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## 1. DEFINITIONS

This HSZ-A619 Series chain block hoist has been designed for vertically lifting and lowering loads, by hand, under normal atmospheric conditions of the work place.

**⚠ DANGER** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**⚠ WARNING** Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.

**⚠ CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used alert against unsafe practices.

## 2. SAFETY RULES

### 2.1 General

Failure to read and comply with the contents of this manual can result in serious bodily injury or death, and property damage. Although you may be familiar with this or similar equipment, it is strongly recommended that you read this manual before installing, operating or maintaining the product.

Equipment described herein should not be used in conjunction with other equipment unless necessary and required safety devices applicable to the system. The company shall have no liability to the client for any loss, damage or other claims for compensation arising from this type of misuse. Modifications to upgrade, rerate, or otherwise alter this equipment shall be authorized only by the original equipment manufacturer.

### ⚠ DANGER



① NEVER use a hoist for lifting, supporting or transporting people.



② NEVER use your foot to apply pressure on hoist.



③ NEVER use two or more hoists together to lift load beyond the rated capacity of hoist.



④ NEVER lift up load beyond the rated capacity of the hoist.



⑤ NEVER lift or transport loads over or near people.

### 2.2 Rules before use

**⚠ CAUTION** Hoist operators shall be required to read this manual, the warning contained in this manual, instruction and warning labels on the hoist or lifting system. The operator shall also be required to be familiar with the hoist controls before being authorized to operate the hoist or lifting system.

**⚠ WARNING** Do not use the hoist if there are deep nick, gouges or stretch on hook, contact our company or the distributor of the hoist and replace the hook with new parts.

### ⚠ CAUTION

1. Ensure every description of name plate is clear and visible.
2. Check the hoist before daily use according to the Daily Inspection.
3. Estimate the weight of load and choose the hoist of suitable rated capacity.
4. Ensure hooks not be deformed and rotates freely with no roughness.
5. Ensure the running of the brake system is normal.
6. Lubricate load chain according to recommendations of manufacturer.

### 2.3 Rules for operation

#### ⚠ WARNING



① NEVER use a twisted, kinked, damaged or stretched load chain.



② NEVER use the hoist chain as a sling.



③ NEVER use the hoist as a support.



④ NEVER support a load on the tip of the hook..



⑤ NEVER run the load chain over an sharp edge.



⑥ NEVER weld or cut a load suspended by a hoist.

#### ⚠ WARNING

1. NEVER use damaged hoist or hoist that is not working properly.
2. NEVER swing a suspended load.
3. NEVER use the hoist chain as a welding electrode.
4. NEVER operate a hoist so far that the bottom hook touches the hoist body.
5. NEVER operate a hoist so far that the load chain pulls the anchorage.
6. NEVER operate a hoist if excessive noise occurs.
7. NEVER allow your attention to be diverted from operating the hoist.

### 2.4 Rules after use

**⚠ CAUTION** Put down the load slowly and safely after lifting.

**⚠ WARNING** NEVER suspend a load for an extended period of time.

### 2.5 Inspection and maintenance

**⚠ CAUTION** Ensure the qualified service personnel inspect the hoist periodically.

**⚠ WARNING** Do not attempt repair of a hook by heat treating, bending or attaching anything by welding. Such procedures will weaken and may cause failure of the hook.



## 2.6 Others

**CAUTION** Always consult the manufacturer or your dealer if you plan to use a hoist in an excessively corrosive environment (salt water, sea air and/ or acid, explosive environment or other corrosive compounds, etc.).

**WARNING** NEVER use a hoist which has been taken out of service until the hoist has been properly repaired or replaced.

