

EFFECTIVE: 3-19-2012

ALL PRICES IN U.S. DOLLARS



EXTRA PRICES

XTRA-0312

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EXTRA PRICES

ELECTRIC HOISTS AND TROLLEYS

<u>ITEM NO.</u>	<u>ITEM INDEX</u>	<u>PAGE</u>
1)	CHAIN CONTAINERS (LONG LIFT) Lodestar	7
2)	COILED CORD Lodestar/Powerstar/XL	7
3a)	CONTACTOR, MAINLINE Lodestar	8
3b)	Powerstar/XL	8
4)	CONTACTOR, TROLLEY OR BRIDGE Lodestar/Powerstar/XL	8
5)	CONTROL CIRCUIT, 24 OR 48 VOLT Lodestar/Powerstar	8 & 9
6)	CONTROL CORD Lodestar/Powerstar/XL	9
7)	CONTROL STATION (ADDITIONAL BUTTONS) Lodestar/Powerstar/XL (w/MDT) Lodestar (Pendant) (w/o MDT)	9 10
8)	CONTROL STATIONS (SPECIAL) Lodestar/Powerstar/XL	10
9)	CONTROL TRANSFORMER Powerstar/XL	10
10)	CRATING & PACKAGING (SPECIAL) Lodestar/Powerstar/XL	10
11)	DUAL CONTROL, HOIST/TROLLEY Lodestar/Powerstar/XL	11 & 12
12)	ELECTRICAL INTERLOCK Lodestar/Powerstar/XL	12
13)	EXTENDED ARM (OUTRIGGER) Lodestar/Powerstar/XL	12
14)	EYE BOLT TYPE SUSPENSION Lodestar	12

EXTRA PRICES

<u>ITEM NO.</u>	<u>ITEM INDEX</u>	<u>PAGE</u>
15)	FUNGUS PROTECTION Lodestar/Powerstar/XL	12
16)	HIGH TEMPERATURE MOTOR INSULATION Lodestar/Powerstar/XL	13
17)	LIMIT SWITCHES, LONG LIFT Lodestar/Powerstar/XL	14 & 15
18)	LUG SUSPENSION FOR PATENTED CARRIER Lodestar	15 & 16
19)	MAINTAINED CONTROL Lodestar	16
20)	OVERCURRENT PROTECTION & KLIXON Lodestar/Powerstar/XL	16, 17 & 18
	OVERSIZED BEAMS	
21a)	Lodestar	19 & 20
21b)	Powerstar/XL	21
22)	PAINT (SPECIAL) Lodestar/Powerstar/XL	22
	PATENTED TRACK	
23a)	Lodestar	22
23b)	Powerstar/XL	23
24)	POWER CORD STRAIN RELIEF Lodestar/Powerstar/XL	23
	POWER SUPPLY (SPECIAL)	
25a)	Lodestar	23 & 24
25b)	Powerstar	24
26)	SPACE HEATERS Lodestar/Powerstar/XL	24
27)	TROLLEY ACCELERATION CONTROL Lodestar/Powerstar/XL	25

EXTRA PRICES

<u>ITEM NO.</u>	<u>ITEM INDEX</u>	<u>PAGE</u>
28)	TROLLEY BALLAST RESISTORS Lodestar/Powerstar/XL	25
29)	TROLLEY GUARDS Lodestar	25
30)	TROLLEY TRAVEL LIMIT SWITCHES Lodestar/Powerstar/XL	25
31)	TROLLEY, MOTOR DRIVEN TWO SPEED & OTHER AVAILABLE SPEEDS Lodestar Series 635 Powerstar/XL	26 26 & 27
32)	TOW BAR Lodestar/Powerstar/XL	27
33)	3M PHASE SENSING RELAY Lodestar (3 Phase Only)	27
34)	UNDERSIZE BEAMS Powerstar/XL	27

CM HAND POWER HOISTS

<u>ITEM NO.</u>	<u>ITEM INDEX</u>	<u>PAGE</u>
1)	TROLLEY GUARDS Cyclone Army and LH Trolley Hoists	28
2)	BEYOND STANDARD ADJUSTMENT RANGE (SPECIAL) Cyclone Army Type Trolley Hoist	28
3)	BEYOND STANDARD ADJUSTMENT RANGE (SPECIAL) Low Headroom Trolley Hoist	29
4)	OPERATION ON 3 1/4" OR 3.33" PATENTED TRACK Army Type Trolley Hoist Low Headroom Trolley Hoist	29 29
5)	STAINLESS STEEL LOAD CHAIN Cyclone & Trolley Hoist	29
6)	UNWELDED ALUMINUM HAND CHAIN Cyclone & Trolley Hoist	30

EXTRA PRICES

<u>ITEM NO.</u>	<u>ITEM INDEX</u>	<u>PAGE</u>
7)	UPPER OR LOWER BRONZE HOOK Cyclone & Trolley Hoist	30
8)	ZINC PLATED LOAD CHAIN & HAND CHAIN Cyclone & Trolley Hoist	30
9)	EYE TYPE SUSPENSION Cyclone	
10)	SPECIAL PAINT OR FINISH Cyclone & Trolley Hoist	31
11)	SPECIAL CRATING OR PACKAGING Cyclone & Trolley Hoist	31
12)	SPECIAL TAGS OR I.D. PLATES Cyclone & Trolley Hoist	31
13)	ZINC PLATED LOAD CHAIN Puller/Short Handle Puller	31
14)	STAINLESS STEEL LOAD CHAIN Puller/Short Handle Puller	31
15)	SPECIAL PACKAGING OR HANDLING Puller/Short Handle Puller	32
16)	SPECIAL TAGS OR I.D. PLATES Puller/Short Handle Puller	32
17)	SPECIAL PAINT OR FINISH Puller/Short Handle Puller	32
18)	UPPER OR LOWER BRONZE HOOK Puller/Short Handle Puller	32

CM TROLLEYS

1)	BEYOND STANDARD ADJUSTMENT RANGE Series 632	33
2)	OPTIONAL ACCESSORIES Series 632	33

EXTRA PRICES

SUPPLEMENTAL PRICING

LESS CHAIN PROGRAM FOR LODESTARS	34 & 35
LODESTAR CORROSION-RESISTANT ADDERS	36
CONTROL STATION PARTS	37
BULLARD HOOKS	38
CLEAN ROOM LODESTARS	39 & 40
LODESTARS WITH CREEP CONTROL	41 & 42

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312
EFFECTIVE: 3-19-12

1) **CHAIN CONTAINER - LONG LIFT**

LODESTAR - Apply for lifts other than those listed. 10 inch diameter bucket for close headroom and long lift applications. Brackets included.

***See also User Price Book HFLU-0411**

<u>LENGTH</u>	<u>MODEL</u>	<u>MAX.LIFT</u>	<u>TOTAL PRICE</u>
10 Inch *Code# 2461	A-AA-B-C-F	44'	\$ 454.00
	E - H	22'	
	J-JJ-L-LL	28'	
	R - RR	14'	
	RT - RRT	9'	
15 Inch *Code# 2463	A-AA-B-C-F	104'	\$ 469.00
	E - H	52'	
	J-JJ-L-LL	66'	
	R-RR	33'	
	RT - RRT	22'	
20 Inch *Code# 2464	A-AA-B-C-F	166'	\$ 484.00
	E - H	83'	
	J-JJ-L-LL	106'	
	R-RR	53'	
	RT - RRT	35'	
25 Inch *Code# 2465	A-AA-B-C-F	230'	\$ 499.00
	E - H	115'	
	J-JJ-L-LL	144'	
	R-RR	72'	
	RT - RRT	48'	
30 Inch *Code# 2466	A-AA-B-C-F	290'	\$ 512.00
	E - H	145'	
	J-JJ-L-LL	180'	
	R-RR	90'	
	RT - RRT	60'	

Note: May require counter balancing

POWERSTAR - See HFLU-0411

2) **COILED CORD** - (Power or Control Cord)

LODESTAR/POWERSTAR/XL

4 ft. retracted, 25 ft. extended

Add to user list price of hoist

AWG #16-4 Code 89383	\$ 387.73
AWG #14-4 Code 89384	\$ 465.84

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

3a) **CONTACTOR - MAINLINE (UP TO 4 H.P. - HOIST DUTY)**

LODESTAR

Hoist only	\$	285.65
Hoist with Motor Driven Trolley	\$	776.95

Extra charge includes mainline contactor, control transformer, larger control box (if required), mounting brackets and wiring.

NOTE: Price does not include additional buttons in control station.
Mainline Contactor Only (4 H.P.)

3b) **CONTACTOR - MAINLINE**

POWERSTAR/XL

Add to user list price of hoist

A.	<u>Hoist Duty</u> (Nema 0) Up to 3 H.P. @ 230 Volts Up to 5 H.P. @ 460 volts	\$	1,394.95
B.	<u>Size 1</u> (Nema 1) Up to 7.5 H.P. @ 230 volts Up to 10 H.P. @ 460 volts	\$	1,540.60
C.	<u>Size 2</u> (Nema 2) Up to 15 H.P. @ 230 volts Up to 25 H.P. @ 460 volts	\$	3,949.40

4) **CONTACTOR - REVERSING TROLLEY (CARRIER) OR BRIDGE** - Single
or two speed carrier or bridge

LODESTAR/POWERSTAR/XL

A.	Thru 2 H.P. (Max)	\$	620.65
B.	Over 2 H.P. thru 4 H.P.	\$	927.00

5) **CONTROL CIRCUIT, 24 or 48 VOLT - EXTRA CHARGES AS FOLLOWS**

LODESTAR

HOIST ONLY

	<u>115-1-60</u>	<u>230/460-3-60</u>
A thru H (single speed)	\$90.05	\$90.05
J, L, R & RT (single speed)	\$90.05	\$90.05
JJ, LL, RR, RRT (single speed)	Not Available	\$90.05
Two speed (All Models)	Not Available	\$90.05

ELECTRIC HOISTS AND TROLLEYS

5) **CONTROL CIRCUIT, 24 or 48 VOLT - EXTRA CHARGES AS FOLLOWS** - Cont.

