AIR HOIST

ENDO

YouTube ENDO KOGYO

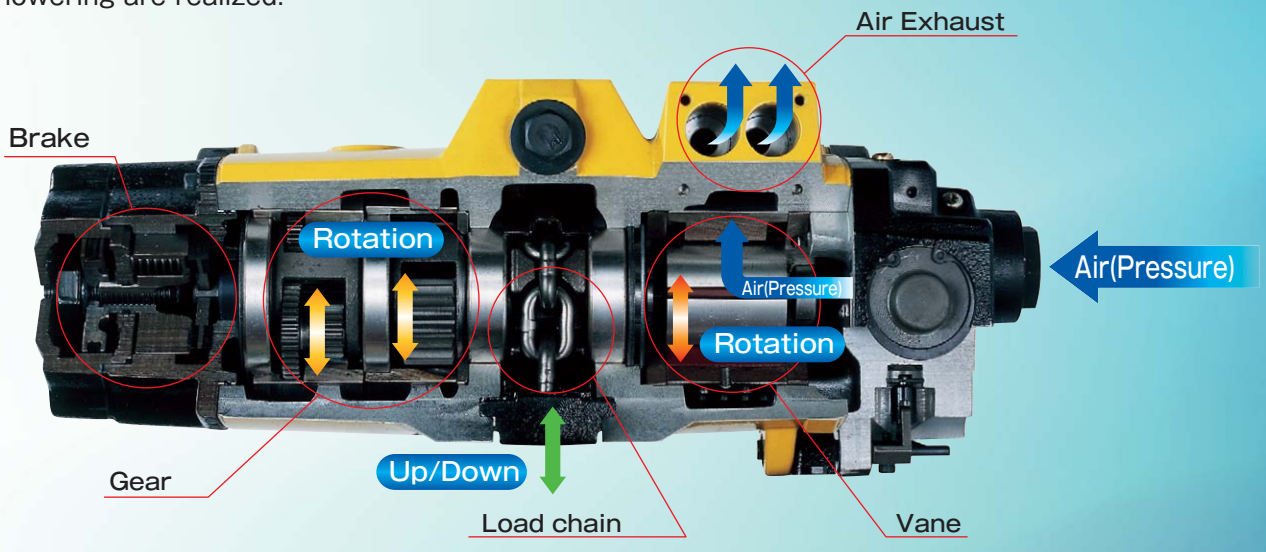
ENDO high efficiency air hoists achieve speedy and safe work.

Advantages;

- Small and compact body provides easy handling.
- High-speed operation provided by ENDO air hoists serves the improved working efficiency to the work which requires considerable frequency.
- Smooth and step less operation avails for precise works like Jig setting.
- Non-step speed control is available. The operation speed depends on the pushing degree of the push buttons or the pulling degree of the control rope.
- Easy installation. The air hoist works after hose connecting. No adjustment is required.
  ＊Always make sure of air blow before connecting the hose with an air hoist. This is important to avoid the unexpected trouble of the control valve etc.
- ENDO air motor provides safe working condition against the work in the risk of explosion like chemical factory.

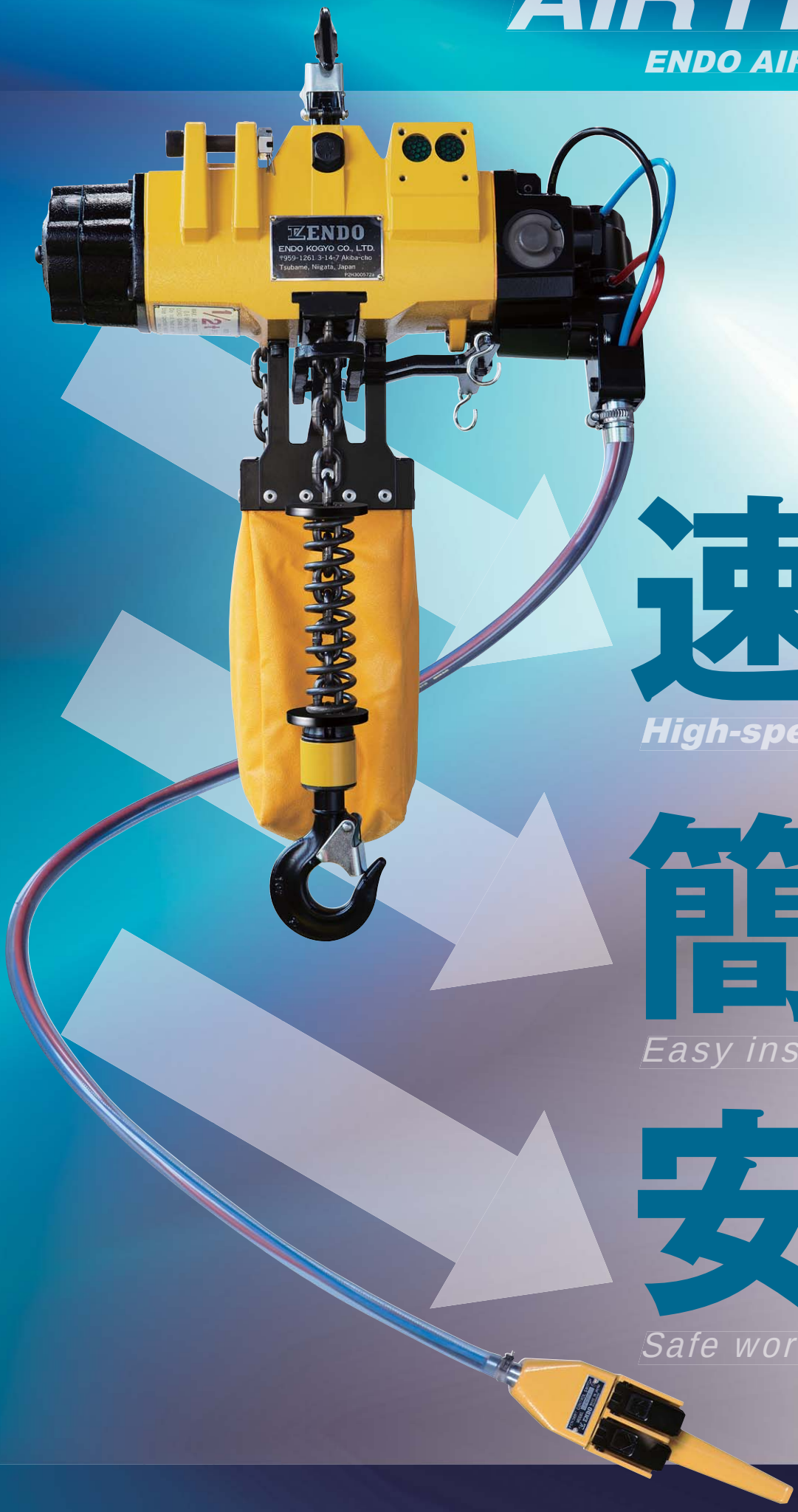
Structure of **ENDO** air hoist

The vane motor is applied to ENDO air hoists. One set of vanes is composed of seven vanes and incorporated in rotor. These vanes are movable toward radius direction and moves in the biased cylinder receiving air pressure. The moving vanes move the rotor and finally lifting and lowering are realized.



