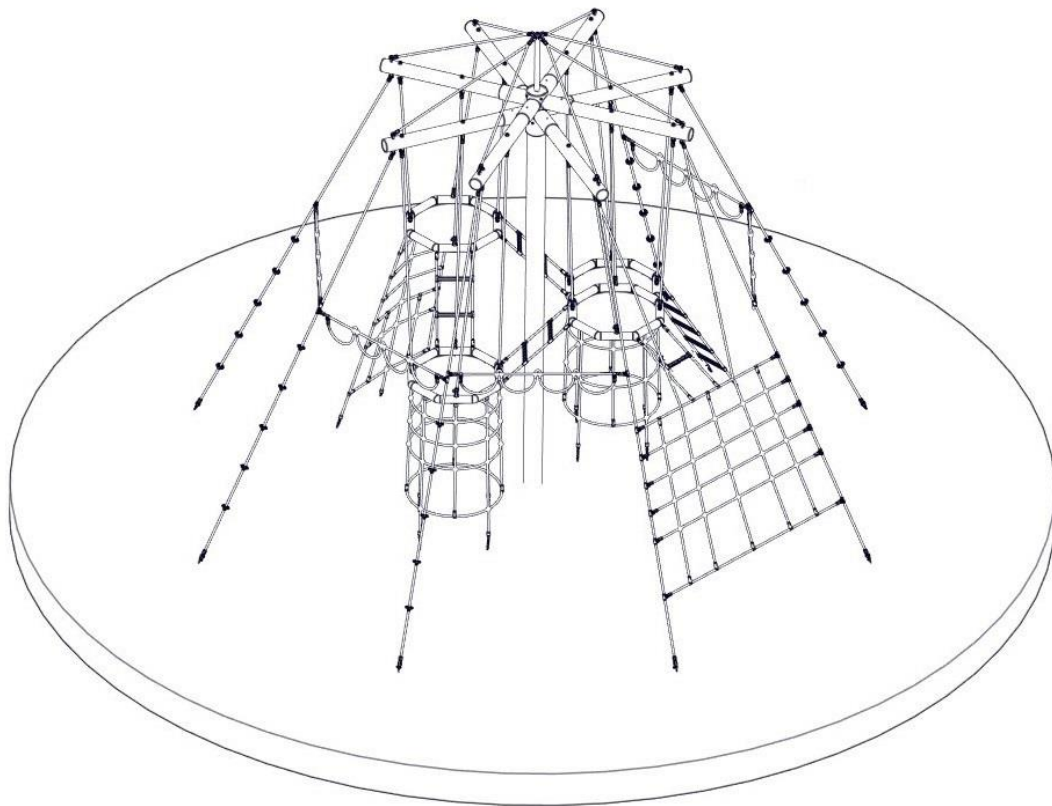


## **A Assembly instructions**

### **Bird's nest tree (EU-GSM)**

#### **Art. 4652**

Attention! Only use the **assembly instructions included in the scope of delivery** for the assembly, installation and maintenance of the respective equipment!



**Revision history**

Revision 0 – 2006-02-13

The first allowed version

Assembly instruction

Revision 22 -2024-04-15 PR

S8+S10 Pos 101+102 überarbeitet

S17-S19 überarbeitet

S24 überarbeitet

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# 1 Introduction Assembling

## 1.1 General information

This equipment should be installed, inspected, maintained and operated in accordance with EN1176-7 guidelines.

**Before installation work commences, please check that you have all of the equipment and fixation components in the parts list provided (see Tables 3-1 and 3-2).**

**Please consider that the installation has to be carried out only on even terrain (max.slope up to 3%).**

Any spare parts that may be required can be obtained directly from your supplier.

Please do not hesitate to call your supplier if you have any problems during installation or in case of any other questions.



**Attention**

Following installation, complete assembly instructions, maintenance instructions and a maintenance record must be sent to the operator who must confirm receipt in writing. See the last page of this document.



**Attention**

All nuts and bolts are hot-dip galvanised or stainless steel.

One of the characteristics of stainless steel is that uncontrolled cold-welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

---

**We hereby confirm that this play equipment has been tested and certified in accordance with the play equipment standard EN 1176.**

## **Drawings / Views**

All optical drawings are showing only the measurements/dimensions and are no mandatory technical views of the complete item.

We reserve the right to change technical details of our articles which are serving for the further development of our articles and are reasonable for the customer.

## **Measurement tolerances**

Because of the properties and characteristics of the components, minor measurement tolerances compared to the indication on the sketches are possible.

This concerns all shown measurements except the foundation measurements resp. measurements below upper edge ground level/play area.