<u>LODESTAR</u>	<u>115-1-60</u>	<u>230/460-3-60</u>
M.D.T. ONLY	\$ 49.15	\$ 49.15

Extra charge for modified control circuit includes special contactor, transformer, speed selecting relay (for two speed hoists), miscellaneous wiring and hardware.

<u>POWERSTAR/XL</u>		
HOIST ONLY	(1 or 2 speed standard voltages)	\$ 146.75
M.D.T. ONLY	(1 or 2 speed standard voltages)	\$ 53.85

Extra charge for modified control circuit includes special contactor, transformer, speed selecting relay (for two speed units), miscellaneous wiring and hardware.

6) **ADDITIONAL CONTROL CABLE** - Extra charges beyond standard 6 ft. drop

LODESTAR/POWERSTAR/XL

<u>CONTROL CORD</u>	<u>EXTRA PER FT.</u>
AWG #16-8	\$ 13.40
AWG #16-10	\$ 15.35
AWG #16-12	\$ 16.95
AWG #16-14	\$ 18.90

7a) **ADDITIONAL BUTTONS IN CONTROL STATION (NEMA 3R)**

LODESTAR/POWERSTAR/XL

Add to user list price of motor driven trolley

A.	Two extra single speed buttons	\$ 217.10
B.	Two extra two speed buttons	\$ 265.50
C.	On/Off (for mainline disconnect)	\$ 220.15
D.	Mushroom	\$ 215.55
E.	Key Selector	APPLY
F.	3-Position Selector	APPLY

Extra charge includes larger cables, chain strain relief and mounting hardware (mainline or bridge contactor(s) not included)

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

7b) **ADDITIONAL BUTTONS FOR MULTI-FUNCTION CONTROL STATIONS,
PENDANT FROM HOIST - HOIST LESS MDT**

LODESTAR

Add to User List Price of hoist.

ALL MODELS

A.	2 additional single speed buttons	\$	161.00
B.	2 additional 2 speed buttons	\$	367.95
C.	On/Off momentary (for mainline contactor)	\$	367.95

Extra charge includes special wiring diagram, reworked end cover, 3 ft. tag lead out of hoist and chain strain relief (relays and reversing contactors and larger transformers [25 VA standard] not included).

8) **SURFACE MOUNTED CONTROL STATION - CAST STEEL OR STAINLESS STEEL**

LODESTAR/POWERSTAR/XL

Push buttons marked up and down, or forward and reverse, or both.

	<u>2 Button</u>	<u>4 Button</u>
All single speed, standard lift models	APPLY	APPLY
For two speed - APPLY		

9) **CONTROL TRANSFORMER** - For additional control functions

LODESTAR/POWERSTAR/XL

Add to user list price of hoist.

A.	100 VA	\$	968.80
B.	250 VA	\$	1,231.50

10) **CRATING AND PACKAGING**

LODESTAR/POWERSTAR/XL

Other than standard factory packaging, apply for pricing. APPLY

ELECTRIC HOISTS AND TROLLEYS

11) **DUAL HOIST/TROLLEY CONTROL**

LODESTAR/POWERSTAR/XL

A. TWO HOISTS CONTROLLED FROM ONE PENDANT CONTROL STATION

Push buttons marked Hoist Up and Hoist Down, selector switch marked Hoist #1, Hoist #2 and both.

Add to user list price of each hoist.

All single speed models with contactor	\$ 753.00
All two speed models	\$ 1,506.00

Price includes hoist isolating contactor, transformer (mounted in box), hoist speed selecting relay (for 2 speed units), weatherproof electrical enclosure, #16-8 control station cable (for single speed hoists) or #16-10 control station cable (for two speed units) chain strain relief and hardware.

Control station is pendant from electrical enclosure and control cord length is based on 10 ft. hoist lift. For longer control cord add:

<u>CONTROL CORD</u>	<u>EXTRA PER FT.</u>
AWG #16-10	\$ 15.35

Standard distance between hoists is 10 ft. for each additional foot of distance add:

<u>CONTROL & POWER CORDS</u>	<u>EXTRA PER FT.</u>
Single or two speed models	\$ 24.80

B. TWO HOISTS AND TWO MOTOR DRIVEN TROLLEYS CONTROLLED FROM

ONE PENDANT CONTROL STATION - Push buttons marked Hoist Up and Hoist Down, Trolley Forward and Trolley Reverse, selector switch marked Hoist #1, Hoist #2, and both, Trolley #1, Trolley #2 and both

Add to user list price of each hoist and trolley.

All single speed models with contactor	\$ 1,118.95
All two speed models	\$ 2,240.80

Price includes weatherproof electrical enclosure, transformer, hoist isolating contractor, trolley isolating contactor, hoist speed selecting relay (for 2 speed units), larger control cables for additional control functions, chain strain relief & hardware.

Control station is pendant from electrical enclosure and control cord length is based on 10 ft. hoist lift. For longer control cord add:

<u>CONTROL CORD</u>	<u>EXTRA PER FT.</u>
AWG #16-14	\$ 18.90

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

11) **DUAL HOIST/TROLLEY CONTROL** - Cont.

Standard distance between hoists is 10 ft. for each additional foot of distance add:

CONTROL & POWER CORDS

Single or two speed models

EXTRA PER FT.

\$ 43.60

12) **ELECTRICAL INTERLOCK**

LODESTAR/POWERSTAR/XL - Additional normally closed contacts installed in the hoist or trolley to prevent both hoisting and lowering or trolley forward and reverse circuits to become energized simultaneously.

Add to each contactor

\$ 137.10

13) **EXTENDED ARM FOR CONTROL STATION** (Outrigger)

1 4 ft. or 5 ft. extension.

LODESTAR/POWERSTAR/XL

Add to user list price of hoist or motor driven trolley.

\$ 1,205.95

Price includes counterweights and anti-tipping rollers (if required). Add for extra control cord as required.

Can also offer 180° pivot - need to specify length required from center web of beam.

APPLY

14) **EYEBOLT TYPE SUSPENSION (TO REPLACE UPPER HOIST HOOK)**

Add to user list price of hoist with standard rigid hook suspension

LODESTAR

Maximum 2 ton Capacity

\$ 1,035.55

15) **FUNGUS PROTECTION** - To protect hoist or trolley components from humid atmospheres (special varnish spray for various electric components).

LODESTAR/POWERSTAR/XL

A. Hoist only - Add to user list price of hoist

\$ 224.45

B. Trolley only - Add to user list price of trolley

\$ 173.95

NOTE: Also add weatherproofing extra from sales literature if not standard

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

16) **HOIST OR TROLLEY HIGH TEMPERATURE SERVICE** - (Special motor insulation)

A. **LODESTAR**

Add to user list price of hoist or trolley

Hoist

Class F - Standard (rated at 135°C)	STANDARD
Class H (rated at 155°C)	\$ 662.55

Trolley

Class F - Standard (rated at 135°C)	STANDARD
Class H (rated at 155°C)	\$ 662.55

B. **POWERSTAR**

Add to user list price of hoist or trolley

Hoist

Class F - Standard (rated at 135°C)	STANDARD
Class H (rated at 155°C)	\$ 2,185.95

Trolley

Class F (rated at 135°C)	STANDARD
Class H (rated at 155°C)	\$ 779.85

C. **LODESTAR XL**

Add to user list price of hoist or trolley

Hoist

Class F - Standard (rated at 135°C)	STANDARD
Class H (rated at 155°C)	\$ 1,183.35

Trolley

Class F (rated at 135°C)	STANDARD
Class H (rated at 155°C)	\$ 899.85

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

17) **LONG LIFT LIMIT SWITCHES**

LODESTAR - Apply for lifts longer than those listed.

<u>HOIST MODEL (1 & 2 SPEED)</u>	<u>LIFT RANGE FT.</u>	<u>EXTRA CHARGE</u>
A & C	0 to 204	N/C STANDARD
A & C	205 to 297	\$ 104.85
AA	0 to 385	N/C STANDARD
AA	386 to 560	\$ 104.85
B	0 to 102	N/C STANDARD
B	103 to 148	\$ 104.85
E & H	0 to 47	N/C STANDARD
E & H	48 to 68	\$ 104.85
F	0 to 102	N/C STANDARD
F	103 to 148	\$ 104.85
J	0 to 125	N/C STANDARD
J	126 to 182	\$ 104.85
JJ	0 to 254	N/C STANDARD
JJ	255 to 370	\$ 104.85
L	0 to 125	N/C STANDARD
L	126 to 182	\$ 104.85
LL	0 to 254	N/C STANDARD
LL	255 to 370	\$ 104.85
R	0 to 66	N/C STANDARD
R	67 to 96	\$ 104.85
RR	0 to 125	N/C STANDARD
RR	126 to 182	\$ 104.85
RT	0 to 44	N/C STANDARD
RT	45 to 64	\$ 104.85
RRT	0 to 83	N/C STANDARD
RRT	84 to 121	\$ 104.85

NOTE: Above extra charge is for finer thread 56 or 64 limit switch shaft and traveling nuts.
Hoist duty cycle must be considered if repetitive lifting is required

Also, coarser 28 thread limit switch shaft and traveling nuts are available to provide finer adjustment for close headroom applications. These 28 thread limits reduce lift range to one half the long lift ranges shown above.

