



## AL Series Hoists

### Features

#### **Certified Spark Resistant for Safe Operation**

All hoists are  certified spark resistant (Explosive atmospheres that require features that reduce the risk of spark) to level  II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive. (See page 17 for more information.)



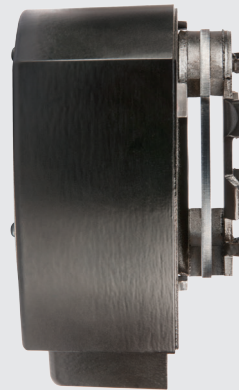
#### **Lubrication Free**

AL series air hoists are suitable for applications where a clean environment is a necessity. The hoists can operate completely dry leaving no lubrication in the exhaust air and are typically used in the food, chemical and pharmaceutical industries. (Note: Hoists can also operate with oil for longer vane life.)



#### **Heavy-Duty Disk Brake**

Harrington's patented self-adjusting disk brake mechanism eliminates load drift and ensures fine feathering control.



#### **Vane Motor**

Permits smooth operation and controlled travel.



### Surface Hardened Steel Load Chain

Zinc-plated and blue-chromated for corrosion resistance and extended wear.



### Bearing Supported Planetary Gearing System

For continuous operation at full load.



### Lightweight and Compact Body

Allows for easy operation, transportation and provides exceptional headroom.



### Hook and Latch System

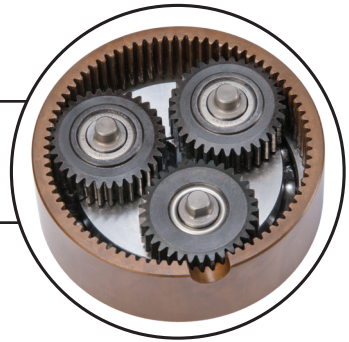
Zinc-plated and blue-chromated and swivel 360 degrees.



## AL Series Hoists

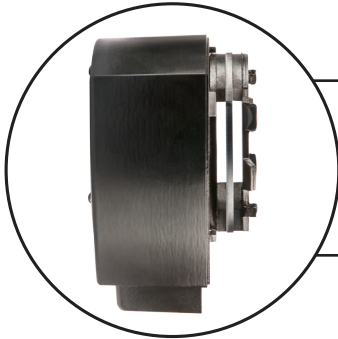
### Bearing Supported Planetary Gearing System

For continuous operation at full load.





### Heavy-Duty Disk Brake

Harrington's patented disk brake mechanism eliminates load drift and ensures fine feathering control.

