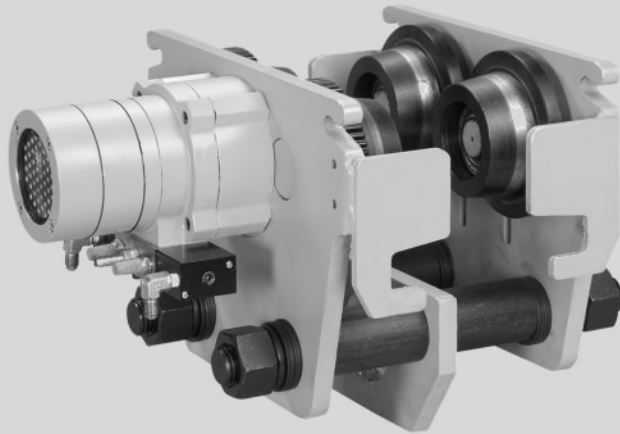




# Air Trolley



## OPERATION MANUAL & PARTS LIST

### SERIES :

- |                                 |                                 |
|---------------------------------|---------------------------------|
| <input type="checkbox"/> AT-100 | <input type="checkbox"/> AT-200 |
| <input type="checkbox"/> AT-320 | <input type="checkbox"/> AT-630 |



**CHENG DAY MACHINERY WORKS CO., LTD.**

# **SAFETY-IMPORTANT**

The use of any hoist and trolley presents some risk of personal injury or property damage.

That risk is greatly increased if proper instructions and warnings are not followed. Before using this hoist, each user should become thoroughly familiar with all warnings, instructions and recommendations herein.



**THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL AND ANY PROVIDED WITH THE EQUIPMENT BEFORE ATTEMPTING TO OPERATE YOUR AIR TROLLEY.**



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## I. FOREWORD

This manual contains important information to help you properly install, operate and maintain the AT air motor driven trolley for maximum performance, economy and safety.

Please study its contents thoroughly before putting the trolley into operation.

By practicing correct operation procedures and by carrying out the recommended preventative maintenance suggestions, you will be assured of dependable service.

In order to help us to supply correct spare parts quickly, please always specify:

**1).Trolley Model, 2). Serial Number and 3). Part Number**, as well as the description.

We trust that you will find this AT air motor driven trolley satisfies your requirements.

Should you have any queries, please contact:



**( Please ask for a company's stamp from your local agent)**

## II. OPERATING AND SAFETY PROCEDURES

The following are operating and safety procedures for safe operation of the AT air motor driven trolley. Taking precedence over and specific rules listed here, however is the most importance rule of all. A few minutes spent reading these rules can make an operator aware of dangerous practices to avoid and precautions to take for his own safety and others.

1. Immediately after installation, operate trolley with safe working load over the entire length of runway or monorail system to be sure that all adjustments and operations are satisfactory.
2. Rail stops must be installed for all trolleys operating on open end beams. These stops must be positioned such that impact forces are absorbed by trolley side frames only.
3. When preparing to lift a load, be sure that the attachments to the hook are firmly seated in hook saddle. Avoid off center loading on the point of hook.
4. When lifting, raise the load only enough to clear the floor or support and check to be sure that the attachments to hook and load are firmly seated. Continue lift only after you are assured the load is free of all obstructions.
5. When applying a load, it should be directly under the trolley. Avoid off center loading of any kind.

6. Take up a slack load chain carefully and start lifting load slowly to avoid shock and jerking of hoist load chain. If there is any evidence of overloading, immediately lower the load and remove the excess load.
7. Do not allow the load to swing or twist while hoisting.
8. Do not load trolley beyond the rated capacity. Overload can cause immediate failure of load carrying parts or cause damage resulting in future failure at less than rated capacity.
9. Do not use this or any other overhead materials handling equipment for lifting or transporting people.
10. Stand clear of all loads and avoid moving a load over the heads of other people. Warn people of your intention to move a load in their area.
11. Do not leave the load suspended in the air unattached.
12. Permit only qualified personnel to operate the unit.

### III. GENERAL INFORMATION

The AT air motor driven trolley are designed for use with the YSA Air Chain Hoists. The trolleys are available in the following capacities: 1-Ton, 2-Ton, 3.2-Ton, 6.3-Ton. These trolleys are similar except for the size of the load carrying members.

The trolleys have rugged steel side plates with anti-drop fins, steel wheel axles, steel suspension bolts, construction steel load plate seated in middle of two suspension bolts for top hook of hoist to hook on. The hot forged travelling wheels machine to suit both I-beam and flat beam. Hardened steel gears are attached to two track wheels and driven by a hardened steel pinion. The pinion is driven by planetary gear reducer in high quality grease. A weather proof motor drive the gear reducer.

### IV. INSTALLATION

#### 1. UNPACKING INFORMATION

After removing the trolley from the shipping carton/crate, gear reducer, motor and brake for damage that may have occurred during shipment and handling. Check to make sure all parts are furnished. , side frame with reducing gear motor, position tube, spacer washer, stay-bolts, nuts and load plate for hoist top hook.

Generally, the hoist and trolley are packed separately. Except when the order indicates the requirement of 4-way control for the hoist with trolley.