## 2 Datasheet Bird's nest tree, article 4652

1. Equipment space: Ø 8240 mm  
safety zone: Ø 11000 mm  
height of fall: 2800 mm

2. Required safety surface:

Surface material	Description mm	Minimum thickness of layer mm	Maximum height of fall mm
Topsoil grass			<= 1000*
Chipped bark	20 – 80 grain size	400	<= 3000
Wood chippings	5 – 30 grain size	400	<= 3000
Sand	0.2 – 2 grain size	400	<= 3000
Gravel	2 – 8 grain size	400	<= 3000
Other ground materials	As recommended by manufacturer		

3. Name and overall dimension of the largest component:  
Steel post (1 item) length 6.20 m, ø 193.7 mm
4. Name and weight of the heaviest component:  
1 pallet steel post (1 piece) approx. 157 kg
5. Intended age group: 6 years and over
6. **Please note that this equipment is set in concrete.**

Concrete: C25/30

Required concrete: 3.2 m<sup>3</sup>

Foundations / area to be excavated:

Top edge of concrete 40 cm below ground level (see page 10 and 11)

**13 x 0.40 m long x 0.40 m wide, total depth 1.00 m including 10 cm drainage**

**1 x 2.00 m long x 0.40 m wide, total depth 1.00 m including 10 cm drainage**

**1 x 0.40 m long x 0.58 m wide, total depth 1.00 m including 10 cm drainage**

**1 x 1.20 m long x 1.20 m wide, total depth 1.30 m including 10 cm drainage**



**Attention!**

**Round off foundation edges (min.R = 100 mm)! Sizes of foundations are “4-5” (natural ground).**

**Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion < 30% with bigger diameter of 63 mm grain size).**

**Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion > 30% with bigger diameter of 63 mm grain size).**

**In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!**

7. Assembly time, once foundations complete: 20 hours.  
Required assistance: 3 people.
8. Any spare parts which may be required can be obtained directly from your supplier
9. **We hereby confirm that this item of play equipment has been tested and certified in accordance with the play equipment standard EN 1176.**

### 3 Delivery contents (parts list with part numbers)

#### 3.1 In words

Table 3-1: Delivery contents, in words

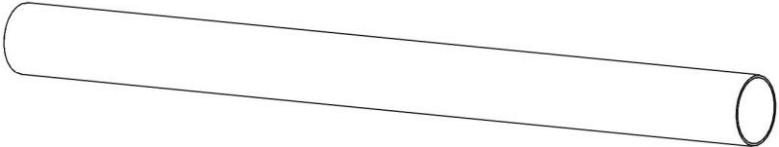
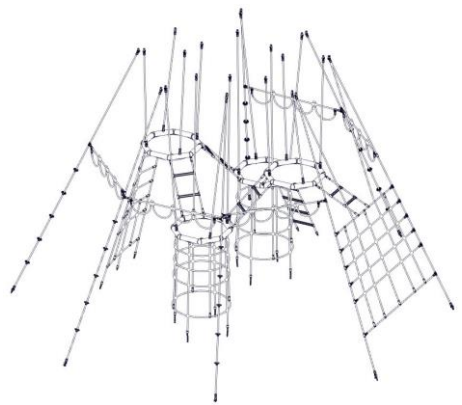
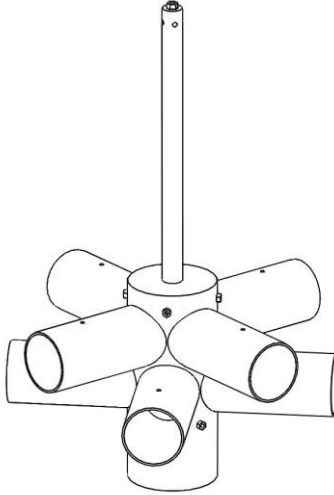
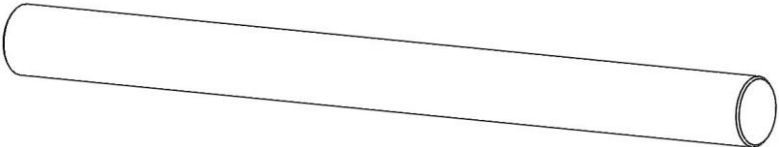
Pos.	Quantity	Element / Description	Size	O.K.	Missing
01	1	Steel mast	Ø 193,7 mm / 6200 mm lg.		
02	1	Play part (nets and bird's nests)	/		
03	1	Mast cap	Ø 219,1 mm / 1240 mm		
04	8	Glue-laminated beam	Ø 139 mm / 1650 mm lg.		
05	4	Top rope for glulam pole (pre-assembled on Pos. 03)	1850 mm lg.		
06	1	Flag / blue + threaded bolt + 1x nut + 1x Self-securing nut + 1x Cap (black)	M16		
100	3	shackle	M6 / VA		
101	20	Chain adapter (stainless steel)	M12		
102	20	Fix anchor	M12		
103	17	nyloc nut + black cap	M12		
104	8	Ring nut (1x pre-assembled)	M12 / VA		
105	8	Red post cap	Ø 139 mm		
106	24	Fillister-head screw	5 x 30 mm		
107	8	Threaded bolt + 2x acorn nut + 2x washer	M10 x 175 mm VA		
108	3	Loctite	3 ml		
109	8	Hexagon socket screw with flat point	M12 x 25 mm		
112	1	anchor plate + eye bolt M16x25 nut M16	500 mm x 500 mm / verz.		
113	48	Washer (2x pre-assembled)	M12		
<b>KNR</b>	<b>1</b>	<b>PVC pipe (Provided by customer)</b>	<b>Ø 400 mm / 850 mm lg.</b>		


