



User manual for Lifting Chain Applications, Tumble Lifter, Drum Lifter, and Lifting Clutch

Anyone who uses lifting applications and lifting equipment must have the required training and knowledge for safe use. The user must also be able to understand the dangers associated with the use of the equipment. Maintenance and control of the equipment should be conducted at a minimum once a year by a certified organization.

User manual for lifting chain applications and chain components

Limits of use:

The WLL (working load limit) and working angle of the equipment can never be exceeded.

The thickness of what is lifted must not exceed 95% of the gap on the hooks.

The hooks should not be used in hot environments or exposed to heat treatment.

It is not allowed to correct deformed hooks, neither by cold –or hot bending.

The load must be lifted symmetrically when maximum utilization of WLL is used.

When using lifting chain application in temperatures below -40 degrees Celsius, the manufacturer should be consulted before use.

Before use

Check for the following before use:

1. The lifting equipment and components have a valid certificate.
2. The lifting equipment is controlled by a certified organization within the past 12 months.
3. The components are free from deformations, cracks, and heat damage.
4. The batch number (ID-code) is readable.
5. Normal wear on the equipment does not exceed more than 10%.
6. Check if the safety latches are properly functional.

During use

When using lifting applications, the user must not touch it when the crane and gear are in motion due to the huge risk of being squeezed. The user cannot not operate underneath a suspended load. It is recommended to use a guide rope to keep your distance.

When attaching the hooks to an application/equipment, make sure that:

1. The shackles are positioned correctly against the lifting eye of the hooks.
2. The safety latches locks properly.
3. That single components of the equipment are linked correctly against each other.

If the tool is suspected to be defective, it should not be used. It should be delivered to a certified organization for a new inspection or repair. Repairs must only be carried out by qualified personnel.

It may be necessary to use protection on the parts of the chain that are in direct contact with the load to prevent chafing on both the chains and the load itself. A protection that covers the edges should be used in such instances. A general rule is that the edges should have a radius greater than –or equal to 2x the chain`s diameter.

All chain applications must have their WLL mark reduced by 20% when snared (looped in itself).

Safety rules/improper use:

1. Never stand underneath a hanging load.
2. The equipment must never exceed its allowed WLL.
3. The working angle for the lifting chain application is 45 degrees and must not be exceeded.
4. Check that the load is positioned symmetrical to the chain application.
5. The lifting chain application should not be used with acids, alkalis, or open flames.
6. The lifting chain application should not be extended with another lifting application (for example. Fiber rope slings, webbing flat straps, or wire rope slings).
7. No hooks should be used for lifting with the tip.

When using a lifting chain application, all loads must be lifted carefully, all "shock" treatment by rapid hoisting should be avoided.

Improper placement of the hook over the load will result in the load shifting horizontally and can lead to dangerous situations.

Inspection and Control:

- The lifting chain application must be checked for damages and/or defects after use.
- Single components of the application may also have damages/defects. –If so, the component(s) must be detached from the application and sent to a certified inspection or repair.
- The chain application must be stored at a location that prevents it from getting damages or deteriorate. A recommended location is a dry storage.
- The owner of the lifting chain application is obligated to store all documentation that belongs to the chain application for 10 years. The documentation includes repairs, inspections, guidelines, declaration of conformity, and other relevant documents.

Tumble Lifter with Swivel

ART NR	FOR HOLES DIA TUMBLE	CHAINS DIA	WLL TONS 1:4	PISTOL LENGTH
921908	60-90 MM	8 MM	2	180 mm
921910	75-120 MM	10 MM	3,15	200 mm
921913	87-140 MM	13 MM	5,3	280 mm

In addition to all the above checkpoints, it is important to note the following regarding the ball bearing swivel:

1. The swivel is not isolated against electric current.
2. Make sure that the swivel rotates easily, without any resistance.
3. The swivel should be inspected by a certified organization if any defects are suspected.



Drum Lifter

ART NR	TOTAL LENGTH	CHAINS DIA	WLL TONS 1:4	CA KG/PCS
921920	690 MM	6 MM	0,7	3,0

In addition to all the above checkpoints, it is important to note the following regarding the drum lifter:

1. We recommend testing the drum lifter with 50% load (minimum 350kg) during annual inspection to double check that the drum fittings work properly.
2. Make sure that the springs and locking mechanisms are in place, lubricated and working properly.
3. Never use fitting lifting applications where errors are suspected!
4. Repairs can only be done by a certified organization.



Lifting Clutch

ART NR	CHAIN LENGTH	CHAIN DIA	WLL TONS 1:4	CLUTCH OPENING	(L)	CA KG/PCS
921932	1500 MM	7 MM	2,0	60 – 120 MM	245 MM	25
921933	Single Clutch		1,0	60 – 120 MM	245 MM	-

A lifting clutch application consist of the following components:

- Master link and Coupling link in grade 80. Produced acc. to EN 1677 standard. Color: Yellow (powder coated in RAL 1003)
- Grade 80 Lifting chain produced acc. to EN818-2 standard. Color: Black
- Single Clutches produced acc. to EN 13155 standard. Color: Yellow (RAL 1021)



In addition to all the above checkpoints, it is important to note the following regarding the lifting clutch:

Control and inspection



1. Make sure that the certificate and user manual is available.
2. For annual inspections, we recommend testing the lifting application with 50% load (minimum 1000kg), to double check that the clutches work properly. Lift the load with (1xWLL = 1000 kg) above the ground for 5 seconds and then lower and relieve the clutches. Then, lift again without adjusting the clutches. The load must not drop during this test –if it drops, the clutches cannot be used.
3. Holding force test
Lift the load with 2xWLL. If the load drops, the clutches cannot be used.
4. Minimum thickness limit test
Lift with 1xWLL using the lowest thickness limit. If the load drops, the application/clutches cannot be used.
5. Minimum WLL test
Lift with 10% of WLL and the lowest thickness limit. If the load drops, the application/clutches cannot be used.
6. Make sure that the springs and locking mechanisms are in place, lubricated and working properly.
7. Never use fitting lifting applications where errors are suspected!
8. Repairs can only be done by a certified organization.

*If you have any questions about these installation instructions or the product, please contact us at aseke on
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