#### **WARNING**

**For all trolley suspended hoist rail stops must be installed at each end of the rail. Failure to install rail stops will allow the hoist and trolley to fall off the end of the rail and thus cause an accident that may result in injury and/or property damage. The stops must be positioned as to not exert impact force on the hoist frame or trolley wheels. They must contact the ends of the trolley side frames.**

## 2. TROLLEY TO BEAM

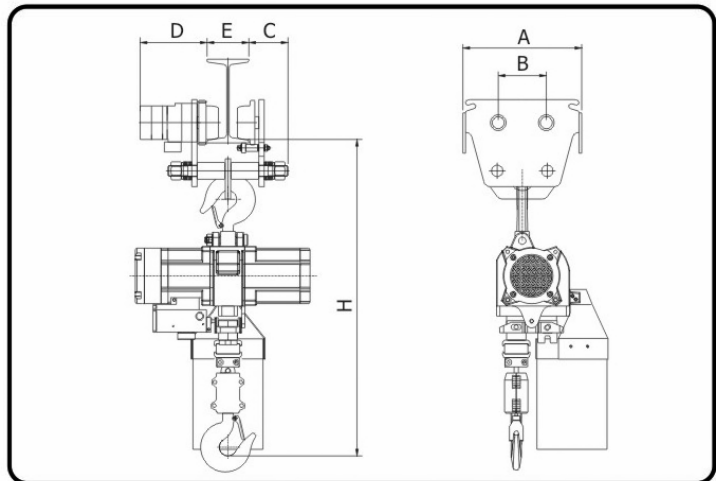
It is recommended that the trolley be mounted on the beam prior to attaching the hoist to the trolley. Before attempting to mount the trolley on the beam, measure the actual width of the beam flange on which the trolley is to operate. Using this measurement determine the arrangement of spacer washers between the two trolley side frames. First loosely assemble the side frames, position tubes, spacer washers and nuts on the stay bolts.

### WARNING

**The trolley and beam should be inspected periodically to assure their continued operations. Operating a malfunctioning trolley and/or operation the trolley on a beam with an excessively worn flange may allow the trolley to fall from the beam causing an accident that may result in injury and/or property damage.**

Due to the variations in beam flange widths, it is suggested that the beam flange width be measured to determine the exact distribution of spacer washers. The distance between track wheel flanges should be 3-5 mm greater than the beam flange width for straight runway beams, and 5-7 mm greater than the beam flange width if runway includes sharp curves. Now install the trolley on the beam by sliding one side frame out far enough to allow the track wheels to clear beam flange. Lift the trolley up so that the track wheels are riding on the beam and draw the side frames together and tighten the nuts snugly.

## 3. HOIST TO TROLLEY

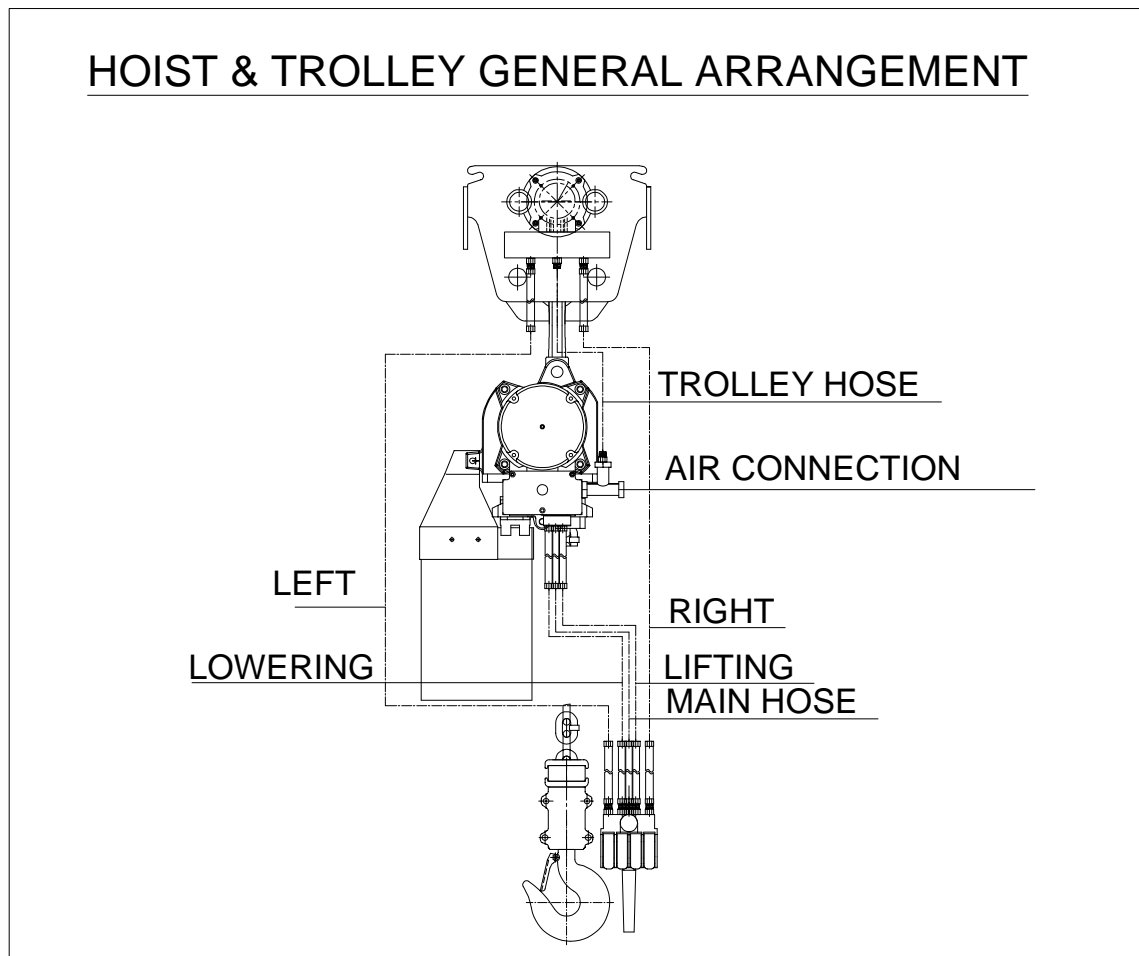


Model	Capacity (kg)	Motor (kw)	Air supply pressure (kg/cm <sup>2</sup> )	Traversing (m/min)	Brake type	Air inlet
AT-100	1000	0.2	6	20	Disk type brake	5/16"
AT-200	2000	0.2	6	20	Disk type brake	5/16"
AT-320	3200	0.2	6	10	Disk type brake	5/16"
AT-630	6300	0.2	6	4	Disk type brake	5/16"

