

**HARRINGTON**  
A KITO GROUP COMPANY



EQ | SEQ SERIES  
Dual Speed (VFD Control)

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ELECTRIC  
**CHAIN**  
HOISTS

## **Working Harder For You**

**In 1876, Edwin Harrington dramatically improved the self-sustaining hoist by introducing the worm-gear design. Since then, the company he founded has earned a proud reputation for product innovations and consistent quality that our customers count on to meet their diverse requirements.**

**Over the years we have developed and grown by recognizing the value of our customers and responding to your needs. The daily mission of our organization is to provide you, the customer, with the highest quality in our products, service and support.**

**In addition to our superior products and expanded facilities, we offer a Sales and Customer Service team that is dedicated to serving you, a well qualified Engineering Department to support your technical needs and a full support staff who all know the importance of working together to provide solutions for your material handling projects.**

**We are working harder to be the supplier-of-choice for all of your hoist and crane applications.**

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## Electric Chain Hoists

### Simple Construction

Low maintenance due to no transformer, no magnetic contactor, no brake contactor and no brake coil.



### Unique Load Sheave

Increased number of pockets reduces chain vibration and increases chain life. Five pockets standard.



### Limit Switches

Low-profile upper and lower limit switches are standard.



### Dual Speed VFD

“Under-the-cover” VFD standard. Speed ratio is 6:1.



### Optional Suspension Bar

External connecting shaft allows for quick change from hook mount to suspension bar mount.



### No-Load High-Speed

Hoist speeds 1.3 times faster when working with less than 30% of full load.



### Unique Chain Guide

Provides quiet and smooth guiding of chain. Heavy cast iron construction.



### Standard Count Hour Meter

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



### Green Initiative

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



### Perpendicular Orientation

PT push, GT geared and MRQ motorized trolley mount hoists are configured as perpendicular to the beam.



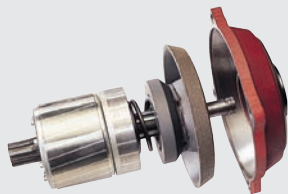
### Friction Clutch

Friction clutch is standard on EQ/SEQ models. Provides consistent performance over a wide temperature range.



### Pull-Rotor Motor Brake

Extremely durable and reliable, this advanced design contains no brake coil to fail like conventional disc brakes. **5-year hoist brake warranty.**



### Certified

Listed to UL508A.



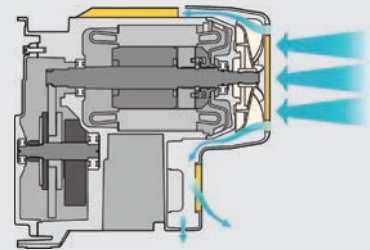
### High Strength, Corrosion and Wear Resistant Load Chain

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



### High Air Flow

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



### Pendant Controls

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



## EQ/SEQ Electric Chain Hoists

### Compact Aluminum Body

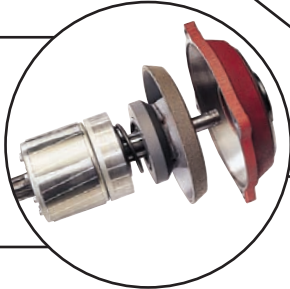
Die-cast body is lightweight and offers low headroom – one of the best in the industry. Paint is electrostatically applied.

### 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.

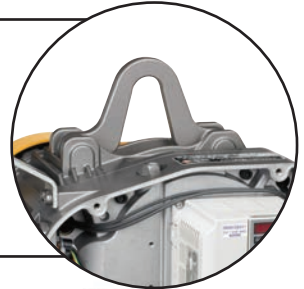
### Pull-Rotor Motor Brake

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



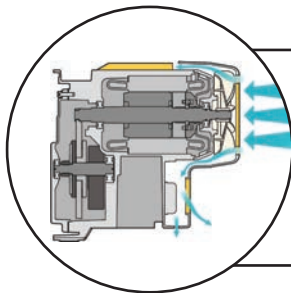
### Optional Suspension Bar

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



### 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).



### Extreme Duty Motor

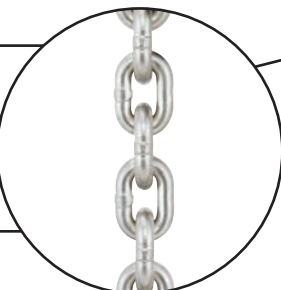
Increased performance through 30/10-minute duty rating, H4 classification, Class B insulation, cooling fins and external thermal motor protection.

### Chain Container

Durable plastic containers are standard.

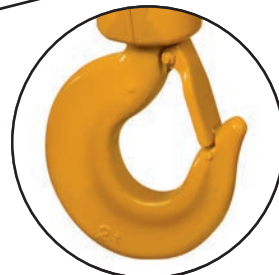
### Corrosion Resistant Load Chain

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



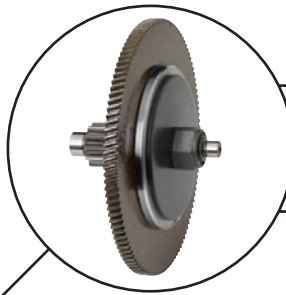
### Forged Carbon Steel Hooks

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



**Precision Machined Helical Gears**

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



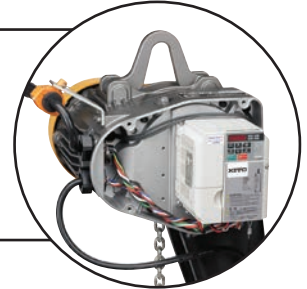
**Long Life Friction Clutch**

Protects hoist from damage and prevents overwinding.