AIR HOIST

ENDO AIR HOIST SERIES



速い

High-speed operation

簡単

Easy installation

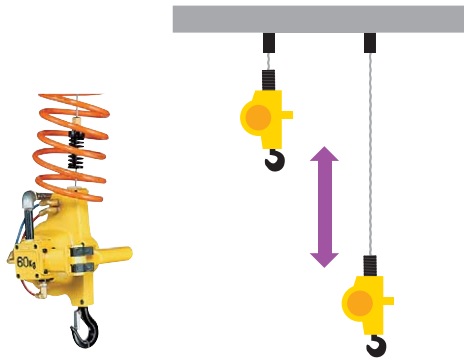
安全

Safe working condition

Wire rope series EHW / AH

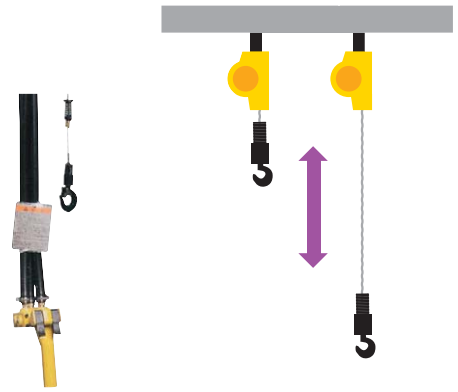
EHW-60 , EHW-120

Body / hook moving type



EHW-60R , EHW-120R , AH-250R

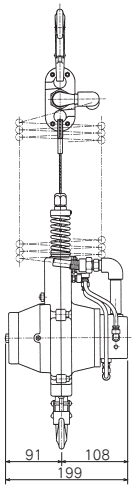
Hook moving type

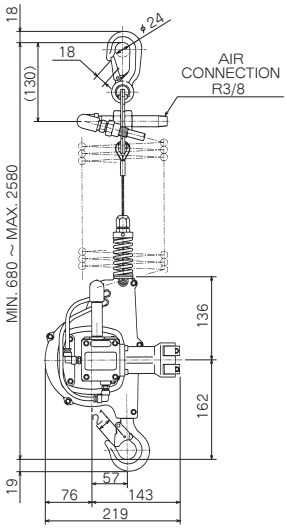


EHW-60 , EHW-120

FUNCTION

- Wire rope type
- Air motor trolley (on request)
- Button control
- Plain trolley (on request)





Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Air inlet	Mass (kg)
EHW-60	60	1.9	0.4 {4}	18.5	0.55	R 3/8	9.2
			0.5 {5}	22.5	0.7		
			0.6 {6}	26.0	0.88		
EHW-120	120	1.9	0.4 {4}	11.0	0.59	R 3/8	9.4
			0.5 {5}	13.5	0.75		
			0.6 {6}	16.0	0.93		

Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Both of cable extension and stroke extension are not available on EHW series and AH-250R.
3. Chain hoists are recommended for the frequent operation.
4. Application; Indoor -10℃~+50℃(Temperature)

CHAIN TYPE

Load chain series AT / ATC / EHL

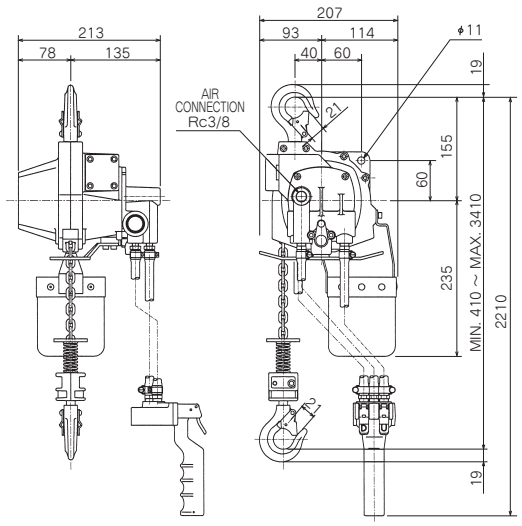
ENDO chain hoists employ the surface hardened load chain with Grade DAT and provide long life and less maintenance cost.

EHL series / select operation device

AT-60K , AT-125K

FUNCTION

- Chain type
- Air motor trolley (on request)
- Button control
- Plain trolley (on request)
- Chain extension (on request)



*Length of control hose is 1.8m.

Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
AT-60K	60	3	0.4{4}	16.5	0.52	4.0×1	Rc 3/8	12.3
			0.5{5}	20.0	0.67			
			0.6{6}	23.5	0.85			
AT-125K	125	3	0.4{4}	10.0	0.55	4.0×1	Rc 3/8	12.5
			0.5{5}	12.0	0.71			
			0.6{6}	14.5	0.9			

Note
1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

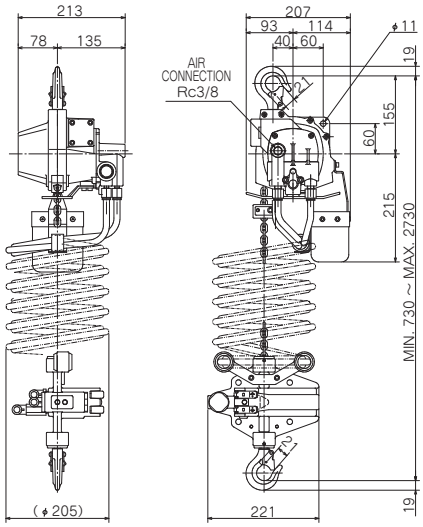
ENDO AIR HOIST AT.ATC SERIES

60/125kg

ATC-60K , ATC-125K

FUNCTION

- Chain type
- Air motor trolley (on request)
- Button control (D U)
- Plain trolley (on request)



Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
ATC-60K	60	2	0.4{4}	14.0	0.52	4.0×1	Rc 3/8	14.3
			0.5{5}	18.0	0.67			
			0.6{6}	20.0	0.85			
ATC-125K	125	2	0.4{4}	6.5	0.55	4.0×1	Rc 3/8	14.5
			0.5{5}	10.5	0.71			
			0.6{6}	12.0	0.9			

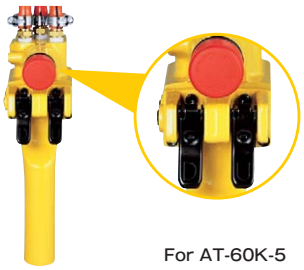
AT-60K-5 , AT-125K-5 , ATC-60K-5 , ATC-125K-5

STOP It is the model equipped emergency stop button as standard.

FUNCTION

- Chain type
- Air motor trolley (on request)
- Button control (D U)
- Plain trolley (on request)
- Emergency stop (STOP)

Ⓔx Ⅱ 2 G / D Ⅱ B T 5 (X)



For AT-60K-5

For ATC-60K-5

*Length of control hose is 1.8m.

Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
AT-60K-5	60	3	0.4{4}	16.5	0.52	4.0×1	Rc 3/8	13.0
			0.5{5}	20.0	0.67			
			0.6{6}	23.5	0.85			
AT-125K-5	125	3	0.4{4}	10.0	0.55	4.0×1	Rc 3/8	13.2
			0.5{5}	12.0	0.71			
			0.6{6}	14.5	0.9			
ATC-60K-5	60	2	0.4{4}	14.0	0.52	4.0×1	Rc 3/8	14.3
			0.5{5}	18.0	0.67			
			0.6{6}	20.0	0.85			
ATC-125K-5	125	2	0.4{4}	6.5	0.55	4.0×1	Rc 3/8	14.5
			0.5{5}	10.5	0.71			
			0.6{6}	12.0	0.9			

Ⓔx ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Note

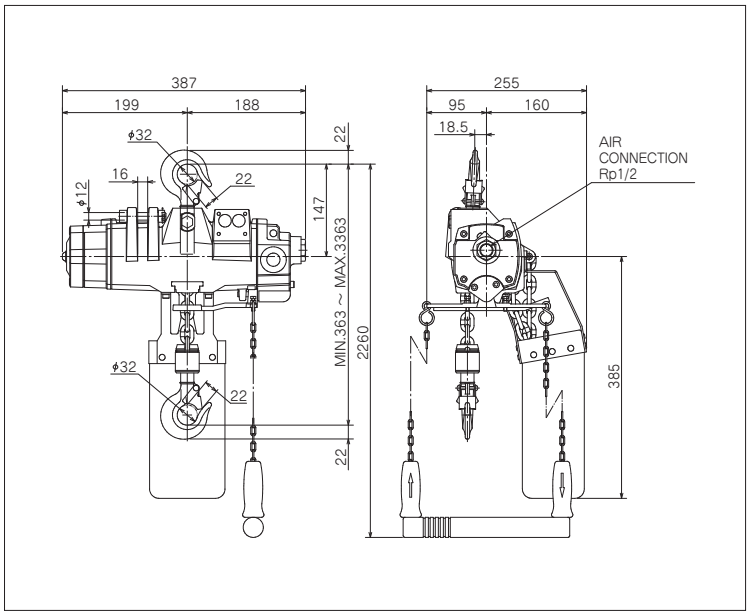
1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

ENDO AIR HOIST EHL SERIES

250/490kg

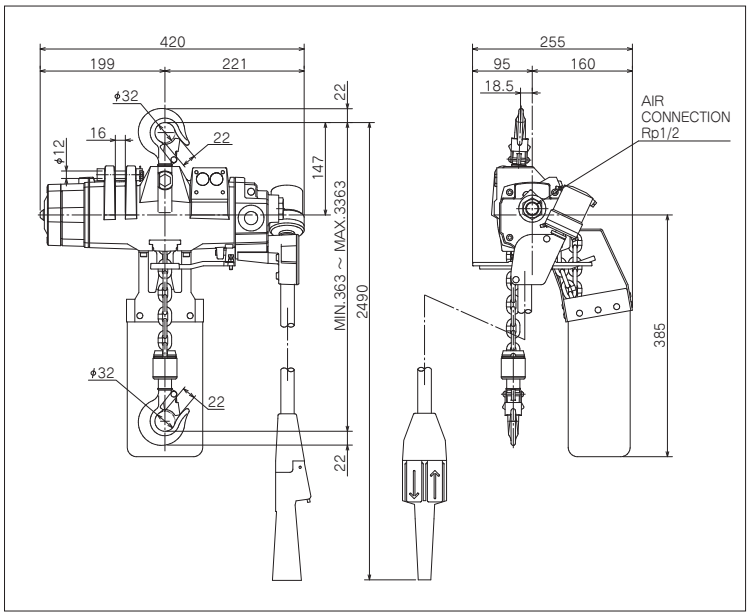
EHL-025TS , EHL-049TS

EHL-025TS , EHL-049TS



*The length of control chain is 2m.

EHL-025TS PCS-1
EHL-049TS PCS-1



*Length of control tube is 2m.

FUNCTION

Chain type

Pendant control switch (on request)

Emergency stop button (on request)

Chain extension (on request)

Air motor trolley (on request)

Overload protector (on request)

Ⓔx Ⅱ 2 G / D Ⅱ B T 5 (X)

Ⓔx ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-025TS	250	3	0.4{4}	12.0	0.9	6.3×1	Rp 1/2	20.0
			0.5{5}	16.0	1.3			
			0.6{6}	18.0	1.6			
EHL-049TS	490		0.4{4}	7.5	0.95			
			0.5{5}	9.0	1.3			
			0.6{6}	10.5	1.65			

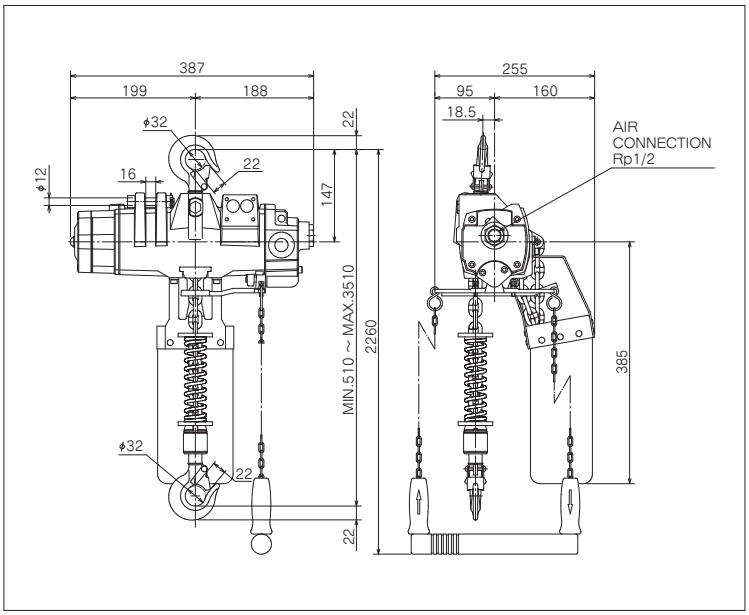
Note) The extension of control tube is available up to 6m (total 8m length).

Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

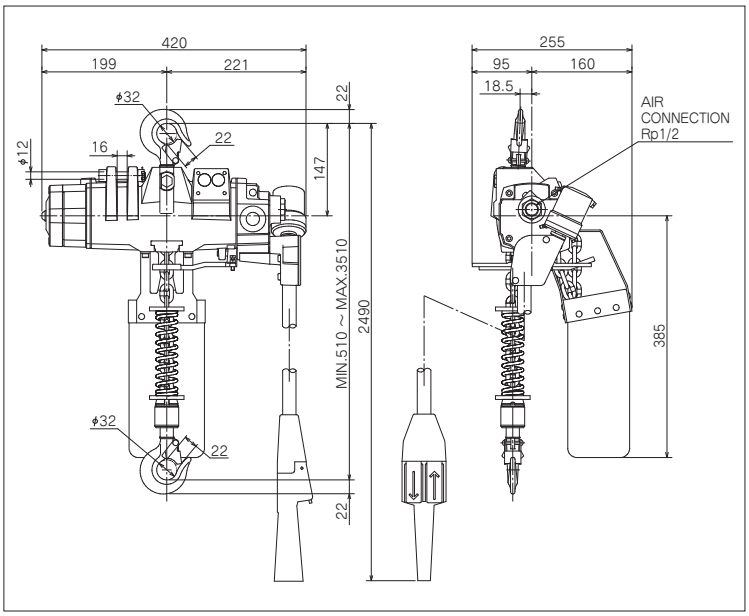
EHL-05TS

EHL-05TS



*The length of control chain is 2m.

EHL-05TS PCS-1



*Length of control tube is 2m.