Model	Capacity (kg)	Dimensions (mm)					
		H	A	B	C	D	E
YSA-100+AT-100	1000	645.5	294	116	95	208	75~125
YSA-200+AT-200	2000	785.5	322	135	100	209.5	100~150
YSA-320+AT-320	3200	945	356	144	117.5	217	125~175
YSA-630+AT-630	6300	1168	386	183	132.5	219	125~175

#### 4. TEST RUNNING

After trolley to beam, hoist hook to trolley and wiring connection completed, operate the trolley forward and backward over a short distance. Then you can operate the trolley over the entire length of runway or monorail system to be sure that all adjustment and operations are satisfactory.



#### V. INSPECTION

To maintain continuous and satisfactory operation, a regular periodic inspection procedure must be initiated so that worn or damaged parts can be replaced before they become unsafe. The frequency of inspection must be determined by the individual application.

The following list gives an inspection procedure for normal usage under normal conditions. When the unit is subjected to heavy usage or duty, moist or other adverse atmospheric conditions, shorter time periods must be assigned. Inspection must be made of all parts for unusual wear, corrosion or damage in addition to those specifically mentioned in the succeeding list.

It is suggested that the unit be inspected monthly for wear damage and corrosion effects to all parts with particular attention to the following:

1. Tightness of all fasteners.
2. Terminal board for loose or corroded connections.
3. Track wheels for wear of tread, flange and bearings.
4. Gear portion of track wheel and pinion for wear.
5. Check the wear of top hook to load plate in trolley.

## VI. MAINTENANCE

The following three steps are recommended for maintenance:

1. Once a month lubricate track wheel gear and pinion with grease or graphite grease.
2. Motor reducing gearbox uses planetary gear lubricated with Shell Gadus S2 V220 grease.

It is highly recommended that the motor gearbox grease should be changed after 100 hours of operation, then every 6 months or 2500 hours of normal service, whichever comes first, the grease needs to be changed as well.

## VII. TROUBLE SHOOTING

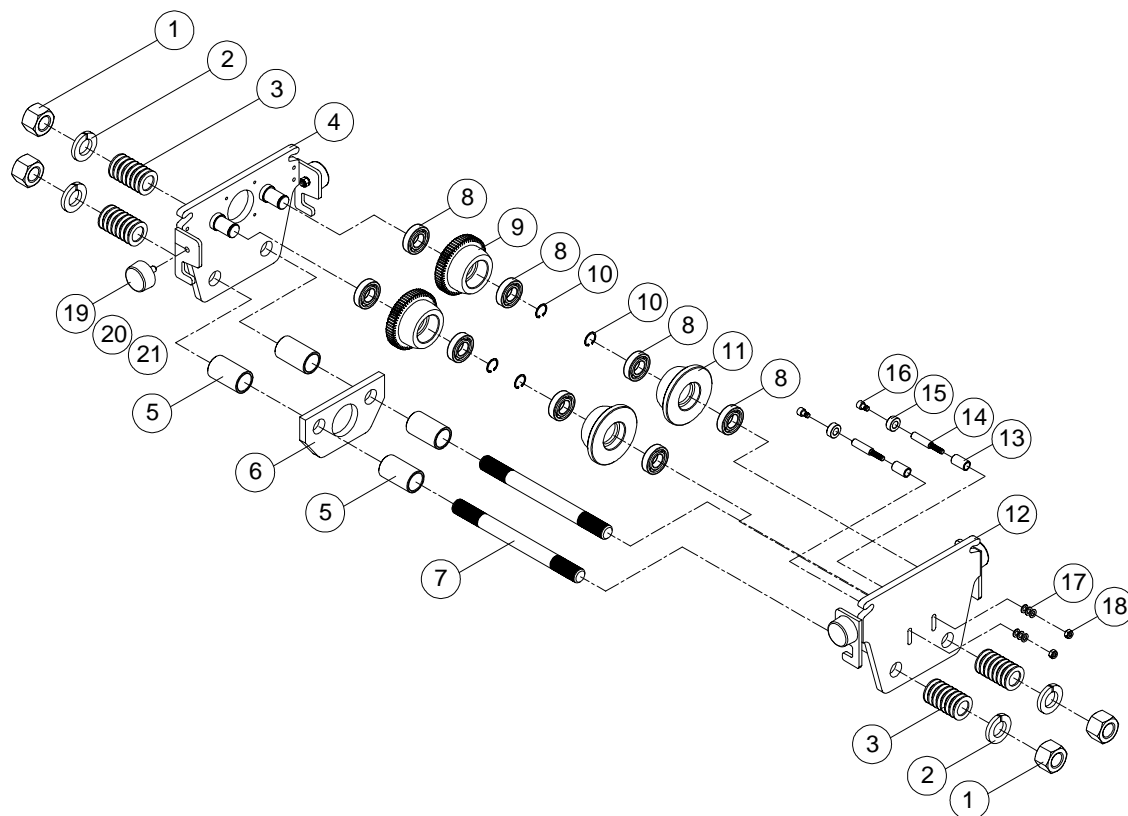
Malfunction	Main Causes	Solution
Motor does no run. Slow rotation or no rotation of Motor.	<ul style="list-style-type: none"><li>● Insufficient air pressure.</li><li>● Supplied air volume is insufficient.</li><li>● Inner diameter of pipe is too small.</li><li>● Strainer in Adapter at air inlet port is clogged.</li><li>● Silencer is clogged.</li><li>● Powder or dust in Motor.</li><li>● Vanes have be enlarged due to moisture or long term storage.</li><li>● Vanes are burned due to the dry operation.</li><li>● Vanes are worn or damaged.</li><li>● Main valve does not open.</li><li>● Reduction gear: Incorrect assembly. Or gears, Bearings, etc., are worn or damaged.</li></ul>	<ul style="list-style-type: none"><li>● Increase air pressure.</li><li>● Increase compressor output.</li><li>● Replace pipe with a larger inside diameter.</li><li>● Clean Strainer.</li><li>● Replace with new Silencer.</li><li>● Clean Motor then lubricate. Clean air filter and replace filter element.</li><li>● Replace Vanes. Discharge drain water from air filter.</li><li>Or clean air filter and replace filter element.</li><li>● Clean Motor and polish Vanes Replace Vanes if required. Supply oil to lubricator or clean lubricator.</li><li>● Replace Vanes.</li><li>● Tighten connecting bolt on the respective part. Or disassemble and check.</li><li>● Disassemble and check. Replace the worn or damaged parts.</li></ul>
Brake does not work sufficiently	<ul style="list-style-type: none"><li>● Lining is worn.</li><li>● Oil on lining.</li><li>● Air exhaust hole on brake cover is clogged.</li></ul>	<ul style="list-style-type: none"><li>● Replace with new Brake disc.</li><li>● Clean. Replace oil seal if required</li><li>● Clean. See Chapter IX "2.(3) Inspection of Brake and Service Limit".</li></ul>