## 3. MAIN SPECIFICATION

### 3.1 Operation conditions

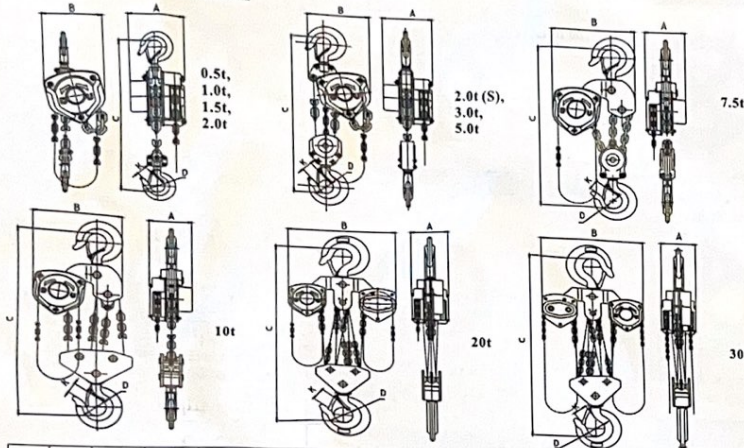
Allowable ambient conditions

Operation temperature: -10° C to +60° C

Operation humidity: 100%RH or less, this product should not be used under water.

Non-asbestos material: Friction plates are made of asbestos free material.

### 3.2 Technical specification



Capacity (t)	Standard lift (m)	Test load (kN)	Effort required to lift max. Load N(kg)	Load chain diameter x chain fall	Moving distance for hand chain when load chain lift 1m	N.W. (kg)	Extra weight (meter (kg))	Main Dimensions					Packing measurement
								A	B	C	D	K	
0.5	2.5	6.1	200(20.5)	6.0x1	33.3	8.4	1.7	137.5	137	270	35	28	22x15x19.5
1	2.5	12.3	320(32.5)	6.0x1	41.5	10.5	1.7	146.5	162	317	35.5	26	23x18x19.5
1.5	2.5	18.4	360(36.5)	8.0x1	55.6	15.5	2.3	170	183	399	45	32.5	28x21x24
2(S)	3	24.5	328(37)	6.0x2	83	14.6	3.4	146.5	189	440	42.5	32	25x20x19.5
2	3	24.5	365(33.5)	8.0x1	72.6	18.5	2.3	170	194	414	42.5	32	28x21x24
3	3	36.8	385(39)	8.0x2	111.2	21.2	3.7	170	220	465	50	37	32x21x26
5	3	61.1	435(44.3)	10x2	163.4	41.8	5.3	190	288	618	64	46	40x21x26
7.5	3	91.9	435(44.3)	10x3	245.1	61.6	7.5	190	377	768	64	46	50x41x21
10	3	122.5	435(44.3)	10x4	326.8	81.7	9.7	190	384	798	85	50	50x41x21
20	3	235.2	435(44.3)	10x8	327x2	173	19.4	209	625	890	110	81	64x38x64
30	3	367.5	435(44.3)	10x12	490.2x2	238.5	28.2	312	691	1380	110	81	72x50x68

Note: Bottom hook in manual instruction is standard A type, if you choose another type, please contact with manufacturer directly.

Safety Working Environment: the operator must be aware of the following points while using the hoist.

- (1) The operator must have a clear and unobstructed view of the entire travel area before operating the hoist. When not possible, a second or more persons must serve as scouts in the nearby area.
- (2) The operator must check the entire travel area is safe and secure before operating the hoist.

### 4.2 Features

Place the selector switch on the handle in the middle position when without load, then the load chain could move freely. Pull the load chain by hand to position the bottom hook.

### 4.3 The method of operation

1. Place the selector switch on the handle in the middle position.
2. And then adjust the load chain to suitable position.

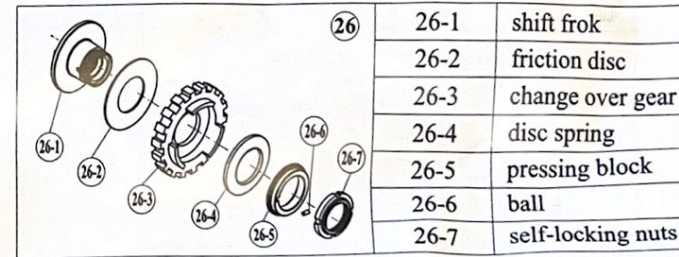
**WARNING** NEVER pull the load chain sharply when the selector switch in the middle position. If the chain is pulled too suddenly, the brake may set preventing further pulling. Re-set the hoist is needed when this happens.

