

## **RY Series Electric Wire Rope Hoists**

### *Premium Features*

#### **UL® Listed**

Certified and listed to UL 1340 “Standard for Hoists” and CSA 22.2 No. 33 “Construction and Test of Electric Cranes and Hoists.”



#### **VFD Control – Hoist and Trolley**

Soft start/stop minimizes load swing. High and low speed adjustability. Max ratio of 6:1. Includes standard count hour meter that records and displays the number of lifting/lowering starts and hoist on time for preventative maintenance.



#### **Premium Wire Rope (IWRC, Coated Core)**

Provides high resistance to fatigue and wear.



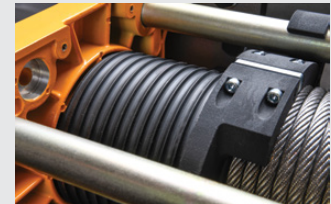
#### **Full 360° Rope Guide**

Made of a high strength polymer for durability, keeps the rope securely in the groove on the drum. Simple design makes replacement easy.



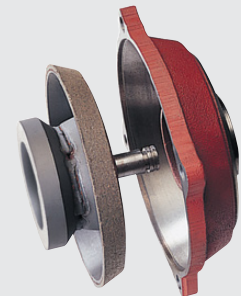
#### **Rope Drum**

Deep grooved, high strength drum for durability and long service life.



#### **High Performance Motor Brakes**

The Pull-Rotor motor brake on 3 and 5 Ton and Magnetic Disc Brake on 7.5 and 10 Ton provide reliable operation and exceptional durability. **5-year hoist brake warranty.**



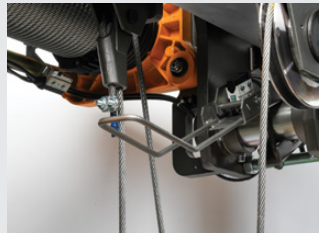
### Externally Adjustable Upper/Lower Limit Switches

Set the range of operation with easy adjustment.



### Standard Upper Emergency Paddle Limit

Secondary limit independent of drum rotation to comply with US Safety Standard ASME B30.



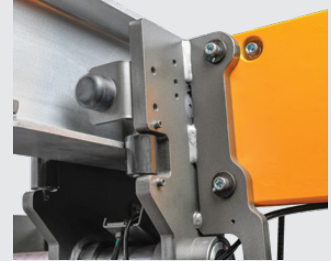
### Heavy Duty – Fan Cooled Hoist Motor

With class F insulation and a ribbed frame for maximum cooling and durability. IP55 rating ensures a high level of protection from the entrance of dust and water. H4 rated hoist, 60 minute duty rating.



### Standard Guide Rollers and Rubber Trolley Bumpers

Guide rollers reduce wheel friction and noise while providing smooth travel and increased life of wheel and beam. Rubber trolley bumpers provide protection from collisions.



### No Load High Speed Function

Operates at 1.5 times the standard high speed with a load less than 25% of rated capacity.



### Externally Adjustable Trolley Motor and Brake

IP55 totally enclosed non ventilated (TENV) motor with cooling fins ensures protection from dust and water and enhances motor life.



## RY Series Electric Wire Rope Hoists

### No Load High Speed Function

Operates at 1.5 times the standard high speed with a load less than 25% of rated capacity.

### Rope Drum

Deep grooved, high strength drum for durability and long service life.

### Premium Wire Rope (IWRC, Coated Core)

Provides high resistance to fatigue and wear.

### Full 360° Rope Guide

Made of a high strength polymer for durability, keeps the rope securely in the groove on the drum. Simple design makes replacement easy.

### Externally Adjustable Upper/Lower Limit Switches

Set the range of operation with easy adjustment.

### Upper Emergency Paddle Limit

Secondary limit independent of drum rotation to comply with US Safety Standard ASME B30.

### Externally Adjustable Trolley Motor and Brake

IP55 totally enclosed non ventilated (TENV) motor with cooling fins ensures protection from dust and water and enhances motor life.