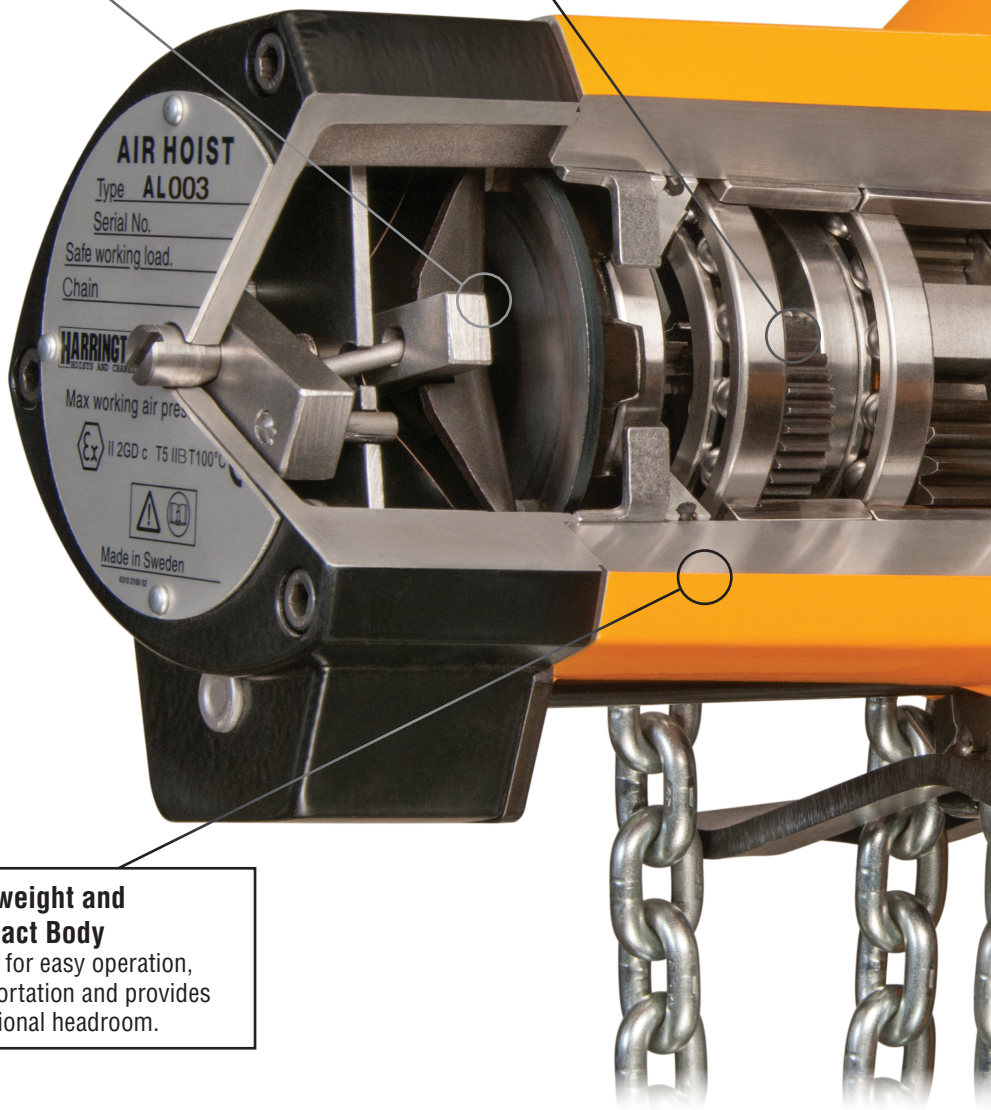


### Certified Spark Resistant for Safe Operation

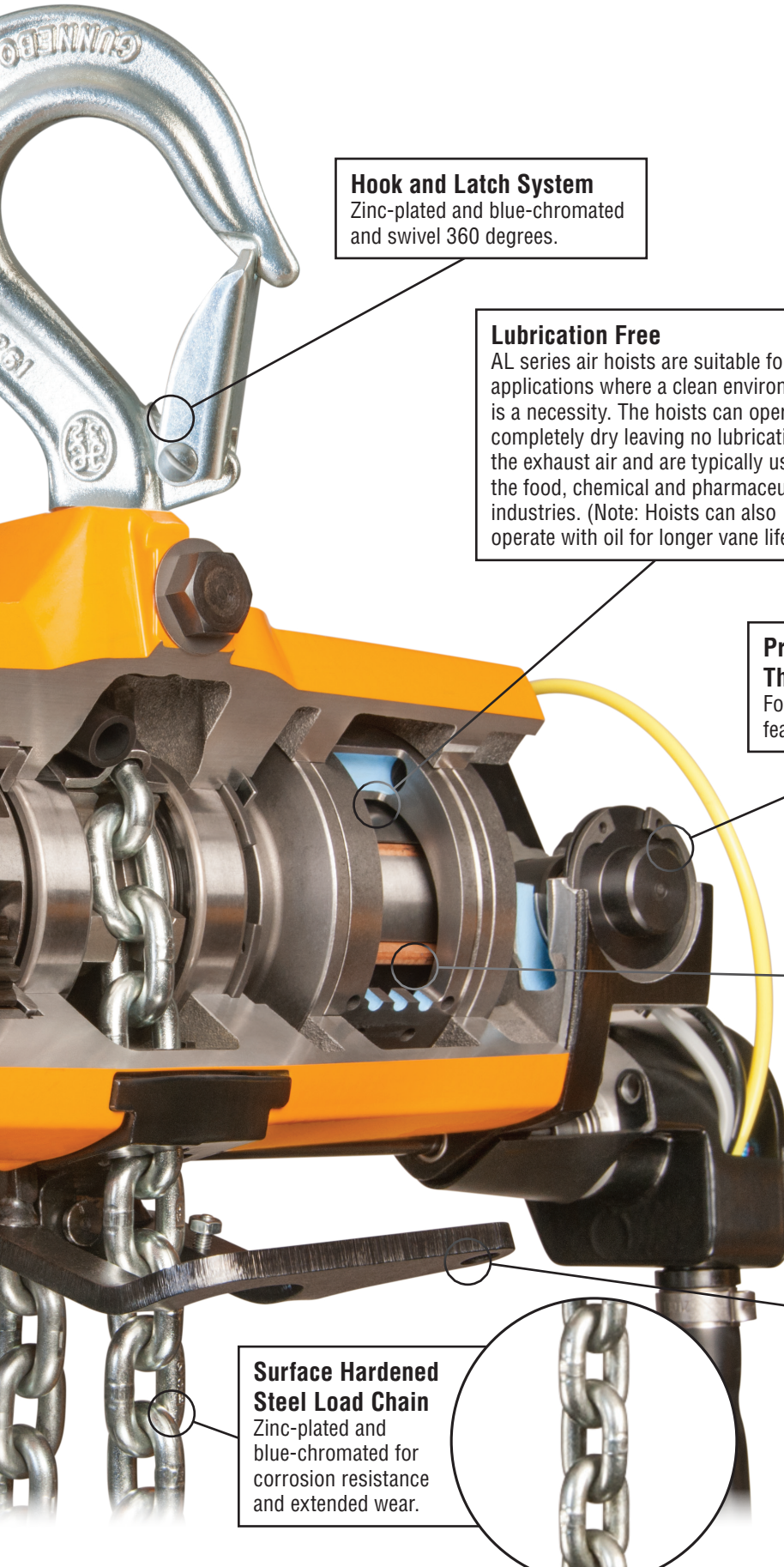
All hoists are  certified spark resistant (Explosive atmospheres that require features that reduce the risk of spark) to level  II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive. (See page 17 for more information.)

### Lightweight and Compact Body

Allows for easy operation, transportation and provides exceptional headroom.