### 4.4 Load operation

Hoist	Selector switch	Hand lever operation
Lift	UP	Clockwise
Lower	DOWN	Counterclockwise

### 4.5 Overload device

Overload device is optional, the effective control range is 1.3-1.8 time of rated load, the structure as follows:



## 5. INSPECTION

### 5.1 General

There are two types of inspection, the Daily Inspection performed by the operator before using the hoist, and the more thorough Periodic Inspection performed by qualified service personnel who have the authority to remove the hoist from service.

### 5.2 Daily inspection


Before each work shift, check the following points:

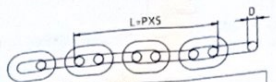
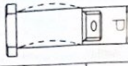
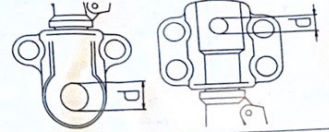


Item	Inspection method	Discard limit/criteria	Remedy
Name plate	Check visually	Every description should be clear and visible.	Replace the name plate.
Function	Turn selector switch to the UP/down position, pull the load chain at the hook side, and ratchet the handle.	The ticking sound when ratchet the handle indicates normal condition.	Repair or replace as necessary.
Hook	Check visually	No wear, deformation or damage, and the swivels should rotate freely.	Replace the hook.
Hook latches	Check visually	No deformation and harmful flaws.	Replace the part.
Load chain	Check visually	No obvious rust or corrosion. Lubrication must be on surface.	Oil the load chain. Replace the load chain.
Other	Check visually	No missing nuts and/or split pins. No flaws or damages on the hoist surface. No missing and/or twist chain stopper.	Replace the parts.

### 5.3 Periodic inspection

Periodic inspection shall be made at the interval shown below and should the given procedures.  
 NORMAL (Normal use): Six monthly inspection  
 HEAVY (Frequent use): Quarterly inspection  
 SEVERE (Excessively frequent use): Monthly inspection

Item	Inspection method	Discard criteria	Remedy																																									
<b>1. Hook assembly</b>  1.1 Stretch and wear  	Measure	Measure the dimension A when new. <table border="1"> <thead> <tr> <th rowspan="2">Capacity (t)</th> <th colspan="3">A* (mm)</th> <th colspan="2">C (mm)</th> </tr> <tr> <th>Normal</th> <th>Standard</th> <th>Discard</th> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <tr> <td>0.75</td> <td>30.0</td> <td>13.0</td> <td>≤ 12.4</td> <td>21.5</td> <td>≤ 20.3</td> </tr> <tr> <td>1.5</td> <td>36.0</td> <td>17.0</td> <td>≤ 16.2</td> <td>28.8</td> <td>≤ 27.3</td> </tr> <tr> <td>3</td> <td>40.0</td> <td>25.0</td> <td>≤ 23.8</td> <td>43.8</td> <td>≤ 41.6</td> </tr> <tr> <td>6</td> <td>50.0</td> <td>32.0</td> <td>≤ 30.4</td> <td>52.5</td> <td>≤ 49.9</td> </tr> <tr> <td>9</td> <td>64.0</td> <td>40.0</td> <td>≤ 38.0</td> <td>60.4</td> <td>≤ 57.4</td> </tr> </tbody> </table> <p>* These values are nominal since the dimension is not controlled to a tolerance. The A dimension should be measured when the hook is new. The A dimensions should not be greater than 1.05 times that measured and recorded at the time of purchase.</p>	Capacity (t)	A* (mm)			C (mm)		Normal	Standard	Discard	Standard	Discard	0.75	30.0	13.0	≤ 12.4	21.5	≤ 20.3	1.5	36.0	17.0	≤ 16.2	28.8	≤ 27.3	3	40.0	25.0	≤ 23.8	43.8	≤ 41.6	6	50.0	32.0	≤ 30.4	52.5	≤ 49.9	9	64.0	40.0	≤ 38.0	60.4	≤ 57.4	Replace
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9	64.0	40.0	≤ 38.0	60.4	≤ 57.4																																							
1.2 Flaw	Check visually	Should be free from significant rust, weld splatter, deep nick, or gouges.	Replace																																									
1.3 Rotate	Check visually and function	Should rotate freely with no roughness.	Replace																																									
1.4 Hook yoke	Check visually and function	Should not slack or miss rivets, nuts or bolts.	Replace																																									
1.5 Hook latch	Check visually	Proper positioning and smooth working.	Replace																																									