## VIII. PARTS LIST (BOM)

1. Air Trolley Parts List <AT-100~AT-320 Series>..... P.8~P.9
2. Air Trolley Parts List < AT-630 Series>..... P.10~P.11
3. Air Motor Parts List ..... P.12~P.14
4. Air Hose Assembly's Parts List ..... P.15~P.16



# AIR TROLLEY EXPLOSION <100~320 SERIES>



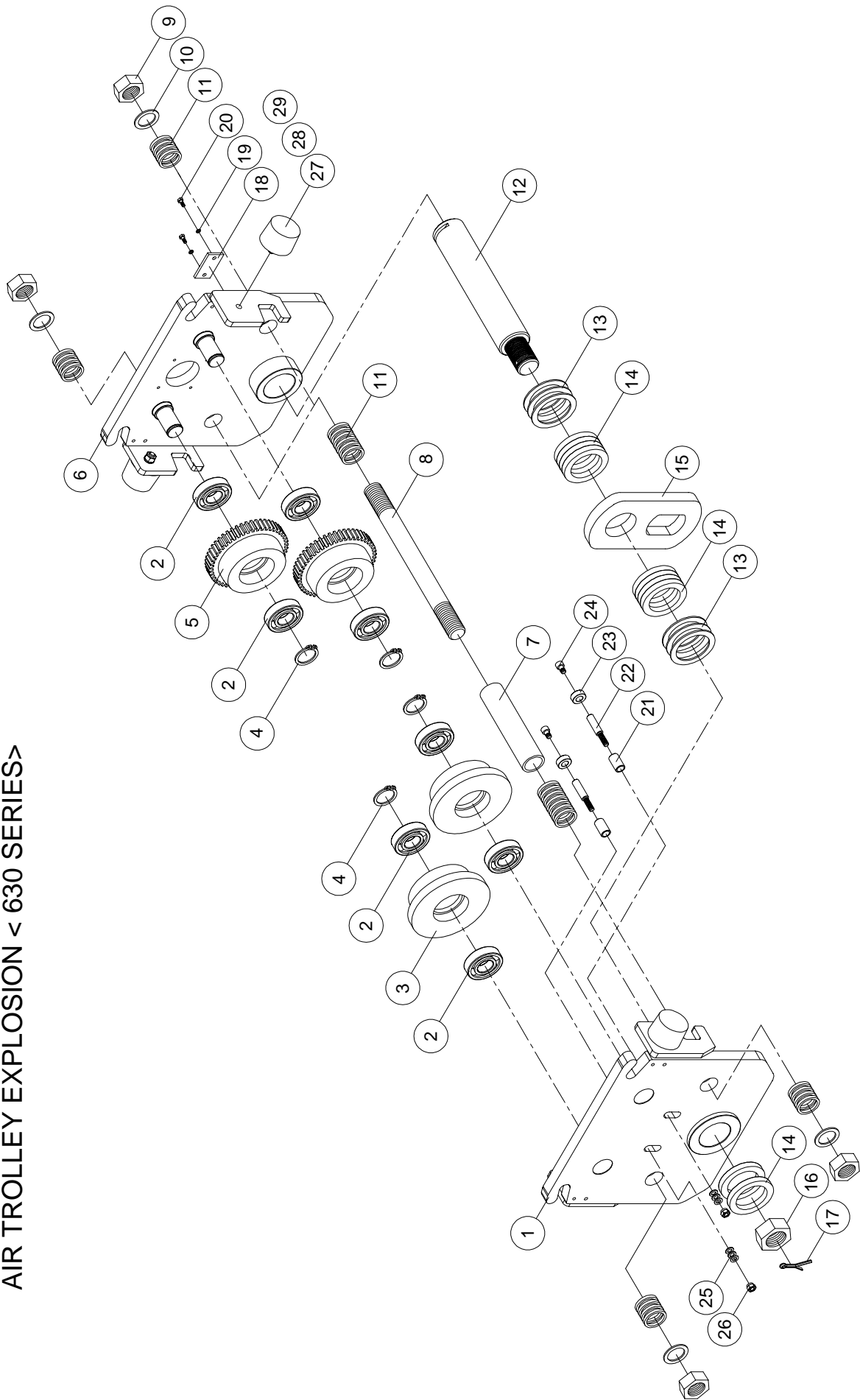
## AIR TROLLEY PARTS LIST

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT		
			AT-100	AT-200	AT-320
01	400070	Hex. Nut <7/8"x9UNC>	4		
	400071	Hex. Nut <1 "x8UNC>		4	
	400072	Hex. Nut <1 1/4"x7UNC>			4
02	400102	Spring Washer < 7/8">	4		
	400103	Spring Washer <1">		4	
	400105	Spring Washer <1 1/4">			4
03	203221	Spacer Washer <Ø40xØ24x1/8">	32		
	203222	Spacer Washer <Ø46xØ27x1/8">		32	
	203223	Spacer Washer <Ø54xØ34x1/8">			32
04	217046	Trolley Frame <Motor>	1		
	217015			1	
	216927				1
05	203151	Position Tube <Ø34xØ24x56>	4		
	203152	Position Tube <Ø38xØ28x69>		4	
	203153	Position Tube <Ø40xØ52x83.5>			4

# AIR TROLLEY PARTS LIST

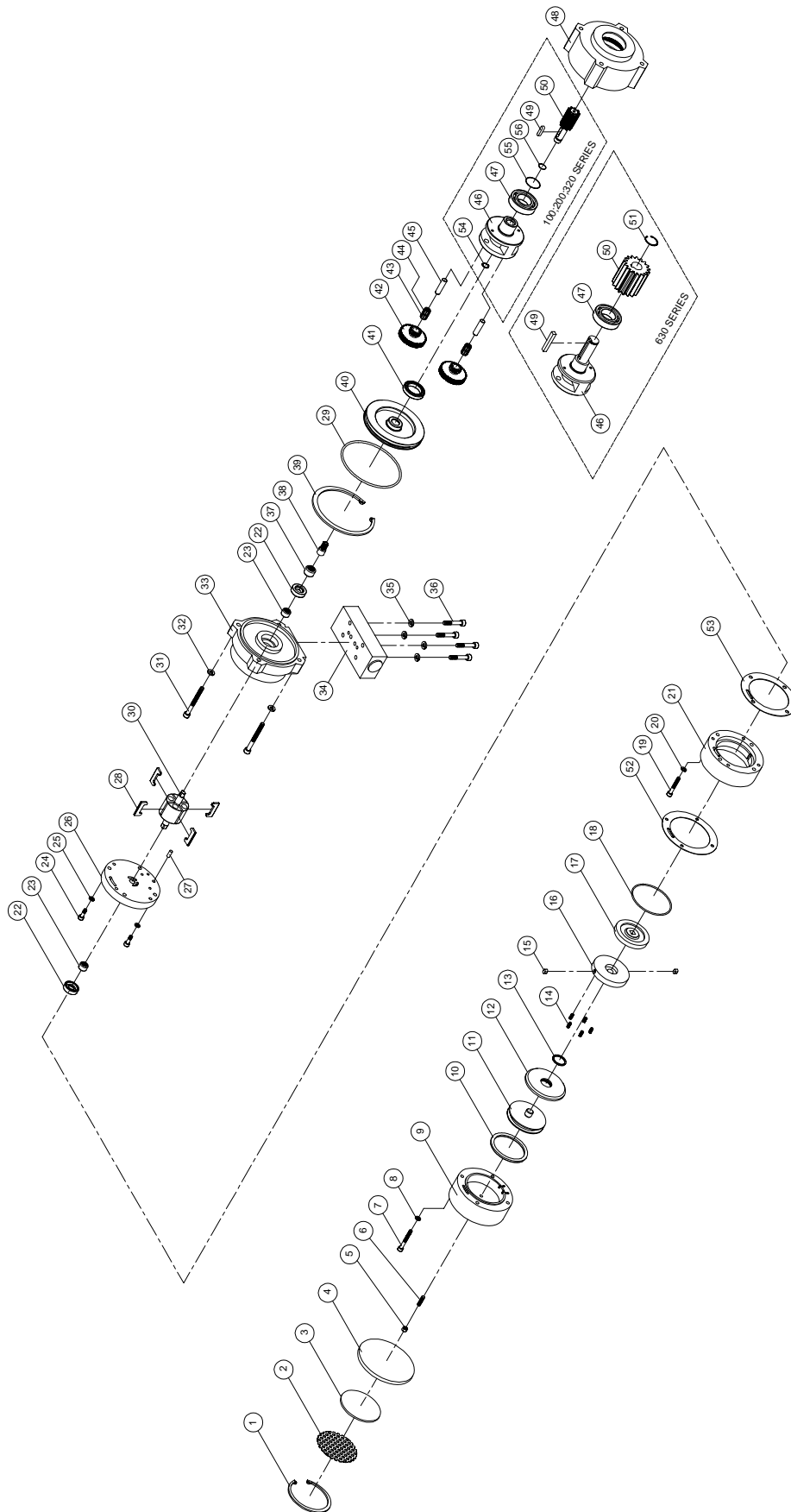
NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT		
			AT-100	AT-200	AT-320
06	203186K	Load Bracket	1		
	203187K			1	
	203188K				1
07	408366	Stay Bolt <7/8"x9UNCx265>	2		
	408369	Stay Bolt <1 "x8UNCx300>		2	
	400063	Stay Bolt <1 1/4"x7UNCx360>			2
08	407835	Bearing <6204 Z>	8		
	407830	Bearing <6205 Z>		8	
	407824	Bearing <6206 Z>			8
09	217044	Gear Wheel	2		
	217028			2	
	216926				2
10	400191	Retaining Ring <S-20>	4		
	400192	Retaining Ring <S-25>		4	
	400193	Retaining Ring <S-30>			4
11	203131	Plain Wheel	2		
	203132			2	
	203133				2
12	217047	Trolley Frame <Electric>	1		
	217018			1	
	216928				1
13	216930	Position Tube	2	2	2
14	216929	Stay Bolt	2	2	2
15	216931	Steel Roller	2	2	2
16	400430	Hex. Headed Bolt <M10x1.5x16>	2	2	2
17	400865	Flat Washer <M10>	6	6	6
18	400089	Lock Nut <M10x1.5>	2	2	2
19	207572	Bumper	4	4	
	400313				4
20	400857	Spring Washer<M10>	4	4	
	408064	Spring Washer< 1/2">			4
21	408073	Nut <M10x1.5>	4	4	
	400077	Nut < 1/2"x13UNC>			4