FUNCTION

Chain type

Pendant control switch (on request)

Emergency stop button (on request)

Chain extension (on request)

Air motor trolley (on request)

Overload protector (on request)

Ⅱ 2 G / D Ⅱ B T 5 (X)

ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-05TS	500	3	0.4{4}	7.5	0.95	6.3×1	Rp 1/2	20.0
			0.5{5}	9.0	1.3			
			0.6{6}	10.5	1.65			

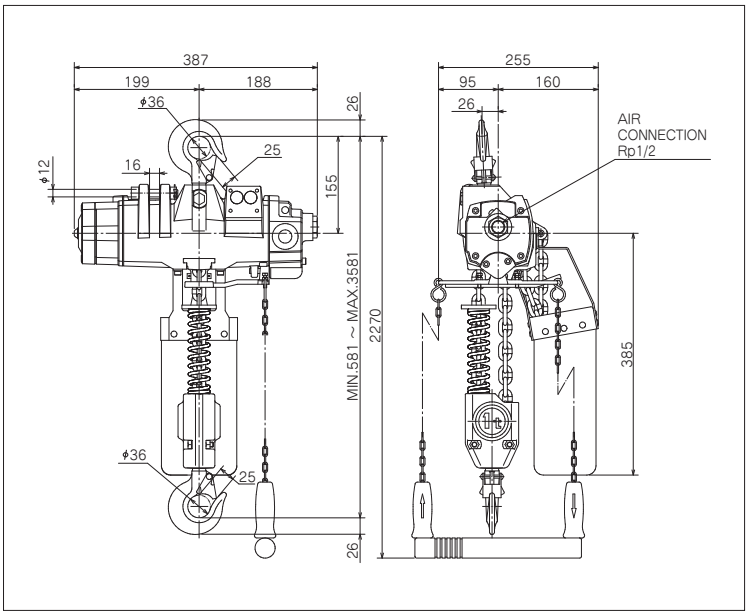
Note) The extension of control tube is available up to 6m (total 8m length).

Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

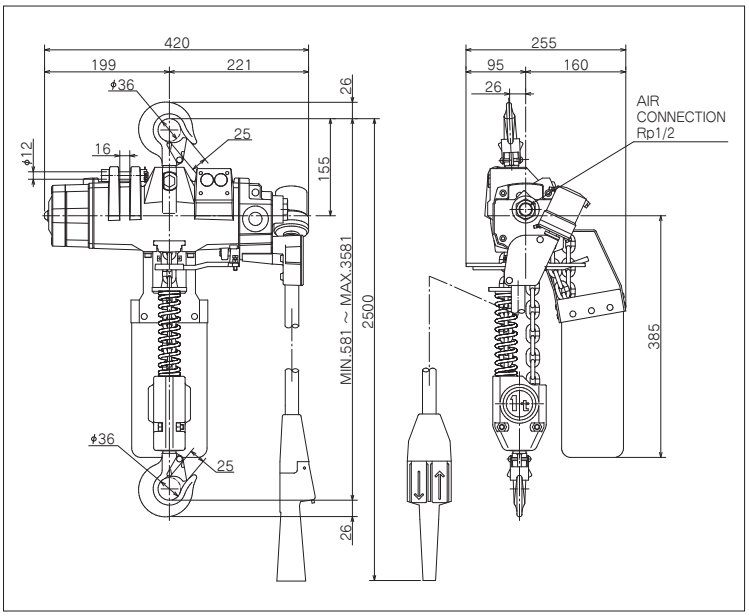
EHL-1TW

EHL-1TW



*The length of control chain is 2m.

EHL-1TW PCS-1



*Length of control tube is 2m.

FUNCTION

Chain type

Pendant control switch (on request)

Emergency stop button (on request)

Chain extension (on request)

Air motor trolley (on request)

Overload protector (on request)

Ⅱ 2 G / D Ⅱ B T 5 (X)

ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-1TW	1	3	0.4{4}	3.7	0.95	6.3×2	Rp 1/2	26.0
			0.5{5}	4.5	1.3			
			0.6{6}	5.2	1.65			

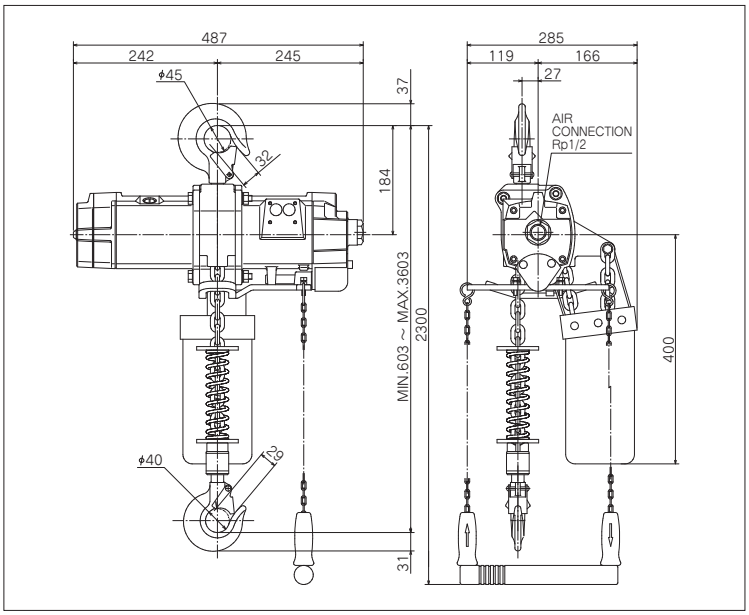
Note) The extension of control tube is available up to 6m (total 8m length).

Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

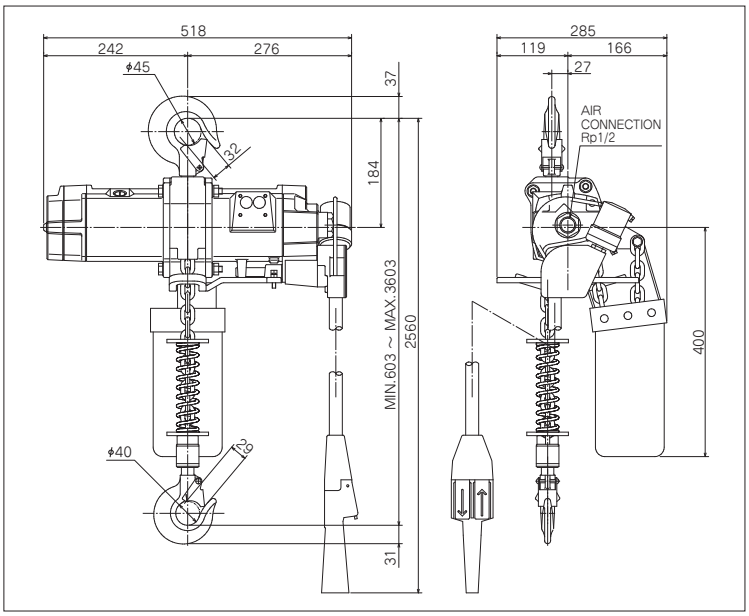
EHL-1TS

EHL-1TS



*The length of control chain is 2m.

EHL-1TS PCS-2



*Length of control tube is 2m.