EXTRA CHARGE
\$ 104.85

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

17) LONG LIFT LIMIT SWITCHES Cont.

POWERSTAR

2 & 3 Ton - up to 199 ft. lift.

4, 5, & 6 Ton - up to 99 ft. lift

EXTRA CHARGE

N/C STANDARD

N/C STANDARD

2 & 3 Ton - over 199 ft. but less than 289 ft.

4, 5 & 6 Ton - over 99 ft. but less than 144 ft.

7 1/2 - 10 Ton - over 66 ft. but less than 96 ft.

12 Ton - over 40 ft. but less than 72 ft.

15 Ton - over 39 ft. up to 57 ft.

\$ 104.85

Above extra charge is for finer thread 56 or 64 limit switch shaft and traveling nuts.

Hoist duty cycle must be considered if repetitive lifting is required

Longer Lifts

APPLY

LODESTAR XL

Capacity	Reeving	Speed	Lift Range Ft.
2 ton	Single	18 fpm	121 - 174
2 ton	Single	24 fpm	131 - 189
2 ton	Single	30 fpm	213 - 308
3 ton	2-part	9 fpm	61 - 87
3 ton	2-part	12 fpm	66 - 94
3 ton	2-part	15 fpm	107 - 154
4 ton	2-part	9 fpm	61 - 87
4 ton	2-part	12 fpm	66 - 94
4 ton	2-part	15 fpm	107 - 154
5 ton	2-part	9 fpm	61 - 87
5 ton	2-part	12 fpm	66 - 94
5 ton	2-part	15 fpm	107 - 154
5 ton	3-part	6 fpm	41 - 58
5 ton	3-part	8 fpm	44 - 62
6 ton	3-part	6 fpm	41 - 58
6 ton	3-part	8 fpm	44 - 62
6 ton	3-part	10 fpm	72 - 103
7.5 ton	3-part	6 fpm	41 - 58
7.5 ton	3-part	10 fpm	72 - 103

\$ 104.85

Above extra charge is for finer thread 56 or 64 limit switch shaft and traveling nuts.

Hoist duty cycle must be considered if repetitive lifting is required

Longer Lifts

APPLY

18) LUG SUSPENSION FOR PATENTED CARRIERS

LODESTAR

LUG SUSPENSION FOR AMERICAN MONORAIL CARRIERS - Add to

"Hoist Only" Column in HFLU price sheet.

LIST PRICE EA.

Models A-AA-B-C-F on A-167 Load Bar

Code 2780

APPLY

Models E-H on A-212 Load Bar

Code 2781

APPLY

Models A-AA-B-C-F on A-212 Load Bar

Code 2791

APPLY

Models J-L-JJ-LL on A-212 Load Bar

Code 3618

APPLY

Models R-RR on A-215 Load Bar

-

APPLY

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

18) **LUG SUSPENSION FOR PATENTED CARRIERS** Cont.

LODESTAR

LUG SUSPENSION FOR CLEVELAND TRAMRAIL CARRIERS - Add to

"Hoist Only" Column in HFLU price sheet.

LIST PRICE EA.

Models A-AA-B-C-F on 2K-8780 Load Bar	Code 2794	APPLY
Models E-H on 2K-8780 Load Bar	Code 2795	APPLY
Models J-JJ on 2K-8780 Load Bar	Code 3620	APPLY
Models A-AA-B-C-F on 3K-7143 Load Bar	Code 2786	APPLY
Models J-L-JJ-LL on 3K-7143 Load Bar	Code 3621	APPLY
Models E-H on 3K7143 Load Bar	Code 2787	APPLY
Models R-RR on 3K-7143 Load Bar	Code 3637	APPLY

LUG SUSPENSION FOR PATENTED CARRIERS

EXTRA CHARGE

Models RT-RRT

APPLY

Manufacturer, Carrier Model Number and Load Bar
NOTE: Number, and/or Load Bar Details must be submitted.
(Special)

19) **MAINTAINED CONTROL (AUTOMATIC HOOK TRAVEL IN TWO DIRECTIONS)**

LODESTAR

The hoist must have a contactor which is equipped with auxiliary contacts (electrical interlock - n.o. contacts), used in conjunction with a three button control station (or stations if more than one control point is desired). For **dumbwaiter** applications, the protector gear must be replaced by a solid intermediate gear and hoist be equipped with rigid type suspension.

Push buttons are normally marked "Stop, Up and Down"

Add to user list price of hoist

NO LONGER AVAILABLE

The above price includes a single 3 button station, surface mounted type.

20) **OVERCURRENT PROTECTION - HOIST OR TROLLEY**

LODESTAR *NOTE: STANDARD ON NEXT GENERATION LODESTAR HOIST ONLY

A. **THERMAL PROTECTION** - thermal overload device
(Klixon) in motor winding

Add to user list price of hoist or trolley

\$ 53.50

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

20) **OVERCURRENT PROTECTION - HOIST OR TROLLEY** Cont.

B. **MOTOR THERMAL OVERLOAD RELAYS (T.O.R.)
(AUTOMATIC RESET) FOR OVERCURRENT PROTECTION**

To protect motors against excessive voltage drop and current draw
(1 relay required for single speed motor, 2 relays for 2 speed motor)

1. For hook, lug or low headroom trolley
suspension - Add to User List Price of hoist:

All 3 phase single speed models (1 relay)	\$	907.00
All 2 speed models (2 relays)	\$	1,186.65

Price includes box, straps, brackets for mounting outside hoist and wiring.

2. For M.D.T. suspensions - Add to User List Price of trolley:

3 phase - M.D.T. only (1 relay)	\$	260.55
3 phase single speed hoist with M.D.T. (2 relays)	\$	521.05
Two speed hoist with M.D.T. (3 relays)	\$	781.55

Price includes larger control box, mounting brackets and wiring.

C. **MOTOR OVERCURRENT PROTECTION (REPLACEABLE FUSES)
SINGLE OR 3 PHASE**

Set of fuses to protect each motor against voltage drop and
excessive current draw.

1. For hook, lug or low headroom trolley suspension -
Add to User List Price of hoist:

Models A thru H - Single phase (2 fuses)	\$	716.80
Three phase - Single speed (3 fuses)	\$	733.40
Three phase - Two speed (6 fuses)	\$	781.55

Price includes box, straps, brackets for mounting outside hoist and wiring.

Trolley Mounted Only

Models J, L, R & RT - Single phase (2 fuses)	\$	521.05
Models J thru RRT - Three phase -		
Single speed (3 fuses)	\$	546.60
Two speed (6 fuses)	\$	599.35

Note: External box is required - fuses are mounted inside box.

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

20) **OVERCURRENT PROTECTION - HOIST OR TROLLEY** Cont.

POWERSTAR/XL

- A. **THERMAL PROTECTION** - Thermal overload device (Klixon)
in motor winding is standard on Powerstar and XL. STANDARD

- B. **MOTOR THERMAL OVERLOAD RELAYS (T.O.R.)
(AUTOMATIC RESET) FOR OVERCURRENT PROTECTION**

To protect motors against voltage drop and excessive current draw
(1 relay required for single speed motor, 2 relays for 2 speed motor)

Add for first relay	\$	822.05
Add for each additional relay	\$	411.10

- C. **MOTOR OVERCURRENT PROTECTION (REPLACEABLE FUSES)**

Set of fuses to protect each motor against voltage drop and excessive
current draw. (3 fuses required for single speed motor - 6 fuses for
2 speed motor)

Add for first set of 3 fuses	\$	548.10
Add for each additional set of fuses	\$	161.95

- D. **SHORT CIRCUIT PROTECTION** - Set of 3 replaceable fuses
in power line to protect entire hoist or trolley circuitry (or both)
against electrical short circuit.

Add for set of 3 fuses	\$	394.80
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- E. **CONTROL CIRCUIT OVERCURRENT PROTECTION
(TRANSFORMER FUSING)**

Add for each transformer	\$	120.15
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Price includes one fused leg and one grounded leg to
protect hoist or trolley control circuit.

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

21a OVERSIZED BEAMS

LODESTAR

A. **LOW HEADROOM TROLLEY**

Add to list price of trolley for larger than standard flange widths.

<u>CAPACITY</u>	<u>LARGER "S" BEAMS</u>	<u>WF SHAPES</u>	<u>EXTRA CHARGE</u>	
Up to 1 Ton	Over 5 5/8" thru 7 1/4"	Over 5 13/16" thru 6 13/16"	\$	73.20

SPECIFY STANDARD CODE #3588

Above are maximum obtainable flange widths. Extra charge is for larger load bracket and longer suspension bolts.

2 Ton	Over 6" thru 8"	Over 5 13/16" thru 8 1/16"	\$	93.90
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Extra charge is for larger load bracket and longer suspension bolts. SPECIFY STANDARD CODE #3570

2 Ton	-	Over 8 1/16" thru 10 9/16"	\$	203.70
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10 9/16" maximum obtainable flange width. Extra Charge is for larger load bracket, longer suspension bolts and modified side frames (addition of spacer block for support.

3 Ton	Over 5 5/8" thru 7 1/4"	Over 5 7/16" thru 7 5/16"	\$	151.10
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Extra charge is for longer suspension bolts and larger load bracket.