**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.



**Load Sheave**

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

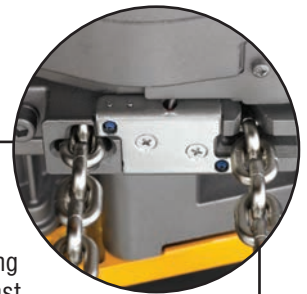


**Operating Conditions**

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

**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.



**Upper/Lower Limit Switch**

Low-profile upper and lower limit switches provide excellent headroom.



## 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

200-208/380-460-3-50/60

#### Control Voltage

24V

#### 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

4' less than lift (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

#### Operating Conditions

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

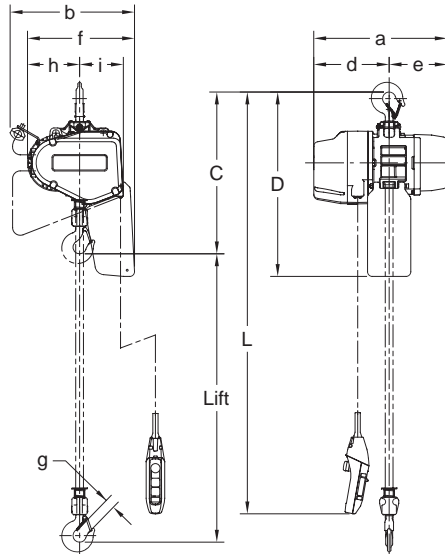
\*See page 24 for additional information.



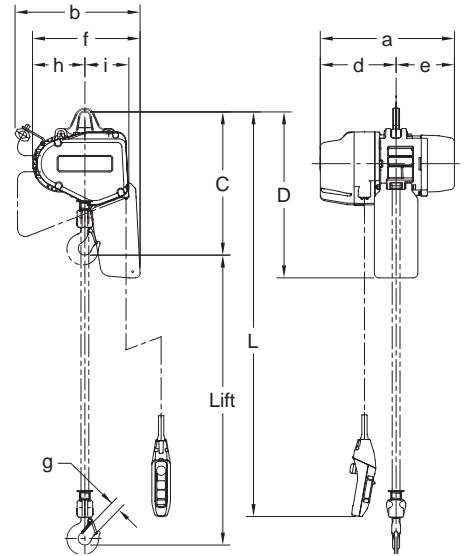
## HARRINGTON ELECTRIC CHAIN HOISTS



EQ010SD



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 Motor <sup>1</sup> 3-Phase 50/60 Hz						Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				Lifting Speed <sup>2</sup> (ft/min)			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	7.1 x 1	97	0.77
1	EQ010SD			23	3.8	30	2.0	10.5	5.5			

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	21.0	19.1	16.4	14.4	9.1	7.4	11.7	1.1	5.4	5.0
1/4	EQ003SD												
1/2	EQ005SD	18.0	16.1	23.5	21.1	17.0	15.9	9.6	7.4	13.1	1.2	6.1	5.6
1	EQ010SD	20.7	18.3										

# 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

200-208/380-460-3-50/60

### Control Voltage

24V

### 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)

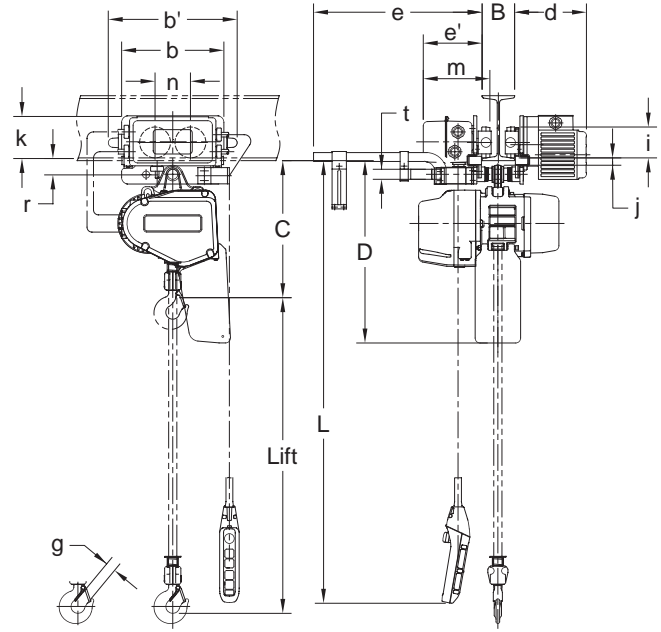
### Standard Pendant Drop

4' less than lift (longer drops available)

\*See page 24 for additional information.



EQM010SD-SD



EQM010SD-SD

**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 Motor 3-Phase 60 Hz					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)				
				Lifting Speed <sup>2</sup> (ft/min)			Rated Current (amps)		Traversing Speed <sup>2</sup> (ft/min)		Rated Current (amps)			Standard	Optional								
				High	Low	No Load High Speed	Output (Hp)	@208-230V	@380-460V	High	Low	Output (Hp)	@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	165

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	1.22
1/4	EQM003SD-SD															
1/2	EQM005SD-SD	17.3														
1	EQM010SD-SD	19.3	22.2													

# EQP and EQG Electric Chain Hoists with Push or Geared Trolleys



EQP010SD

Mounting Harrington's EQ Series three-phase dual speed (VFD Control) electric chain hoist to our PT push or GT geared trolley will create an easy and economical method of transporting the load. This combination is ideal for workstations and infrequent moves.

