

## Ambition Industry Electric chain hoist



**NB! Read the User Guide carefully before use!**



---

## Contents

<b>Page</b>	<b>Section</b>	<b>Content</b>
3	1.0	Technical specifications – dimensions
4	1.1	Technical specifications – parts
5	1.2	Technical specifications – parts list / article numbers
6	1.3	Technical specifications – how to order parts
6	2.0	Usage
6	3.0	Important information
7	4.0	Safety
9	5.0	Checklist before use
10	6.0	During use
10	7.0	After use
10	8.0	How to use the hoist
11	9.0	Troubleshooting
12	10.0	Periodic inspection
14	11.0	Importer

## User Guide

### 1.0 Technical specifications - dimensions, weight etc.

Article number	WLL at F.O.S. 4:1 tonnes	Voltage / frequency*	Speed metres/min	Standard lifting height metres	Minimum distance hooks etc.	Chain dimensions mm**	Number of chain falls	Class	Approx. weight kg
0271110	0.25	3 x 230v / 50Hz	14 and 3.5	3	505	6.3 x 19	1	M5/2M	36
0271120	0.5	3 x 230v / 50Hz	7.6 and 1.9	3	505	6.3 x 19	1	M5/2M	37
0271130	1.00	3 x 230v / 50Hz	5 and 1.67	3	550	8.0 x 24	1	M4/1Am	40
0271140	2.00	3 x 230v / 50Hz	2.5 and 0.83	3	660	8.0 x 24	2	M4/1Am	50
0271210	0.25	3 x 380v / 50Hz	14 and 3.5	3	505	6.3 x 19	1	M5/2M	36
0271220	0.5	3 x 380v / 50Hz	7.6 and 1.9	3	505	6.3 x 19	1	M5/2M	37
0271230	1.00	3 x 380v / 50Hz	5 and 1.67	3	550	8.0 x 24	1	M4/1Am	40
0271240	2.00	3 x 380v / 50Hz	2.5 and 0.83	3	660	8.0 x 24	2	M4/1Am	50

