonomically designed for easy installation and operation in medium- and heavy-duty industrial applications. These hoists have an extremely compact and lightweight body, and are perfect for any work station application. The EQ hoists include a no-load high-speed function that automatically increases hoist speed up to 130 percent when the load is less than 30 percent of working load limit.

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.

Optional Suspension Bar

For low headroom or enclosed track trolley applications. Easily changed from top hook to suspension bar.

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 Hoist 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

Conformance

UL 508, 508A, 1004
CSA C22.2 NO. 33, 14-13, 66

Ratings

Hoist – IP55
Pendant – IP65

Chain Falls

Single chain fall all capacities

Standard Lift

10' (longer lifts available)

Standard Pendant Drop

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

Standard Power Supply Length

15' (longer lengths available)

Mounting

Hook, suspension bar or trolley

Standard Pendants

2-button (momentary contacts) with emergency On/Off (maintained contacts)

Chain Containers

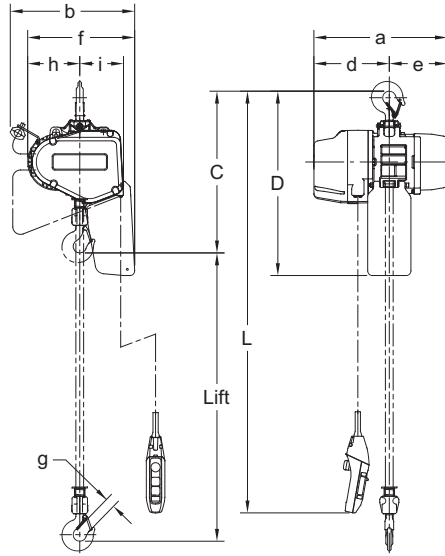
Standard plastic

*See page 79-81 for additional information.

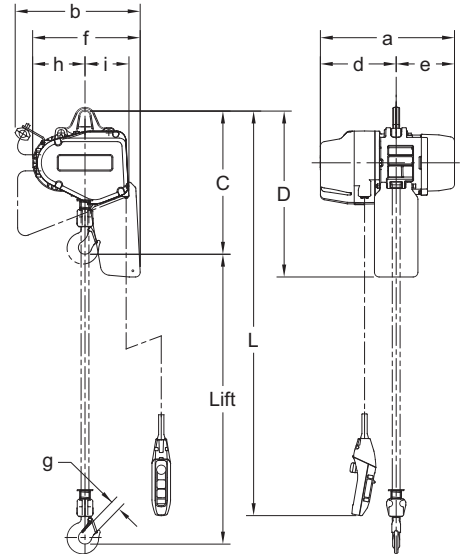
HARRINGTON ELECTRIC CHAIN HOISTS



EQ010SD
(shown with optional
Suspension Bar)



EQ010SD Hook Mount



EQ010SD Suspension Bar Mount

EQ 3-PHASE DUAL SPEED VFD HOIST — SPECIFICATIONS

Capacity (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Lifting Speed ² (ft/min)			Lifting Motor ¹ 3-Phase 50/60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
							Output (Hp)	Rated Current (amps)				
				High	Low	No Load High Speed		@208-230V	@380-460V			
1/8	EQ001SD	10	8.2	56	9.3	72	0.67	5.1	2.8	5.6 x 1	71	0.48
1/4	EQ003SD			33	5.5	43						
1/2	EQ005SD			25	4.2	32	1.0	6.3	3.3	75		
1	EQ010SD			23	3.8	30	2.0	10.5	5.5	97	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.

EQ 3-PHASE DUAL SPEED VFD HOIST — DIMENSIONS

Capacity (Tons)	Product Code	Headroom C (in)		D (in)		a (in)	b (in)	d (in)	e (in)	f (in)	g (in)	h (in)	i (in)
		Top Hook	Susp. Bar	Top Hook	Susp. Bar								
		1/8	EQ001SD	17.3	15.6								
1/4	EQ003SD												
1/2	EQ005SD	18.0	16.1										
1	EQ010SD	20.7	18.3	23.5	21.1	17.0	15.9	9.6	7.4	13.1	1.2	6.1	5.6