

#### ► LOW-HEADROOM TROLLEY HOISTS

## ZEPHYR LOW-HEADROOM TROLLEY HOISTS

**CAPACITIES** 

LIFT

**OPTIONS** 8 Feet Standard

1-1/2 to 24 Tons

Spark & Corrosion Resistance Clean Room

Chester Zephyr low-headroom trolley hoists, as the name implies, are designed for applications where head room is very limited, preventing the use of standard hoists. They are ideal for existing structures with low ceilings as well as new construction where low ceilings are required. These low-headroom hoists are equipped with concentrically machined, cast iron, precision bearing trolley wheels.

Each Zephyr low-headroom hoist is custom built to fit the beam size, flange width and curve radius for the specific application.

#### **KEY FEATURES**

CHESTER ZEPHYR LOW-HEADROOM TROLLEY HOISTS CONTAIN ALL OF THE SAME KEY FEATURES AS THE HOOK-SUSPENDED MODELS.

POSITIVE ENGAGEMENT RACK & PINION OR SPROCK-ET & ROLLER CHAIN TROLLEY DRIVES

Available for use on inclined monorails or for shipboard use to provide increased control over the trolley to prevent unintended movement.



**^ RACK & PINION TROLLEY DRIVE** 

#### **SPECIFICATIONS**

Capacity (short tons)	Catalog	Number	Standard	Load Chain Length	Minimum Radius	Minimum Distance from	Chain Pull to Lift Full	Chain Overhauled	Weight (lbs.)	
	Plain Trolley	Geared Trolley	Lift (ft.)	(2 Chains per Hoist)	Curve ††	Bottom of I-Beam to Hook (in.)	Load (lbs.)	to Lift Load One Foot (ft.)	Net	Gross
1-1/2	1421 - 1-1/2	1422 - 1-1/2	8	9'-6"	6'-6"	6-1/4	41	87	207	230
2	1421 - 2	1422 - 2	8	9'-6"	6'-6"	6-1/4	54	87	210	233
3	1421 - 3	1422 - 3	8	18'-3"	6'-6"	7-3/8	42	176	305	335
4	1421 - 4	1422 - 4	8	18'-3"	7'-6"	8	56	176	308	340
5	1421 - 5	1422 - 5	8	10'	8'-6"	8-3/4	79	165	574	633
6	1421 - 6	1422 - 6	8	10'	8'-6"	8-3/4	94	165	574	633
8	1421 - 8	1422 - 8	8	19'	9'-6"	11	64	355	650	773
10	1421 - 10	1422 - 10	8	19'-6"	10'	11-1/2	87	330	1022	1105
12	1421 - 12	1422 - 12	8	19'-6"	†	11-1/2	104	330	1022	1105
16	1421 - 16	1422 - 16	8	38'-6"	†	13-5/8	68	710	1600	1681
20	1421 - 20	1422 - 20	8	39'	†	17-1/4	87	731-1/2	1950	2110
24	1421 - 24	1422 - 24	8	39'	†	17-1/4	104	731-1/2	1950	2110

ALL HEADROOM DIMENSIONS DETERMINED WHILE HOIST UNDER LOAD.

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<sup>†</sup> Straight track operation only recommended for these units.

<sup>††</sup> Curves less than minimum may be fitted by special construction. Consult factory.

Curve radius must be specified on order since wheels are modified to negotiate curves.

#### **LOW-HEADROOM TROLLEY HOISTS**





#### **OPTIONAL FEATURES**

TRACK CLAMPS

LOAD LIMITERS

**CHAIN CONTAINERS** 

SPARK AND CORROSION RESISTANCE

POSITIVE ENGAGEMENT RACK & PINION OR SPROCKET & ROLLER CHAIN TROLLEY DRIVES

Available for use on inclined monorails or for shipboard use to provide increased control over the trolley to prevent unintended movement.

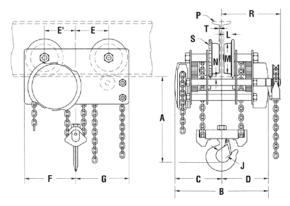


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#### ► LOW-HEADROOM TROLLEY HOISTS

### **ZEPHYR**

# LOW-HEADROOM TROLLEY HOISTS



**PLAIN & GEARED** 



SPARK RESISTANT/EXPLOSION PROOF, 5-TON CHESTER ZEPHYR LOW-HEADROOM TROLLEY HOIST IN USE ON AN OFFSHORE OIL PLATFORM.