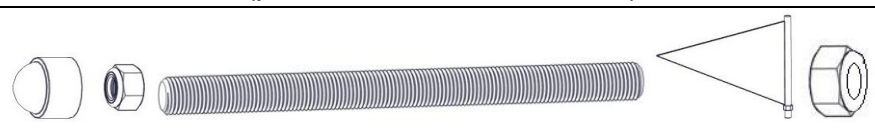
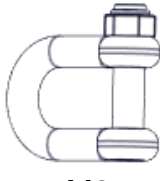
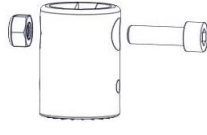
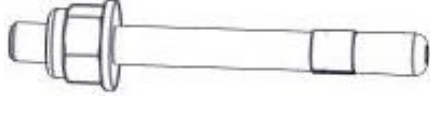
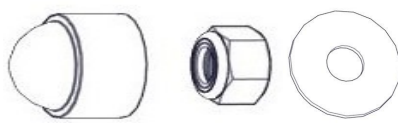

#### 3.2




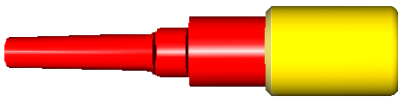


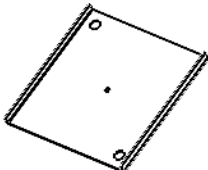


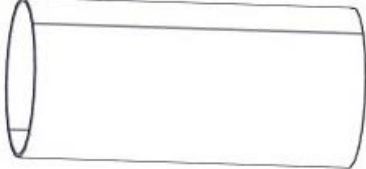



### 3.3 In symbols

Table 3-2: Delivery contents, in symbols

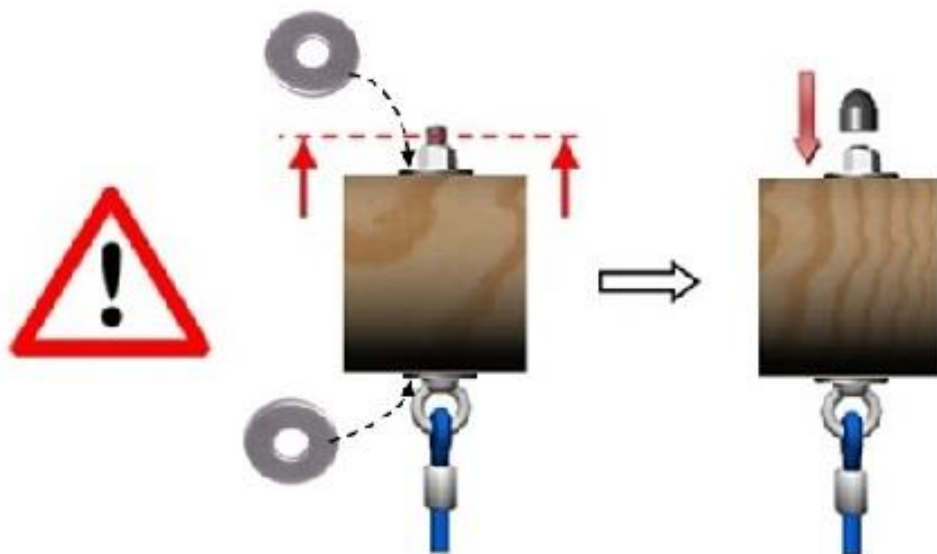
Pos.	Quantity	Symbol
01	1	 <p>Ø 193,7 mm / 6200 mm lg.</p>
02	1	
03	1	 <p>Ø 219,1 mm / 1240 mm</p>
04	8	 <p>Ø 139 mm / 1650 mm lg.</p>

