

COFFING®

WIRE ROPE HOISTS



Standard weather-tight, threaded power cord entry.

Dual, articulating trolley lugs provide excellent curved beam traveling characteristics.

Easy access to all electrical connections.

Highly rigid tubular steel frame for precision alignment of components.

Standard internal strain relief cable in pushbutton cord.

PUSHBUTTON CONTROL

The specially designed and constructed pushbutton station is glass-filled nylon for severe impact and chemical/corrosive atmosphere resistance. Formed to fit the operator's hand for thumb or two-handed operation. The 24 volt control circuit reduces shock hazard to the operator.

2 WAY OPERATION



Using thumb only.



Using both hands.

Pushbutton control.

Fully enclosed bottom block guards against rope jamming and sheave damage.

COFFING

Duff-Norton

ELECTRIC WIRE ROPE HOISTS 1/2 to 5 TON MODELS

Steel, machined-groove drum provides smoother winding and longer rope life.

Precision machined alloy steel gears lubricated by oil bath for longer, quieter operation.

First stage helical gearing for quietest operation available.

Standard multiple disc direct acting motor brake.

Standard adjustable upper and lower limit switches for regulated load travel.

Standard overload clutch device protects against damage caused by excessive overloads and reverse phasing.

Standard multiple disc mechanical load brake.

COFFING® WIRE ROPE HOISTS

1/2 to 3 Ton Wire Rope Models (Up to 3 Horsepower Motor)

Overall Features

- Single or double reeved models available
- Cross-mounted low headroom models available
- 230/460-volt motors standard. 115/230-volt (single phase, up to 1 HP only), 575 and 208-volt single-voltage motors are optional.
- H-3 Duty Class with Class B motor insulation
- NEMA-3R enclosures
- Hoist motor uses solid state starting switch which offers greater reliability than conventional centrifugal switches (single phase only)
- Two-speed motors available with 3 to 1 speed ratio (three phase only)
- Capacity limiter on all models. Prevents lifting of damaging overloads while operating hoist
- Dual brake system consists of mechanical load brake and multiple disc, direct acting motor brake
- Adjustable upper and lower limit switches prevent hoist damage due to overtravel
- Machined steel drum with uniform, precise grooving provides smoother drum winding and longer rope life. 20:1 drum to rope diameter ratio
- Oil-filled transmission runs cooler and lasts longer
- A specially designed pushbutton station is formed to fit the operator's hand, allowing for thumb or two-handed operation. NEMA-3R standard

Lug Mount: For stationary mounting

Plain & Geared Trolleys:

- Trolley adjustable for 6" to 18" American Standard I-Beams with recommended 4-foot minimum radius.
- Available to fit wide-flange and patented track beams.
- Fully machined, cast iron wheels equipped with sealed, lifetime lubricated precision ball bearings for long life.
- Hand chain operated geared trolley available
- Four-wheel trolley side plates feature heavy duty bumpers to protect wheels and act as safety lugs (optional on two-wheel trolley).

Motorized Trolley:

- Compact 4-button control station operates both hoist and trolley.
- Trolley adjustable for 6" to 18" American Standard I-Beams with recommended 4-foot minimum radius.
- Available to fit wide-flange and patented track beams.
- Standard trolley speed is 35 FPM. Other speeds optional are 18, 24, 50, 75, 100 and 150 FPM.



- Two speed hoist/motorized trolley combinations are available, with 3 to 1 speed ratio (three phase only)
- Machined and heat-treated cast iron wheels equipped with sealed, lifetime lubricated precision ball bearings for long life.
- Dual, articulating trolley has excellent curved beam handling characteristics.
- Trolley brake available
- Four-wheel trolley side plates feature heavy duty bumpers to protect wheels and to act as safety lugs (optional on two-wheel trolley)

For Dimensional Drawings refer to COFFING Data Sheets.

3 & 5 Ton Wire Rope Models (5 Horsepower Motor)

Overall Features

- 230/460-volt motors are standard. 575 and 208-volt single-voltage motors are optional.
- H-3/H-4 (Duty Cycle up to 35%) with Class B motor insulation.
- NEMA-3R enclosures.
- Two-speed motors, with 3:1 speed ratio are also available.
- Five horsepower totally enclosed fan-cooled motor (TEFC) for cooler operation.
- 20-foot lifts are cross mounted. Cross-mounting and two-part double reeving combine to provide a unit with very low headroom and plumb lift.
- 30 and 40 foot lifts are parallel mounted and double reeved.
- Overload limiter is standard on all models. Prevents lifting of damaging overloads.
- Dual brake system consists of mechanical load brake and multiple disc, direct-acting motor brake.
- Adjustable upper and lower limit switches prevent hoist damage due to overtravel.
- Steel drum with grooves machined to a depth of 50% of the rope diameter. 20:1 drum to rope diameter ratio.
- Precision machined alloy steel gearing lubricated by large capacity oil bath for longer, cooler operation.
- First stage helical gearing for quieter operation.
- A specially designed pushbutton station is formed to fit the operator's hand, allowing for thumb or two-handed operation. NEMA-3R standard.
- Grease fittings on bottom block and at drum bearing make relubrication a simple task.