**Hook and Latch System**  
Zinc-plated and blue-chromated and swivel 360 degrees.

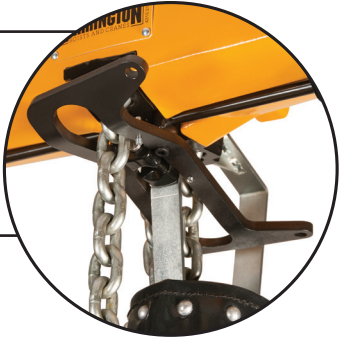
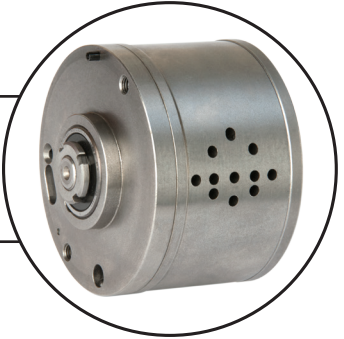
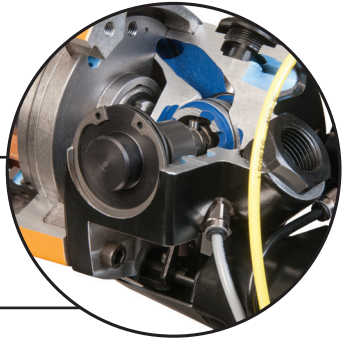
**Lubrication Free**  
AL series air hoists are suitable for applications where a clean environment is a necessity. The hoists can operate completely dry leaving no lubrication in the exhaust air and are typically used in the food, chemical and pharmaceutical industries. (Note: Hoists can also operate with oil for longer vane life.)