Item	Inspection method	Discard criteria	Remedy																								
<b>2. Load chain</b>  2.1 Wear  	Measure	<table border="1"> <thead> <tr> <th rowspan="2">Capacity (t)</th> <th colspan="2">L (mm)</th> <th colspan="2">D (mm)</th> </tr> <tr> <th>Standard</th> <th>Discard</th> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <tr> <td>0.75</td> <td>90.0</td> <td>≥ 92.5</td> <td>6.0</td> <td>≤ 5.4</td> </tr> <tr> <td>1.5</td> <td>120.0</td> <td>≥ 123.3</td> <td>8.0</td> <td>≤ 7.2</td> </tr> <tr> <td>3, 6, 9</td> <td>150.0</td> <td>≥ 154.0</td> <td>10.0</td> <td>≤ 9.0</td> </tr> </tbody> </table>	Capacity (t)	L (mm)		D (mm)		Standard	Discard	Standard	Discard	0.75	90.0	≥ 92.5	6.0	≤ 5.4	1.5	120.0	≥ 123.3	8.0	≤ 7.2	3, 6, 9	150.0	≥ 154.0	10.0	≤ 9.0	Replace
Capacity (t)	L (mm)			D (mm)																							
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1.5	120.0	≥ 123.3	8.0	≤ 7.2																							
3, 6, 9	150.0	≥ 154.0	10.0	≤ 9.0																							
2.2 Flaws, deformations	Check visually	Should be free from twist or harmful flaw.	Replace																								
2.3 Rust	Check visually	Should be free from obvious rust.	Remove rust, oil the chain																								
<b>3. Bottom hook pin</b>  3.1 Twist, deformations  	Check visually, measure	Replace the hook pin if there is obvious deformation, and the screw thread of hook pin should be free of flaw and deformation. <table border="1"> <thead> <tr> <th rowspan="2">Capacity (t)</th> <th colspan="2">D (mm)</th> </tr> <tr> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <tr> <td>0.75</td> <td>7.5</td> <td>≤ 7.1</td> </tr> <tr> <td>1.5</td> <td>10.0</td> <td>≤ 9.5</td> </tr> <tr> <td>3</td> <td>14.5</td> <td>≤ 13.8</td> </tr> <tr> <td>6</td> <td>14.5</td> <td>≤ 13.8</td> </tr> <tr> <td>9</td> <td>14.5</td> <td>≤ 13.8</td> </tr> </tbody> </table>	Capacity (t)	D (mm)		Standard	Discard	0.75	7.5	≤ 7.1	1.5	10.0	≤ 9.5	3	14.5	≤ 13.8	6	14.5	≤ 13.8	9	14.5	≤ 13.8	Replace				
Capacity (t)	D (mm)																										
	Standard	Discard																									
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6	14.5	≤ 13.8																									
9	14.5	≤ 13.8																									
3.2 Rust	Check visually	Should be free from obvious rust.	Remove rust, oil the pin																								
<b>4. Top/Bottom hook pin hole</b>  4.1 Deformations  	Measure	<table border="1"> <thead> <tr> <th rowspan="2">Capacity (t)</th> <th colspan="2">Diameter (mm)</th> </tr> <tr> <th>Bottom hook pin hole</th> <th>Top hook pin hole</th> </tr> </thead> <tbody> <tr> <td>0.75</td> <td>7.5 ≥ 8.0</td> <td>12.5 ≥ 13.1</td> </tr> <tr> <td>1.5</td> <td>10.5 ≥ 11.0</td> <td>14.5 ≥ 15.2</td> </tr> <tr> <td>3</td> <td>15.0 ≥ 15.7</td> <td>18.0 ≥ 18.9</td> </tr> <tr> <td>6</td> <td>15.0 ≥ 15.7</td> <td>18.0 ≥ 18.9</td> </tr> <tr> <td>9</td> <td>15.0 ≥ 15.7</td> <td>18.0 ≥ 18.9</td> </tr> </tbody> </table>	Capacity (t)	Diameter (mm)		Bottom hook pin hole	Top hook pin hole	0.75	7.5 ≥ 8.0	12.5 ≥ 13.1	1.5	10.5 ≥ 11.0	14.5 ≥ 15.2	3	15.0 ≥ 15.7	18.0 ≥ 18.9	6	15.0 ≥ 15.7	18.0 ≥ 18.9	9	15.0 ≥ 15.7	18.0 ≥ 18.9	Replace hook assembly				
Capacity (t)	Diameter (mm)																										
	Bottom hook pin hole	Top hook pin hole																									
0.75	7.5 ≥ 8.0	12.5 ≥ 13.1																									
1.5	10.5 ≥ 11.0	14.5 ≥ 15.2																									
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6	15.0 ≥ 15.7	18.0 ≥ 18.9																									
9	15.0 ≥ 15.7	18.0 ≥ 18.9																									