<b>05</b>	<b>4</b>	 <p>1850 mm lg. (pre-assembled on Pos. 03)</p>
<b>06</b>	<b>1</b>	 <p>M16</p>
<b>100</b>	<b>3</b>	 <p>M6</p>
<b>101</b>	<b>20</b>	 <p>Chain adapter (stainless steel) M12</p>
<b>102</b>	<b>20</b>	 <p>M12 Fix anchor</p>
<b>103</b>	<b>17</b>	 <p>M12</p>
<b>104</b>	<b>8</b>	 <p>M12 (1x pre-assembled)</p>

105	8	 Ø 139 mm
106	24	 5 x 30 mm
107	8	 M10 x 175 mm
108	2	 3 ml
109	8	 M12 x 25 mm
112	1	   RM M16 VZ      500 x 500 mm      Sechskantmutter M16
113	48	 M12 (2x pre-assembled)
<b>KNR</b>	<b>1</b>	 Ø 400 mm / 850 mm lg.

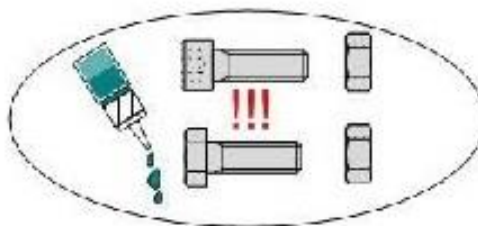
	<b>4 Abbreviations</b>
<b>AB</b>	Setting time min. 7-8 days
<b>D</b>	C25/30 concrete (for foundations) Q.ty required: 3.2 m <sup>2</sup>
<b>D.be.</b>	Fill in around the central mast with concrete. (between drainage tube and central mast)
<b>DT</b>	Detail
<b>EDF</b>	turn the ground anchor in to foundation / don't press
<b>F</b>	Fall protection
<b>FOU</b>	Foundation
<b>G</b>	Drainage layer
<b>HK.entf.!!</b>	Remove wooden wedges after concrete work
<b>KELA</b>	Chains should be shortened during installation if necessary.
<b>LE MO</b>	Mount the ladder
<b>KNR</b>	Drainage tube (e.g. concrete or PVC duct, Ø 400 mm / lg. 850 mm on site)
<b>MEb</b>	Pay careful attention to mark when mounting the post.
<b>MKe</b>	Insert the mast into the drainage tube
<b>MSE</b>	After mounting the steel post and the glue-laminated beams, the ropes must first be hooked in
<b>O.K.</b>	Top edge play level
<b>O.K.F.</b>	Top edge foundation
<b>OAZ</b>	The opening must be show outwards / not in tensile direction
<b>PNU</b>	Lay the net-part packet with the underside around the mast.
<b>PS</b>	Minimum safety area 95.5 m <sup>2</sup>
<b>SSch</b>	After putting on the post-cap, grease the hexagon-screw and tight up.
<b>SE MO</b>	Mount the rope
<b>UEA!</b>	Smooth out any unevenness in the foundation that occurs when screwing in the ground anchor. Otherwise a water accumulation develops
<b>VO</b>	Pre-assembled
	<p><b>Round off foundation edges (min.R = 100 mm)! Sizes of foundations are "4-5" (natural ground).</b></p> <p><b>Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion &lt; 30% with bigger diameter of 63 mm grain size) Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion &gt; 30% with bigger diameter of 63 mm grain size)</b></p> <p><b>In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!</b></p>

Because of the natural characteristics of wood it is normal that shrinking and swelling occur due to heat and moisture. For example a wood post with a  $\varnothing$  of 180mm can vary between 173mm and 183mm. In occurrence it is necessary that bolts and screws be retightened and eventually shortened!