### Operating Conditions

Recommended for -4° to +104° F and humidity of 90% or less.

**Electronic Overload Limiter**  
Detects overload instantaneously and shuts off the circuit for lifting.

**Standard Rubber Trolley Bumpers**  
Provides protection from collisions.

**Built-In Drop Stops**  
Security for the operator and the equipment.

**Standard Guide Rollers**  
Reduce wheel friction and noise while providing smooth travel and increased life of wheel and beam.

**VFD Control – Hoist and Trolley**  
Soft start/stop minimizes load swing. High and low speed adjustability. Max. ratio of 6:1.

**Count Hour Meter**  
Records and displays the number of starts and hoist on time which is valuable for preventive maintenance. Integral to the VFD.

**Heavy Duty Hoist Motor**  
Totally enclosed fan cooled (TEFC) motor with class F insulation and a ribbed frame for maximum cooling and durability. IP55 rating ensures a high level of protection from the entrance of dust and water.

**Electronic Thermal Motor Protection**  
Detects overheating and stops the motor.

**High Performance Motor Brakes**  
The Pull-Rotor motor brake on 3 and 5 Ton and Magnetic Disc Brake on 7.5 and 10 Ton provide reliable operation and exceptional durability. **5-year hoist brake warranty.**

# RY Series Electric Wire Rope Ultra-Low Headroom Trolley Hoists



5 Ton

Harrington's RY Series wire rope hoists are designed for safety, reliability and performance. These ultra-low headroom trolley hoists have an H4 duty rating for high demand applications and comes standard with VFD controls for ultimate lifting and lowering accuracy.

## Features and Benefits

### UL® Listed\*\*

Certified and listed to UL 1340 "Standard for Hoists" and CSA 22.2 No. 33 "Construction and Test of Electric Cranes and Hoists."

### VFD Control - Hoist and Trolley

Soft start/stop minimizes load swing. High and low speed adjustability. Max. ratio of 6:1.

### No Load High Speed Function

Operates at 1.5 times the standard high speed with a load less than 25% of rated capacity.

### Premium Wire Rope (IWRC, Plastic Coated Core)

Provides high resistance to fatigue and wear.

### Full 360° Rope Guide

Made of a high strength polymer for durability, keeps the rope securely in the groove on the drum. Simple design makes replacement easy.

### Rope Drum

Deep grooved, high strength drum for durability and long service life.

### High Performance 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.**

### Externally Adjustable Upper/Lower Limit Switches

Set the range of operation with easy adjustment.

### Electronic Overload Limiter

Detects overload instantaneously and shuts off the circuit for lifting.

### Standard Upper Emergency Paddle Limit

Secondary limit independent of drum rotation to comply with US Safety Standard ASME B30.

### Heavy Duty - Fan Cooled Hoist Motor

Totally enclosed fan cooled (TEFC) motor with class F insulation and a ribbed frame for maximum cooling and durability. IP55 rating ensures a high level of protection from the entrance of dust and water.

### Standard Rubber Trolley Bumpers

Provides protection from collisions.

### Externally Adjustable Trolley Motor and Brake

IP55 totally enclosed non ventilated (TENV) motor with cooling fins ensures protection from dust and water and enhances motor life.

### Electronic Thermal Motor Protection

Detects overheating and stops the motor

### Count Hour Meter

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

### Standard Guide rollers

Reduced wheel friction and noise providing smooth travel and increased life of wheel and beam.

### Built-In Drop Stops

Security for the operator and the equipment.

### Trolley Wheels

Fit flat or tapered beam flange.

## Standard Hoist/Trolley Specifications

### Capacity Range

3 – 10 Ton

### Standard Voltage

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

### Control Voltage

110V

### Duty Cycle\*

60 min

### Ratings

Hoist/Trolley – IP55

### Classification

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

### Conformance\*\*

UL1340, 508, 508A, 1004  
ASME B30.16, B30.17, HST-4  
CMAA 74  
CSA 22.2 (33, 14-13, 66), B167

### Operating Conditions

Recommended for -4° to +104° F and humidity of 90% or less.

