

Model ALM
Air Chain Hoist
1 - 24 Ton Capacity

Pneumatic Chain Hoist

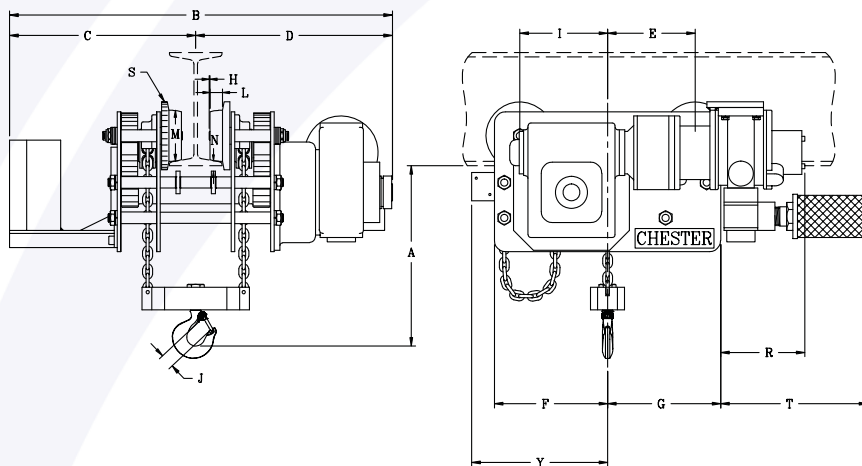
- **CAPACITIES & LIFT** - Rated loads 1 ton to 24 tons with standard lift of 10 feet.
- **ULTRA-LOW HEADROOM** - Design allows this hoist to operate in extreme low overhead locations where most other "low headroom" hoists can't.
- **COMPACT DESIGN** - Integral hoist/trolley design provides compact overall envelope dimensions.
- **STRONG AND DURABLE** - Steel construction to withstand harsh environments.
- **HOISTING CONTROL** - Pilot air control permits variable speed hoisting and trolley traverse.
- **LIMIT SWITCH** - Redundant limit switches for upper and lower hook travel.
- **TROLLEY** - Plain, hand geared, or motor driven trolley models featuring anti-tilt rollers.
- **CUSTOM FIT** - Can be made to fit virtually any beam.
- **EASY INSTALLATION** - Unique design allows easy installation on closed end monorail beam.
- **OPTIONS** - Spark resistant packages, corrosion resistant finishes, swivel trolleys for curved monorails, e-stop on control pendant, chain container, rubber trolley bumpers and anti-drop lugs.

SPECIFICATIONS

1 - 24 Ton

| Catalog Number | | | Rated Capacity in Short Tons | Standard Lift (ft.) | *Minimum Radius Curve | Minimum Distance from Bottom of I-Beam to Hook | Nominal Hoist Speed (FPM) | CFM @ 90 PSI | Net Weight, Lbs. | | |
|----------------|-------------|-----------|------------------------------|---------------------|-----------------------|--|---------------------------|--------------|------------------|-------------|-----------|
| Plain | Hand Geared | Motorized | | | | | | | Plain | Hand Geared | Motorized |
| ALP-1 | ALG-1 | ALM-1 | 1 | 10 | 6'6" | 7" | 10 | 265 | 480 | 510 | 560 |
| ALP-1 1/2 | ALG-1 1/2 | ALM-1 1/2 | 1 1/2 | 10 | 6'6" | 7" | 10 | 265 | 480 | 510 | 560 |
| ALP-2 | ALG-2 | ALM-2 | 2 | 10 | 6'6" | 7" | 10 | 265 | 480 | 510 | 560 |
| ALP-3 | ALG-3 | ALM-3 | 3 | 10 | 6'6" | 8" | 5 | 265 | 580 | 610 | 660 |
| ALP-4 | ALG-4 | ALM-4 | 4 | 10 | 7'6" | 8 1/2" | 5 | 265 | 580 | 610 | 660 |
| ALP-5 | ALG-5 | ALM-5 | 5 | 10 | 8'6" | 9 1/2" | 7 | 350 | 1640 | 1700 | 1680 |
| ALP-6 | ALG-6 | ALM-6 | 6 | 10 | 8'6" | 9 1/2" | 7 | 350 | 1640 | 1700 | 1680 |
| ALP-8 | ALG-8 | ALM-8 | 8 | 10 | 9'6" | 12" | 4 | 350 | 1710 | 1840 | 1770 |
| ALP-10 | ALG-10 | ALM-10 | 10 | 10 | 10' | 12 1/2" | 3.5 | 350 | 2090 | 2170 | 2150 |
| ALP-12 | ALG-12 | ALM-12 | 12 | 10 | * | 12 1/2" | 3.5 | 350 | 2090 | 2170 | 2150 |
| ALP-16 | ALG-16 | ALM-16 | 16 | 10 | * | 14 1/2" | 2 | 350 | 2660 | 2740 | 2720 |
| ALP-20 | ALG-20 | ALM-20 | 20 | 10 | * | 18" | 1.7 | 350 | 3010 | 3170 | 3120 |
| ALP-24 | ALG-24 | ALM-24 | 24 | 10 | * | 18" | 1.7 | 350 | 3010 | 3170 | 3120 |

* Please consult the factory



Minimum Radius Curve

| Capacity | Minimum Radius Curve |
|---------------|----------------------|
| 1 1/2 - 2 Ton | 6' 6" |
| 3 - 4 Ton | 6' 6" |
| 5 - 6 Ton | 8' 6" |
| 8 Ton | 9' 6" |
| 10 Ton | 10' 0" |

For over 10 Ton, straight track operations is recommended.