## 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 Trolley Specifications

### Capacity Range

1/8 Ton – 1 Ton

### Shafts

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

### Drop Stops

Standard

### Bumpers

Optional

### Standard Hand Chain Drop

On geared trolleys  
2' less than lift  
(longer drops available)

### Wheels

All steel  
Sealed ball bearings  
Fit flat or tapered beam flange

### Standard Hoist Pendant Drop

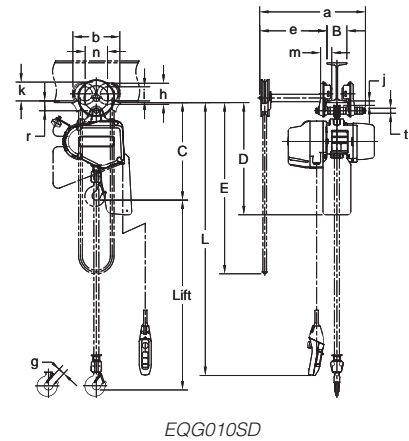
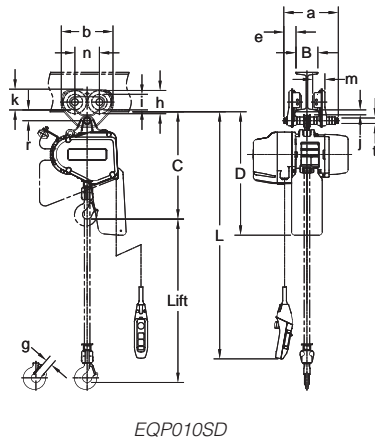
4' less than lift (longer drops available)

### Standard Hoist Power Supply Length

15' (longer lengths available)

### Standard Pendants

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



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

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Lifting Motor <sup>1</sup> 3-Phase 50/60 Hz					Flange Width Adjustability <sup>3</sup> B (in)		Minimum <sup>3,4</sup> Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight <sup>4</sup> (lbs)	Weight for Additional One Foot of Lift (lbs)	
				Lifting Speed <sup>2</sup> (ft/min)			Output (Hp)	Rated Current (amps)		Standard					Optional
				High	Low	No Load High Speed		@208-230V	@380-460V						
1/8	EQ(P/G)001SD	10	8.2	56	9.3	72	0.67	5.1	2.8	2.28 to 4.00 (2.28 to 5.00)	43.3 (51.2)	5.6 x 1	75 (97)	0.48	
1/4	EQ(P/G)003SD			33	5.5	43							75 (99)		
1/2	EQ(P/G)005SD			25	4.2	32							79 (104)		
1	EQ(P/G)010SD			23	3.8	30	2.0	10.5	5.5	2.28 to 5.00	51.2	7.1 x 1	108 (123)	0.77	

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) Figures in parentheses are data for geared trolley if different than push trolley.

4) Minimum Flange Width for curved beam: 1 Ton Push and 1/8 to 1 Ton Geared = 2.87 in.

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

Cap. (Tons)	Product Code	Headroom C (in)	D (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/8	EQP001SD	16.3	19.9	10.4	7.2	1.8	1.1	3.2	2.4	0.75	3.0	1.9	3.3	1.5	0.87
1/4	EQP003SD														
1/2	EQP005SD														
1	EQP010SD	19.3	22.2	11.2	9.3	2.2	1.2	4.2	2.8	0.98	3.7	2.2	4.4	2.0	0.98

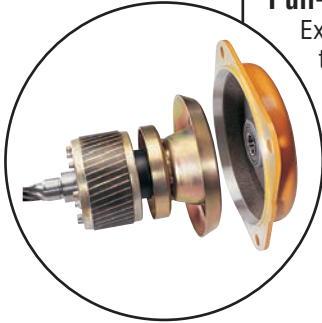
**EQ 3-PHASE DUAL SPEED VFD HOIST WITH GEARED TROLLEY — DIMENSIONS**

Cap. (Tons)	Product Code	Headroom C (in)	D (in)	E (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	EQG001SD	16.7	20.3	10.5	20.9	9.3	13.3	1.1	4.2	2.8	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1/4	EQG003SD																	
1/2	EQG005SD							17.3										
1	EQG010SD	19.3	22.2															

## MRQ 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, 30/10-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.

### Built-In Drop Stops

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



### 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.

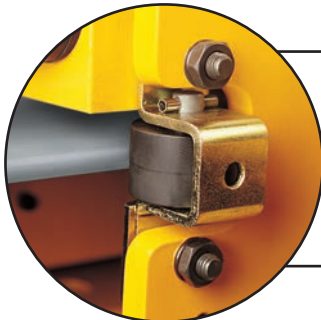
### Rubber Bumpers

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



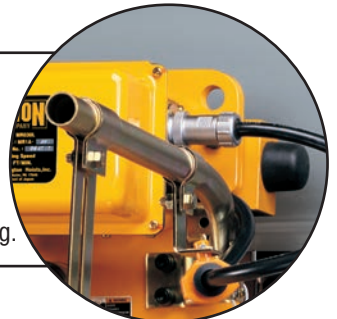
### Side Guide Rollers

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.





## SEQ Electric Chain Hoists Hook or Suspension Bar Mount



SEQ010SD

Harrington's revolutionary SEQ Series single-phase dual speed (VFD Control) electric chain hoists are 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 SEQ hoist includes 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

115/230-1-60

#### Control Voltage

24V

#### 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

4' less than lift (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

#### Operating Conditions

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

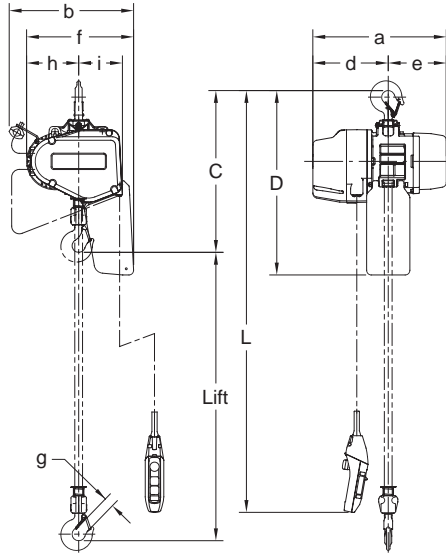
\*See page 24 for additional information.