### Mounting

Ultra-Low Headroom

### Wheels

Will operate on a tapered or flat beam flange.

### Pendant

Optional  
IP65 (NEMA 3R) or NEMA 4 (both with emergency on/off)

### Pendant Cord

Optional

### Power Supply Cord

Optional

### Flange Extension Kit – (Installed)

Optional

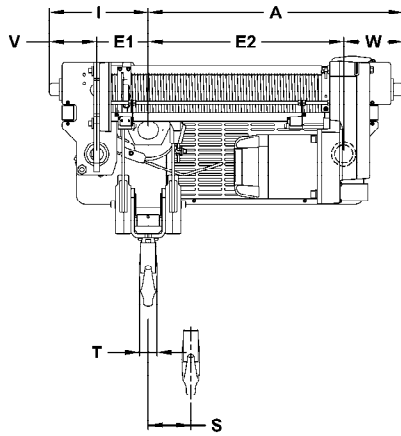
\*See page 15 for additional information.

\*\* Standard models shipped with UL listing – Contact Customer Service

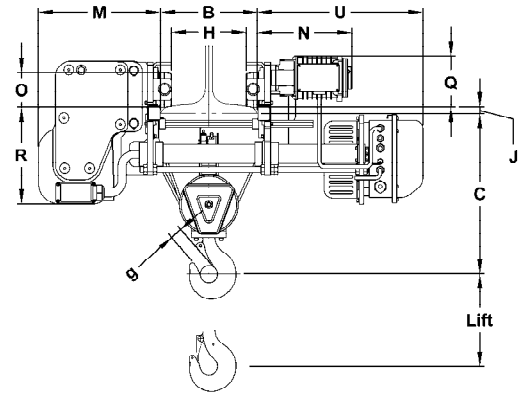
## HARRINGTON RY SERIES ELECTRIC WIRE ROPE HOISTS



5 Ton



5 Ton



### ULTRA-LOW HEADROOM TROLLEY HOISTS — SPECIFICATIONS

Capacity (Tons)	Product Code	Lift (ft)	Flange Range B (in)	Reeving (parts/ reeving)	Rope (mm)	Lifting Motor 3 Phase – 50/60Hz						Traversing Motor 3 Phase – 50/60Hz				Net Weight (lbs.)		
						Lifting Speed <sup>1</sup> (ft/min)		Output (Hp)	Rated Current <sup>2</sup> (amps)			Traversing Speed <sup>2</sup> (ft/min)	Output (Hp)	Rated Current (amps) <sup>2</sup>				
						Initial High/ Low Speed	No Load High Speed		@208V/ 60Hz	@230V/ 60Hz	@460V/ 60Hz			@208V/ 60Hz	@230V/ 60Hz		@380V/ 50Hz	@460V/ 60Hz
3	RYU030A25HDD	25	4.92-13.78	4/1	9	26/4.3	39	6.7	24.7	22.9	12.1	66/11	0.54	1.5	2.1	1.7	1.4	960
			13.79-19.68															971
	RYU030A33HDD	33	4.92-13.78															1048
			13.79-19.68															1059
5	RYU050B25HDD	25	4.92-13.78	4/1	9	26/4.3	39	10.7	36.5	34.0	18.3	66/11	0.54	1.5	2.1	1.7	1.4	993
			13.79-19.68															1004
	RYU050B33HDD	33	4.92-13.78															1092
			13.79-19.68															1103
7.5	RYU075C30HDD	30	5.9-13.78	4/1	13	20/3.3	30	17.7	43.4	39.6	19.0	66/11	1.0	3.9	4.4	2.5	2.6	2227
			13.79-20.00															2258
	RYU075C40HDD	40	5.9-13.78															2397
			13.79-20.00															2428
10	RYU100C30HDD	30	5.9-13.78	4/1	13	20/3.3	30	17.7	56.1	51.4	24.8	66/11	1.0	3.9	4.4	2.5	2.6	2227
			13.79-20.00															2258
	RYU100C40HDD	40	5.9-13.78															2397
			13.79-20.00															2428