FUNCTION

Chain type

Pendant control switch (on request)

Emergency stop button (on request)

Chain extension (on request)

Air motor trolley (on request)

Overload protector (on request)

Ⅱ2 G / D Ⅱ B T 5 (X)

ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

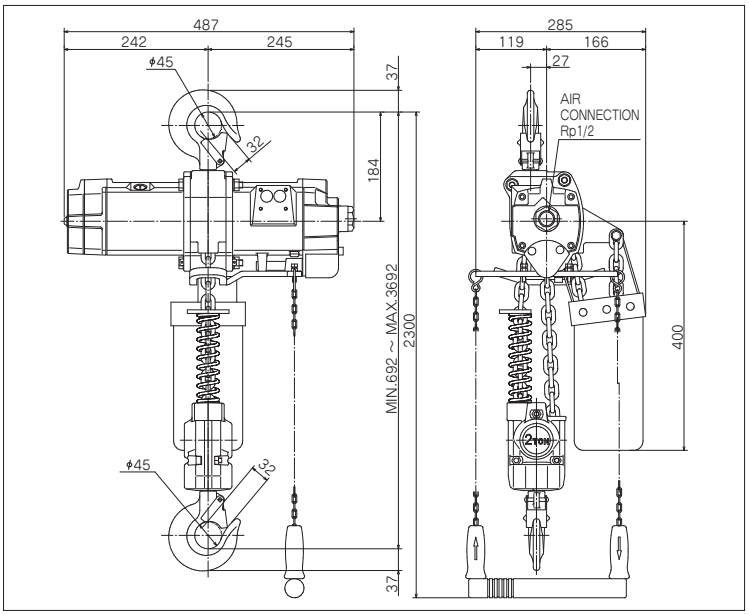
Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-1TS	1	3	0.4{4}	4.0	1.0	7.1×1	Rp 1/2	34.0
			0.5{5}	5.2	1.4			
			0.6{6}	6.0	1.8			

Note) The extension of control tube is available up to 6m (total 8m length).

Note
1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

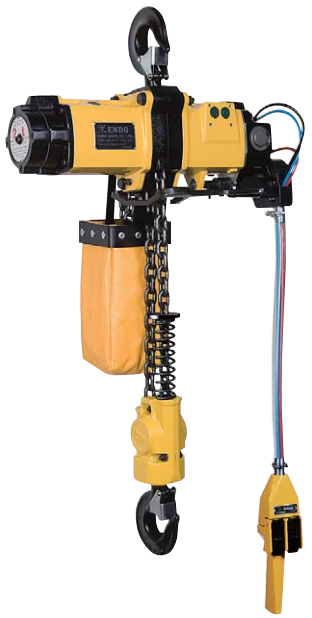
EHL-2TW

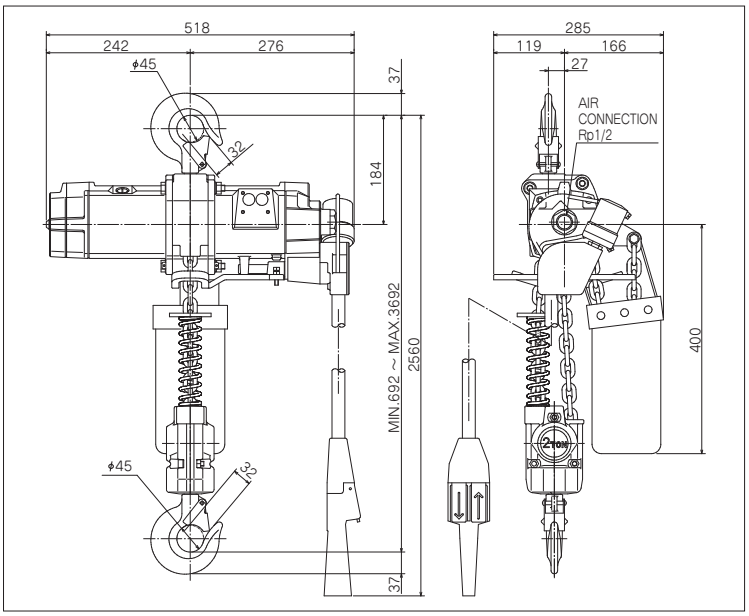
EHL-2TW



*The length of control chain is 2m.

EHL-2TW PCS-2





*Length of control tube is 2m.

FUNCTION

Chain type

Pendant control switch (on request)

Emergency stop button (on request)

Chain extension (on request)

Air motor trolley (on request)

Overload protector (on request)

Ⅱ 2 G / D Ⅱ B T 5 (X)

ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-2TW	2	3	0.4{4}	2.0	1.0	7.1×2	Rp 1/2	42.0
			0.5{5}	2.6	1.4			
			0.6{6}	3.0	1.8			

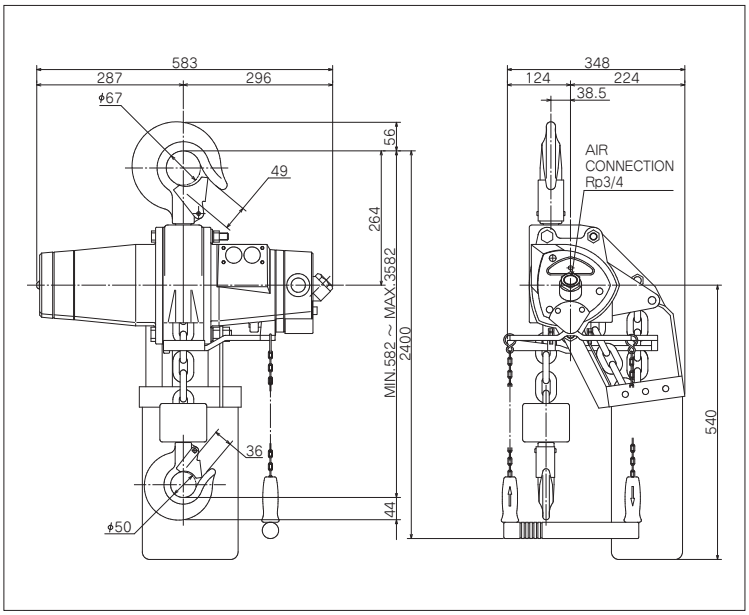
Note) The extension of control tube is available up to 6m (total 8m length).

Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

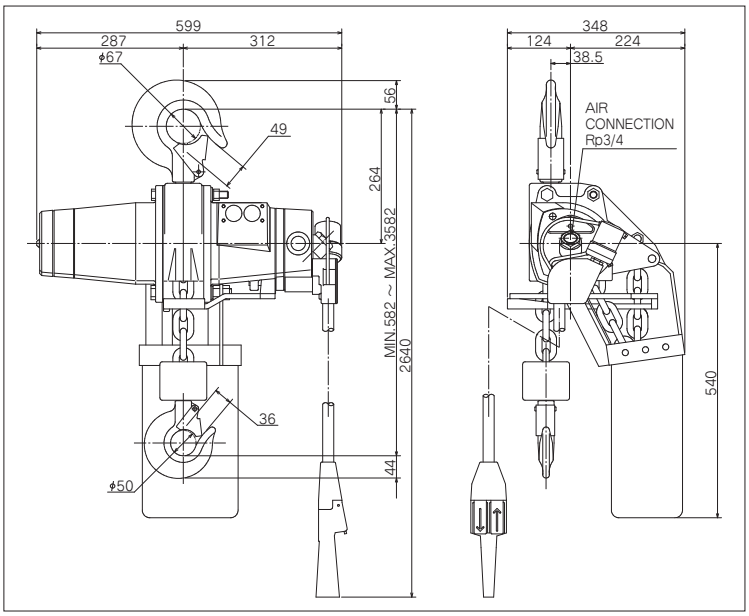
EHL-3TS

EHL-3TS



*The length of control chain is 2m.

EHL-3TS PCS-2



*Length of control tube is 2m.