3 Ton	Over 7 1/4" thru 8"	Over 7 5/16" thru 8 15/16"	\$	340.15
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-	Over 9 1/16" thru 10 1/2"	\$	751.50
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10 1/2" is maximum obtainable flange width. Extra charge is for longer suspension bolts and modified side frames (addition of spacer block for support and machined steel load bracket) - Special.

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

21a **OVERSIZED BEAMS** Cont.

LODESTAR

B. SERIES 635 MOTOR DRIVEN TROLLEY

Add to list price of Motor Driven Trolley for larger than standard flange widths.

<u>CAPACITY</u>	<u>LARGER "S" BEAMS</u>	<u>WF SHAPES</u>	<u>EXTRA CHARGE</u>	
Up to 2 Tons	Over 5 5/8" thru 8"	Over 5 7/16" thru 8 3/16"	\$	94.75

Extra charge is for larger load bracket and longer suspensions bolts.

Up to 2 Tons	-	Over 8 3/16" thru 10 1/4"	\$	465.15
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10 1/4" is maximum obtainable flange width. Extra charge is for larger load bracket, longer suspension bolts and modified side frames (addition of spacer block for support).

3 Ton	Over 5 5/8" thru 7 1/4"	Over 5 7/16" thru 7 1/16"	\$	168.25
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Extra charge is for longer suspension bolts and larger load bracket.

3 Ton	Over 7 1/4" thru 8"	Over 7 5/16" thru 9 1/8"	\$	367.45
	—	Over 9 1/8" thru 10 1/2"	\$	751.50

10 1/2" maximum obtainable flange width. Extra Charge is for longer suspension bolts, modified side frames (addition of spacer block for support and machined steel load bracket) - Special.

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

21b **OVERSIZED BEAMS**

POWERSTAR/XL

Add to list price of trolley or hoist with trolley.

CAPACITY

<u>TONS</u>	<u>LARGER "S" BEAMS</u>	<u>WF SHAPES</u>	<u>EXTRA CHARGE</u>
2 Ton	Over 5 1/2"	Over 5 5/16"	\$ 156.70
Powerstar and XL	thru 7 5/8"	thru 7 7/16"	

Extra charge is for longer suspension bolts and modified frames.
(Addition of spacer block for support).

2 Ton			
Powerstar and XL	Over 7 5/8"	Over 7 7/16"	\$ 332.15
	thru 8"	thru 9 9/16"	
	—	Over 9 9/16"	\$ 1,083.60
		thru 13 5/8"	

13 5/8" is maximum obtainable flange width. Extra Charge is for longer suspension bolts and modified side frames, (Addition of spacer block for support) - Special.

3 to 6			
Powerstar Only	Over 6 1/4"	Over 6 1/16"	\$ 156.70
	thru 7 5/8"	thru 7 7/16"	

Extra Charge is for longer suspension bolts and modified side frames
(Larger spacer block for support).

3 to 6			
Powerstar Only	Over 7 5/8"	Over 7 7/16"	\$ 365.65
	thru 8"	thru 8 13/16"	
	—	Over 8 13/16"	\$ 751.50
		thru 10 3/4"	

Extra charge is for longer suspension bolts and modified side frames.
(Larger spacer block for support) - Special. Apply for larger than 10 3/4"

7 1/2 Ton			
Powerstar Only	Over 7 1/2"	Over 7 5/16"	\$ 522.00
	thru 8"	thru 8 13/16"	
	—	Over 8 13/16"	\$ 751.50
		thru 10 1/2"	

9 - 10			
Powerstar Only	—	Over 7 13/16"	\$ 588.00
		thru 8 13/16"	
	—	Over 8 13/16"	\$ 722.60
		thru 10 1/2"	

Extra charge is for longer suspension bolts and modified side frames.
(Larger spacer block for support) - Special.

12 - 15			
Powerstar Only	-	Over 8 13/16"	\$ 1,083.60
		thru 10 1/2"	

Extra charge is for longer suspension bolts and modified side frame.
(Larger spacer block for support) - Special.

ELECTRIC HOISTS AND TROLLEYS

22) **SPECIAL PAINT OR FINISH**

LODESTAR/POWERSTAR/XL

Other than standard factory finish, apply for pricing.

APPLY

23a **PATENTED TRACK**

LODESTAR

A. **LOW HEADROOM TROLLEY**

Standard trolleys up to 2 ton capacity will operate on patented track with 3.33" or 3 1/4" flange widths, but may not negotiate smaller radius curves, switches, interlocks or splice plates.

NOTE:

A rigid lug for a MDT must be used to join hoist to special low headroom trolley.

For operation on 2", 3.33" or 3 1/4" patented track using flat tread wheels (if desired). Add to user list price of low headroom trolley:

CAPACITY

(TONS)

2" FLANGE

*1	\$1,105.20
2	\$660.90
3	N/A

3.33" OR 3 1/4" FLANGE

1	\$781.20
2	\$336.10
3	\$171.45

Extra charge is for plain type Motor Driven Trolley (1/8 - 2 Ton) with modified side frames and flat tread trackwheels (customer responsible for counterweighting if required) - Special.

* Requires 2 ton load bracket and MDT lug. Lug must be ordered separately.

B. **SERIES 635 MOTOR DRIVEN TROLLEY**

Standard trolleys up to 2 ton capacity will operate on patented track with 3.33" or 3 1/4" flange widths, but may not negotiate smaller radius curves, switches, interlocks or splice plates. Also this trolley is not suitable for operation on Cleveland Tramrail "2100" Rail.

For operation on 2", 3.33" or 3 1/4" patented track using flat tread wheels. Add to user list price of motor driven trolley.

CAP

(TONS)

2" FLANGE

Up to 2	\$552.05
3	N/A

3.33" OR 3 1/4" FLANGE

Up to 2	\$170.05
3	\$170.05

Extra charge is for modified side frames and flat tread trackwheels (customer responsible for counterweighting if required) - Special

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

23b **PATENTED TRACK** - with 3.33" or 3 1/4" flange widths

POWERSTAR/XL

Standard trolleys up to 2 ton will operate on patented track with 3.33" or 3 1/4" flange widths but are not suitable for operation on Cleveland Tramrail "2100" Rail. The 3 thru 5 ton must be modified in order to operate on patented track with 3.33" or 3 1/4" flange widths, and are not suitable for operation on Cleveland Tramrail "2100" Rail or Loudon "Supertrack."

23b **PATENTED TRACK** - with 3.33" or 3 1/4" flange widths - Cont.

POWERSTAR/XL

NOTE: Trolley may not negotiate smaller radius curves, switches, interlocks or splice plates.

Add to list price of trolley or hoist with trolley

1.	Up to 2 ton	Powerstar and XL		N/C
2.	3 thru 6 ton	Powerstar Only	\$	355.95

Extra charge is for 3 thru 6 ton, includes shorter suspension bolts, modified side frames and flat tread wheels.

24) **POWER CORD STRAIN RELIEF**

LODESTAR/POWERSTAR/XL

	Add	\$	66.02
NOTE:	Specify Code 68695 on order.		

25a **SPECIAL POWER SUPPLIES**

LODESTAR

A. HOIST ONLY

Add to user list price of standard 115-1-60 hoist
(single speed units only)

Models A thru H, J, L, R & RT

<u>115-1-50</u>	<u>208-1-60</u>	<u>230-1-60</u>	<u>230-1-50</u>
\$ 46.45	\$ 46.45	\$ 46.45	\$ 46.45

Add to user list price of standard 230/460-3-60 hoist
All models single or two speed

<u>575-3-60</u>	<u>208-3-60</u>	<u>380-3-50</u>	<u>230-3-50</u>	<u>380-3-60</u>
No Charge	Standard Hoist *	Standard Hoist *	Standard Hoist *	\$ 253.70

* No extra charge for special power supply when noted as "Standard Hoist"
Please note, however, that hoist motor provided will be 230V or 460V nominal

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

25a **SPECIAL POWER SUPPLIES** - Cont.

LODESTAR

B. **M.D.T. ONLY**

Add to user list price of standard motor driven trolley.

<u>115-1-50</u>	<u>208-1-60</u>	<u>230-1-60</u>	<u>230-1-50</u>	<u>380-3-60</u>
\$ 50.00	\$50.00	\$ 50.00	\$50.00	\$ 253.70

<u>208-3-60</u>	<u>380-3-50</u>	<u>575-3-60</u>	<u>230-3-50</u>
Standard Trolley *	Standard Trolley *	\$ 47.85	Standard Trolley *

* No extra charge for special power supply when noted as "Standard Trolley"
Please note, however, that hoist motor provided will be 230V or 460V nominal

25b **POWERSTAR**

A. **HOIST ONLY**

Add to user list price of hoist

<u>208-3-60</u>	<u>380-3-50</u>	<u>575-3-60</u>
Standard Hoist *	Standard Hoist *	\$ 186.15

Extra charge is for additional motor, transformer and brake coil if applicable.

B. **M.D.T. ONLY**

Add to user list price of standard motor driven trolley.

<u>208-3-60</u>	<u>380-3-50</u>	<u>575-3-60</u>
Standard Trolley *	Standard Trolley *	\$ 186.15

* No extra charge for special power supply when noted as "Standard Hoist" or "Standard Trolley"
Please note, however, that hoist or trolley motor provided will be 230V or 460V nominal

26) **SPACE HEATERS**

LODESTAR/POWERSTAR/XL

Add to user list price of hoist \$ 1,088.90

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

27) **TROLLEY ACCELERATION CONTROL DEVICE - (SOFT START) (3 PHASE ONLY)**

LODESTAR/POWERSTAR/XL

Add to user list price of M.D.T. \$ 510.70

Price includes larger control box for mounting acceleration control device and miscellaneous wiring.

