

EN Instruction for use

# POWERTEX

## Wire Rope Grip EUREKA

Generally tested according to EN 13411-5

User Manual



# POWERTEX Wire Rope Grip EUREKA

## Assembly Instructions (GB) (Original instructions)

### **WARNING**

- Failure to follow the regulations of this mounting instruction may cause serious consequences such as risk of injury.
- Read and understand these instructions before using EUREKA.
- Match the same size EUREKA to the same size wire rope.
- Do not mismatch EUREKA with other brands.

### 1. General description:

POWERTEX forged Wire Rope Grip EUREKA 4-16 mm (rope size). Generally tested according to EN 13411-5. Suitable applications of wire rope grips to EN 13411-5 standards include suspending static loads and single use lifting operations which have been assessed by a competent person considering appropriate safety factors. Correctly mounted the assembly will withstand 90% of the rope's minimum breaking load (MBL). These grips are designed for use with six-stranded wire ropes in 6x19 (M) and 6x36 classes and ordinary lay wire rope in 8x19 class up to 1960 N/mm<sup>2</sup>, with fibre core and a steel core.



It is not recommended to use these wire rope grips with compacted, hammered or plastic covered steel wire ropes. These wire rope grips are not suitable for use with spiral strand ropes.

EUREKA are not suitable for the assembling of 2 steel wire ropes in continuation of each other.

### 2. Handling

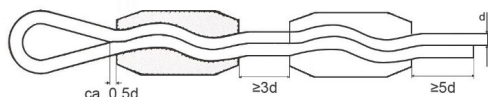
To achieve a satisfying assembling use the table below:

Type	Wire rope Ø mm	No. of EUREKA when lifting*	Torque Nm
EUREKA-5	4-5	2	6
EUREKA-6	6	2	15
EUREKA-8	8	2	18
EUREKA-10	9-10	2	30
EUREKA-11	11	2	30
EUREKA-13	12-13	2	70
EUREKA-14	14	2	70
EUREKA-16	15-16	2	115

\* Minimum number of EUREKA required to fulfill 90% of the rope MBL, local regulations can vary.

### Preparatory steps:

Before assembling ensure that the EUREKA is well cleaned thoroughly and that the body and bolts don't have any damages.



All screws must be tightened sequentially and evenly. The screws must be tightened after the wire rope has been loaded for the first time.

The eye to have a thimble suitable for the wire rope dimension and considering the load of the wire rope. The EUREKA closest to the thimble to be placed so that the thimble cannot fall out.

Proof load the application with maximum allowed force.

### Joining:



Joining of wire ropes using EUREKA normally to be done by two end attachments connected with an extension link.

Wire ropes may not be joined by overlapping and locked with a EUREKA.

### 3. Maintenance:

The EUREKA are to be further tightened after some time, from a few days up to 3 weeks, depending on operation intensity.

- Before and after use the mounted EUREKA to be checked in regard to shifting, deformation and deterioration.
- Inspected at least once a month and must undergo a complete overhaul at least every 12 months.

Please note local rules and regulations must be complied with regards to inspection.

### End of use/Disposal

EUREKA shall always be sorted / scrapped as general steel scrap.

Main material is C45/ 40Cr.

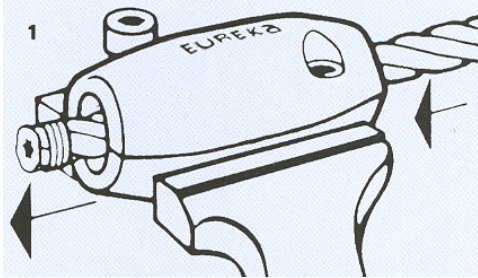
The supplier will assist you with the disposal, if required.

### Disclaimer

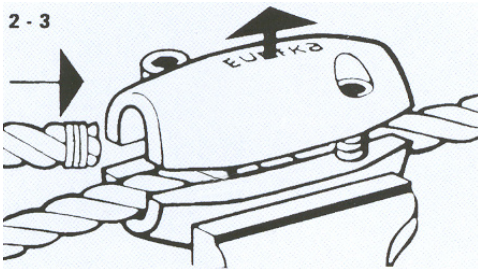
We reserve the right to modify product design, materials, specifications or instructions without prior notice and without obligation to others.

If the product is modified in any way, or if it is combined with a non-compatible product/component, we do not take responsibility for the consequences in regard to the safety of the product.

# Assembly Instructions

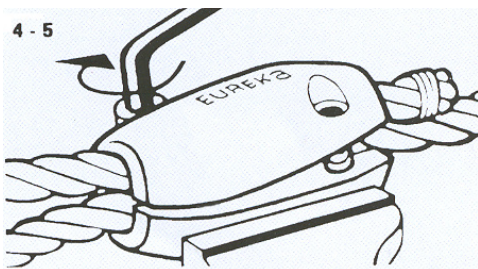


1. Fasten the lower half of the EUREKA in a vice. Loosen the bolts and pull the wire rope through the grip.



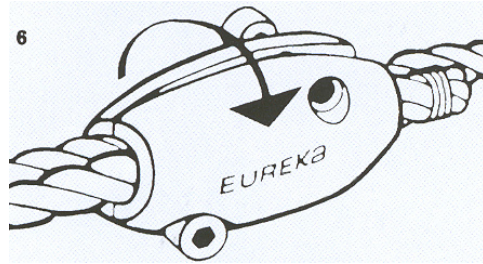
2. Form the eye and push the end of the wire rope back through the EUREKA.

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

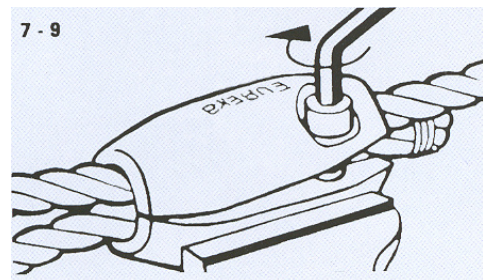


4. The end of the wire rope has to be entirely carried through the EUREKA. The visible wire rope end should approx. have the same length as 5 times the wire rope diameter.

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



6. Turn the EUREKA.



7. Fasten the bolt(s) on the other side.

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

9. Use a torque wrench when tightening, see chart for tightening torque.

In case the EUREKA half parts can be entirely pressed together so that the halves come in contact, use a smaller EUREKA for the wire rope dimension concerned.

**Retighten after the first loading.**

## User Manuals

You can always find the valid and updated User Manuals on the web.  
The manual is updated continuously and valid only in the latest version.

**NB!** The English version is the Original instruction.

The manual is available as a download under the following link:  
[www.powertex-products.com/manuals](http://www.powertex-products.com/manuals)