FUNCTION

Chain type

Pendant control switch (on request)

Emergency stop button (on request)

Chain extension (on request)

Air motor trolley (on request)

Overload protector (on request)

Ⅱ2 G / D Ⅱ B T 4 (X)

ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-3TS	3	3	0.4{4}	2.0	1.75	12.5×1	Rp 3/4	79.0
			0.5{5}	2.6	2.47			
			0.6{6}	3.0	3.14			

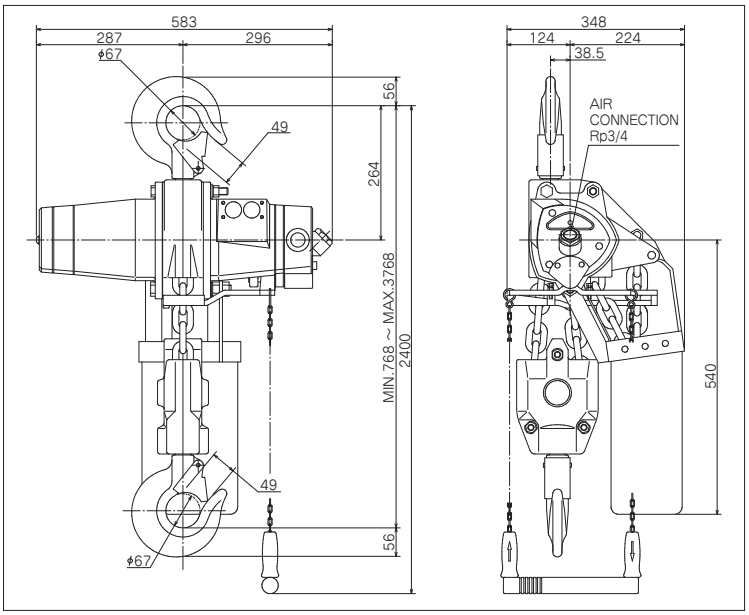
Note) The extension of control tube is available up to 6m (total 8m length).

Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

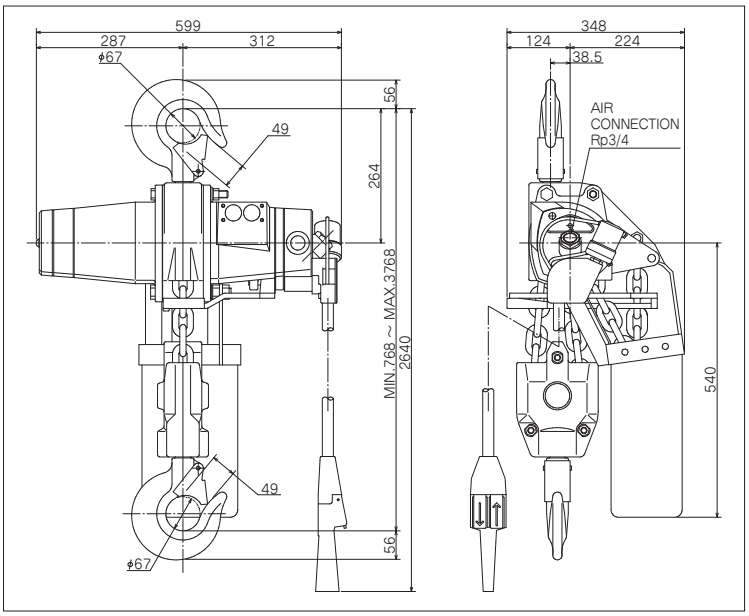
EHL-6TW

EHL-6TW



*The length of control chain is 2m.

EHL-6TW PCS-2



*Length of control tube is 2m.

FUNCTION

- Chain type
- Pendant control switch (on request)
- Emergency stop button (on request)
- Chain extension (on request)
- Air motor trolley (on request)
- Overload protector (on request)

Ex II 2 G / D II B T 4 (X)

Ex ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHL-6TW	6	3	0.4{4}	1.0	1.75	12.5×2	Rp 3/4	101.0
			0.5{5}	1.3	2.47			
			0.6{6}	1.5	3.14			

Note) The extension of control tube is available up to 6m (total 8m length).

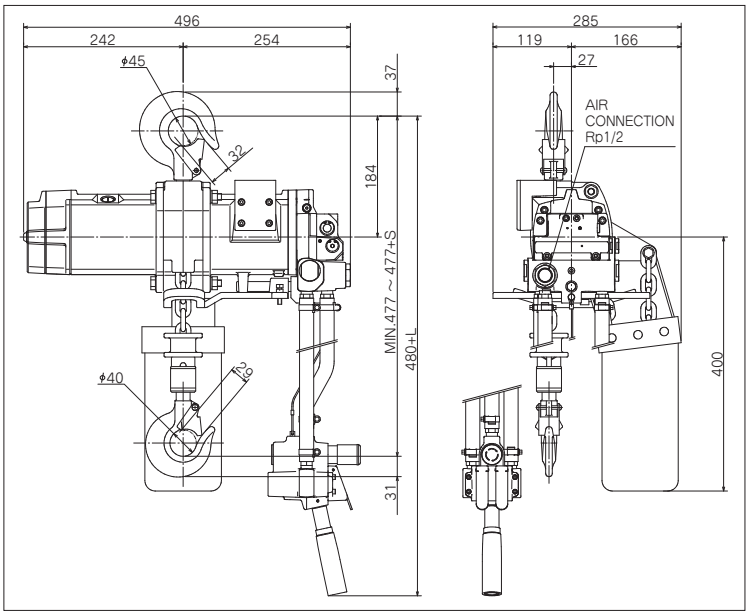
Note

1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

Built-in Overload protector

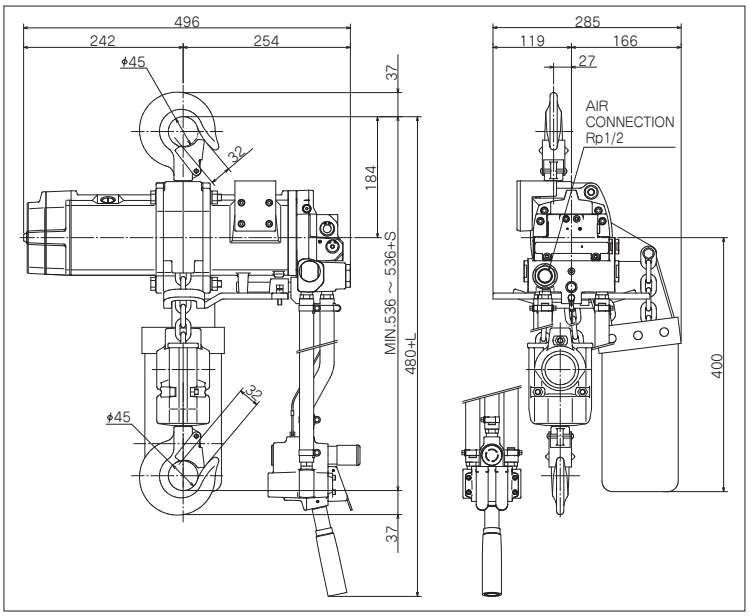
EHLK-1TS , EHLK-2TW

EHLK-1TS



*Length of control tube is 2m.

EHLK-2TW



*Length of control tube is 2m.

FUNCTION

Chain type | Button control | Built-in overload protector | Emergency stop button | Chain extension (on request)

Ⅱ 2 G / D Ⅱ B T 5 (X)

ATEX: This is the explosion-proof standard required to conform regarding equipment which is used in potentially explosive atmospheres.

Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
EHLK-1TS	1	3	0.4{4}	3.3	1.3	7.1×1	Rp 1/2	38.0
			0.5{5}	4.3	1.4			
			0.6{6}	5.3	1.5			
EHLK-2TW	2		0.4{4}	1.6	1.3	7.1×2		46.0
			0.5{5}	2.1	1.4			
			0.6{6}	2.6	1.5			

Note) The extension of control tube is available up to 6m (total 8m length).