**Precision Throttle Valve**  
For outstanding feathering control.

**Vane Motor**  
Permits smooth operation and controlled travel.




**Surface Hardened Steel Load Chain**  
Zinc-plated and blue-chromated for corrosion resistance and extended wear.

**Limit Switches**  
Upper / lower limit switches are standard for hoist protection.





## AL Certified Spark Resistant and Lube Free Air Hoists with Pendant and Cord Controls and Hook Suspension



Harrington's AL Series  certified spark resistant and lube free air hoists can operate without air supply lubrication which leaves the surrounding environment free of oil mist from the air exhaust. Built for precise load positioning with pendant, cord or twist rod control this hoist is perfect for use in food, chemical and pharmaceutical industries or in any area where oil mist cannot be tolerated. Hoists can also operate with oil for longer vane life. All hoists are  certified spark resistant to level  II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive.

### Features and Benefits

#### Certified Spark Resistant for Safe Operation

All hoists are  certified spark resistant (Explosive atmospheres that require features that reduce the risk of spark) to level  II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive. (See page 17 for more information.)

#### Lubrication Free

AL series air hoists are suitable for applications where a clean environment is a necessity. The hoists can operate completely dry leaving no lubrication in the exhaust air and are typically used in the food, chemical and pharmaceutical industries. (Note: Hoists can also operate with oil for longer vane life.)

#### Heavy-Duty Disk Brake

Harrington's patented disk brake mechanism eliminates load drift and ensures fine feathering control.

#### Vane Motor

Permits smooth operation and controlled travel.

#### Surface Hardened Steel Load Chain

Zinc-plated and blue-chromated for corrosion resistance and extended wear.

#### Bearing Supported Planetary Gearing System

For continuous operation at full load.

#### Lightweight and Compact Body

Allows for easy operation, transportation and provides exceptional headroom.

#### Hook and Latch System

Zinc-plated and blue-chromated and swivel 360 degrees.

### Standard Hoist Specifications

#### Capacity Range

¼ - 5 Ton

#### Standard Lift

10' (longer lengths available)

#### Duty Cycle

Unlimited

#### Pendant or Cord Length

4' less than lift  
(longer lengths available)

#### Air Filtration

Maximum 30 micron air filter  
or finer

#### Air Supply Requirement

90 PSI

#### Air Inlet Port

½" NPT

#### Air Supply Hose Minimum Size

½"

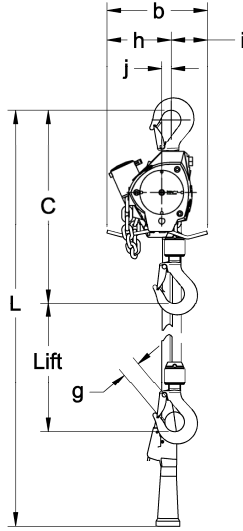
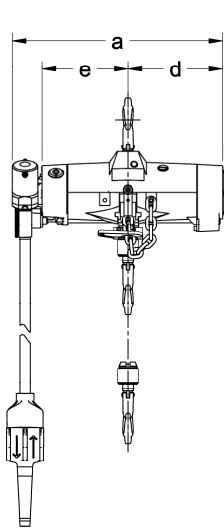
#### Operating Conditions

Temperature Range +14° to 104° F  
Humidity 85% or less

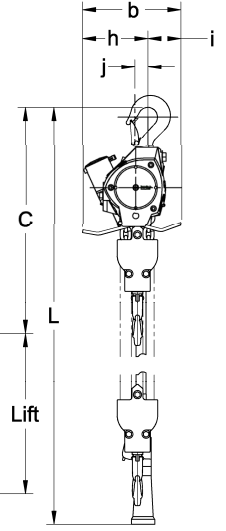
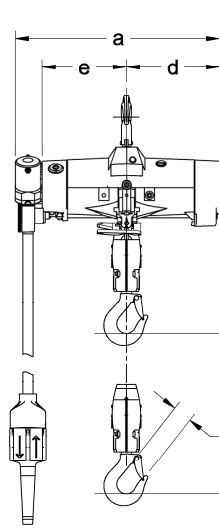
#### Options