Curve radius must be specified on orders.

Curves less than minimum radius may be fitted upon application.

CLEARANCE DIMENSIONS

PLAIN OR GEARED

| Capacity | A | B | C | D | E | I | F | G | H*** |
|----------|--------|---------|--------|----------|--------|--------|--------|--------|------|
| Ton | in. | in. | in. | in. | in. | in. | in. | in. | in. |
| 1 | 7 | 35 5/8 | 16 1/2 | 19 1/8 | 7 3/4 | 7 3/4 | 10 | 10 | 1/16 |
| 1 1/2 | 7 | 35 5/8 | 16 1/2 | 19 1/8 | 7 3/4 | 7 3/4 | 10 | 10 | 1/16 |
| 2 | 7 | 35 5/8 | 16 1/2 | 19 1/8 | 7 3/4 | 7 3/4 | 10 | 10 | 1/16 |
| 3 | 8 | 35 5/8 | 16 1/2 | 19 1/8 | 9 | 9 | 13 | 13 | 1/4 |
| 4 | 8 | 35 5/8 | 16 1/2 | 19 1/8 | 9 | 9 | 13 | 13 | 1/4 |
| 5 | 9 1/2 | 48 5/32 | 23 1/2 | 24 21/32 | 7 3/8 | 7 3/8 | 12 | 15 | 0 |
| 6 | 9 1/2 | 48 5/32 | 23 1/2 | 24 21/32 | 7 3/8 | 7 3/8 | 12 | 15 | 0 |
| 8 | 12 | 48 5/32 | 23 1/2 | 24 21/32 | 8 3/8 | 8 7/8 | 14 | 13 1/2 | 3/16 |
| 10 | 12 1/2 | 48 5/32 | 23 1/2 | 24 21/32 | 8 1/2 | 9 3/4 | 15 5/8 | 14 3/8 | 3/8 |
| 12 | 12 1/2 | 48 5/32 | 23 1/2 | 24 21/32 | 8 1/2 | 9 3/4 | 15 5/8 | 14 3/8 | 3/8 |
| 16 | 14 1/2 | 53 7/32 | 25 1/2 | 27 23/32 | 11 7/8 | 11 7/8 | 18 5/8 | 18 5/8 | 3/8 |
| 20 | 18 | 53 7/32 | 25 1/2 | 27 23/32 | 12 1/8 | 12 1/8 | 19 1/4 | 19 | 3/8 |
| 24 | 18 | 53 7/32 | 25 1/2 | 27 23/32 | 12 1/8 | 12 1/8 | 19 1/4 | 19 | 3/8 |

| Capacity | J | L | M | N | P* | R | S | T** | Z |
|----------|---------|---------|--------|--------|------------|--------|----------|----------|-----|
| Ton | in. | in. | in. | in. | in. | in. | in. | in. | in. |
| 1 | 1 1/8 | 1 1/8 | 4 1/2 | 7/8 | 6"l@12.5# | 5 1/4 | 6 | 15 | 15 |
| 1 1/2 | 1 1/8 | 1 1/8 | 4 1/2 | 7/8 | 6"l@12.5# | 5 1/4 | 6 | 15 | 15 |
| 2 | 1 1/8 | 1 1/8 | 4 1/2 | 7/8 | 6"l@12.5# | 5 1/4 | 6 | 15 | 15 |
| 3 | 1 11/32 | 1 11/32 | 6 3/8 | 15/16 | 8"l@18.4# | 5 3/16 | 8 | 10 1/2 | 12 |
| 4 | 1 11/16 | 1 11/32 | 6 3/8 | 15/16 | 8"l@18.4# | 5 3/16 | 8 | 10 1/2 | 12 |
| 5 | 1 11/16 | 1 13/32 | 7 3/16 | 1 1/8 | 10"l@25.4# | | 9 3/8 | 20 7/16 | |
| 6 | 1 11/16 | 1 13/32 | 7 3/16 | 1 1/8 | 10"l@25.4# | | 9 3/8 | 20 7/16 | |
| 8 | 2 1/16 | 1 11/16 | 8 1/4 | 1 | 10"l@25.4# | | 10 | 20 11/16 | |
| 10 | 2 1/4 | 1 3/4 | 9 3/4 | 1 1/8 | 12"l@31.8# | | 11 11/16 | 18 5/8 | |
| 12 | 2 1/4 | 1 3/4 | 9 3/4 | 1 1/8 | 12"l@31.8# | | 11 11/16 | 18 5/8 | |
| 16 | 3 | 2 | 11 3/4 | 1 1/8 | 15"l@42.9# | | 14 13/32 | 10 3/4 | |
| 20 | 3 5/8 | 2 | 11 3/4 | 1 3/16 | 18"l@54.7# | | 14 13/32 | 11 1/8 | |
| 24 | 3 5/8 | 2 | 11 3/4 | 1 3/16 | 18"l@54.7# | | 14 13/32 | 11 1/8 | |

P* - Minimum standard I-beam for proper wheel running clearance only. Customers must verify their beam is adequate for the applied loading.

H*** - From the face of wheel to the end of the axle.

T** - For standard motor and brake only. Hoists are designed for H-3 duty.

CHESTER HOIST

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