# AIR TROLLEY EXPLOSION < 630 SERIES>



# AIR MOTOR DRIVEN TROLLEY PARTS LIST

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			AT-630
1	207567	Trolley Frame <Electric>	1
2	407817	Bearing<6307 Z>	8
3	207756	Plain Wheel	2
4	400194	Retaining Ring <S-35>	4
5	207757	Gear Wheel	2
6	207565	Trolley Frame <Motor>	1
7	207993	Stay Bolt Position Tube< Ø50xØ40x167.3>	2
8	408374	Stay Bolt<1 1/2"x6UNCx435L>	2
9	400073	Hex. Nut<1 1/2"x6UNC>	4
10	400106	Spring Washer<1 1/2">	4
11	203224	Spacer Sleeve< Ø60xØ40x1/8">	64
12	207995	Load Shaft A< Ø70x413L>	1
13	206967	Spacer Sleeve< Ø101xØ76x3.175>	6
14	203225	Spacer Ring< Ø100xØ71x12.5>	10
15	207759	Load Bracket	1
16	400639	Nut < M48x5.0>	1
17	400611	Cotter Pin<Ø8x65L>	1
18	200635	Stopper For Load Shaft<t6x38x70L>	1
19	400095	Spring Washer<M8>	2
20	400012	Hex. Recess Bolt<M8x1.25x20L>	2
21	216930	Position Tube	2
22	207994	Stay Bolt <M10x1.5x94>	2
23	216931	Steel Roller	2
24	400430	Hex. Headed Bolt <M10x1.5x16>	2
25	400865	Flat Washer <M10>	6
26	400089	Lock Nut <M10x1.5>	2
27	400313	Bumper	4
28	408064	Spring Washer< 1/2">	4
29	400077	Nut < 1/2"x13UNC>	4