5. Brake system																							
Item	Inspection method	Discard criteria	Remedy																				
5.1 Rust	Check visually	All parts should be free from rust.	Remove rust, oil the parts, or replace.																				
5.2 Flaw on friction disc	Check visually	Should be free from harmful flaw.	Replace																				
5.3 Wear on friction disc	Measure	Retain uniform thickness and friction disc shall not be worn more than 0.5mm. <table border="1"> <thead> <tr> <th rowspan="2">Capacity (t)</th> <th colspan="2">Thickness of friction disk(H)</th> </tr> <tr> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <tr> <td>0.75-9</td> <td>3.0mm</td> <td>≤ 2.5mm</td> </tr> </tbody> </table>	Capacity (t)	Thickness of friction disk(H)		Standard	Discard	0.75-9	3.0mm	≤ 2.5mm	Replace												
Capacity (t)	Thickness of friction disk(H)																						
	Standard	Discard																					
0.75-9	3.0mm	≤ 2.5mm																					
5.4 Flatness of friction disc	Check clearance with gauge.	Clearance should be uniform. Internal part should not be thicker than external part.	Replace																				
5.5 Ratchet disc	Measure	Measure the external diameter A of ratchet disc <table border="1"> <thead> <tr> <th rowspan="2">Capacity(t)</th> <th colspan="2">A dimension(mm)</th> </tr> <tr> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <tr> <td>0.75</td> <td>74.5</td> <td>≤ 71.5 (Discard)</td> </tr> <tr> <td>1.5</td> <td>85.0</td> <td>≤ 83.0 (Discard)</td> </tr> <tr> <td>3</td> <td>94.0</td> <td>≤ 91.0 (Discard)</td> </tr> <tr> <td>6</td> <td>94.0</td> <td>≤ 91.0 (Discard)</td> </tr> <tr> <td>9</td> <td>94.0</td> <td>≤ 91.0 (Discard)</td> </tr> </tbody> </table>	Capacity(t)	A dimension(mm)		Standard	Discard	0.75	74.5	≤ 71.5 (Discard)	1.5	85.0	≤ 83.0 (Discard)	3	94.0	≤ 91.0 (Discard)	6	94.0	≤ 91.0 (Discard)	9	94.0	≤ 91.0 (Discard)	Replace
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9	94.0	≤ 91.0 (Discard)																					
5.6 Pawl	Check visually	Should be free from wear on the surface.	Replace																				
5.7 Pawl spring	Check visually	Should be free from deformation	Replace																				
5.8 Free spring	Measure	Measure the length 0.75t L≤27 (mm) 1.5t L≤22.5 (mm) 3~9t L≤27 (mm)	Replace																				
<b>6. Lifting system</b>																							
6.1 Load sheave	Check visually	Should be free from large wear or deformation.	Replace																				
6.2 Gear	Check visually	Tooth should be free from large wear or flaw.	Replace																				
6.2 Gear box	Check visually	Should be free from wear or deformation.	Replace																				