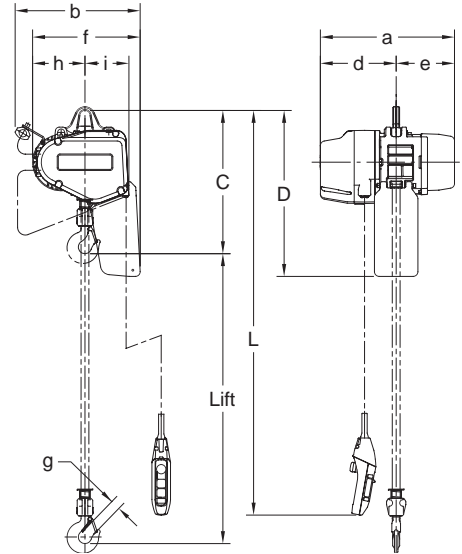
## HARRINGTON ELECTRIC CHAIN HOISTS



SEQ010SD



SEQ010SD Hook Mount



SEQ010SD Suspension Bar Mount

### SEQ 1-PHASE DUAL SPEED VFD HOIST - SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Hoist <sup>1</sup> 1-Phase 60 Hz					Load Chain Diameter (mm) x Chain Fall	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)	
				Lifting Speed <sup>2</sup> (ft/min)			Output (Hp)	Rated Current (amps)				
				High	Low	No Load High Speed		@115V				@230V
1/8	SEQ001SD	10	8.2	56	9.3	72	0.67	10.8	5.7	5.6 x 1	71	0.48
1/4	SEQ003SD			33	5.5	43		12.1	6.4			
1/2	SEQ005SD			25	4.2	32	1.0	14.6	7.8	75		
1	SEQ010SD			17	3.9	22	1.3	18.7	9.9	7.1 x 1	97	

1) Hoists are voltage re-connectable between 115/230V  
 2) Speeds are adjustable between low and high speed

### SEQ 1-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	SEQ001SD	17.3	15.6	21.0	19.1	16.4	14.4	9.1	7.4	11.7	1.1	5.4	5.0
1/4	SEQ003SD												
1/2	SEQ005SD	18.0	16.1	23.5	21.1	17.0	15.9	9.6	7.4	13.1	1.2	6.1	5.6
1	SEQ010SD	20.7	18.3										

## SEQP and SEQG Electric Chain Hoists with Push or Geared Trolleys



SEQP010SD

Mounting Harrington's SEQ Series single-phase dual speed (VFD Control) electric chain hoist to our PT push or GT geared trolley will create an easy and economical method of transporting the load. This combination is ideal for workstations and short or infrequent moves.

### 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 Trolley Specifications

#### Capacity Range

1/8 Ton – 1 Ton

#### Shafts

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

#### Drop Stops

Standard

#### Bumpers

Optional

#### Standard Hand Chain Drop

On geared trolleys  
2' less than lift  
(longer drops available)

#### Wheels

All steel  
Sealed ball bearings  
Fit flat or tapered beam flange

#### Standard Hoist Pendant Drop

4' less than lift (longer drops available)

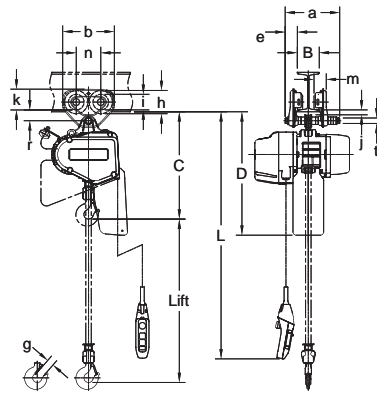
#### Standard Hoist Power Supply Length

15' (longer lengths available)

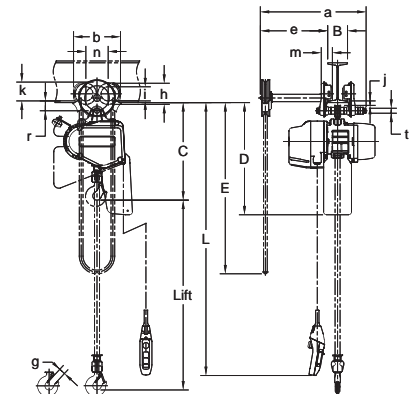
#### Standard Pendants

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

## HARRINGTON ELECTRIC CHAIN HOISTS



SEQP010SD



SEQG010SD

### SEQ 1-PHASE DUAL SPEED VFD HOIST WITH PUSH OR GEARED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Hoist <sup>1</sup> 1-Phase 60 Hz					Flange Width Adjustability <sup>3</sup> B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight <sup>4</sup> (lbs)	Weight for Additional One Foot of Lift (lbs)	
				Lifting Speed <sup>2</sup> (ft/min)			Rated Current (amps)		Standard	Optional					
				High	Low	No Load High Speed	Output (Hp)	@115V							@230V
1/8	SEQ(P/G)001SD	10	8.2	56	9.3	72	0.67	10.8	5.7	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	43.3 (51.2)	5.6 x 1	75 (97)	0.48
1/4	SEQ(P/G)003SD			33	5.5	43		12.1	6.4					75 (99)	
1/2	SEQ(P/G)005SD			25	4.2	32	1.0	14.6	7.8	79 (104)					
1	SEQ(P/G)010SD			17	3.9	22	1.3	18.7	9.9	2.28 to 5.00	5.01 to 8.00 OR 8.01 to 12.00	51.2	7.1 x 1	108 (123)	

