
	<p><b>USER- AND INSTALLATIONS INSTRUCTIONS: EUREKA wire rope grip</b></p> <p>Declaration of incorporation of partly completed machinery. In accordance with EC Directive on Machinery 2006/42/EC CERTEX Danmark A/S declares under its sole responsibility that delivered wire rope grip is approved for lifting and can be included in a CE-marked lifting gear. If the customer makes any modification of the product or if the customer combines the product with a non-compatible product/component CERTEX Danmark A/S take no responsibility for the consequences in regard to the safety of the product.</p>	
<p>The work with lifting devices and equipment's must be planned, organized and executed in order to prevent hazardous situations. In accordance with national statutory regulations lifting devices and equipment must only be used by someone well familiar with the work and having theoretical and practical knowledge of safe use.</p> <p>Before the equipment is used the instruction, manual must be read. It contains important information about how the equipment will work in a safe and correct way. If the equipment is used in accordance with this instruction manual risks and damages can be avoided.</p> <p>Apart from the instruction manual we refer to existing national regulations on each workplace.</p>		

- Failure to follow the regulations of this instruction for use may cause serious consequences such as risk of injury.
- Read and understand these instructions before using the wire rope grips.
- Match same size wire rope grip with same size wire.
- Do not combine EUREKA wire rope grips with other manufactures.

### 1. Description

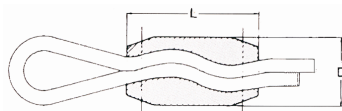
Wire rope grips of the EUREKA type are approved for lifting if mounting is done according to the instructions for use (see next page). The wire rope grip can be used with 6 or 8-strand steel wire ropes with steel or fiber core, in a wire rope quality of up to 1960 N/mm<sup>2</sup>. When properly assembled, the assembly can handle up to 90% of the minimum breaking load of the steel wire rope (MBL).



Do not use for compacted steel wire ropes, or plastic-coated steel wire ropes for lifting purposes with wire rope grips. EUREKA wire rope grips are not suitable for the assembling of 2 steel wire ropes in continuation of each other.

### 2. Handling

To achieve a satisfying assembling, the following number of wire rope grips is required - according to the table below

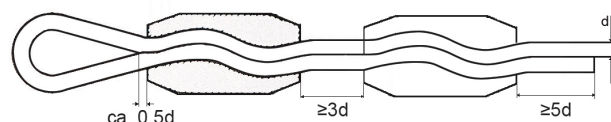


Art No	Wire dia.	Grips*	Bolts		Moment	D	L	Weight
	mm		pcs	Ø mm				
10.175032005	4-5	2	2	5	6	22	27	0,065
10.175032006	6	2	2	6	15	28	28	0,140
10.175032008	8	2	2	6	18	33	33	0,240
10.175032010	9-10	2	2	8	30	42	42	0,520
10.175032011	11	2	2	8	30	43	43	0,520
10.175032013	12-13	2	2	10	70	48	48	0,800
10.175032014	14	2	2	10	70	50	50	1,150
10.175032016	15-16	2	2	12	115	62	62	1,700

\*Number of wire rope grips required

According to the Danish Working Environment Authority (AT-meddelelse nr. 2.02.5). For use outside Denmark, please contact the local authorities in the country in question.

### Assembling:



All screws must be tightened sequentially and evenly. The screws must be tightened after the wire has been charged.

The wire eye must be fitted with a thimble that fits the wire dimensions and takes into account the load of the wire. The wire rope grip closest to the thimble must be placed so that the thimble cannot fall out. Carry out a load test with the maximum permissible load.

### Splicing / interconnection:



Interconnection of steel wire ropes when using wire rope grips must normally be done by means of two end fittings which are connected to an extension joint. Steel wires must not be connected by overlap and locked with wire rope grips.

### 3. Maintenance

All wire locks must be retightened after a while - from a few days up to 3 weeks - depending on the intensity of the task.

- Before and after use, the attached wire rope grips must be inspected for displacements, deformation and wear.
- Inspect the assembly regularly - at least once a year.

**Must be inspected at least once a month and must undergo a complete inspection at least every 12 months. Please note local regulations and regulations must be observed with regard to inspection.**

### Rejection/Disposal

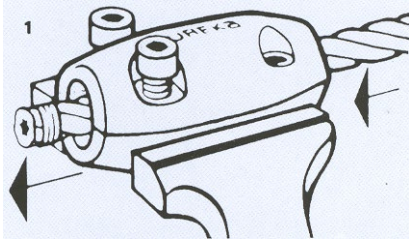
**EUREKA wire rope grips must always be sorted / disposed of as general steel scrap. Material is C45 / 40Cr.**

**The supplier will assist you with disposal if required.**

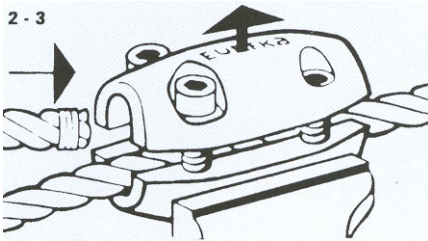
### Reservations

CERTEX Danmark A/S reserves the right to modify product design, materials, specifications or instructions without prior notice and without obligation to others.