Canvas Chain Container  
Steel Chain Container  
Twist Rod  
Self-locking Hooks  
Filter, Lubricator, Regulator  
Load Limiter  
Additional spark resistant components—consult Customer Service

**HARRINGTON**  **CERTIFIED SPARK RESISTANT AND LUBE FREE AIR HOISTS**



AL003P



AL010P2

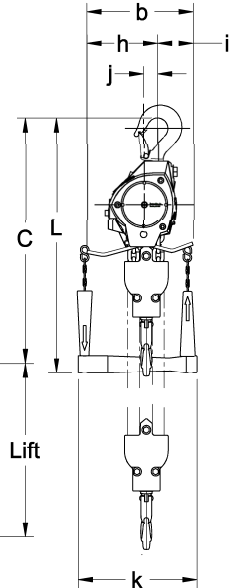
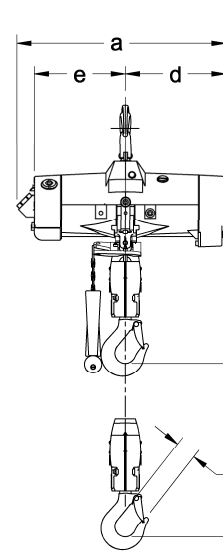
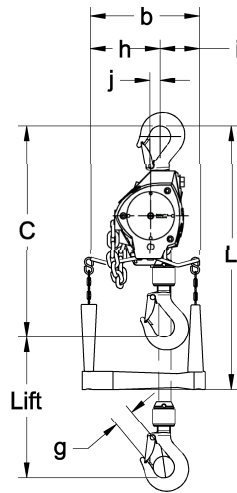
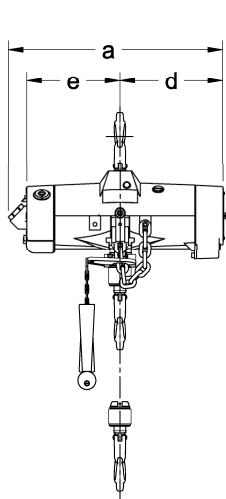
**AL PENDANT MODEL—SPECIFICATIONS**

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	w/Full Load	No Load	w/Full Load			
1/4	AL003P	10	7.5	85 / 66	61 / 105	98 / 64	78 / 72	6.5x1	39	0.6
1/2	AL005P			78 / 49	41 / 72	102 / 68	81 / 74	6.5x1	39	0.6
1	AL010P2			39 / 25	21 / 36	102 / 68	81 / 74	6.5x2	55	0.6
3	AL030P			20 / 18	10 / 20	102 / 76	85 / 81	11.5x1	123	1.9
5	AL050P2		8.6	9.8 / 8.9	5.2 / 9.8	102 / 76	85 / 81	11.5x2	234	1.9

**AL PENDANT MODEL—DIMENSIONS**

Capacity (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
1/4	AL003P	14.8	15.9	7.7	7.2	6.6	1.1	4.8	2.9	0.7
1/2	AL005P	14.8	15.9	7.7	7.2	6.6	1.1	5.1	2.6	1.0
1	AL010P2	17.5	15.9	7.7	7.2	6.6	1.1	5.1	2.6	1.0
3	AL030P	22.6	22.0	13.7	10.4	9.6	2.0	7.8	5.9	1.5
5	AL050P2	30.9	22.0	13.7	10.4	9.6	2.4	8.9	4.7	2.7

## AL Certified Spark Resistant and Lube Free Air Hoists with Pendant and Cord Controls and Hook Suspension



AL003C

AL010C2

### AL CORD MODEL—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	w/Full Load	No Load	w/Full Load			
1/4	AL003C	10	7.5	85 / 66	61 / 105	98 / 64	78 / 72	6.5x1	37.5	0.6
1/2	AL005C			78 / 49	41 / 72	102 / 68	81 / 74	6.5x1	37.5	0.6
1	AL010C2			39 / 25	21 / 36	102 / 68	81 / 74	6.5x2	53	0.6
3	AL030C			20 / 18	10 / 20	102 / 76	85 / 81	11.5x1	121	1.9
5	AL050C2		8.6	9.8 / 8.9	5.2 / 9.8	102 / 76	85 / 81	11.5x2	232	1.9


For optional Twist Rod Control – Rod L = 3.5 to 6.5 feet.