### SEQ 1-PHASE DUAL SPEED VFD HOIST WITH PUSH TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	D (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/8	SEQP001SD	16.3	19.9	10.4	7.2	1.8	1.1	3.2	2.4	0.75	3.0	1.9	3.3	1.5	0.87
1/4	SEQP003SD														
1/2	SEQP005SD														
1	SEQP010SD	19.3	22.2	11.2	9.3	2.2	1.2	4.2	2.8	0.98	3.7	2.2	4.4	2.0	0.98

### SEQ 1-PHASE DUAL SPEED VFD HOIST WITH GEARED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	D (in)	E (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	SEQG001SD	16.7	20.3	10.5	20.9	9.3	13.3	1.1	4.2	2.8	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1/4	SEQG003SD																	
1/2	SEQG005SD							17.3										
1	SEQG010SD	19.3	22.2					1.2										

## Options and Technical Data

### BULLARD® AND SHUR-LOC® HOOKS

These hooks offer a positive locking latch feature. Consult Customer Service for full details.



*Bullard®*



*Shur-Loc®*

### PENDANT COVER

Pliable silicone rubber pendant cover designed to protect hoist and trolley push button pendants.

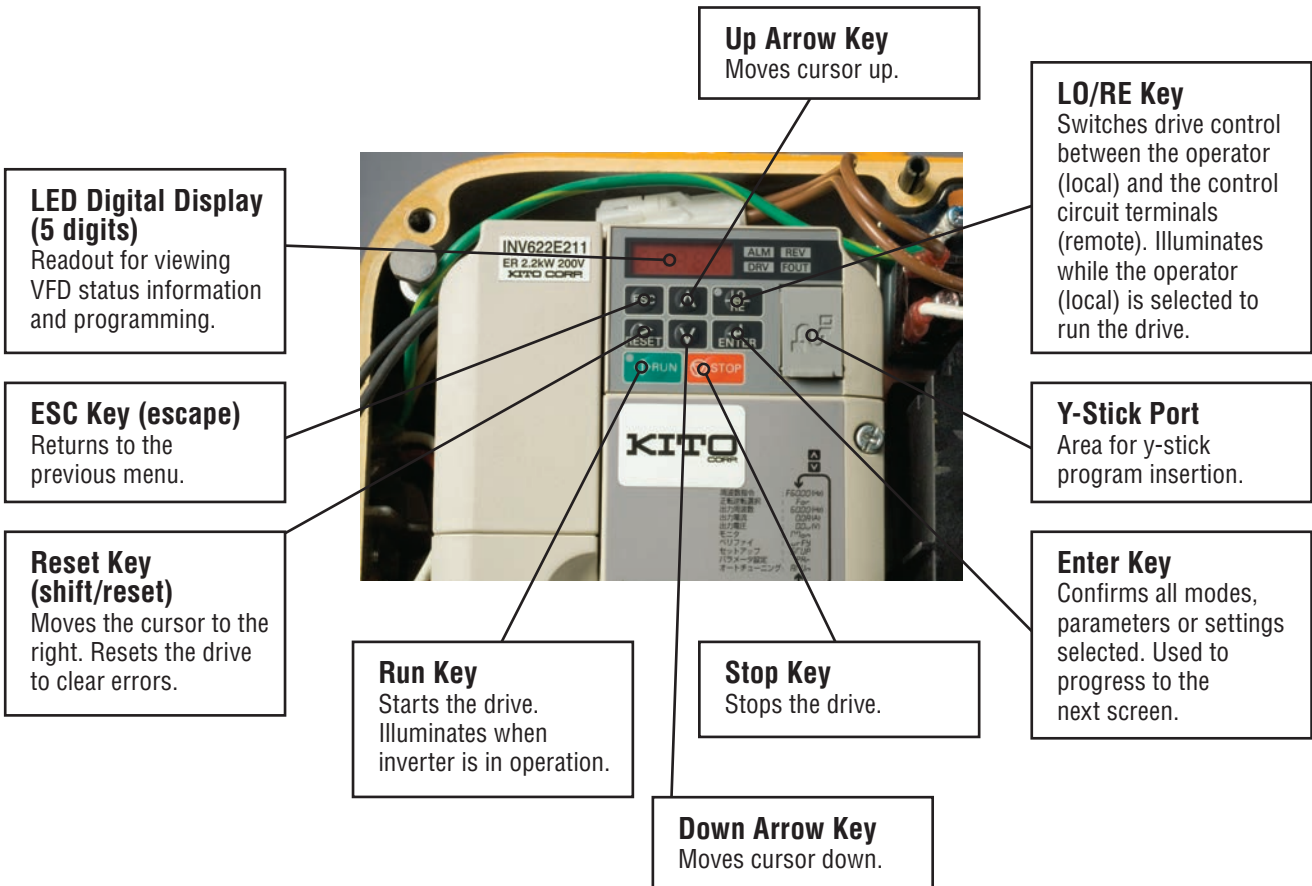


**VARIABLE FREQUENCY DRIVE – VFD  
(INVERTER FOR SMOOTH TRANSITIONAL SPEED)**

The dual speed inverter delivers smoother movement than contactor control which reduces load swing. The inverter can be programmed to operate specific to the application, resulting in smooth starts, improved control, improved positioning accuracy and overall increased productivity. Standard lifting speed ratio is 6:1. Standard traversing speed ratio is 6:1 adjustable to 10:1.