7.2 Top hook pin	Measure	<table border="1"> <tr> <td>0.5t</td> <td>D≤9.5mm</td> </tr> <tr> <td>1t, 2t</td> <td>D≤11.5mm</td> </tr> <tr> <td>1.5t, 2t</td> <td>D≤13.4mm</td> </tr> <tr> <td>5~30t</td> <td>D≤17.5mm</td> </tr> </table>	0.5t	D≤9.5mm	1t, 2t	D≤11.5mm	1.5t, 2t	D≤13.4mm	5~30t	D≤17.5mm	Measure the external diameter of the top hook pin.	Replace
0.5t	D≤9.5mm											
1t, 2t	D≤11.5mm											
1.5t, 2t	D≤13.4mm											
5~30t	D≤17.5mm											
7.3 Guide plate	Check visually	Should be free from wear or deformation.	Replace									
7.4 Chain stopper ring	Check visually	Should be free from wear or deformation.	Replace									
<b>8. Function</b>												
8.1 Lifting and lowering	Lift and lower a light load.	No abnormal difficulty in lifting and lowering.	Overhaul and service.									
8.2 Brake	Lift and lower a light load.	Confirm that none of the problems listed below occur during lifting and lower: (1) Lifting impossible. (2) Load slips down slowly. (3) Load falls when the operator releases the hand lever.	Overhaul and service.									

## 6. MAINTENANCE

### 6.1 General

Incorrect maintenance may result in serious bodily injury or death. Only trained and competent personnel could maintain this equipment.



**WARNING**

After performing any maintenance on the hoist, always test the hoist according to this manual before returning to service.



**CAUTION**

- (1) Always take care hand or clothes will not be caught in a chain, idle sheave or other moving parts.
- (2) Never operate the hoist when maintenance.
- (3) Always inspect all the items if abnormal difficulty in lifting and lowering.
- (4) Never perform maintenance on the hoist while it is supporting a load.
- (5) Always wipe off all dirt and water.
- (6) Always store the hoist in dry and clean place.

### 6.2 Lubrication

Make sure to lubricate load chain, hook latches, top/bottom hook pin and hook yoke, etc.. Load chain is one of the important parts of a hoist, it is should be lubricated well with machine oil.



**CAUTION**

- (1) Lubricate load chain weekly, or more frequently, depending on severity of service.
- (2) Lubricate load chain more frequently than normal in a corrosive environment.

Notes: Recommended lubricant of this product is lithic grease #3.