**Lifting equipment should be inspected at least once a month and undergo a complete overhaul at least every 12 months.**

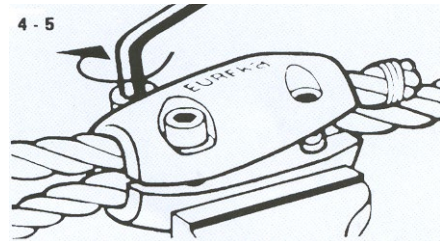


1. Fasten half of the wire rope grip in a vice. Untie the bolts and pull the wire through the lock.



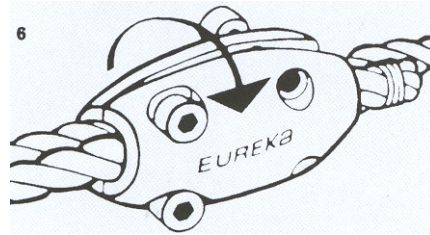
2. Form the eye and push the end of the wire back through the rope grip.

3. If a thimble has to be used: Insert the thimble and tighten the wire until the thimble is so close to the wire rope grip as  $0,5 \times$  wire diameter.

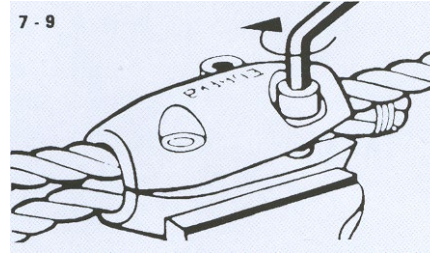


4. The end of the wire has to be entirely carried through the wire rope grip. The visible rope end should approx. have the same length as 5 times the wire diameter.

5. Ensure that the installation of the bolt(s) is correctly carried out. Fasten the bolt(s) on the top.



6. Turn the wire rope grip.



7. Fasten the bolt(s) on the new upper side.

8. Check the tightening of the bolt(s) on both the upper and the lower sides.

9. Use hex key for fastening. When using torque wrench, see chart for tightening torque column Moment Nm.

In case the wire rope grip half parts can be entirely fastened, use the minor EUREKA wire grip for the wire dimension concerned.

**Retighten after the first loading.**

## Product certificate for EUREKA Wire Rope Grips

<b>Product</b>	EUREKA wire rope grip
<b>Application</b>	Designed for all types of lifting, pulling and hanging loads, including elevators and cranes
<b>Wire rope types</b>	Steel wire rope for ordinary applications with fiber or steel core with a maximum strength of 1960 N/mm <sup>2</sup>
<b>Strength</b>	Tested to lift with 2 grips (grips with 2 bolts). Mounted correctly, the joint can hold up to 90% of the wire's minimum breaking load (MBL)
<b>Standard/Directive</b>	The product is in compliance with EU Machinery Directive 2006/42/EC. The EUREKA wire rope grip has been tested and approved in accordance with the tensile test in EN 13411-3 and EN 13511-5. <b>NB!</b> The mentioned EN standards are only valid according to the test procedure. No EN standard cover this type of wire rope grip.
<b>Approval</b>	CERTEX Danmark A/S, Quality department (At-communication no.: 2.02.5)
<b>Precaution</b>	Not for use with compacted or hammered steel wire ropes. It is not permitted to use plastic-coated steel wire for lifting purposes with wire rope grips. EUREKA-wire rope grips are not suitable for assembling 2 wire ropes in extension of each other. Follow the installation instructions in the operating instructions before use
<b>Testing</b>	Testing of EUREKA wire rope grips is performed in the CERTEX Danmark A/S test center, according to the tensile test in EN 13411-3 and EN 13511-5. <b>NB!</b> The mentioned EN standards are only valid according to the test procedure. No EN standard cover this type of wire rope grip. The respective test certificates type 3.1 according to EN 10204 are available from CERTEX Danmark A/S.

Art No	Wire Ø	Number of grips when lifting	Bolt numbers		Moment Nm	Length mm	Outer Ø mm	Weight kg/100
	mm		pcs.	Ø mm				
10.175032005	4-5	2	2	5	6	27	22	6,5
10.175032006	6	2	2	6	15	42	28	14
10.175032008	8	2	2	6	18	50	33	24
10.175032010	9-10	2	2	8	30	63	42	52
10.175032011	11	2	2	8	30	62	43	52
10.175032013	12-13	2	2	10	70	82	48	80
10.175032014	14	2	2	10	70	106	50	115
10.175032016	15-16	2	2	12	115	100	62	170

We hereby confirm that delivered products, similar to this certificate, comply with the above specification and that the referenced standards and directives are met.

**Quality Department**  
Vojens 2021-02-12  
Andreas Andreassen

QA & Lean Manager

CERTEX Danmark A/S