28) **TROLLEY BALLAST RESISTORS** - Set of 3 in a ventilated enclosure for cushioned start of Motor Driven Trolley (3 phase).

LODESTAR/POWERSTAR/XL

Add to list price of trolley. \$ 780.10

29) **TROLLEY GUARDS**

LODESTAR

LOW HEADROOM & SERIES 635 MDT

Trolley guards are sections of steel welded to the four ends of the trolley side frames forming bumpers. Side frames must be modified prior to assembly.

Add to list price of Low Headroom or M.D.T. \$ 45.70

30) **TROLLEY TRAVEL LIMIT SWITCHES**

LODESTAR/POWERSTAR/XL

Add to list price of trolley \$ 1,989.90

Extra charge is for mounting and wiring two roller type limit switches (one forward, one reverse) to trolley side frame. Customer to fabricate and install actuator on beam or track to trip switches. CM will provide details for fabricating and installing actuators.

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

31) ADDITIONAL AVAILABLE MOTOR DRIVEN TROLLEY SPEEDS

LODESTAR SERIES 635

CAPACITY (TONS)	SPEED (FPM)	ADD TO USER LIST PRICE
1/8 - 3	15	\$ 158.65
	25	\$ 158.65
	50	\$ 158.65

POWERSTAR/XL

	CAPACITY (TONS)	SPEED (FPM)	ADD TO USER LIST PRICE
Powerstar and XL	1/2 - 2	17 1/2	\$ 1,262.80
		35	\$ 168.20
		35/17 1/2	\$ 1,380.90
		50	\$ 168.20
		50/25	\$ 1,489.75
		65/32	\$ 1,286.70
		100/50	\$ 1,051.00
		150	\$ 477.30
		150/75	\$ 1,286.70
Powerstar Only	3 - 6	17 1/2	\$ 2,135.35
		25	\$ 168.20
		35	\$ 168.20
		50/25	\$ 1,286.70
		65	\$ 168.20
		65/32	\$ 1,286.70
		75	\$ 477.30
		75/37	\$ 1,286.70
Powerstar Only	3 Ton (Only)	100	\$ 477.30
		100/50	\$ 1,286.70
		150	\$ 764.05
Powerstar Only	7 1/2	17 1/2	\$ 194.20
		25	\$ 194.20
		35	\$ 194.20
		35/17 1/2	\$ 1,286.70
		50	\$ 477.30
		50/25	\$ 1,582.60
Powerstar Only	9	17 1/2	\$ 196.35
		35/17 1/2	\$ 1,286.70
		50	\$ 477.30
		50/25	\$ 1,286.70

ELECTRIC HOISTS AND TROLLEYS

XTRA-0312

EFFECTIVE: 3-19-12

31) **ADDITIONAL AVAILABLE MOTOR DRIVEN TROLLEY SPEEDS** Cont.
POWERSTAR/XL Cont.

	CAPACITY (TONS)	SPEED (FPM)	ADD TO USER LIST PRICE
Powerstar Only	10 & 12	17 1/2	\$ 187.10
		35/17 1/2	\$ 1,286.70
		50	\$ 477.30
		50/25	\$ 1,286.70
Powerstar Only	15	17 1/2	\$ 187.10
		35/17 1/2	\$ 1,286.70

32) **TOW BAR**

LODESTAR/POWERSTAR/XL

A tow bar or spacer bar for tandem arrangement of two trolleys on same beam.
(Up to 10 ft. - specify distance between hooks)

Add to list price of low headroom or motor driven trolley \$ 1,311.80

33) **3M PHASE SENSING RELAY**

LODESTAR (3 Phase Only)

NOTE: Same price for factory installed when ordering Lodestar hoist for
3M Company or for field retrofit kits:

#2890 for Lodestar V1 (Small Frame)	\$ 245.00
#3690 for Lodestar V2 (Large Frame)	\$ 236.00

34) **UNDERSIZED BEAMS**

POWERSTAR

**TROLLEY OPERATION ON S8 X 18.4 (4" FLANGE) THRU S10 X 35
(5" FLANGE) BEAMS**

Add to list price of trolley or hoist with trolley

3 thru 6 Ton \$ 98.00

Extra charge includes shorter suspension bolts and modified side frames.

CM HAND POWER HOISTS

1) **CYCLONE ARMY & LOW HEADROOM TROLLEY HOIST W/TROLLEY GUARDS**
(SPECIAL)

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
1/4, 1/2 & 1 Ton	\$ 69.55
1 1/2 & 2 Ton	\$ 140.90
3 & 4 Ton	\$ 169.70
5 & 6 Ton	\$ 221.90
8, 10 & 12 Ton (Army Only)	\$ 304.70

2) **CYCLONE ARMY TYPE TROLLEY HOIST - BEYOND STANDARD ADJUSTMENT**
RANGE (SPECIAL)

<u>CAP.(TONS)</u>	<u>LARGER "S" BEAMS</u>	<u>WF SHAPES</u>	<u>EXTRA CHARGE</u>
1/4, 1/2 & 1	Over 5 1/2"	Over 5 5/16"	\$ 532.30
	thru 7 5/8"	thru 7 7/16"	
	Over 7 5/8"	Over 7 7/16"	\$ 1,584.10
	thru 8"	thru 10"	
		Over 10"	APPLY
		thru 13 5/8"	
1-1/2 & 2	Over 5 5/8"	Over 5 7/16"	\$ 532.30
	thru 8"	thru 7 13/16"	
		Over 7 13/16"	\$ 1,023.70
		thru 10 1/2"	
		Over 10 1/2"	APPLY
		thru 13 5/8"	
3 & 4	Over 5 5/8"	Over 5 7/16"	\$ 2,450.90
	thru 8"	thru 7 13/16"	
		Over 7 13/16"	\$ 2,450.90
		thru 10 1/2"	
		Over 10 1/2"	APPLY
		thru 13 5/8"	
5 & 6	Over 6 3/8"	Over 6 3/8"	\$ 713.70
	thru 8"	thru 8 5/8"	
		Over 8 5/8"	\$ 2,450.90
		thru 10 1/2"	
		Over 10 1/2"	APPLY
		thru 13 5/8"	
8, 10 & 12	-	Over 7 13/16"	\$ 2,741.95
		thru 13 5/8"	

CM HAND POWER HOISTS

3) **LOW HEADROOM TROLLEY HOIST**

TROLLEY HOISTS - BEYOND STANDARD ADJUSTMENT RANGE (SPECIAL)

<u>CAP.(TONS)</u>	<u>LARGER "S" BEAMS</u>	<u>WF SHAPES</u>	<u>EXTRA CHARGE</u>	
1/2 & 1	Over 5" thru 5 1/2"	Over 4 13/16" thru 5 5/16	\$	469.00
1 1/2, 2 & 3	Over 5 1/2" thru 6"	Over 5 5/16" thru 5 13/16"	\$	747.00
4, 5 & 6	Over 7" thru 7 7/8"	Over 6 13/16" thru 7 11/16"	\$	1,109.65

NOTE: Flange widths are maximum obtainable due to trolley side frames hitting handwheel cover.

4) **FLANGE ARMY TYPE TROLLEY HOIST & LOW HEADROOM TROLLEY HOIST - FOR OPERATION ON 3 1/4" OR 3.33" PATENTED TRACK (SPECIAL)**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
1/4 & 1/2 & 1 Ton	N/C
1 1/2 & 2 Ton (Army)	N/C Uses Standard
(Low Headroom Trolley)	N/C Wheels
3, 4, 5 & 6 Ton	APPLY (Uses flat tread wheels)
8, 10 & 12 Ton	APPLY

5) **CYCLONE & TROLLEY HOIST - STAINLESS STEEL LOAD CHAIN**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
1/4 & 1/2 Ton	\$33.50 /Ft. Lift
1 Ton	\$46.95 /Ft. Lift
1 1/2 thru 12 Ton	N/A

NOTE: When 1 ton Cyclone is furnished with Stainless Steel Load Chain, the design factor is 4:1 which conforms with specifications of ASME B30.16, but does not conform with the normal Columbus McKinnon imposed 5:1 design factor for these products when furnished with our standard Disc Grade Load Chain.