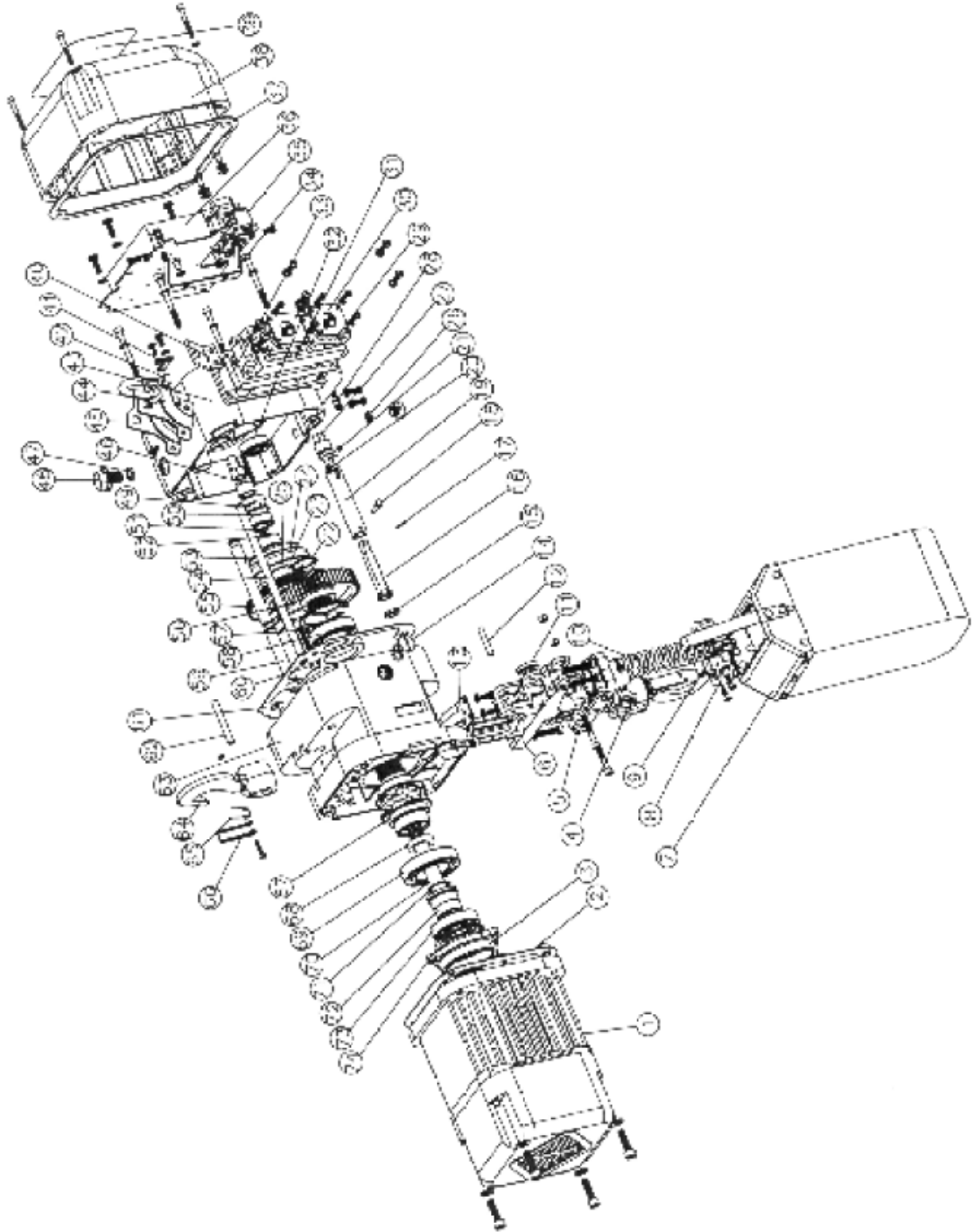
\* When using the hoist with a 60Hz system the speed will be 20% higher than indicated in the table. Its theoretical lifespan will also be somewhat shorter.

\*\* Only DAT chains complying with NS-EN 818-7 must be used.

The hoist may be fitted with an overload switch if desired. Contact your dealer for further information.

# User Guide

## 1.1 Technical specifications - parts



# User Guide



- |                                       |  |
|---------------------------------------|--|
| 1. motor set                          | 38. motor cover                          |
| 2. motor cover pressurize ring        | 39. Label                                |
| 3. bearing set                        | 40. cable plate hanger                   |
| 4. bottom hook assy                   | 41. shaft snap ring                      |
| 5. chain guide assy                   | 42. small discharge piece                |
| 6. chain guide ( DN )                 | 43. box cover                            |
| 7. Chain bucket set                   | 44. cable plate                          |
| 8. chain stop stripper                | 45. cable plate                          |
| 9. chain                              | 46. space cover                          |
| 10. limited spring                    | 47. O type ring                          |
| 11. guide roller                      | 48. outer six corner snail               |
| 12. guide roller shaft                | 49. spring snap ring for bore            |
| 13. chain stopper set                 | 50. deep channel bearing                 |
| 14. oil stuff bolt                    | 51. rubber cushion pressurize for O type |
| 15. limit switch ferrule              | 52. space cover                          |
| 16. limit switch pin                  | 53. dish spring                          |
| 17. cotter pin                        | 54. ring shaft                           |
| 18. connect pin                       | 55. gearwheel                            |
| 19. limit switch pin                  | 56. spindle gear                         |
| 20. O TYPE RUBBER CUSHION CIRCLE      | 57. gear shaft S                         |
| 21. COLUMN PIN                        | 58. deep channel bearing                 |
| 22. SPRING SNAP RING                  | 59. hook shaft                           |
| 23. friction disk                     | 60. lip type pressurize ring             |
| 24. brake lining                      | 61. pressurize ring for gear case        |
| 25. SHAFT COVER                       | 62. COLUMN PIN                           |
| 26. O TYPE RING                       | 63. body                                 |
| 27. limit switch pin                  | 64. top hook assy                        |
| 28. CABLE HANGER                      | 65. twin spring                          |
| 29. Rubber cushion for connection     | 66. chain stopper set                    |
| 30. cable root                        | 67. liad sheave                          |
| 31. connection set                    | 68. lip type pressurize ring             |
| 32. deep channel bearing              | 69. deep channel bearing                 |
| 33. rubber cushion for connect set    | 70. gear shaft S                         |
| 34. electric plate frame              | 71. SPRING SNAP RING                     |
| 35. limit switch set                  | 72. cover for electric connect           |
| 36. electric parts                    | 73. deep channel bearing                 |
| 37. rubber cushion for electric cover | 74. spring snap ring for bore            |