### AL CORD MODEL—DIMENSIONS

Capacity (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)
1/4	AL003C	14.8	15.4	7.7	7.2	6.7	1.1	4.8	2.9	0.7	8.7
1/2	AL005C	14.8	15.4	7.7	7.2	6.7	1.1	5.1	2.6	1.0	8.7
1	AL010C2	17.5	15.4	7.7	7.2	6.7	1.1	5.1	2.6	1.0	8.7
3	AL030C	22.6	21.5	13.7	10.4	9.6	2.0	7.8	5.9	1.5	8.7
5	AL050C2	30.9	21.5	13.7	10.4	9.6	2.4	8.9	4.7	2.7	8.7



## AL Certified Spark Resistant and Lube Free Air Hoists with Pendant and Cord Controls and Push and Geared Trolleys



Harrington's AL Series  certified spark resistant and lube free air hoists can be easily suspended from our PT push and GT geared trolleys for mobility. These trolleys feature specially designed contoured wheels for reliable tracking and have sealed ball bearings, which reduce maintenance and provide smooth operation.

### Features and Benefits

#### Certified Spark Resistant for Safe Operation

All hoists are  certified spark resistant (Explosive atmospheres that require features that reduce the risk of spark) to level  II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive. (See page 17 for more information.)

#### Lubrication Free

AL series air hoists are suitable for applications where a clean environment is a necessity. The hoists can operate completely dry leaving no lubrication in the exhaust air and are typically used in the food, chemical and pharmaceutical industries. (Note: Hoists can also operate with oil for longer vane life.)

#### Heavy-Duty Disk Brake

Harrington's patented disk brake mechanism eliminates load drift and ensures fine feathering control.

#### Vane Motor

Permits smooth operation and controlled travel.

#### Surface Hardened Steel Load Chain

Zinc-plated and blue-chromated for corrosion resistance and extended wear.

#### Bearing Supported Planetary Gearing System

For continuous operation at full load.

#### Lightweight and Compact Body

Allows for easy operation, transportation and provides exceptional headroom.

#### Hook and Latch System

Zinc-plated and blue-chromated and swivel 360 degrees.

### Standard Trolley Specifications

#### Capacity Range

PT Push – 1/4 Ton – 5 Ton

GT Geared – 1/4 – 5 Ton

#### Shafts

Standard shafts fit wide range

Longer shafts for wider beams

Spacers for easy adjustments

#### Drop Stops

Standard

#### Bumpers

Optional

#### Standard Hand Chain Drop

On geared trolleys

2' less than lift

(longer drops available)

#### Wheels

All steel

Sealed ball bearings

Fit flat or tapered beam flange

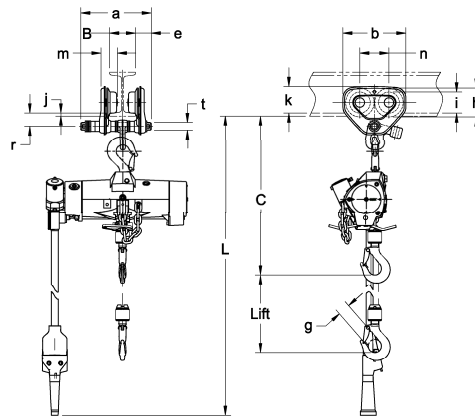
#### Standard Hoist Pendant Drop

4' less than lift

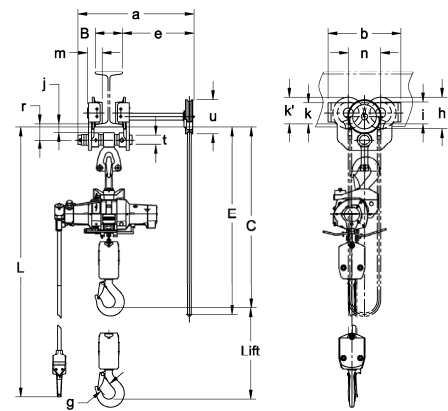
(longer drops available)