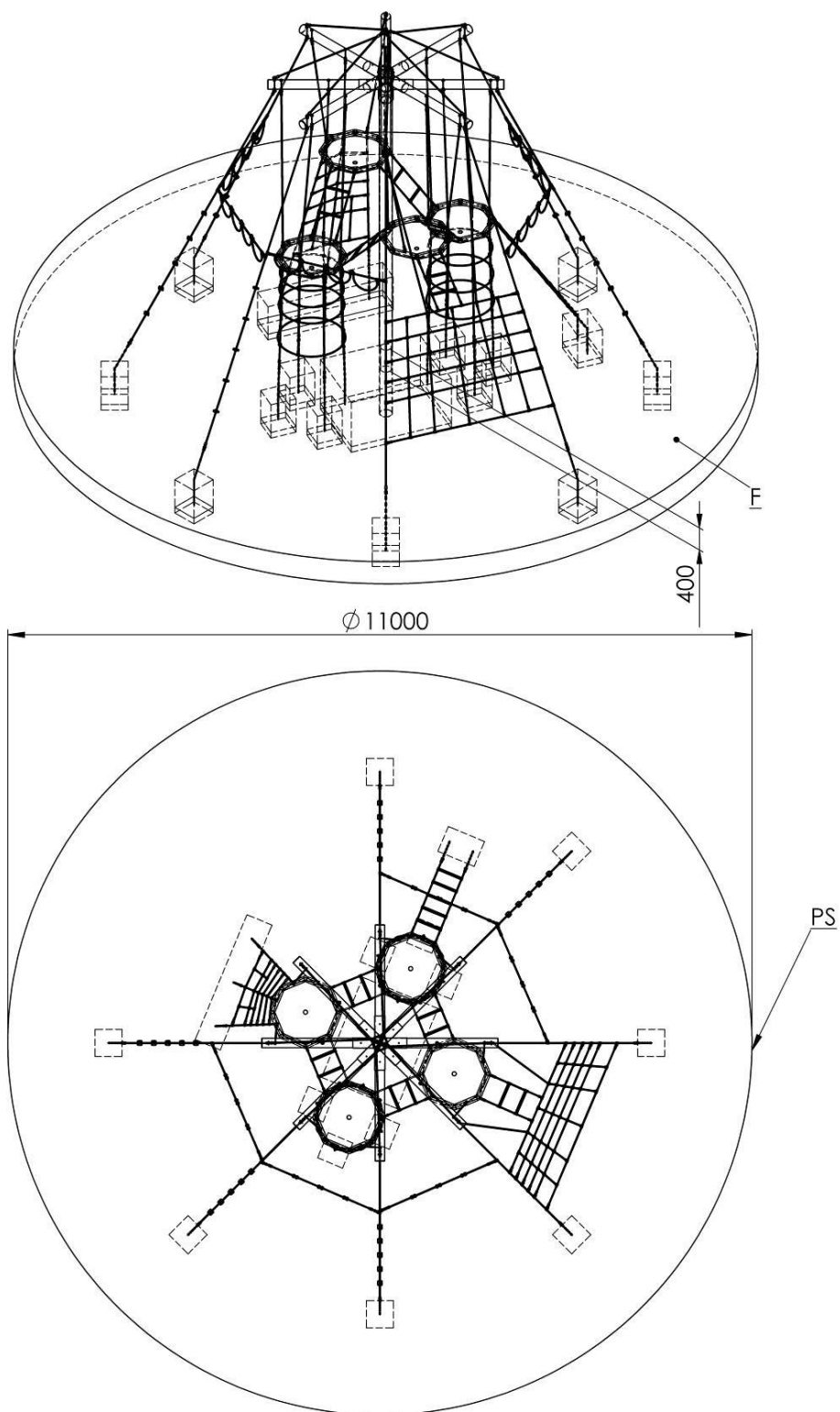


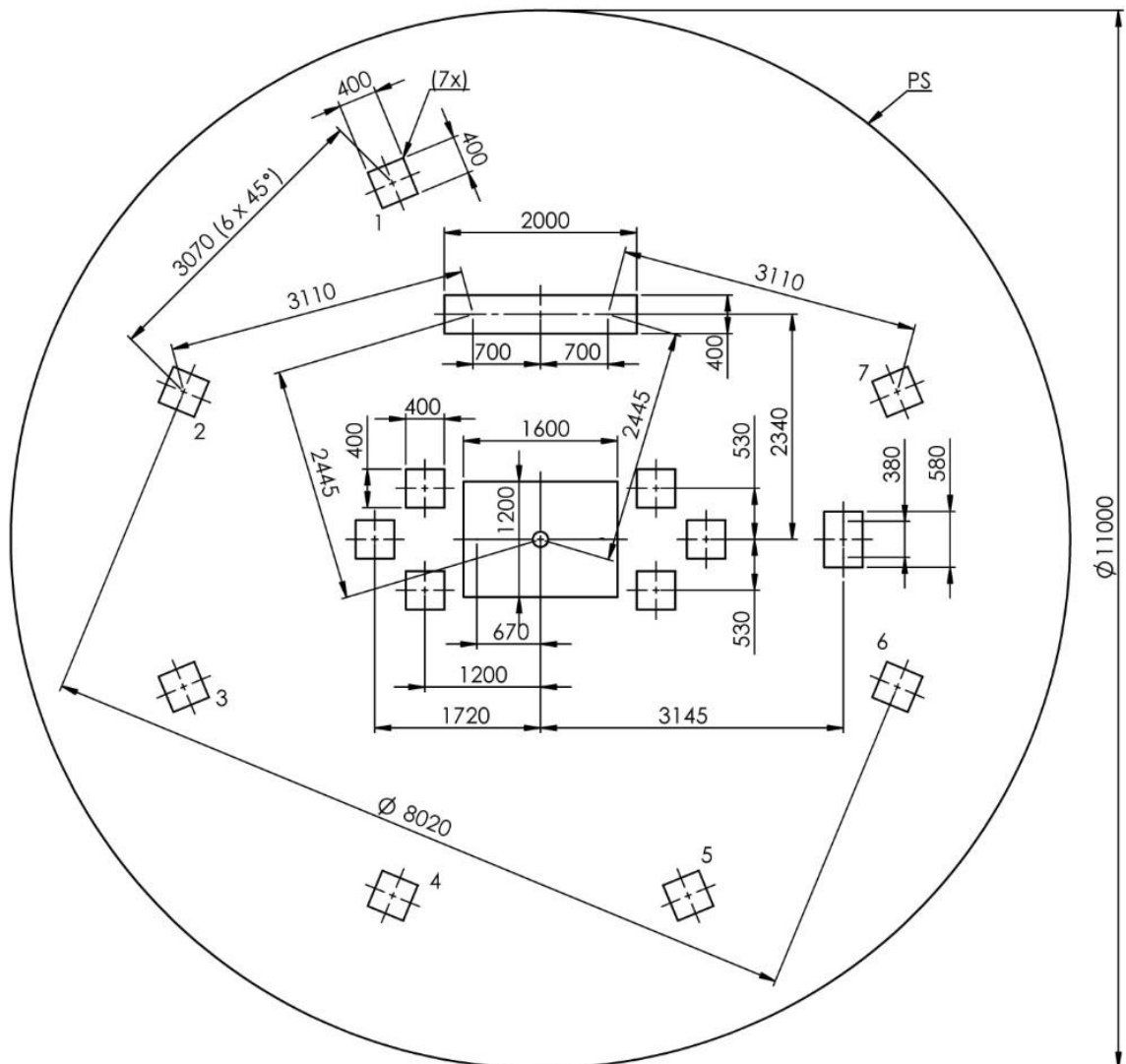
### Securing bolts and nuts !

All bolts, nuts, cylinder nuts, etc. (except for Nyloc nuts) must be secured with at least 5 drops of Loctite!