## 1.2 Technical specifications - parts list / article numbers

Article numbers	Description	WLL tonnes
0271400	Top hook	0.25
0271403	Top hook	0.5
0271406	Top hook	1.00
0271409	Top hook	2.00
0271420	Load hook	0.25
0271423	Load hook	0.5
0271426	Load hook	1.00
0271429	Load hook	2.00

---

## 1.3 How to order parts

Article numbers for individual parts or for sets of parts are listed in the above table. The article numbers cover parts for specific hoist sizes. To place an order, contact your dealer and state the relevant article number and the number of units required.

## 2.0 Usage

- \*The hoist is designed to lift and lower loads.
- \*The hoist must not be used in areas where there is a risk of explosion.
- \*The hoist is not suitable for use in areas that are particularly prone to corrosion.
- \*The hoist is not suitable for use in areas where humidity is higher than 85%.

## 3.0 Important information

- \*Read this User Guide carefully before using the hoist for the first time.
- \*It is important that the user has the appropriate skills and experience in order to understand this User Guide and to use the hoist correctly.
- \*Before using the hoist for the first time, run it for 15 minutes, without a load attached, to ensure that it works correctly. This should also be done with hoists that have not been used for some time.
- \*Always check that all electrical connections are working properly, that the cables are not damaged and that the equipment can be switched off using a mains switch.
- \*Safety regulations stipulate that a test of the lifting arrangement must be carried out before it is used for the first time.



## User Guide

---

\*When replacing the chain, ensure that only DAT chains compliant with NS-EN 818-7 are used. The chain must have the correct dimensions. It is also important that the chain is correctly fitted. Chains must only be replaced by qualified personnel.

\*Maximum lifting height is, in principle, 12 metres. Contact your dealer for further information.

### 4.0 Safety

\*Only persons with the appropriate skills and experience should use the hoist. The user should have good knowledge of the use and construction of lifting gear in general and must have knowledge of the relevant directives and regulations on the use and design of lifting gear.

\*Always ensure that your co-workers and any other people in the vicinity are aware that you are starting a lifting operation!

\*Never overload a hoist! Maximum lifting capacity is printed on the hoist's label as WLL (Working Load Limit).

\*Never stand or move underneath a suspended load!

\*The hoist must never be used to transport or lift people!

\*Always inspect the hoist before use.

\*Check that the hook latch is working properly.