CM HAND POWER HOISTS

6) **CYCLONE & TROLLEY HOIST - UNWELDED ALUMINUM HAND CHAIN**

	<u>EXTRA CHARGE</u>
All Capacities (Hoist & Trolley)	\$ 5.30 /Ft. HC Drop

7) **CYCLONE & TROLLEY HOIST - UPPER OR LOWER BRONZE HOOK**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
1/4 & 1/2 Ton	\$ 393.15
1 Ton	\$ 1,335.70
1 1/2 & 2 ton	\$ 2,738.75
3 ton	APPLY
4 & 5 Ton	APPLY
6 thru 12 Ton	APPLY

8) **CYCLONE & TROLLEY HOIST - ZINC PLATED LOAD CHAIN & HAND CHAIN**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
1/4 & 1/2 ton	\$0.95 /Ft. Lift
1 Ton	\$0.75 /Ft. Lift
1 1/2 & 2 Ton	\$0.85 /Ft. Lift
3 & 4 Ton	\$1.70 /Ft. Lift
5 & 6 Ton	\$2.55 /Ft. Lift
8 ton	\$3.40 /Ft. Lift
10 ton	\$4.25 /Ft. Lift
Hand Chain	\$0.10 /Ft. HC Drop

9) **CYCLONE - EYE TYPE SUSPENSION**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
1/4, 1/2 & 1 Ton	\$ 622.10
1 1/2 & 2 Ton	\$ 749.85
3 & 4 Ton	\$ 770.50
5 Ton	\$ 812.05
6 thru 10 Ton	APPLY

CM HAND POWER HOISTS

10) **CYCLONE & TROLLEY HOIST - SPECIAL PAINT OR FINISH OTHER THAN STANDARD FACTORY FINISH (SPECIAL)**

All Capacities APPLY

11) **CYCLONE & TROLLEY HOIST - SPECIAL CRATING OR PACKAGING**

All Capacities APPLY

12) **CYCLONE & TROLLEY HOIST - SPECIAL TAGS OR I.D. PLATES**

All Capacities APPLY

13) **PULLER/SHORT HANDLE PULLER - ZINC PLATED LOAD CHAIN**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
3/4 Ton	\$0.95 /Ft. Lift
1 1/2 Ton	\$0.40 /Ft. Lift
3 Ton	\$0.80 /Ft. Lift
6 Ton	\$1.20 /Ft. Lift

14) **PULLER/SHORT HANDLE PULLER - STAINLESS STEEL LOAD CHAIN**

<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
3/4 Ton	\$33.50 /Ft. Lift
1 1/2 Ton	N/A
3 Ton	N/A
6 Ton	N/A

NOTE: When 3/4 ton Puller/Short Handle Puller is furnished with Stainless Steel Load Chain, the design factor is 4:1 which conforms with specifications of ASME B30.21, but does not conform with the normal Columbus McKinnon imposed 5:1 design factor for these products when furnished with our standard Disc Grade Load Chain.

CM HAND POWER HOISTS

15) **PULLER/SHORT HANDLE PULLER - SPECIAL PACKAGING OR HANDLING**

All Capacities

APPLY

16) **PULLER/SHORT HANDLE PULLER - SPECIAL TAGS OR I.D. PLATES**

All Capacities

APPLY

17) **PULLER/SHORT HANDLE PULLER - SPECIAL PAINT OR FINISH OTHER THAN
STANDARD FACTORY FINISH (SPECIAL)**

All Capacities

APPLY

18) **PULLER/SHORT HANDLE PULLER - UPPER OR LOWER BRONZE HOOK**

CAPACITY

EXTRA CHARGE

3/4 Ton

\$ 1,335.70

1 1/2 Ton

APPLY

3 Ton

APPLY

6 Ton

APPLY

CM TROLLEYS

ADD TO USER LIST PRICE OF TROLLEY

1) **SERIES 632 TROLLEY BEYOND STANDARD ADJUSTMENT RANGE**

<u>CAP. (TONS)</u>	<u>LARGER "S" BEAMS & WF SHAPES</u>	<u>EXTRA CHARGE</u>
1/2 & 1	Over 5 1/6" thru 7 1/2"	\$ 44.20
NOTE: 7 1/2" maximum obtainable flange width - extra charge is for longer load bar.		
2	Over 5 5/8" thru 8"	\$ 53.25
NOTE: Extra charge is for a longer load bar reinforced by a support section above the hook seat.		
NOTE: Flange widths greater than listed above are not available. Refer to Series 633, Series 80 or Series 84 Trolley for those applications.		

2) **SERIES 632 TROLLEY OPTIONAL ACCESSORIES**
TROLLEY GUARDS

Trolley guards are heavy formed lug sections which provide added suspension security.

<u>CODE NO.</u>	<u>CAPACITY</u>	<u>EXTRA CHARGE</u>
3227	1/4 & 1/2 ton	\$ 36.00
3228	1 ton	\$ 37.00
3229	2 ton	\$ 46.00

BUMPERS

Bumpers can be provided where two or more trolleys travel on the same runway or runways with tight radius curves.

	<u>EXTRA CHARGE</u>
1/4 thru 1-ton	\$ 58.85
1-1/2 ton thru 3-ton	APPLY

CLASSIC LODESTAR LESS CHAIN LIST PRICES

1 SPEED

MODEL	PHASE	CODE NO.	LIST PRICE
A	1 3	2702CF 2705CF	\$ 1,763.33
AA	1 3	2712CF 2715CF	\$ 2,017.47
B	1 3	2722CF 2725CF	\$ 2,107.68
C	1 3	2732CF 2735CF	\$ 2,235.72
E	1 3	2742CF 2745CF	\$ 2,188.32
F	1 3	2752CF 2755CF	\$ 2,460.76
H	1 3	2762CF 2765CF	\$ 2,447.31
J	1 3	3512CF 3515CF	\$ 2,694.22
JJ	3	3545CF	\$ 4,044.46
L	1 3	3522CF 3525CF	\$ 2,721.38
LL	3	3555CF	\$ 3,968.80
R	1 3	3532CF 3535CF	\$ 3,197.02
RR	3	3565CF	\$ 4,275.66
RT	1 3	9501CF 9505CF	\$ 3,596.37
RRT	3	9508CF	\$ 4,357.82

2 SPEED

MODEL	PHASE	CODE NO.	LIST PRICE
A2	230-3-60 460-3-60	2707CF 2708CF	\$ 2,155.33
AA2	230-3-60 460-3-60	2717CF 2718CF	\$ 2,408.50
B2	230-3-60 460-3-60	2727CF 2728CF	\$ 2,498.71
C2	230-3-60 460-3-60	2737CF 2738CF	\$ 2,628.69
E2	230-3-60 460-3-60	2747CF 2748CF	\$ 2,582.26
F2	230-3-60 460-3-60	2757CF 2758CF	\$ 2,854.70
H2	230-3-60 460-3-60	2767CF 2768CF	\$ 2,836.40
J2	230-3-60 460-3-60	3502CF 3503CF	\$ 3,457.73
JJ2	230-3-60 460-3-60	3549CF 3550CF	\$ 4,809.91
L2	230-3-60 460-3-60	3504CF 3505CF	\$ 3,488.77
LL2	230-3-60 460-3-60	3553CF 3554CF	\$ 4,737.16
R2	230-3-60 460-3-60	3506CF 3507CF	\$ 3,960.53
RR2	230-3-60 460-3-60	3561CF 3562CF	\$ 5,037.23
RT2	230-3-60 460-3-60	9511CF 9513CF	\$ 4,360.85
RRT2	230-3-60 460-3-60	9512CF 9514CF	\$ 5,119.39

Hoists are furnished less load chain, with control station but less control cord, and with standard 15 ft. power cord. **SPECIFY LESS CHAIN**

	CODE NO.	LIST PRICE
250 ft. Reel of 3 Wire PB Cord (1 Speed)	82294	\$ 1,500.00
250 ft. Reel of 7 Wire PB Cord (2 Speed)	82295	\$ 1,500.00
Lower Hook Assembly Mod. A - F	28683	\$ 208.28
Lower Hook Assembly Mod. E - H	28685	\$ 337.25
Lower Hook Assembly Mod. J - LL (Old Code C206)	35651	\$ 222.06
Lower Hook Assembly Mod. R - RR	35621	\$ 466.41
Lower Hook Assembly Mod. RT - RRT	36607	\$ 638.58
PB Cord Assembly - 10 ft. Lift (1 Speed)	51400	\$ 95.50
- 15 ft. Lift (1 Speed)	51401	\$ 138.48
- 20 ft. Lift (1 Speed)	51402	\$ 179.79
- 10 ft. Lift (2 Speed)	51406	\$ 127.38

These parts may only be ordered along with a minimum Level "1" order.

NEXT GENERATION LODESTAR LESS CHAIN LIST PRICES

1 SPEED

MODEL	PHASE	CODE NO.	LIST PRICE
A	1 3	2702NHLC 2705NHLC	\$ 1,690.58
AA	1 3	2712NHLC 2715NHLC	\$ 1,935.02
B	1 3	2722NHLC 2725NHLC	\$ 2,021.35
C	1 3	2732NHLC 2735NHLC	\$ 2,144.54
E	1 3	2742NHLC 2745NHLC	\$ 2,094.23
F	1 3	2752NHLC 2755NHLC	\$ 2,361.82
H	1 3	2762NHLC 2765NHLC	\$ 2,343.52
J	1 3	3512NHLC 3515NHLC	\$ 2,585.58
JJ	3	3545NHLC	\$ 3,886.35
L	1 3	3522NHLC 3525NHLC	\$ 2,610.80
LL	3	3555NHLC	\$ 3,812.63
R	1 3	3532NHLC 3535NHLC	\$ 3,062.19
RR	3	3565NHLC	\$ 4,102.03
RT	1 3	9501NHLC 9505NHLC	\$ 3,439.23
RRT	3	9508NHLC	\$ 4,173.52

2 SPEED

MODEL	PHASE	CODE NO.	LIST PRICE
A2	230-3-60 460-3-60	2707NHLC 2708NHLC	\$ 2,066.09
AA2	230-3-60 460-3-60	2717NHLC 2718NHLC	\$ 2,310.53
B2	230-3-60 460-3-60	2727NHLC 2728NHLC	\$ 2,397.83
C2	230-3-60 460-3-60	2737NHLC 2738NHLC	\$ 2,522.96
E2	230-3-60 460-3-60	2747NHLC 2748NHLC	\$ 2,472.65
F2	230-3-60 460-3-60	2757NHLC 2758NHLC	\$ 2,740.24
H2	230-3-60 460-3-60	2767NHLC 2768NHLC	\$ 2,717.09
J2	230-3-60 460-3-60	3502NHLC 3503NHLC	\$ 3,319.02
JJ2	230-3-60 460-3-60	3549NHLC 3550NHLC	\$ 4,622.70
L2	230-3-60 460-3-60	3504NHLC 3505NHLC	\$ 3,349.09
LL2	230-3-60 460-3-60	3553NHLC 3554NHLC	\$ 4,551.89
R2	230-3-60 460-3-60	3506NHLC 3507NHLC	\$ 3,797.57
RR2	230-3-60 460-3-60	3561NHLC 3562NHLC	\$ 4,834.50
RT2	230-3-60 460-3-60	9511NHLC 9513NHLC	\$ 4,175.58
RRT2	230-3-60 460-3-60	9512NHLC 9514NHLC	\$ 4,906.96