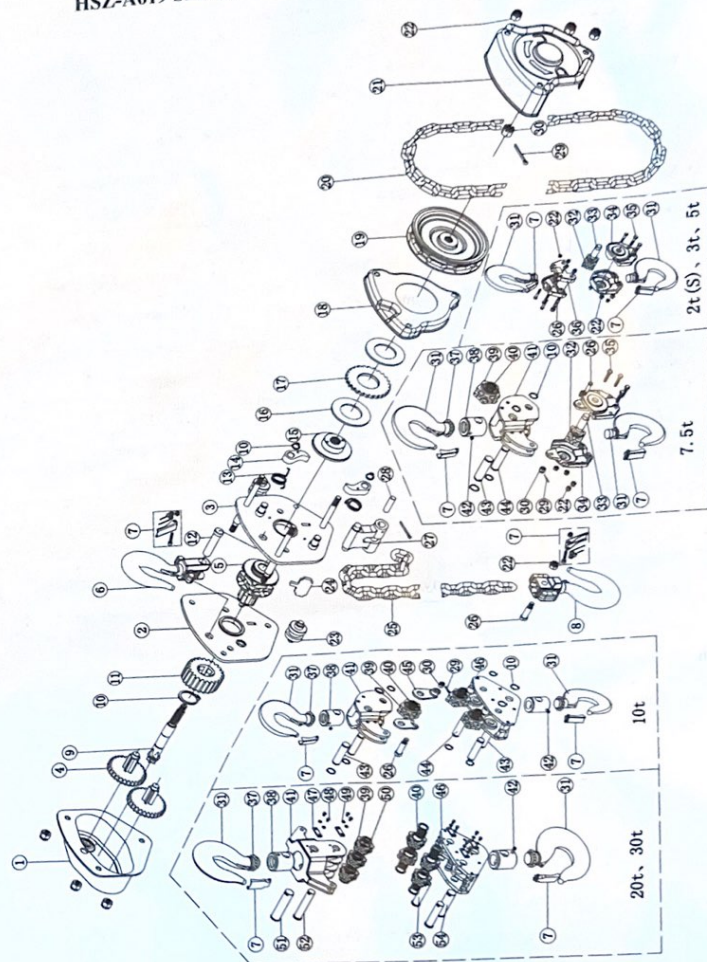


## 7. TROUBLESHOOTING

Trouble	Cause and explanation	Remedy
The pawl makes the proper clicking sound but fails to lift the load.	Worn friction plates. When used at high frequency without performing maintenance regularly, the friction plates will wear down. This will create gaps between the friction disc and hand wheel and cause the brake to slip.	Disassemble and replace the friction plates.
The pawl produces absolutely no sound and fails to lift the load.	The pawl has been improperly assembled. If the pawl is assembled facing the other way, or otherwise assembled incorrectly, it will not cleanly mesh with the ratchet disc.	Disassemble and then reassemble parts correctly.
	The pawl is not moving smoothly. Unless maintenance is performed regularly, dirt will adhere to the grease on the pawl and pawl shaft. Movement will become sluggish and the pawl will remain stuck in the kicked out position.	Disassemble and then reassemble parts correctly.
The chain is tight when lifting, even without a load. (A squeaking noise can be heard at times.)	Worn gear teeth or worn bearing. Unless maintenance is performed regularly, greased parts will dry, resulting in wear and damaged, and improper meshing of gears.	Disassemble and replace the pinion, load gear, gear case, side plate and ball bearing.
Improper lowering or the chain is extremely tight when lowering.	The brake is too tight. Due to shock during work, or because the load was left suspended for a long period of time, the brake tightened.	Free the brakes forcibly by jerking the hand chain.
	The brake is rusted. Unless maintenance is performed regularly, rusting will occur.	Disassemble and replace parts where necessary.
The hoist drops the load when the instant lowering is started.	The braking surface is dirty. During assembly, the braking surface must be wiped cleaned of dirt.	Disassemble and then reassemble parts correctly.
	The braking surface is oily. The braking surface must not be allowed to become soiled with grease or machine oil because it is a dry-type brake.	Disassemble and then reassemble parts. Do not oil or grease the braking surface or friction plates.
Load slipping	The braking surface is oily. The braking surface must not be allowed to become soiled with grease or machine oil because it is a dry-type brake.	Disassemble and then reassemble parts. Do not oil or grease the braking surface or friction plates.
	The braking surface is dirty. During assembly, the braking surface must be wiped cleaned of dirt.	Disassemble and then reassemble parts correctly.

## 8. PARTS LIST

### 8.1 Exploded View Drawing HSZ-A619 SERIES CHAIN HOIST 0.5T-30T





## 8.2 Parts list

No.	Parts Name	No.	Parts Name	No.	Parts Name
1	Gear case assembly	19	Hand chain wheel	37	Roll ball
2	Gear side plate assembly	20	Hand chain	38	Top hook frame
3	Brake side plate assembly	21	Hand wheel cover	39	Top hook wheel
4	Disc gear assembly	22	Lock nut	40	Roller needle
5	Load sheave assembly	23	Guide roller	41	Top hook frame set
6	Top hook assembly	24	Stripper	42	Holding screw
7	Safety latch assembly	25	Load chain	43	Top hook shaft
8	Bottom hook assembly	26	Bottom hook pin	44	Top hook wheel shaft
9	Drive shaft	27	End anchor	45	Chain sling plate
10	Snap ring	28	Tail chain pin	46	Bottom hook frame set
11	Splined gear	29	Split pin	47	Stripper
12	Top hook shaft	30	Castle nut	48	Hex bolt
13	Pawl spring	31	Bottom hook	49	Spring washer
14	Pawl	32	Bottom hook wheel	50	Snap ring
15	Brake Seat	33	Bottom hook wheel pin	51	Top hook shaft
16	Friction disc	34	Bottom hook frame set	52	Top hook wheel shaft
17	Ratchet disc	35	Hex bolt	53	Bottom hook wheel pin
18	Ratchet disc cover	36	Top hook frame set	54	Bottom hook pin