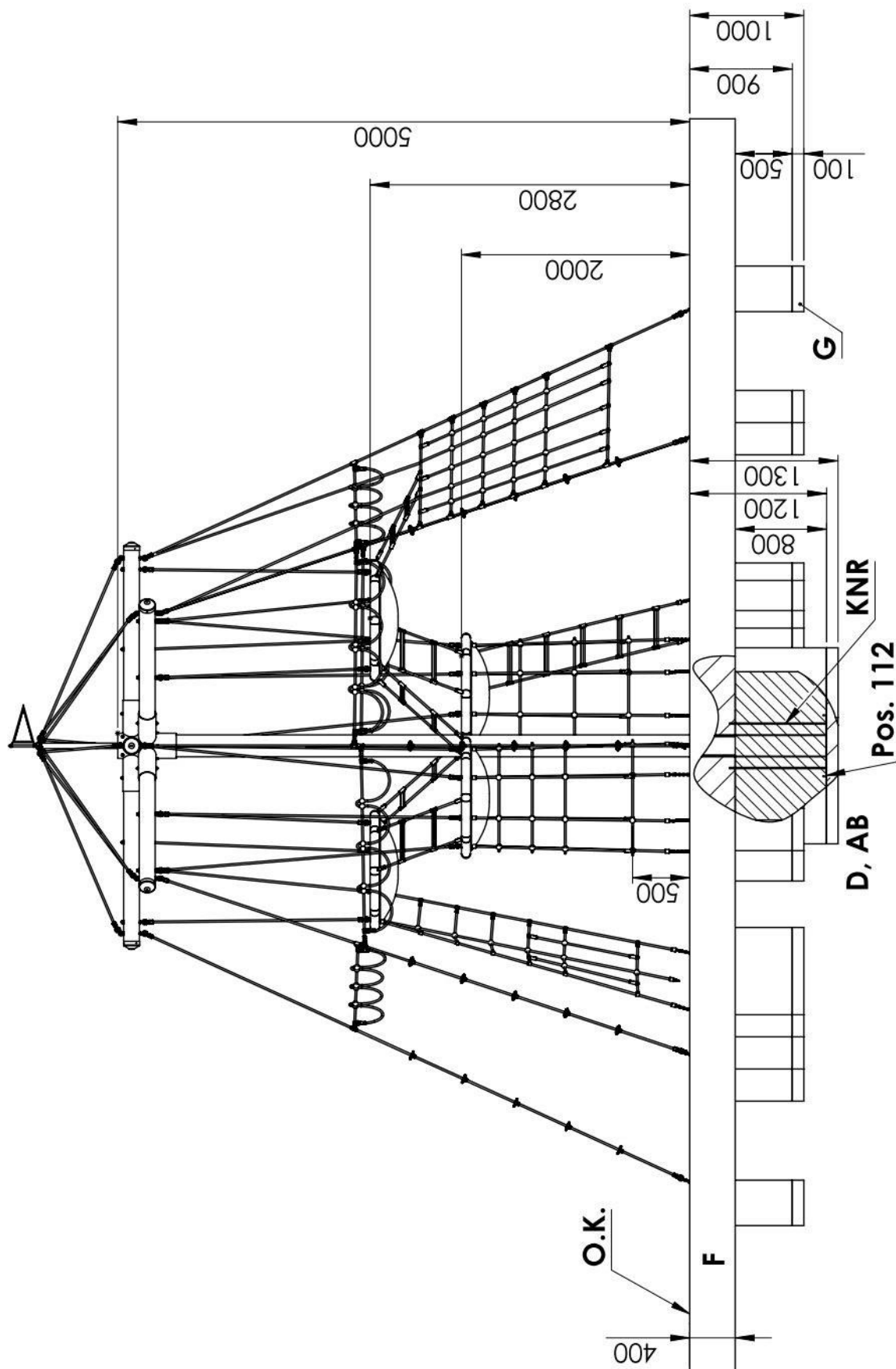


## 5 Assembly instructions