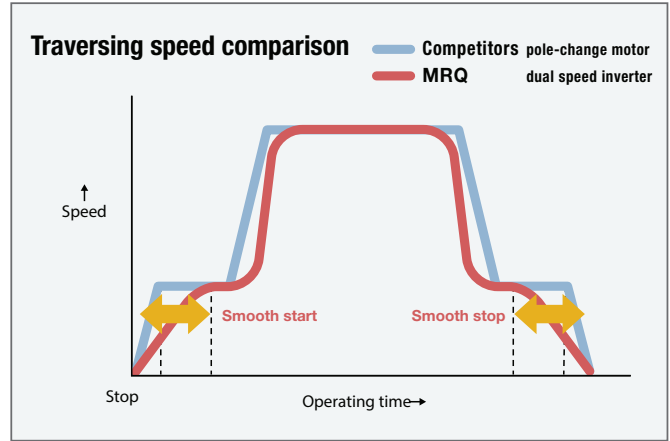
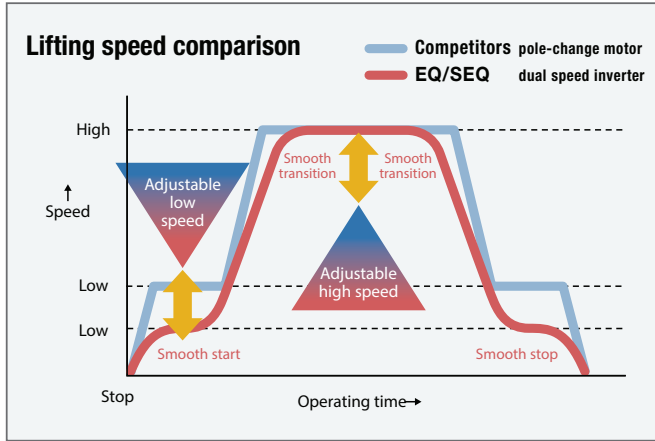
A no-load high-speed function is a standard feature, allowing its hoisting speed to move 1.3 times faster during no-load operation. When the no-load condition is detected by the inverter, this function is activated automatically switching to high-speed operation, leading to improved work efficiency with ease and safety. The function is easily activated (ON/OFF) with the push button control.

EQ, EQM and SEQ inverter units are well-customized for lifting/traversing applications including exclusive software, and are also provided with measures against impact and heat, which were verified through long-run tests.



# Options and Technical Data

## SPEED COMPARISONS



## VFD HOIST CONTROL DESCRIPTIONS

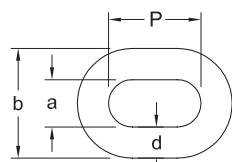
The dual speed inverter delivers smoother movement than contactor control which reduces load swing. The inverter can be programmed to operate specific to the application, resulting in smooth starts, improved control, improved positioning accuracy and overall increased productivity. Standard lifting speed ratio is 6:1. Standard traversing speed ratio is 6:1 adjustable to 10:1.

A no-load high-speed function is a standard feature, allowing its hoisting speed to move 1.3 times faster during no-load operation. When the no-load condition is detected by the inverter, this function is activated automatically switching to high-speed operation, leading to improved work efficiency with ease and safety. The function is easily activated (ON/OFF) with the push button control.

EQ, EQM and SEQ inverter units are well-customized for lifting/traversing applications including exclusive software, and are also provided with measures against impact and heat, which were verified through long-run tests.

## EQ/SEQ CHAIN—DIMENSIONS

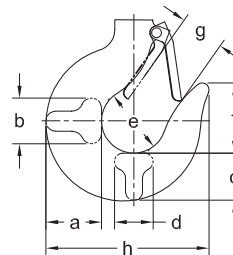
Cap. (Tons)	Product Code	d (in)	a (in)	b (in)	P (in)
1/8- 1/2	EQ001SD/003SD/005SD SEQ001SD/003SD/005SD	0.22	0.28	0.72	0.62
1	EQ010SD, SEQ010SD	0.28	0.36	0.92	0.79



Chain Dimensions

## EQ/SEQ HOOK—DIMENSIONS

Capacity Code	Hook	a (in)	b (in)	c (in)	d (in)	e (in)	f (in)	g (in)	h (in)
001, 003, 005	T & B	1.1	0.7	0.9	0.7	1.4	1.5	1.1	3.7
010	T & B	1.5	0.9	1.2	0.9	1.7	1.8	1.2	4.3



Hook Dimensions

## Duty Classifications

### ASME HST

Hoist duty class	Typical areas of application	Operation time ratings at $K=0.65$			
		Uniformly distributed work periods		Infrequent work periods	
		Max. on time, min/ hr	Max. No. starts/ hr	Max. on time from cold start, min	Max. No. of starts
H2	Light machine shop fabricating, service, and maintenance; loads and utilization randomly distributed; rated loads infrequently handled	7.6 (12.5%)	75	15	100
H3	General machine shop fabricating, assembly, storage, and warehousing; loads and utilization randomly distributed	15 (25%)	150	30	200
H4	High volume handling in steel warehouses, machine shops, fabricating plants and mills, and foundries; manual or automatic cycling operations in heat treating and plating; loads at or near rated load frequently handled	30 (50%)	300	30	300

The grade symbols are identical to those of ASME HST-1M. (Performance standard for Electric Chain Hoist)

### HOIST CLASSIFICATION

State of loading		Total duration of use (h)							
		200	400	800	1600	3200	6300	12500	25000
Light	Mechanisms subjected very rarely to the maximum load and, normally, to light loads	—	—	M1	M2	M3	M4	M5	M6
Moderate	Mechanisms subjected fairly frequently to the maximum load but, normally, to rather moderate loads	—	M1	M2	M3	M4	M5	M6	—
Heavy	Mechanisms subjected frequently to the maximum load and, normally, to loads of heavy magnitude	M1	M2	M3	M4	M5	M6	—	—
Very heavy	Mechanisms subjected regularly to the maximum load	M2	M3	M4	M5	M6	—	—	—

This classification refers to ISO 4301-1 and applies to the mechanical components including gears and bearings except for consumable parts.