# AIR MOTOR EXPLOSION

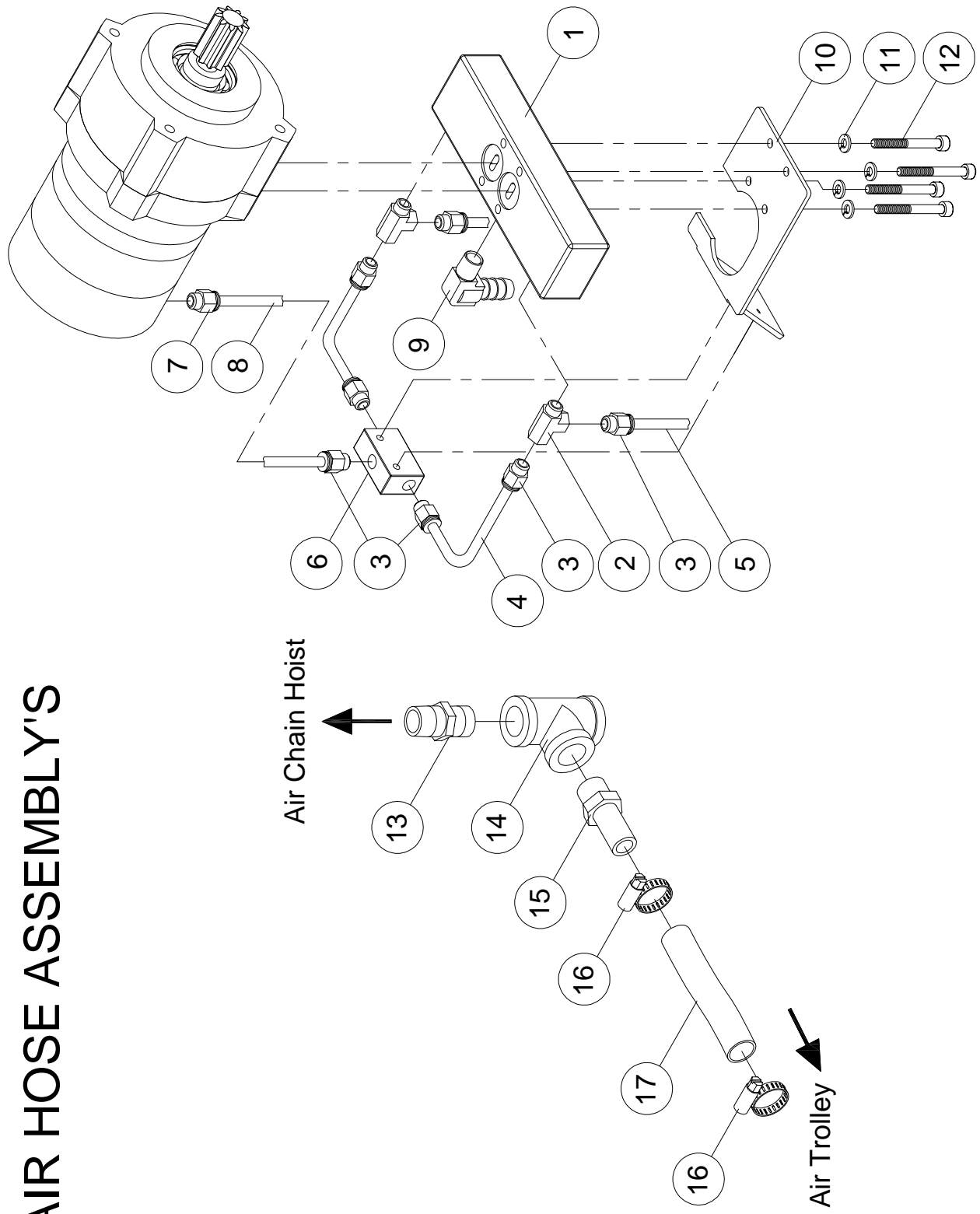
# AIR MOTOR PARTS LIST

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT			
			100	200	320	630
1	400923	Retaining Ring <R-72>		1		
2	216920	Grids		1		
3	216685	Silencer		1		
4	201144	Silencer		1		
5	400087	Lock Nut <M6x1>		1		
6	408453	Set Screw <M6x1x20>		1		
7	400429	Hex. Headed Bolt <M5x0.8x40>		4		
8	400093	Spring Washer <M5>		4		
9	106742	Brake Back Cover		1		
10	404436	O Ring <P-56>		1		
11	106215	Brake Gudgeon		1		
12	106218	Baffle		1		
13	404425	O Ring <P-20>		1		
14	408521	Brake Spring		5		
15	405958	Key <t5x5x8>		2		
16	106219	Brake Plate		1		
17	106214	Brake Disc		1		
18	404432	O Ring <Ø2-0.24M>		1		
19	405021	Hex. Headed Bolt <M5x0.8x35>		4		
20	400093	Spring Washer <M5>		4		
21	106741	Brake Body		1		
22	404440	Oil Seal <Ø10xØ22x6>		2		
23	405592	Needle Bearing <HK1010>		2		
24	400003	Hex. Headed Bolt <M5x0.8x16>		4		
25	400093	Spring Washer <M5>		4		
26	106756	Motor End Cover		1		
27	400615	Parallel Pin <Ø5x12>		1		
28	106748	Vanes		4		
29	404314	O Ring <G-100>		1		-
30	106749	Rotor		1		
31	408458	Hex. Headed Bolt <M6x1x70>		4		
32	400094	Spring Washer <M6>		4		

# AIR MOTOR PARTS LIST

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT			
			100	200	320	630
33	106746	Motor Cylinder	1			
34	216921	Intake valve	1			
35	400093	Spring Washer <M5>	4			
36	400429	Hex. Headed Bolt <M5x0.8x40>	4			
37	400168	Needle Bearing < HK 1210>	1			
38	216914	1st Gear	1			
39	404193	Retaining Ring <R-105>	-			1
40	216915	Bearing Cap	1			
41	405589	Bearing <6805>	1			
42	216916	2nd Gear & 3rd Gear	2			
43	405590	Needle Roller and Cage Assemblies <KT8118N>	2			
44	405591	Needle Roller and Cage Assemblies <KT81110>	2			
45	216917	Lock Pin	2			
46	202228	Reduction Gear Frame	1			-
	207569		-			1
47	407724	Bearing <6005 ZZ>	1			
48	202212	Internal Gear	1			
49	405924	Key <5x5x20>	1			-
	405979	Key <6x6x40>	-			1
50	202270	Pinion < M2x9T>	1			-
	207782	Pinion < M3x14T>	-			1
51	400901	Retaining Ring <S-18>	-			1
52	402496	Gasket	1			
53	402497	Gasket	1			
54	400189	Retaining Ring <S-12>	1			-
55	408106	O Ring <S-25>	1			-
56	404474	O Ring <P-12>	1			-

# AIR HOSE ASSEMBLY'S





## AIR HOSE ASSEMBLY'S PARTS LIST

[illegible]



Product Service

# Attestation of Conformity

No. M8A 004703 0027 Rev. 00

**Holder of Attestation: CHENG DAY MACHINERY  
WORKS CO., LTD.**

No.173, Wen Chiu Rd.  
Dajia Dist.  
437 Taichung City  
TAIWAN

**Product: Lifting equipment  
Air Chain Hoist, Air Trolley**

This Attestation of Conformity is issued on a voluntary basis according to Council Directive 2006/42/EC relating to machinery. It confirms that the listed equipment (not Annex IV equipment) complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 615202300601

**Date,** 2024-09-12

*Li Taiwei*  
( Taiwei LI )