Lug Mount: For stationary mounting

Plain & Geared Trolley:

- Dual, articulating trolleys are adjustable for 6 to 18-inch American Standard I-Beams, with recommended 4-foot minimum radius.
- Available to fit wide-flange and patented track beams.
- Trolley sideplates feature heavy duty bumpers to protect wheels and act as safety lugs.
- Fully machined cast iron wheels equipped with sealed, lifetime lubricated precision ball bearings for long life.
- Hand-chain operated geared trolley available.

Motorized Trolley:

- Dual, articulating trolleys are adjustable for 6 to 18-inch American Standard I-Beams, with recommended 4-foot minimum radius.



- Standard trolley speed is 35 FPM. Optional speeds available are 18, 24, 50, 75, 100 and 150 FPM. Two speed trolley motors available.
- Fully machined, heat-treated cast iron wheels equipped with sealed, lifetime lubricated precision ball bearings for long life.
- Trolley sideplates feature heavy duty bumpers to protect wheels and act as safety lugs.
- Available to fit wide-flange and patented track beams.
- Built to rugged specifications for long efficient service.
- Trolley brake available.

For Dimensional Drawings refer to COFFING Data Sheets.

WIRE ROPE ACCESSORIES

SPECIAL ACCESSORIES (CONSULT FACTORY)

- Paddle limit switch
- Electronic phase reversal and under-voltage protection
- Bronze wheels
- Bronze hooks
- Rubber bumpers for trolleys
- Pushbutton balancers
- Electronic overload detector
- Zinc-plated hooks
- Magnetic particle inspection of hooks
- Epoxy paint
- Trolley limit switches
- Horn or bell
- Wall mounted pushbutton
- Kellems cord grip
- NEMA 1, 2, 3R, 4, 4X, 5, 12 & 13 pushbutton stations
- Bridge or tractor controls
- Infrared remote control
- Variable speed control
- 3-foot outrigger arm
- Track clamp
- Circuit breaker
- Motor thermostat
- Motor fuses
- Thermal overload relays
- Mainline contactor
- Trolley ballast resistors (three phase only)
- Solid-state soft-start for trolley
- Multibutton pushbutton stations
- Electrical interlocks
- Timers
- Stainless steel cable

SPECIAL APPLICATIONS

TANDEM APPLICATIONS

- Twin hooks move long, unwieldy loads.
- Pushbutton control station allows hoists to be operated either simultaneously or individually.
- Hoists connected mechanically and electrically.
- Available with plain, geared or motorized trolleys.

TWIN HOOK

- Same as tandem trolley application, except hoists have lug suspension for fixed position operation.

SEMI-AUTOMATIC

- Requires only a momentary depression of pushbutton to raise or lower hook to preset position.
- Limit switch permits adjustment of end stops anywhere within range of lift.
- Stop button allows stops between limits.

MULTI-LEVEL

- Hoists can be specified with multiple control pendants or wall stations. (Consult factory)

INCHING CONTROLS

- Selector switch allows hoist to operate in normal run or in jog mode.
- In jog mode, each depression of button advances hook a fraction of an inch (field adjustable).
- Can be supplied with jog adjustment pot inside hoist enclosure or on pushbutton station.
- Available for hoist, or motorized trolley, or both.

KEY LOCK

- Key lock on pushbutton station prevents unauthorized use of hoist.
- Multiple stations keyed alike unless otherwise specified.

ADDITIONAL ACCESSORIES

CORD TROLLEYS

- Keeps hoist power cord from interfering with working area.
- Adjustable for standard 3" to 10" American Standard I-Beams.
- Use one trolley for every 5' of cord.



Adjust for Std. I-Beam	Tread Diameter (In.)	For	Net Weight (Lb.)	Model Number
3-10	2 ³ / ₈	Cord	2 ¹ / ₄	TL-3-10C

RETRACTABLE CORD

- 25-foot cable retracts to approximately 5 feet.
- Keeps hoist power cable out of hoist operating area.
- Neoprene-covered, 14 gauge.
- Available with three or four conductors.