### COMPLIANCE

Harrington's electric chain hoists are produced to comply with:

- CSA Std. C22.2 No 33-M1984 (R2004), "Construction and Test of Electrical Cranes and Hoists"
- CSA Std. C22.2 No 14-13, "Industrial Control Equipment"
- CSA Std. C22.2 No. 66.1-06 (R2011), "Low Voltage Transformer-Part I: General Requirements"
- ANSI/UL508 (17th Edition), "Industrial Control Equipment"
- ANSI/UL508A (First Edition), "Industrial Control Panels"
- ANSI/UL 1004 (First Edition), "Rotating Electrical Machines"
- ANSI/NFPA 70, "National Electrical Code"
- ANSI/ASME B30.16, "Safety Standard—Overhead Hoists (Underhung)"
- ANSI/ASME HST—1M, "Performance Standard for Electric Chain Hoists"

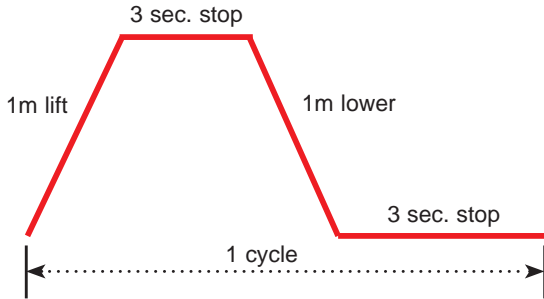
Harrington's manual and electric-powered trolleys are produced to comply with the trolley-related requirements of:

- OSHA Section 1910.179 of Title 29, "Occupational Safety and Health Regulations—Overhead and Gantry Cranes"
- ANSI/ASME B30.11, "Safety Standard—Monorails and Underhung Cranes"
- ANSI/ASME B30.17, "Safety Standard—Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)"

**LIFTING MOTOR RATINGS**

**Short Time Rating**

This rating indicates how long the hoist can be operated continuously at the rated capacity on the cycle below, assuming continued operation for a short time span.

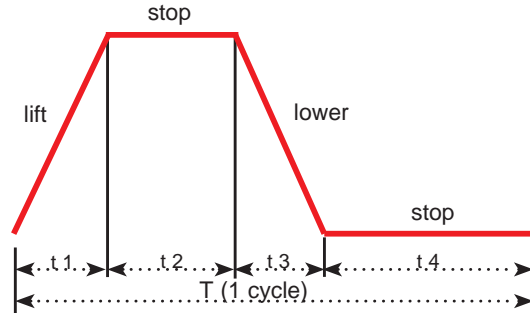


• Dual speed: 30/10 Min.

**Intermittent Rating (Percent ED)**

**Max. Number of Starts Per Hour**

This rating indicates the allowable ratio of motor ON time to motor OFF time, and starts per hour for a hoist operated continuously at 63% of rated capacity on the cycle below, assuming continued operation or repeated starting over a long time span.



$$\text{Example: \%ED} = \frac{\text{Motor ON time (t1 + t3)}}{T \text{ (1 cycle)}} \times 100$$

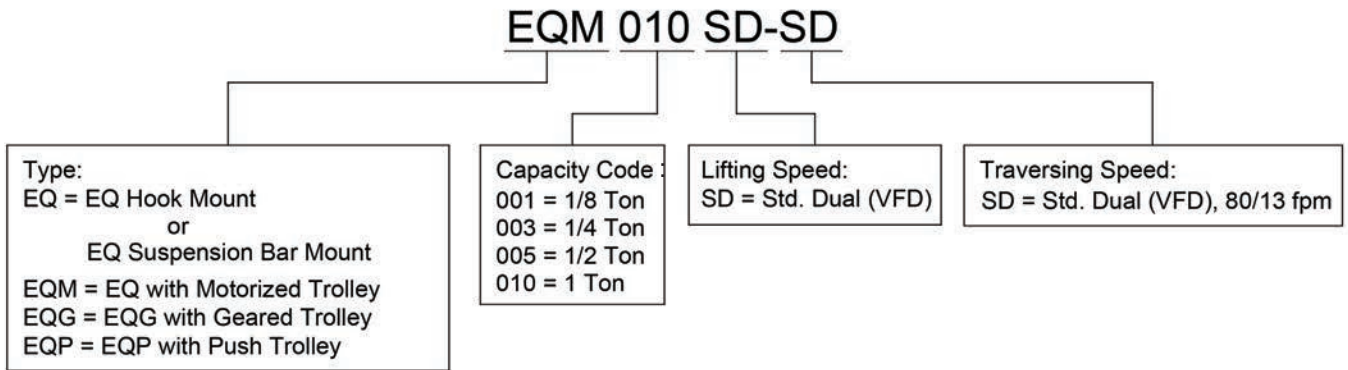
(Where T = 1 cycle (t1 + t2 + t3 + t4) and is not more than 10 minutes.)