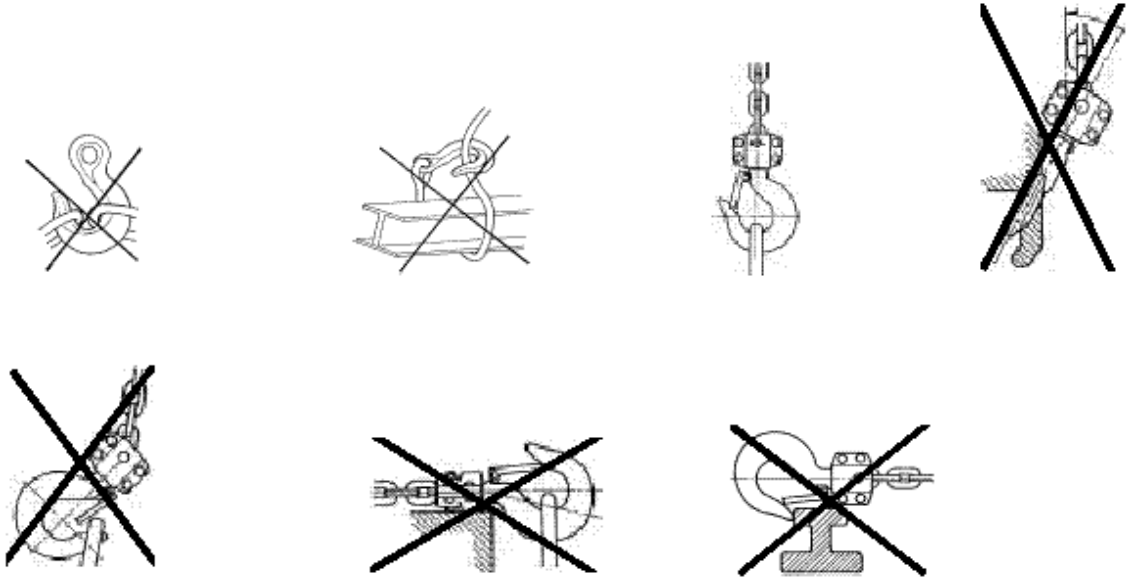
\*Always check that the WLL of the hoist complies with the lift you are performing.

\*The hoist must not be used if its labelling is inadequate.

\*The hoist must not be used if the hook is damaged.

# User Guide

- \*Always check that the hoist has not been taken out of use after the previous operation due to a fault. If this is the case, the hoist must not be used but should be repaired!
- \*Never leave a suspended load unattended.
- \*Be aware that pendular motion may increase the strain on the hoist. This should be avoided!
- \*The load must always be properly placed on the hook!
- \***The hoist should be inspected by a trained person at least twice a year!**
- \***Only use original parts and accessories. This is important in order to fully maintain the hoist's functions!**
- \***Repairs on the hoist must only be carried out by trained personnel!**





## User Guide

### 5.0 Checklist before use

\*Before each use, the hoist must be inspected by a person with the appropriate training.

\*Always check the following before use:

<b>Part:</b>	<b>Inspection:</b>	<b>Requirement:</b>	<b>If requirement is not met:</b>
Label	Visual	All information must be clear and legible.	Replace label.
Hook latch	Visual	The latch on the hook must be working properly.	Replace hook or latch.
Hook	Visual	The opening of the hook must not be too wide.	Replace hook.
	Visual	The hook must not be worn, damaged or deformed.	Replace hook.
Chain	Visual	The links in the chain must not be twisted.	Replace chain.
	Visual	The chain must be free from rust or other types of corrosion.	Replace chain.
	Visual	The chain should be lubricated with thin oil.	Lubricate chain.
Noise	Operate hoist without load	There should be no unusual noise coming from the hoist or the transmission.	Replace part(s) that cause(s) the noise.
Miscellaneous	Visual	Check that no nuts, bolts, split pins, cables or other visible parts are missing, loose or incorrectly fitted.	Replace missing parts or tighten/fit loose or incorrectly fitted parts.

---

### 6.0 During use

- \*Ensure that the load/strap is correctly attached to the hook.
- \*Never rest a load on the tip of the hook.
- \*Never use the hoist to stabilise or suspend a load while you or others weld or carry out other work on the load.
- \*No parts other than the hook should be used to carry a load.
- \*If any unusual noise occurs during operation, halt work immediately and ensure that the hoist is inspected by a trained person.

### 7.0 After use

- \*Do not leave the load hanging longer than necessary. It should be set down immediately or as soon as possible!
- \*Never leave a suspended load unattended!
- \*Never throw the hoist on the floor! Put it down carefully!

### 8.0 How to use the hoist

Press the green button on the control panel to start or stop the hoist.

Press "↑" to raise the load.

Press "↓" to lower the load.

In the event of an emergency, press the red emergency stop switch. This breaks the power supply to the hoist, which will stop immediately. Turn the emergency stop to the right to resume operation.