Hoists are furnished less load chain, with control station but less control cord, and with standard 15 ft. power cord. **SPECIFY LESS CHAIN**

	CODE NO.	LIST PRICE
250 ft. Reel of 3 Wire PB Cord (1 Speed)	82294	\$ 1,500.00
250 ft. Reel of 7 Wire PB Cord (2 Speed)	82295	\$ 1,500.00
Lower Hook Assembly Mod. A - F	28683	\$ 208.28
Lower Hook Assembly Mod. E - H	00000272B	\$ 337.25
Lower Hook Assembly Mod. J - LL (Old Code C206)	35651	\$ 222.06
Lower Hook Assembly Mod. R - RR	00000277B	\$ 466.41
Lower Hook Assembly Mod. RT - RRT	36607	\$ 638.58
PB Cord Assembly - 10 ft. Lift (1 Speed)	29353	\$ 125.78
- 15 ft. Lift (1 Speed)	29353-15	\$ 154.18
- 20 ft. Lift (1 Speed)	29353-20	\$ 179.79
- 10 ft. Lift (2 Speed)	29349	\$ 136.02

These parts may only be ordered along with a minimum Level "1" order.

**LODESTAR - CORROSION RESISTANT EXTRAS
ADD TO USER LIST PRICE OF HOIST**

1) STAINLESS STEEL LOAD CHAIN *

*THIS MODIFICATION WILL NOT MAKE THE HOIST EXPLOSION OR SPARK PROOF.

Model A, AA, B, C & F	\$ 32.55 per ft. of Lift
Model E & H	\$ 65.10 per ft. of Lift
Models J thru RRT	Not Available

2) MODIFIED LIFTWHEEL & CHAIN GUIDES \$ 232.05
(REQUIRED WITH STAINLESS STEEL LOAD CHAIN)

3) NICLAD PLATED LOAD CHAIN

Add to Regular Chain Price	\$ 11.15 per lineal ft. of chain
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4) BRONZE UPPER OR LOWER HOOK ONLY (SPECIAL) *

Model A, AA, B, C & F	\$ 457.75
Model E & H	\$ 457.75
Model J, JJ, L & LL	\$ 1,405.10
Model R thru RRT	\$ 2,979.70

5) STAINLESS STEEL UPPER OR LOWER HOOK ONLY (SPECIAL) *

Model A, AA, B, C & F	\$ 559.90
Model E & H	\$ 559.90
Model J, JJ, L & LL	\$ 964.40
Model R thru RRT	Apply

6) STAINLESS STEEL HOOK BLOCK ONLY

Model A, AA, B, C & F	\$ 781.95
Model E & H	\$ 1,077.85
Model J, JJ, L & LL	\$ 1,448.00
Model R thru RRT	Not Available

7) NICLAD OR ZINC PLATED LOWER HOOK AND BLOCK

1 - Part	\$ 171.10
2 - Part and 3 - Part	\$ 343.40

**STAINLESS STEEL LOAD CHAIN
PRICING PROCEDURE**

Hoist Requirement - Series 627 - Model E - 3 Phase
Lift - 22 ft.
P.B. Drop - In Proportion
Load Chain - Stainless Steel

EXAMPLE:

\$ 2,433.00	- Hoist Only/Code No. 2745 - 10 ft. Lift
\$ 72.00	- Extra Control Cord (12 ft. @ \$6.00/ft.)
\$ 354.00	- Extra Lift - Standard Chain (12 ft. @ \$29.50 /ft. of lift)
\$ 232.05	- Extra for Modified Liftwheel and Chain Guides
<u>\$ 1,432.20</u>	- Extra for Stainless Steel Chain (22 ft. @ \$65.10 /ft. of lift)
\$ 4,523.25	- TOTAL USER LIST

CONDUCTIX / INSUL-8 (NEMA 4X) CONTROL STATIONS

DESCRIPTION	CODE NO.	LIST PRICE
2-BUTTON PISTOL GRIP, 1-SPEED / BLACK	58272	\$153.32
2-BUTTON PISTOL GRIP 2-SPEED / BLACK	58273	\$279.51
2-BUTTON PISTOL GRIP 3-SPEED / BLACK	58296	\$333.38
4-BUTTON 1-SPEED HOIST, 1-SPEED TROLLEY / BLACK	58219CM	\$409.36
4-BUTTON 2-SPEED HOIST, 1-SPEED TROLLEY / BLACK	58220CM	\$461.99
6-BUTTON 1-SPEED HOIST, TROLLEY & BRIDGE / YELLOW	58249	\$624.72
6-BUTTON 2-SPEED HOIST, 1-SPEED TROLLEY & BRIDGE / YELLOW	58250	\$1,013.88
6-BUTTON ON/OFF, 1-SPEED HOIST & TROLLEY / YELLOW	58252	\$696.41
8-BUTTON ON/OFF, 1-SPEED HOIST, TROLLEY & BRIDGE / YELLOW	58251	\$911.50
CONTROL STATION GROMMET (.52-.65 DIA. CORD)	58278	\$16.62
2-BUTTON SINGLE SPEED INSERT	58255	\$50.57
MAINTAINED ON/OFF INSERT	58257	\$92.45
2-BUTTON 2-SPEED INSERT	58256	\$100.91
PUSH/PULL SWITCH INSERT (MUSHROOM)	58261	\$118.88
120 VOLT PILOT LIGHT	58258	\$68.69
2-BUTTON REPAIR KIT (EXT. SCREWS & GASKET)	58275	\$9.00
WARNING LABEL KIT (5 EXTERIOR LABELS)	58276	\$10.01
BUTTON LABEL KIT (PLASTIC INSERTS W/LEGENDS)	58277	\$14.00
4-BUTTON REPAIR KIT (COVER SCREWS AND GASKET)	58279	\$9.00
4-BUTTON ENCLOSURE KIT (HOUSING LESS INSERTS)	58288	\$223.95
BLANK HOLE PLUG INSERT	58254	\$17.25
3-SPEED 2-BUTTON INSERT	57803	\$314.49
MOMENTARY ON/OFF INSERT	58262	\$92.45
2-POSITION SELECTOR SWITCH	58351	\$138.68
3-POSITION SELECTOR SWITCH	58253	\$161.34

BULLARD HOOKS

LOWER HOOK				UPPER HOOK		
CAPACITY OR MODEL	CM CODE	BULLARD SIZE & TYPE	USER NET	CM CODE	BULLARD SIZE & TYPE	USER NET
PULLER MODEL B						
3/4	40839	4-O-1/4	\$ 310.00	40844	4-D-1	\$ 582.00
1 1/2	40840	5-O-5/16	\$ 383.00	40845	5-K-2	\$ 412.00
3	40826	6-K-1	\$ 711.00	40863	6-K-1	\$ 696.00
6	+40843	9-K-1	\$ 1,210.00	68701	9-K-1	\$ 1,044.00
SHORT HANDLE PULLER						
3/4	40839	4-O-1/4	\$ 310.00	*40839 (739S)	4-O-1/4	\$ 650.00
1 1/2	40840	5-O-5/16	\$ 383.00	*40840 (802S)	5-O-5/16	\$ 474.00
3	40826	6-K-1	\$ 711.00	40826	6-K-1	\$ 711.00
* Note 3/4 ton Upper only available with Anchor Sling and Load Limiter. Price shown includes Anchor Sling and Load Limiter.						
* Note 1 1/2 ton Upper only available with Anchor Slings. Price shown includes Anchor Sling						
CYCLONE MODEL S						
1/4, 1/2	40839	4-O-1/4	\$ 310.00	45777	4-K-2	\$ 793.00
1	40840	5-O-5/16	\$ 383.00	45778	5-K-2	P.O.A.
1 1/2, 2	45776	7-O-3/8	\$ 827.00	+45779	7-K-2	P.O.A.
3, 4	+45754	9-K-1	P.O.A.	+45753	9-K-1	P.O.A.
5	+45755	9-K-1	P.O.A.	+45755	9-K-1	P.O.A.
6	68701	9-K-1	\$ 1,044.00	68701	9-K-1	\$ 1,044.00
8	+45758	13-K-1	P.O.A.	+45758	13-K-1	P.O.A.
10	+45759	14-K-1	P.O.A.	+45759	14-K-1	P.O.A.
LODESTAR						
A,AA,B,C,F	40839	4-O-1/4	\$ 310.00	28758	4-K-2	P.O.A.
E, H	28757	5-K-2	\$ 457.00	+28759	5-K-2	P.O.A.
J, L	40840	5-O-5/16	\$ 383.00	35860	5-K-1	\$ 1,005.00
R	35859	7-K-2	\$ 807.00	35861	7-K-1	P.O.A.
JJ, LL	+36807	5-K-1	P.O.A.	+35860	5-K-1	\$ 1,005.00
RR	35859	7-K-2	\$ 807.00	35861	7-K-1	P.O.A.
(For Repairs to Shock Absorbing Hook using Belleville Washers on "RR," use Hook Code +36808 @ P.O.A.) RT, RRT - P.O.A.						
METEOR						
2 PART	+68874	5-K-1	P.O.A.			
4 PART	68700	8-K-1	\$ 1,189.00			
6 PART	68701	9-K-1	\$ 1,044.00			
POWERSTAR						
2 & 3 TON	70398	9-K				
XL						
2 TON	35859	7-K-2	\$ 807.00	+52773	7-K	P.O.A.
3 - 6 TON	52774	9-K	\$ 2,774.00	52774	9-K	\$ 2,774.00

Note: Units - Add to User List Price of Hoist
Repair Parts - Max. Discount 25-5%

+ Check Stock - Codes are pending obsolescence and may not be available,
or may require special order which could affect price.