#### **DIMENSIONS**

Capacity (tons)		Dimensions (In.)																
	А	В	С	D	Е	E'	F	G	Н	J	L	М	N**	P*	Min Beam	Beam width	R	s
PLAIN & GEARED TROLLEY HOIST																		
1-1/2	6-1/4	20-3/8	10-3/16	10-3/16	5-1/8	5-1/8	8-3/4	8-1/4	5/8	1-1/8	1-1/8	4-1/2	1/2	6" I @ 12.5#	S6x12.5#	3.332"	13-1/16	6
2	6-1/4	20-3/8	10-3/16	10-3/16	5-1/8	5-1/8	8-3/4	8-1/4	5/8	1-1/8	1-1/8	4-1/2	1/2	6" I @ 12.5#	S6x12.5#	3.332"	13-1/16	6
3	7-3/8	20-3/8	10-3/16	10-3/16	6-1/2	6-5/8	10-5/8	10-5/8	9/16	1-11/32	1-11/32	6-3/8	1/2	8" I @ 18.4#	S8x18.4#	4.001"	13-1/16	8
4	8	20-3/8	10-3/16	10-3/16	6-1/2	6-5/8	10-5/8	10-5/8	9/16	1-11/16	1-11/32	6-3/8	1/2	8" I @ 18.4#	S8x18.4#	4.001"	13-1/16	8
5	8-3/4	26-1/4	13-1/8	13-1/8	7-3/8	7-3/8	12	12	29/32	1-11/16	1-13/32	7-3/16	9/16	10" I @ 25.4#	S10x25.4#	4.661"	16-1/2	9
6	8-3/4	26-1/4	13-1/8	13-1/8	7-3/8	7-3/8	12	12	29/32	1-11/16	1-13/32	7-3/16	9/16	10" I @ 25.4#	S10x25.4#	4.661"	16-1/2	9
8	11	26-1/4	13-1/8	13-1/8	8-3/8	8-7/8	14	13-1/2	9/16	2-1/16	1-11/16	8-1/4	9/16	10" I @ 25.4#	S10x25.4#	4.661"	16-1/2	10
10	11-1/2	26-1/4	13-1/8	13-1/8	8-1/2	9-3/4			9/16	2-1/4	1-3/4	9-3/4	5/8	12" I @ 31.8#	S12x31.8#	5"	16-1/2	11-11/16
12	11-1/2	26-1/4	13-1/8	13-1/8	8-1/2				9/16	2-1/4	1-3/4	9-3/4	5/8	12" I @ 31.8#	S12x31.8#	5"	16-1/2	11-11/16
16	13-5/8	30-3/8	15-3/16	15-3/16					9/16	3	2	11-3/4	3/4	15" I @ 42.9#	S15x42.9#	5.501"	18-7/8	13-1/2
20	17-1/4	30-3/8		15-3/16				19	3/4	3-5/8	2	11-3/4	5/8	18"   @ 54.7#	S18x54.7#	6.001"	18-7/16	13-1/2
24	17-1/4			15-3/16				19	3/4	3-5/8	2	11-3/4	5/8	18" I @ 54.7#	S18x54.7#	6.001"	18-7/16	13-1/2
PLAIN &	GEARED	TROLL	EY HOIS	ST, SPAF	RK-RES	SISTAI	VT											
1-1/2	7-3/8	20-3/8	10-3/16	10-3/16	5-1/8	5-1/8	8-3/4	8-1/4	5/8	1-11/32	1-1/8	4-1/2	1/2	6" I @ 12.5#	S6x12.5#	3.332"	13-1/16	6
2	7-3/8	20-3/8	10-3/16	10-3/16	5-1/8	5-1/8	8-3/4	8-1/4	5/8	1-11/32	1-1/8	4-1/2	1/2	6" I @ 12.5#	S6x12.5#	3.332"	13-1/16	6
3	8-7/16	20-3/8	10-3/16	10-3/16	6-1/2	6-5/8	10-5/8	10-5/8	9/16	1-11/16	1-11/32	6-3/8	1/2	8" I @ 18.4#	S8x18.4#	4.001"	13-1/16	8
4	9-15/16	20-3/8	10-3/16	10-3/16	6-1/2	6-5/8	10-5/8	10-5/8	9/16	2-7/32	1-11/32	6-3/8	1/2	8" I @ 18.4#	S8x18.4#	4.001"	13-1/16	8
5	10-5/16	26-1/4	13-1/8	13-1/8	7-3/8	7-3/8	12	12	29/32	2-7/32	1-13/32	7-3/16	9/16	10" I @ 25.4#	S10x25.4#	4.661"	16-1/2	9
6	11-3/8	26-1/4	13-1/8	13-1/8	7-3/8	7-3/8	12	12	29/32	2-1/4	1-13/32	7-3/16	9/16	10" I @ 25.4#	S10x25.4#	4.661"	16-1/2	9
8	14-1/16	26-1/4	13-1/8	13-1/8	8-3/8	8-7/8	14	13-1/2	9/16	3-1/32	1-11/16	8-1/4	9/16	10" I @ 25.4#	S10x25.4#	4.661"	16-1/2	10
10	14-7/16	26-1/4	13-1/8	13-1/8	8-1/2	9-3/4	15-5/8	14-3/8	9/16	3-1/32	1-3/4	9-3/4	5/8	12" I @ 31.8#	S12x31.8#	5"	16-1/2	11-11/16
12	16-1/8	26-1/4	13-1/8	13-1/8	8-1/2	9-3/4	15-5/8	14-3/8	9/16	3-1/4	1-3/4	9-3/4	5/8	12" I @ 31.8#	S12x31.8#	5"	16-1/2	11-11/16
16	19-5/16	30-3/8	15-3/16	15-3/16	11-7/8	11-7/8	18-5/8	18-5/8	9/16	3-3/8	2	11-3/4	3/4	15" I @ 42.9#	S15x42.9#	5.501"	18-7/8	13-1/2
20	20-1/4	30-3/8	15-3/16	15-3/16	12-1/8	12-3/8	19-1/4	19	3/4	3-3/8	2	11-3/4	5/8	18" I @ 54.7#	S18x54.7#	6.001"	18-7/16	13-1/2
24	20-1/4		15-3/16	15-3/16	12-1/8	12-3/8	19-1/4	19	3/4	3-3/8	2	11-3/4	5/8	18" I @ 54.7#	S18x54.7#	6.001"	18-7/16	13-1/2

For over 10 Ton, straight track operation is recommended.

Customer must verify their beam is adequate for the applied loads.

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Curve radius must be specified on orders.
Curves less than minimum radius may be fitted upon application.

\* Minimum Standard I-Beam for Proper Wheel Running Clearance Only.

<sup>\*\*</sup> At Under Beam Roller