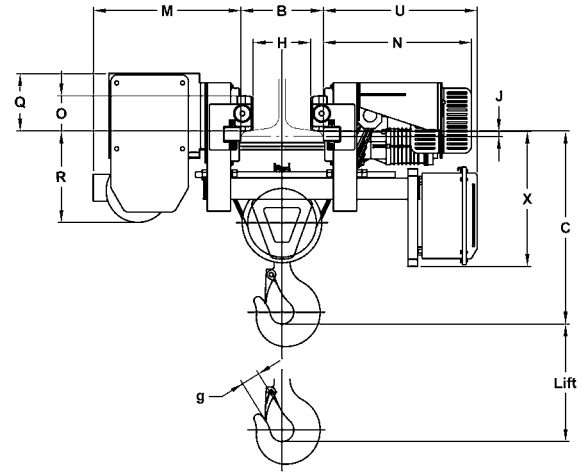
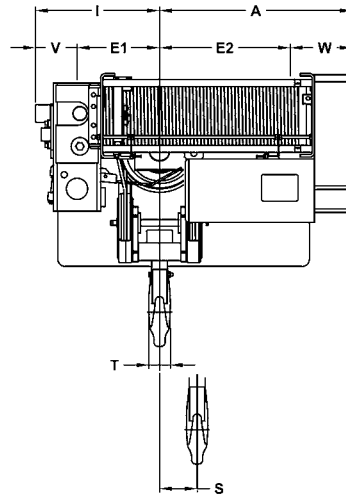
① 2 = 208V-230V – 3ph – 50/60Hz  
4 = 460V – 3ph – 50/60Hz

1) Low and high speeds are adjustable  
2) Current values based on 250 kVA power supply

# RY Series Electric Wire Rope Ultra-Low Headroom Trolley Hoists



10 Ton



10 Ton

## ULTRA-LOW HEADROOM TROLLEY HOISTS — DIMENSIONS

Capacity (Tons)	Product Code	Lift (ft)	Flange Range B (in)	Dimensions (in)																	
				A	C	E1	E2	g	H	I	J	M	N	O	Q	R	S	T	U	V	W
3	RYU030A25HDD <sup>①</sup>	25	4.92-13.78	36.3	25.0	7.3	27.8	1.7	B-3.1	14.1	1.3 or less	17.4	13.5	4.92	7.3	13.7	6.1	32.4-23.6	6.7	8.5	13.7
			13.79-19.68														2.1	29.5-23.6			
	4.92-13.78	8.1	32.4-23.6																		
	13.79-19.68		29.5-23.6																		
5	RYU050B25HDD <sup>①</sup>	25	4.92-13.78	36.3	25.6	7.3	27.8	1.8	B-3.1	14.1	1.3 or less	17.4	13.5	4.92	7.3	13.7	6.1	32.4-23.6	6.7	8.5	13.7
			13.79-19.68														2.5	29.5-23.6			
	4.92-13.78	8.1	32.4-23.6																		
	13.79-19.68		29.5-23.6																		
7.5	RYU075C30HDD <sup>①</sup>	30	5.9-13.78	32.3	32.3	13.4	21.6	2.8	B-4.1	20.8	1.6 or less	24.7	24.8	5.9	9.6	15.3	6.3	33.6-25.8	7.4	10.7	22.6
			13.79-20.00														3.5	31.7-25.8			
	5.9-13.78	8.4	33.6-25.8																		
	13.79-20.00		31.7-25.8																		
10	RYU100C30HDD <sup>①</sup>	30	5.9-13.78	32.3	32.3	13.4	21.6	2.8	B-4.1	20.8	1.6 or less	24.7	24.8	5.9	9.6	15.3	6.3	33.6-25.8	7.4	10.7	22.6
			13.79-20.00														3.5	31.7-25.8			
	5.9-13.78	8.4	33.6-25.8																		
	13.79-20.00		31.7-25.8																		

① 2 = 208V-230V - 3ph - 50/60Hz  
4 = 460V - 3ph - 50/60Hz