CLASSIC CLEAN ROOM LODESTAR STANDARD PART NUMBERS

Part Number	Model	Lift Speed (FPM)	Chain Lift (Ft.)	Control Cord Length (Ft.)	Capacity (Tons)	Power Supply	List Price
2722/2788CR10	B	16	10	6	1/4	115-1-60	\$5,219.00
2722/2788CR15	B	16	15	11	1/4	115-1-60	\$5,523.00
2722/2788CR20	B	16	20	16	1/4	115-1-60	\$5,827.00
2725/2788CR10	B	16	10	6	1/4	460/230-3-60	\$5,219.00
2725/2788CR15	B	16	15	11	1/4	460/230-3-60	\$5,523.00
2725/2788CR20	B	16	20	16	1/4	460/230-3-60	\$5,827.00
2752/2788CR10	F	16	10	6	1/2	115-1-60	\$5,584.00
2752/2788CR15	F	16	15	11	1/2	115-1-60	\$5,887.00
2752/2788CR20	F	16	20	16	1/2	115-1-60	\$6,191.00
2755/2788CR10	F	16	10	6	1/2	460/230-3-60	\$5,584.00
2755/2788CR15	F	16	15	11	1/2	460/230-3-60	\$5,887.00
2755/2788CR20	F	16	20	16	1/2	460/230-3-60	\$6,191.00
2762/2789CR10	H	8	10	6	1	115-1-60	\$6,459.00
2762/2789CR15	H	8	15	11	1	115-1-60	\$7,033.00
2762/2789CR20	H	8	20	16	1	115-1-60	\$7,608.00
2765/2789CR10	H	8	10	6	1	460/230-3-60	\$6,459.00
2765/2789CR15	H	8	15	11	1	460/230-3-60	\$7,033.00
2765/2789CR20	H	8	20	16	1	460/230-3-60	\$7,608.00

Model B & F Clean Room Hoists include:

Stainless Steel Load Chain
Lubriplate FP-150 Load Chain Lubrication
Modified Liftwheel & Chain Guides
Stainless Steel Hook Block for 1 Pt Reeving
Stainless Steel Lower Hook
Stainless Steel Upper Hook
FDA Approved White Epoxy Powder-Coat
Weatherproofing

Model H Clean Room Hoists include:

Stainless Steel Load Chain
Lubriplate FP-150 Load Chain Lubrication
Modified Liftwheel & Chain Guides
Stainless Steel Hook Block for 2 Pt Reeving
Stainless Steel Lower Hook
Stainless Steel Upper Hook
FDA Approved White Epoxy Powder-Coat
Weatherproofing

Separate Stainless Steel Hook Suspensions with White Powder Coat Finish

CM Code Number	Models Used On	Hook Type	List Price
2788SS	B,F	Rigid	\$617.00
2789SS	H	Rigid	\$654.00

Stainless Steel Chain Containers (Unfinished)

CM Code Number	Model / Maximum Lift	List Price
2450SS	B & F with 10 Ft. Lift	\$692.00
2451SS	B & F with 20 Ft. Lift, H with 10 Ft. Lift	\$692.00

NEXT GENERATION CLEAN ROOM LODESTAR STANDARD PART NUMBERS

Part Number	Model	Lift Speed (FPM)	Chain Lift (Ft.)	Control Cord Length (Ft.)	Capacity (Tons)	Power Supply	List Price
2722NHCR10	B	16	10	6	1/4	115-1-60	\$5,052.00
2722NHCR15	B	16	15	11	1/4	115-1-60	\$5,345.00
2722NHCR20	B	16	20	16	1/4	115-1-60	\$5,637.00
2725NHCR10	B	16	10	6	1/4	460/230-3-60	\$5,052.00
2725NHCR15	B	16	15	11	1/4	460/230-3-60	\$5,345.00
2725NHCR20	B	16	20	16	1/4	460/230-3-60	\$5,637.00
2752NHCR10	F	16	10	6	1/2	115-1-60	\$5,403.00
2752NHCR15	F	16	15	11	1/2	115-1-60	\$5,695.00
2752NHCR20	F	16	20	16	1/2	115-1-60	\$5,988.00
2755NHCR10	F	16	10	6	1/2	460/230-3-60	\$5,403.00
2755NHCR15	F	16	15	11	1/2	460/230-3-60	\$5,695.00
2755NHCR20	F	16	20	16	1/2	460/230-3-60	\$5,988.00
2762NHCR10	H	8	10	6	1	115-1-60	\$6,248.00
2762NHCR15	H	8	15	11	1	115-1-60	\$6,801.00
2762NHCR20	H	8	20	16	1	115-1-60	\$7,355.00
2765NHCR10	H	8	10	6	1	460/230-3-60	\$6,248.00
2765NHCR15	H	8	15	11	1	460/230-3-60	\$6,801.00
2765NHCR20	H	8	20	16	1	460/230-3-60	\$7,355.00

Model B & F Clean Room Hoists include:

Stainless Steel Load Chain
Lubriplate FP-150 Load Chain Lubrication
Modified Liftwheel & Chain Guides
Stainless Steel Hook Block for 1 Pt Reeving
Stainless Steel Lower Hook
Stainless Steel Upper Hook
FDA Approved White Epoxy Powder-Coat
Weatherproofing

Model H Clean Room Hoists include:

Stainless Steel Load Chain
Lubriplate FP-150 Load Chain Lubrication
Modified Liftwheel & Chain Guides
Stainless Steel Hook Block for 2 Pt Reeving
Stainless Steel Lower Hook
Stainless Steel Upper Hook
FDA Approved White Epoxy Powder-Coat
Weatherproofing

Separate Stainless Steel Hook Suspensions with White Powder Coat Finish

CM Code Number	Models Used On	Hook Type	List Price
2788NHSS	B,F	Rigid	\$617.00
2789NHSS	H	Rigid	\$654.00

Stainless Steel Chain Containers (Unfinished)

CM Code Number	Model / Maximum Lift	List Price
2450E	B & F with 10 Ft. Lift	\$692.00
2451E	B & F with 20 Ft. Lift, H with 10 Ft. Lift	\$692.00

CLASSIC LODESTARS WITH NON-POWERED CREEP CONTROL

Part Number	Capacity (Tons)	Model	Lift Speed (FPM)	Chain Lift (Ft.)	Control Cord Length (Ft.)	Power Supply	List Price
2719	1/4	B	16	10	6	115-1-60	\$3,363.00
2720	1/2	F	16	10	6	115-1-60	\$3,726.00
2721	1/2	F	16	15	11	115-1-60	\$3,843.00
3156	1/2	J	32	10	6	115-1-60	\$4,021.00
3159	1/2	J	16	15	11	115-1-60	\$4,161.00
3160	1	L	16	10	6	115-1-60	\$4,048.00
3165	1	L	16	15	11	115-1-60	\$4,188.00
3171	2	R	8	10	6	115-1-60	\$4,741.00
3175	2	R	8	15	11	115-1-60	\$4,989.00
3176	3	RT	5.5	10	6	115-1-60	\$5,365.00

Non-powered Creep

Non-powered creep is used on 115-volt single phase Lodestars for a creep function in the down direction only.

A recycling (pulsating) timer is used which has a fixed ON time of .1 seconds and a fixed OFF time of .3 seconds

This timer, when activated, will pulse the brake open & closed and will continue as long as the down push button is depressed or until the hoist reaches the lower limit.

This eliminates the need of the operator to depress and release the pushbutton for each creep actuation.

Please note that a non-powered creep does require a load greater than approximately 10% of the rated hoist capacity to function properly.

NEXT GENERATION LODESTARS WITH NON-POWERED CREEP CONTROL

Part Number	Capacity (Tons)	Model	Lift Speed (FPM)	Chain Lift (Ft.)	Control Cord Length (Ft.)	Power Supply	List Price
2719NH	1/4	B	16	10	6	115-1-60	\$3,240.00
2720NH	1/2	F	16	10	6	115-1-60	\$3,590.00
3156NH	1/2	J	32	10	6	115-1-60	\$3,874.00
3160NH	1	L	16	10	6	115-1-60	\$3,901.00
3171NH	2	R	8	10	6	115-1-60	\$4,569.00
3176NH	3	RT	5.5	10	6	115-1-60	\$5,170.00

Non-powered Creep

Non-powered creep is used on 115-volt single phase Lodestars for a creep function in the down direction only.

A recycling (pulsating) timer is used which has a fixed ON time of .1 seconds and a fixed OFF time of .3 seconds

This timer, when activated, will pulse the brake open & closed and will continue as long as the down push button is depressed or until the hoist reaches the lower limit.

This eliminates the need of the operator to depress and release the pushbutton for each creep actuation.

Please note that a non-powered creep does require a load greater than approximately 10% of the rated hoist capacity to function properly.