## User Guide

The hoist is fitted with end switches to determine the highest and lowest permitted hook position. The end switches must not, under any circumstances, be used for any other purpose!

The hoist can be operated at two different speeds. Lightly press the “up” or “down” buttons for low speeds and press the buttons fully for higher speeds.

When using a trolley: Never pull the steering cable to move the hoist!

## 9.0 Troubleshooting

Problem	Possible cause	Solution
Hoist does not work.	Loose cables.	Check all cables.
	Electrical components are damaged.	Replace components.
Hoist does not work and brakes are emitting abnormal noise.	Insufficient power supply.	Rectify power supply.
Load sags when hoist stops.	Dust or oil on brake disks.	Clean brake disks.
	Brake disks are worn.	Replace brake disks.
Load continues moving up or down after button is released.	Contactors are damaged.	Replace contactors.
Chain emits abnormal noise.	Chain is not lubricated.	Lubricate chain with thin oil.
	Pulley wheel is worn.	Replace pulley wheel.
Power leak.	Earth connection is not working properly, humidity levels are high, or there is dust in the electrical parts of the hoist.	Check earth connection and remove any dust in the hoist.

## User Guide

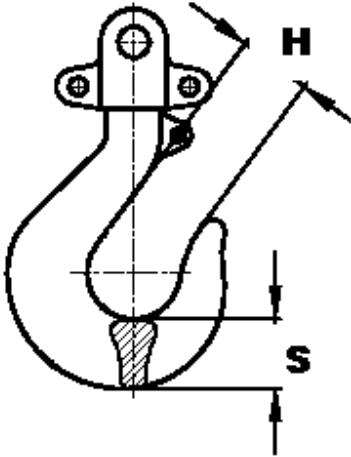
### 10.0 Periodic inspection

Inspection of the hoist must be carried out once a year by a workshop / qualified personnel with the appropriate training. More frequent inspections should be carried out if the hoist has been subject to heavy use. The following should be inspected:

<b>Part:</b>	<b>Inspection:</b>	<b>Requirement:</b>	<b>If requirement is not met:</b>
Chain	Measure using callipers.	Chain thickness must be reduced by 10%. The extension of the chain must be a maximum 3% measured on the outside over 11 links (11 x t).	Replace load chain.
	Visual	There must be no visible rust on the chain.	Replace load chain.
	Visual	The chain must not be twisted or have cracks.	Replace load chain.
Hook	Measure using callipers.	Largest acceptable enlargement of hook opening (H) is 10%.	Replace hook.
	Visual inspection.	There must be no visible twists in the hook.	Replace hook.
	Visual inspection.	There must be no significant visible damage.	Replace hook.
	Physical inspection.	The hook latch must slide easily into position.	Replace latch or hook.
Lifting function	Lift and lower a light load.	There should be no abnormal performance or noise.	Overhaul internal mechanisms.
Brakes	Lift and lower a light load.	All functions such as lifting and lowering should work normally.	Overhaul brake mechanism. (Ensure there is no grease or other residue on the brake disks.)

# User Guide

All other parts	Check all parts.	All parts must be in good condition with no obvious visible wear.	Replace worn parts.
Internal mechanism	Visual	Ensure there is sufficient grease ( <b><u>not on the brake disks!</u></b> ).	Lubricate mechanism with grease.
Label	Visual	All information must be clear and legible.	Replace label.
Electronics	Visual	All cables, couplings etc., must be undamaged.	Replace damaged parts.



Standardized values				
Lifting capacity / WLL	Kgs	Kgs	Kgs	Kgs
	250	500	1000	2000
H - mm	27	27	33	40
S - mm	21	21	24	30



### 11.0 Importer

**The hoist is imported by:**

John Dahle Skipshandel AS  
Plattformveien 6  
4056 Tananger  
Norway

Telephone: +47 5164 6990  
Fax: +47 5164 6991  
Website: [www.john-dahle.no](http://www.john-dahle.no)  
e-mail: [j.d.mail@john-dahle.no](mailto:j.d.mail@john-dahle.no)