**EQ/SEQ Lifting Motor Ratings**

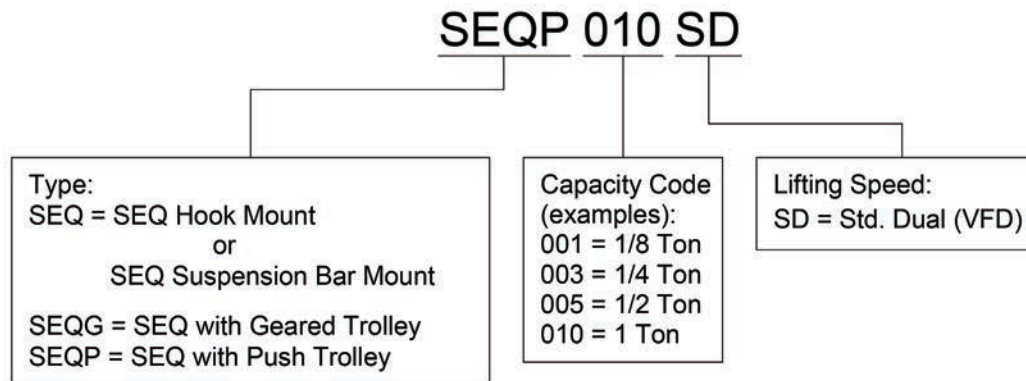
• Dual speed: 40/20% ED, 120/240 starts/hr



## Product Code for EQ Series



## Product Code for SEQ Series



## Notes

# Complete Product Offering

Over the years Harrington has continued to respond to the needs of our customers by further expanding our product offerings. In addition to the many models described in this catalog, our full series of product catalogs, as shown below, will provide you with all of the information you will need to answer questions, specify a product and place an order. For catalog copies or answers to specific product questions, please contact our Customer Service Department by calling 800-233-3010 or e-mail [customerservice@harringtonhoists.com](mailto:customerservice@harringtonhoists.com)



## Manual Hoist Products Catalog

Refer to this Harrington catalog for detailed information on the following:

- Lever hoists
- Hand chain hoists
- Hoist and trolley combinations
- Low headroom trolley hoists
- Push and geared trolleys
- Hoist load testers



## Air Powered Hoists Catalog

Refer to this Harrington catalog for detailed information on the following:

- Compact Mini-Cat with pendant, cord and manipulator controls
- Air hoists with pendant and cord controls
- Air trolleys



## Electric Wire Rope Hoists Catalog

Refer to this Harrington catalog for detailed information on the following:

- Deck/base mounted or lug suspended hoists
- Standard headroom trolley hoists
- Ultra-low headroom trolley hoists



## Crane Components Catalog

Refer to this Harrington catalog for detailed information on the following:

- End trucks-top running-motorized, geared and push
- End trucks-underhung-motorized, geared and push
- Double girder MAX-E-Lift end trucks
- Convertible push end trucks
- Beam accessory kits



## Complete Cranes Catalog

Refer to this Harrington catalog for detailed information on the following:

- Heavy-duty Class C single girder top running and underhung cranes
- Heavy-duty Class C double girder top running and underhung cranes
- Medium-duty top running and underhung push cranes
- Crane control panels



## Below-The-Hook and Material Handling Equipment

Refer to this Harrington catalog for detailed information on the following:

- Lifting beams and spreader beams
- Roll lifters, coil lifters and tongs
- Sheet lifters and pallet lifters
- Fork truck accessories
- Material stands and material baskets

## CONTACT YOUR NEARBY HARRINGTON DISTRIBUTOR



## Warranty

All products sold by Harrington Hoists, Inc. are warranted to be free from defects in material and workmanship from date of shipment by Harrington for the following periods:

- 1 year—Electric and Air Powered Hoists (excluding (N)ER2 Enhanced Features Models), Powered Trolleys, Powered Tiger Track Jibs and Gantries, Crane Components, Sling Chain, Spare/Replacement Parts, Below-The-Hook and Material Handling Equipment**
- 2 years—Manual Hoists & Trolleys, Beam Clamps**
- 3 years—(N)ER2 Enhanced Features Model Hoists, EQ/SEQ Hoists**
- 5 years—Manual Tiger Track Jibs and Gantries, TNER and EQ/SEQ Pull-Rotor Motor Brake**
- 10 years—(N)ER2 “The Guardian” Smart Brake**

The product must be used in accordance with manufacturer’s recommendations and must not have been subject to abuse, lack of maintenance, misuse, negligence, or unauthorized repairs or alterations.

Should any defect in material or workmanship occur during the above time period in any product, as determined by Harrington Hoist’s inspection of the product, Harrington Hoists, Inc. agrees, at its discretion, either to replace (not including installation) or repair the part or product free of charge and deliver said item F.O.B. Harrington Hoists, Inc. place of business to customer.

Customer must obtain a Return Goods Authorization as directed by Harrington or Harrington’s published repair center prior to shipping product for warranty evaluation. An explanation of the complaint must accompany the product. Product must be returned freight prepaid. Upon repair, the product will be covered for the remainder of the original warranty period. Replacement parts installed after the original warranty period will only be eligible for replacement (not including installation) for a period of one year from the installation date. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Harrington’s warranty, the customer will be responsible for the costs of returning the product.

Harrington Hoists, Inc. disclaims any and all other warranties of any kind expressed or implied as to the product’s merchantability or fitness for a particular application. Harrington will not be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages, loss or expense arising in connection with the use or inability whatever, regardless of whether damage, loss or expense results from any act or failure to act by Harrington, whether negligent or willful, or from any other reason.



[www.harringtonhoists.com](http://www.harringtonhoists.com)

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