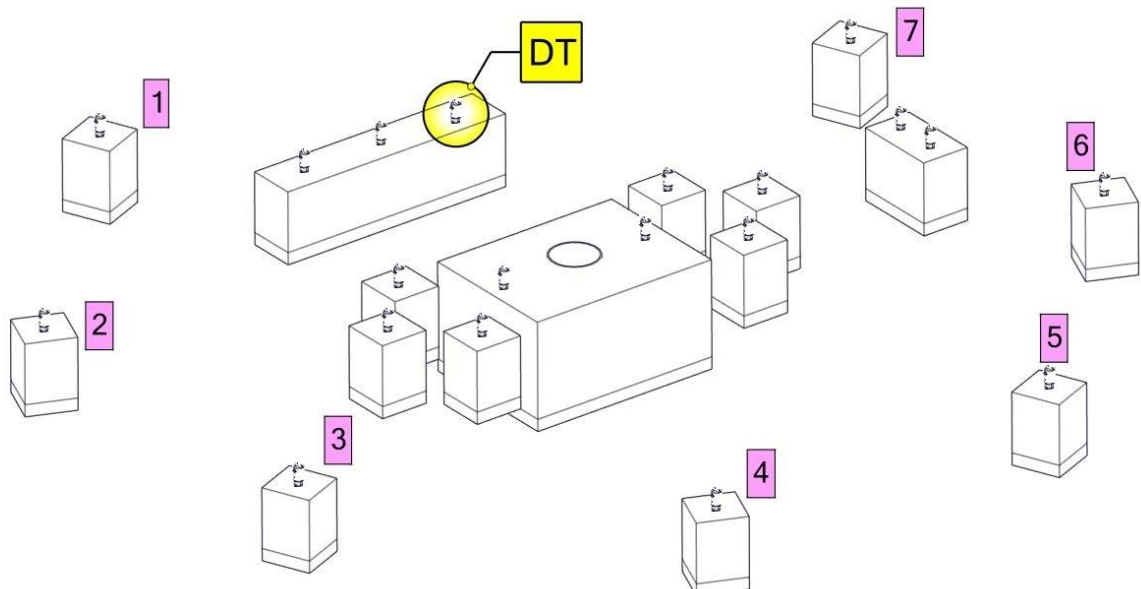
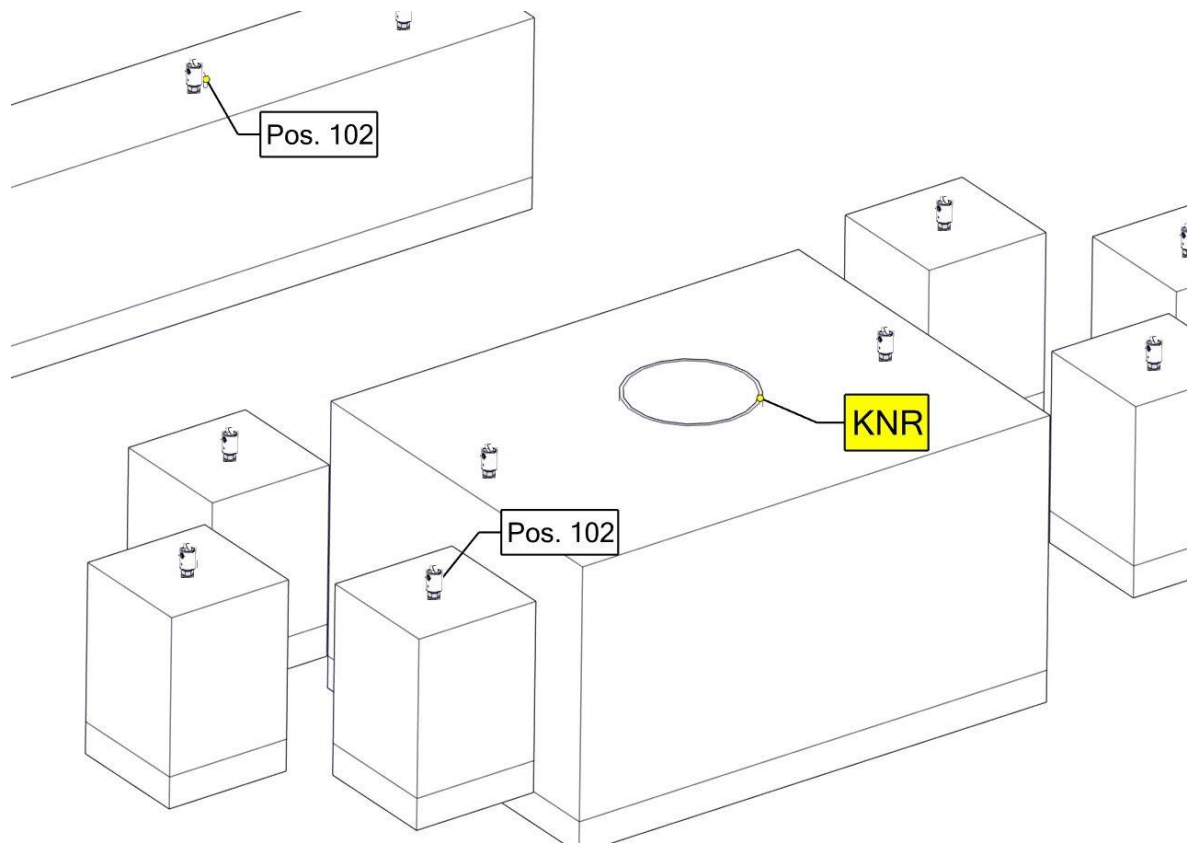