Note

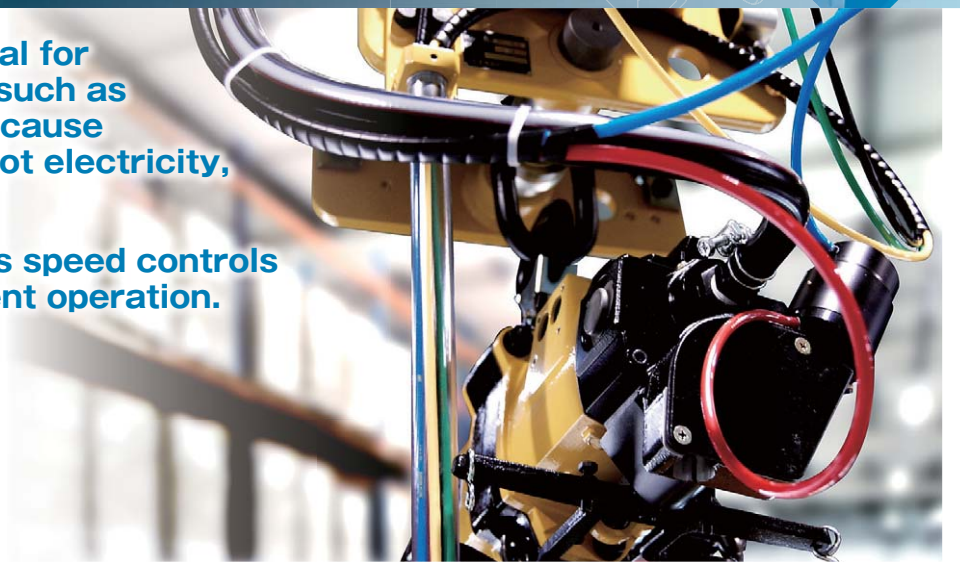
1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

AIR MOTOR TROLLEY

Air motor trolley - MTH series -

ENDO trolleys are ideal for hazardous locations, such as a chemical factory because the power source is not electricity, but compressed air.

The unit uses stepless speed controls for precise and efficient operation.



EHL-1TS
with MTH-2T-5
PCS-42

Pendant control switch

Model	Air motor trolley	Mass (kg)
PCS-3	MTH-1T-5, MTH-2T-5, MTH-6.3T	2.3
PCS-41	MTH-1T-5+EHL-025TS/05TS/1TW	3.2
PCS-41BV	MTH-1T-5+EHL-025TS/05TS/1TW	3.7
PCS-42	MTH-2T-5+EHL-1TS/2TW, MTH-6.3T+EHL-3TS/6TW	3.6
PCS-42BV	MTH-2T-5+EHL-1TS/2TW, MTH-6.3T+EHL-3TS/6TW	4.4

Note) PCS-3 is for traverse only.
"BV" indicates "Emergency stop equipped".
*Length of control tube is 2.4m.

Specification

Model	Capacity (t)	Air pressure MPa{kgf/cm²}	Travelling speed m/min	Air consumption m³/min(normal)	Available rail width (mm)	Min.radius for curve (mm)	Air inlet	Mass (kg)
MTH-1T-5	1	0.4{4}	20	0.55	75	3500	Rc 1/2	35.0
		0.5{5}	25	0.6	100・125	800		
		0.6{6}	28	0.65				
MTH-2T-5	2	0.4{4}	16	1.05	125・150	1000	Rc 1/2	63.0
		0.5{5}	17	1.3				
		0.6{6}	18	1.6				
MTH-6.3T	6.3	0.4{4}	17	1.05	150・175・190	2500	Rc 3/4	127.0
		0.5{5}	18	1.3				
		0.6{6}	19	1.6				

Note) Four push button control (4 directions) is available as well as two push button control (2 directions).
It depends on the customer request. Low head room application is available on request.

Corresponding Table - Air hoist / Air motor trolley -

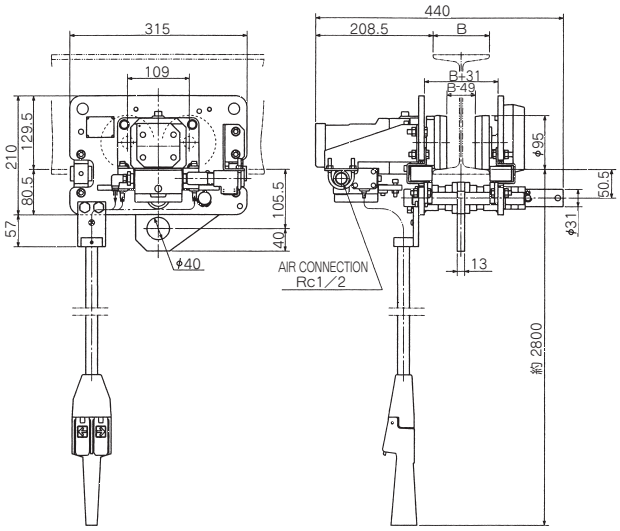
Model	EHL-025TS	EHL-05TS	EHL-098TW	EHL-1TW	EHL-1TS	EHL-2TW	EHL-3TS	EHL-6TW
MTH-1T-5	○	○	○	○				
MTH-2T-5					○	○		
MTH-6.3T							○	○

MTH-1T-5 with PCS-3

FUNCTION

Button control
PCS-3

4 directions pendant control (on request)
PCS-41
PCS-41BV



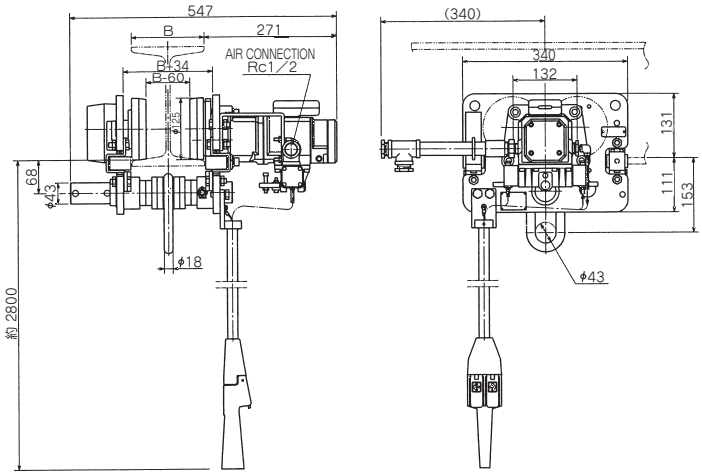
*Length of control tube is 2m.

MTH-2T-5 with PCS-3

FUNCTION

Button control
PCS-3

4 directions pendant control (on request)
PCS-42
PCS-42BV



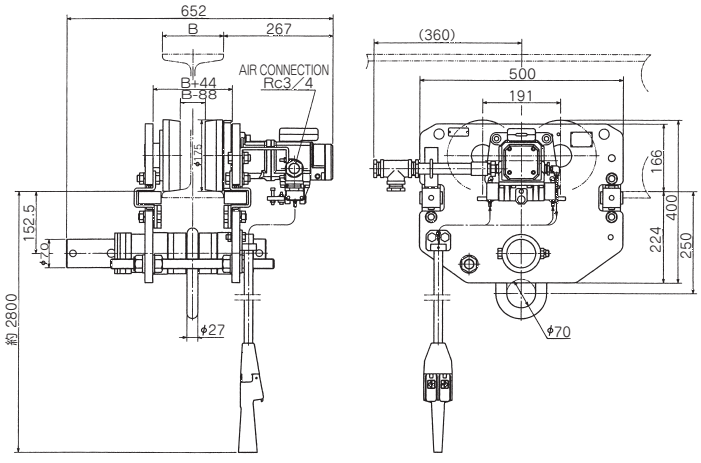
*Length of control tube is 2m.