# AL Certified Spark Resistant and Lube Free Air Hoists with Pendant and Cord Controls and Push and Geared Trolleys



ALP005P



ALG050P2

## AL PENDANT MODEL WITH PUSH OR GEARED TROLLEYS—SPECIFICATIONS

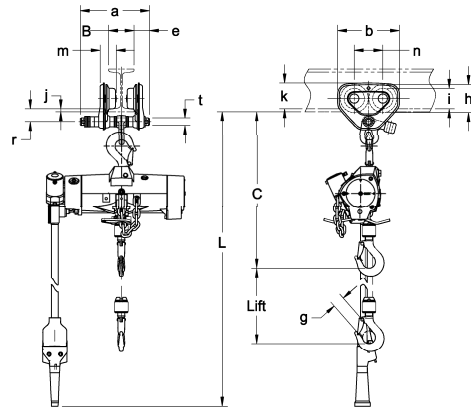
Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Flange Width Adjustability B (in)		Minimum* Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	w/Full Load	No Load	w/Full Load	Standard	Optional				
1/4	ALP(ALG)003P	10	7.5	85 / 66	61 / 105	98 / 64	78 / 72	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	13.8 (17.7)	6.5 x 1	48 (68)	0.6 (1.2)
1/2	ALP(ALG)005P			78 / 49	41 / 72	102 / 68	81 / 74		5.01 to 8.00 OR 8.01 to 12.00	17.7	6.5 x 1	48 (68)	0.6 (1.2)
1	ALP(ALG)010P2			39 / 25	21 / 36	102 / 68	81 / 74	2.28 to 5.00	25.6	6.5 x 2	70 (83)	0.6 (1.2)	
3	ALP(ALG)030P			20 / 18	10 / 20	102 / 76	85 / 81	3.23 to 6.02	6.03 to 12.00	11.5 x 1	169 (185)	1.9 (2.5)	
5	ALP(ALG)050P2			8.6	9.8 / 8.9	5.2 / 9.8	102 / 76	85 / 81	4.92 to 7.02	7.03 to 12.00	78.7	11.5 x 2	329 (360)

Figures in parenthesis are data for geared trolley  
 \*Minimum flange width for curved beam: 1 Ton Push and 1/8 to 1Ton Geared = 2.87 in.  
 3 Ton Push and Geared = 3.50 in.

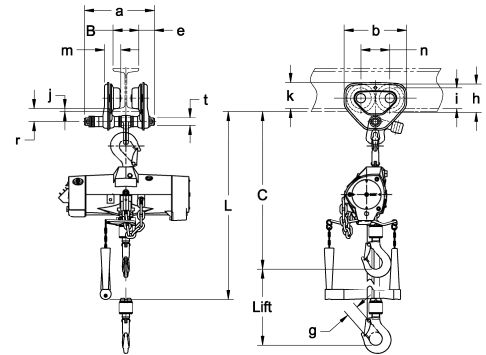
## AL CORD MODEL WITH PUSH OR GEARED TROLLEYS—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Flange Width Adjustability B (in)		Minimum* Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	w/Full Load	No Load	w/Full Load	Standard	Optional				
1/4	ALP(ALG)003C	10	7.5	85 / 66	61 / 105	98 / 64	78 / 72	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	13.8 (17.7)	6.5 x 1	46 (66)	0.6 (1.2)
1/2	ALP(ALG)005C			78 / 49	41 / 72	102 / 68	81 / 74		5.01 to 8.00 OR 8.01 to 12.00	17.7	6.5 x 1	46 (66)	0.6 (1.2)
1	ALP(ALG)010C2			39 / 25	21 / 36	102 / 68	81 / 74	2.28 to 5.00	25.6	6.5 x 2	68 (81)	0.6 (1.2)	
3	ALP(ALG)030C			20 / 18	10 / 20	102 / 76	85 / 81	3.23 to 6.02	6.03 to 12.00	11.5 x 1	167 (182)	1.9 (2.5)	
5	ALP(ALG)050C2			8.6	9.8 / 8.9	5.2 / 9.8	102 / 76	85 / 81	4.92 to 7.02	7.03 to 12.00	78.7	11.5 x 2	327 (358)

Figures in parenthesis are data for geared trolley  
 \*Minimum flange width for curved beam: 1 Ton Push and 1/8 to 1Ton Geared = 2.87 in.  
 3 Ton Push and Geared = 3.50 in.