Page 1 of 4

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®



Product Service

# Attestation of Conformity

No. M8A 004703 0027 Rev. 00

## Model(s):

- 1) YSA-x series (Air Chain Hoist)  
x denote to capacity: 025, 050, 100, 200, 320, 630, 1000, 1600, 2000, 2500, 2500T, 3750, 3750T, 5000, 5000T, 025E, 050E, 100E, 150E, 200E, 300E, 600E, 025Ex, 050Ex, 100Ex, 200Ex, 320Ex, 630Ex, 1000Ex, 1600Ex, 2000Ex, 2500Ex, 2500TEx, 3750Ex, 3750TEx, 5000Ex, 5000TEx;
- 2) YSMA-x series (Air Chain Hoist)  
x denote to capacity: 250, 300, 400, 600, 800, 1000, 1200;
- 3) AT-x series (Air Trolley)  
x denote to capacity: 100, 200, 320, 630, 1000, 1600, 2000, 2500, 3750, 5000, 100Ex, 200Ex, 320Ex, 630Ex, 1000Ex, 1600Ex, 2000Ex, 2500Ex, 3750Ex, 5000Ex

## Trade name:

Black Bear, U-MEGA, Yong Sheng



Black Bear



U-MEGA



Yong Sheng

## Parameters:

Rated capacity:	See below
Rated power:	See below
Rated supply pressure:	See below

**Remark:** To ensure the accuracy and consistency of the tests, we will use the YSA-320 model test machine with serial number 2024020320. This primary test machine will serve as the benchmark equipment for all tests.

Page 2 of 4

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

TUV®



Product Service

# Attestation of Conformity

No. M8A 004703 0027 Rev. 00

Model	Capacity (ton)	6bar/4bar Power (kW)	6,bar / 4bar, Speed, m/min
YSA-025	0.25	1.5/0.8	18/8
YSA-050	0.5	1.5/0.8	11/5
YSA-100	1	2/1.0	7.6/3.4
YSA-200	2	2/1.0	3.8/1.7
YSA-320	3.2	3.5/1.8	4.8/2.2
YSA-630	6.3	3.5/1.8	2.4/1.1
YSA-1000	10	3.5/1.8	1.6/0.7
YSA-1600	16	3.5/1.8	1.0/0.4
YSA-2000	20	3.5/1.8	0.8/0.3
YSA-2500	25	6.3/4	1.1/0.7
YSA-2500T	25	6.3/4	1.1/0.7
YSA-3750	37	6.3/4	0.7/0.4
YSA-3750T	37	6.3/4	0.7/0.4
YSA-5000	50	6.3/4	0.5/0.3
YSA-5000T	50	6.3/4	0.5/0.3
YSA-025E	0.25	1.5/0.8	18/8
YSA-050E	0.5	1.5/0.8	11/5
YSA-100E	1	1.5/0.8	6.9/3.1
YSA-150E	1.5	2/1	5.8/1.8
YSA-200E	2	1.5/0.8	3.4/1.6
YSA-300E	3.2	2/1	2.9/0.9
YSA-600E	6.3	2/1	1.45/0.5
YSA-025Ex	0.25	1.5/0.8	18/8
YSA-050Ex	0.5	1.5/0.8	11/5
YSA-100Ex	1	2/1.0	7.6/3.4
YSA-200Ex	2	2/1.0	3.8/1.7
YSA-320Ex	3.2	3.5/1.8	4.8/2.2
YSA-630Ex	6.3	3.5/1.8	2.4/1.1
YSA-1000Ex	10	3.5/1.8	1.6/0.7
YSA-1600Ex	16	3.5/1.8	1.0/0.4
YSA-2000Ex	20	3.5/1.8	0.8/0.3
YSA-2500Ex	25	6.3/4	1.1/0.7
YSA-2500TEx	25	6.3/4	1.1/0.7
YSA-3750Ex	37	6.3/4	0.7/0.4
YSA-3750TEx	37	6.3/4	0.7/0.4
YSA-5000Ex	50	6.3/4	0.5/0.3
YSA-5000TEx	50	6.3/4	0.5/0.3

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®



Product Service

# Attestation of Conformity

No. M8A 004703 0027 Rev. 00

Model	Capacity (ton)	6bar/4bar Power (kW)	6,bar / 4bar, Speed, m/min
YSMA-250	2.5	2.8/1.2	2.3/1.6
YSMA-300	3	2.8/1.2	3.75/2.5
YSMA-400	4	3/1.5	3.4/2.4
YSMA-600	6	2.8/1.2	3.4/2
YSMA-800	8	3/1.5	1.7/1.2
YSMA-1000	10	2.8/1.2	0.9/NA
YSMA-1200	12	3/1.5	0.8/NA
AT-100	1	20	0.2
AT-200	2	20	0.2
AT-320	3.2	20	0.2
AT-630	6.3	20	0.2
AT-1000	10	12	0.7
AT-1600	16	12	0.7
AT-2000	20	12	0.7
AT-2500	25	12	1.4
AT-3750	37	12	1.4
AT-5000	50	12	1.4
AT-100Ex	1	20	0.2
AT-200Ex	2	20	0.2
AT-320Ex	3.2	20	0.2
AT-630Ex	6.3	20	0.2
AT-1000Ex	10	12	0.7
AT-1600Ex	16	12	0.7
AT-2000Ex	20	12	0.7
AT-2500Ex	25	12	1.4
AT-3750Ex	37	12	1.4
AT-5000Ex	50	12	1.4

**Tested  
according to:**

Machinery Directive 2006/42/EC Annex I  
EN ISO 12100:2010  
EN 14492-2:2019

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