MTH-6.3T with PCS-3

FUNCTION

Button control
PCS-3

4 directions pendant control (on request)
PCS-42
PCS-42BV



*Length of control tube is 2m.

Note
1. Install a filter and lubricator to the hoist as close as possible.
2. Application; Indoor -10℃~+50℃(Temperature)

Accessories

Cleaner set

This device is available for eliminating noisy volume and gathering the exhausted oil from the exhaust hole. The device contributes to clean environment.

Parts Number	Air hoist		Mass (kg)
LHP001343	EHL-025TS EHL-05TS	EHL-049TS EHL-1TW	1.0
LHP001388	EHL-1TS	EHL-2TW	1.0
LHP001389	EHL-3TS	EHL-6TW	1.6

Overload protector

This device stops the operation automatically when it exceeds rating load.

Model	Air hoist	Mass (kg)
OP-05TS	EHL-05TS	2.0
OP-1TW	EHL-1TW	2.2
OP-1TS	EHL-1TS	6.2
OP-2TW	EHL-2TW	6.2
OP-3TS	EHL-3TS	22.0
OP-6TW	EHL-6TW	22.0

Pendant control switch PCS-1 / PCS-2

Optional pendant controls are available to replace the standard pull rope.

Model	Air hoist		Mass (kg)
PCS-1	EHL-025TS EHL-05TS	EHL-049TS EHL-1TW	2.3
PCS-1BV			2.7
PCS-2	EHL-1TS EHL-3TS	EHL-2TW EHL-6TW	2.7
PCS-2BV1	EHL-1TS	EHL-2TW	3.2
PCS-2BV2	EHL-3TS	EHL-6TW	3.5

Note) Max. control tube extension is up to 6m
(total lengths of hose must be less than 8m).

PCS-1/2

PCS-1BV/2BV
(Emergency stop included)

When you push the emergency stop button, the shut-off valve closes main air supply then stops the hoist movement compulsorily.

Options

Stainless steel load chain

Due to the low breaking load of this type of chain, the nominal capacity of EHL-1TS, EHL-2TW would be reduced 20% (800 kg and 1,600 kg each). For 3 tons and 6 tons hoist, no stainless chain is available.

Chain buckets

ENDO supplies a chain bucket for the undermentioned chain lengths.

Model / chain lengths	6m	10m	12m	20m
AT-60K / AT-125K	○		△	△
EHL-025TS / EHL-049TS	○		△	△
EHL-05TS / EHL-1TW	○		△	△
EHL-1TS / EHL-2TW	○		△	△
EHL-3TS / EHL-6TW	○	△		

Note) 1. ○ mark means a standard bucket.
2. △ mark means an optional bucket.
3. When you need the bucket capable of the other chain lengths, contact our distributor or ENDO.

Specification

Wire rope series EHW / AH

Model	Rated load (kg)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Air inlet	Mass (kg)
EHW-60	60	1.9	0.4{4}	18.5	0.55	R 3/8	9.2
			0.5{5}	22.5	0.7		
			0.6{6}	26.0	0.88		
EHW-60R	60	1.9	0.4{4}	18.5	0.55	Rc 3/8	9.5
			0.5{5}	22.5	0.7		
			0.6{6}	26.0	0.88		
EHW-120	120	1.9	0.4{4}	11.0	0.59	R 3/8	9.4
			0.5{5}	13.5	0.75		
			0.6{6}	16.0	0.93		
EHW-120R	120	1.9	0.4{4}	11.0	0.59	Rc 3/8	9.7
			0.5{5}	13.5	0.75		
			0.6{6}	16.0	0.93		
AH-250R	160	2.5	0.4{4}	9.0	0.75	Rc 1/2	18.2
	200		0.5{5}	10.0	0.92		
	250		0.6{6}	11.0	1.1		

Note) Application; Indoor -10℃~+50℃(Temperature)

Load chain series AT / ATC / EHL

Model	Rated load (t)	Stroke (m)	Air pressure MPa{kgf/cm²}	Lifting speed m/min	Air consumption m³/min(normal)	Chain size×fall	Air inlet	Mass (kg)
AT-60K AT-60K-5	60kg	3	0.4{4}	16.5	0.52	4.0×1	Rc 3/8	12.3 (13.0)
			0.5{5}	20.0	0.67			
			0.6{6}	23.5	0.85			
ATC-60K ATC-60K-5	60kg	2	0.4{4}	14.0	0.52	4.0×1	Rc 3/8	14.3
			0.5{5}	18.0	0.67			
			0.6{6}	20.0	0.85			
AT-125K AT-125K-5	125kg	3	0.4{4}	10.0	0.55	4.0×1	Rc 3/8	12.5 (13.2)
			0.5{5}	12.0	0.71			
			0.6{6}	14.5	0.9			
ATC-125K ATC-125K-5	125kg	2	0.4{4}	6.5	0.55	4.0×1	Rc 3/8	14.5
			0.5{5}	10.5	0.71			
			0.6{6}	12.0	0.9			
EHL-025TS	250kg	3	0.4{4}	12.0	0.9	6.3×1	Rp 1/2	18.7
			0.5{5}	16.0	1.3			
			0.6{6}	18.0	1.6			
EHL-049TS	490kg	3	0.4{4}	7.5	0.95	6.3×1	Rp 1/2	18.7
			0.5{5}	9.0	1.3			
			0.6{6}	10.5	1.65			
EHL-05TS	500kg	3	0.4{4}	7.5	0.95	6.3×1	Rp 1/2	18.7
			0.5{5}	9.0	1.3			
			0.6{6}	10.5	1.65			
EHL-1TW	1	3	0.4{4}	3.7	0.95	6.3×2	Rp 1/2	24.2
			0.5{5}	4.5	1.3			
			0.6{6}	5.2	1.65			
EHL-1TS	1	3	0.4{4}	4.0	1.0	7.1×1	Rp 1/2	34.0
			0.5{5}	5.2	1.4			
			0.6{6}	6.0	1.8			
EHL-2TW	2	3	0.4{4}	2.0	1.0	7.1×2	Rp 1/2	42.0
			0.5{5}	2.6	1.4			
			0.6{6}	3.0	1.8			
EHL-3TS	3	3	0.4{4}	2.0	1.75	12.5×1	Rp 3/4	75.0
			0.5{5}	2.6	2.47			
			0.6{6}	3.0	3.14			
EHL-6TW	6	3	0.4{4}	1.0	1.75	12.5×2	Rp 3/4	96.0
			0.5{5}	1.3	2.47			
			0.6{6}	1.5	3.14			
EHLK-1TS	1	3	0.4{4}	3.3	1.3	7.1×1	Rp 1/2	38.0
			0.5{5}	4.3	1.4			
			0.6{6}	5.3	1.5			
EHLK-2TW	2	3	0.4{4}	1.6	1.3	7.1×2	Rp 1/2	46.0
			0.5{5}	2.1	1.4			
			0.6{6}	2.6	1.5			

Note) ENDO air hoists are available for only indoor,with temperature of -10℃~+50℃.The figures( )indicate AT-60K-5 and AT-125K-5.

AIR HOIST

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