FESTOONING PACKAGES

- Economical and reliable way to supply power to moving hoists.
- Carriers are suspended on wire rope pulled taut beside beam.
- Available for flat or round power cable.
- Comes complete in kit form:
Flat cable kit—includes flat power cable.
Round cable kit—does not include round power cable.

FLAT CABLE FESTOONING PACKAGE

(Flat cable included)

Cable Size (Gauge)	Length (Ft.)	No. of Carriers	Model Number
12	35	4	HEF-12-35
12	50	6	HEF-12-50

ROUND CABLE FESTOONING PACKAGE

(Cable not included. Order separately.)

No. of Carriers	Length (Ft.)	Model Number
4	35	HER-35
6	50	HER-50

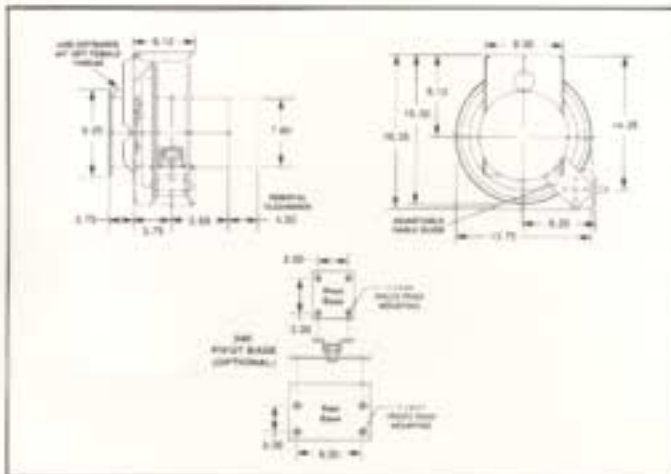
Tow bar not included.

CORD REEL

- Keeps electric power cord instantly available.
- Prevents looping and snarling.
- Cord is held in place by unique locking action.
- NEMA-4 weathertight construction.
- Lock works in any position, and can be fully disengaged for constant-tension use.
- Long life unitized mainspring has simplified tension adjustment.
- Precision collector ring assembly rated to 600 volts.

Cable Size (AWG)	Cable Length (Ft.)	Model Number
No. 14-3 Cond	25	DN-3-25
No. 14-3 Cond	50	DN-3-50
No. 14-4 Cond	25	DN-4-25
No. 14-4 Cond	45	DN-4-45

Note: For optional pivot base order part no. PBI



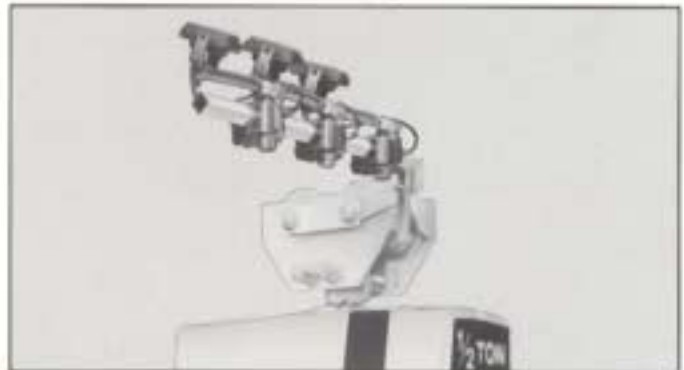
STRAIN CHAIN

- For pendant pushbutton stations.
- Supplements internal strain wire of pushbutton cable for added strength.
- Reduces cable failure caused by excessive flexing.
- Available for all Coffing electrical chain hoists.



CURRENT COLLECTOR MOUNTING ARM

- One-inch-square arm allows mounting of most makes of collectors.
- Mounts to Coffing plain or motorized trolley.
- Can be used to tow festooning.





The Performance Never Quits

When you buy a Coffing hoist you get performance you can count on. Because we back every hoist we sell with a lifetime warranty nobody else can match. Our promise that Coffing hoists will work longer and harder because we build them to last.

Only in a Coffing will you find the

performance that results from 50 years in the hoist business. The kind of performance you get only from a company like Duff-Norton, only from people who are dedicated to giving you products of the highest integrity.

So take control of a Coffing hoist today. And experience the performance of a lifetime.

WARNING: The equipment shown in this catalog is intended for industrial use only and should not be used to lift, support, or otherwise transport people, or to suspend loads over people.

**AVAILABLE FROM YOUR LOCAL
COFFING® DISTRIBUTOR:**

COFFING®

P.O. Box 779 • Country Club Road
Wadesboro, NC 28170 USA

Tel: (800) 477-5003 (704) 694-2156

Fax: (800) 374-6853 (704) 694-6829