ALP005P

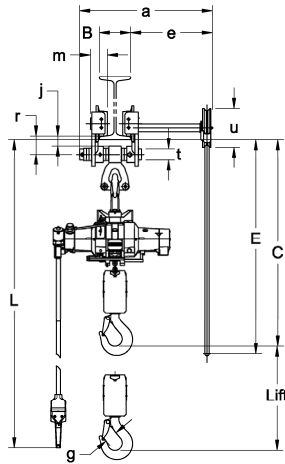


ALP005C

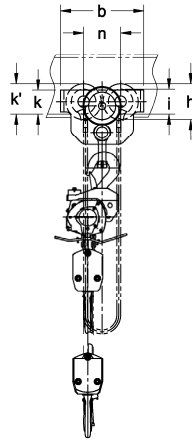
**AL PENDANT AND CORD MODELS WITH PUSH TROLLEY—DIMENSIONS**

Capacity (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/4	ALP003C/P	18.1	8.0	7.2	1.8	1.1	3.2	2.4	0.8	3.0	2.7	3.3	1.5	0.9
1/2	ALP005C/P	18.1	8.0	7.2	1.8	1.1	3.2	2.4	0.8	3.0	2.7	3.3	1.5	0.9
1	ALP010C/P2	21.3	9.8	9.3	2.2	1.1	4.2	2.8	1.1	3.7	3.1	4.4	2.0	1.0
3	ALP030C/P	28.9	12.6	12.8	3.1	2.0	5.8	3.9	1.4	5.3	4.3	6.0	2.7	1.4
5	ALP050C/P2	34.2	11.7	13.7	2.1	2.4	6.7	4.6	-	5.7	3.6	7.0	4.6	1.7

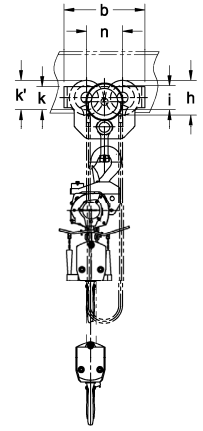
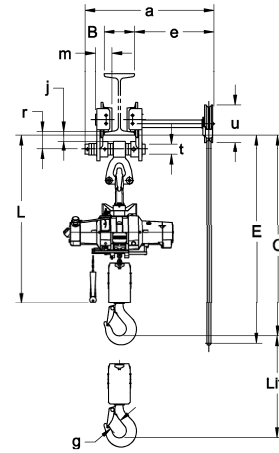
**AL  Certified Spark Resistant and Lube Free Air Hoists with Pendant and Cord Controls and Push and Geared Trolleys**



ALG050P2



ALG050C2



**AL PENDANT AND CORD MODELS WITH GEARED TROLLEY—DIMENSIONS**

Capacity (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/4	ALG003C/P	18.6	9.5	20.9	9.3	13.3	1.1	4.2	2.8	1.1	3.7	4.2	2.2	4.4	2.0	1.0	7.2
1/2	ALG005C/P	18.6	9.5	20.9	9.3	13.3	1.1	4.2	2.8	1.1	3.7	4.2	2.2	4.4	2.0	1.0	7.2
1	ALG010C/P2	21.3	9.5	20.9	9.3	13.3	1.1	4.2	2.8	1.1	3.7	4.2	2.2	4.4	2.0	1.0	7.2
3	ALG030C/P	28.9	11	25.4	12.8	15.9	2.0	5.8	3.9	1.4	5.3	4.5	3.1	6.0	2.7	1.4	7.2
5	ALG050C/P2	40.6	11	25.1	13.7	15.5	2.4	6.7	4.6	1.8	4.5	5.7	3.2	7.0	4.6	1.7	7.2