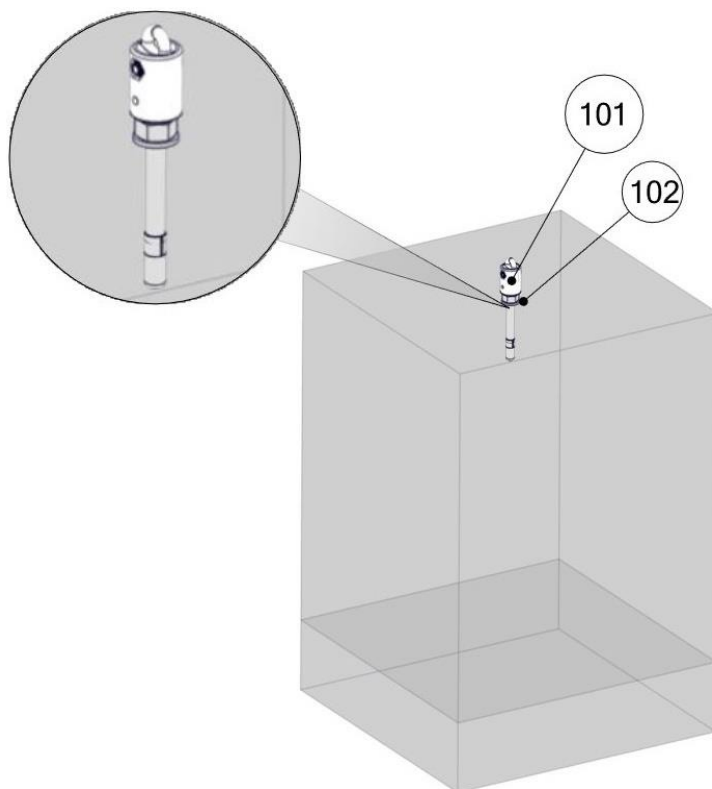
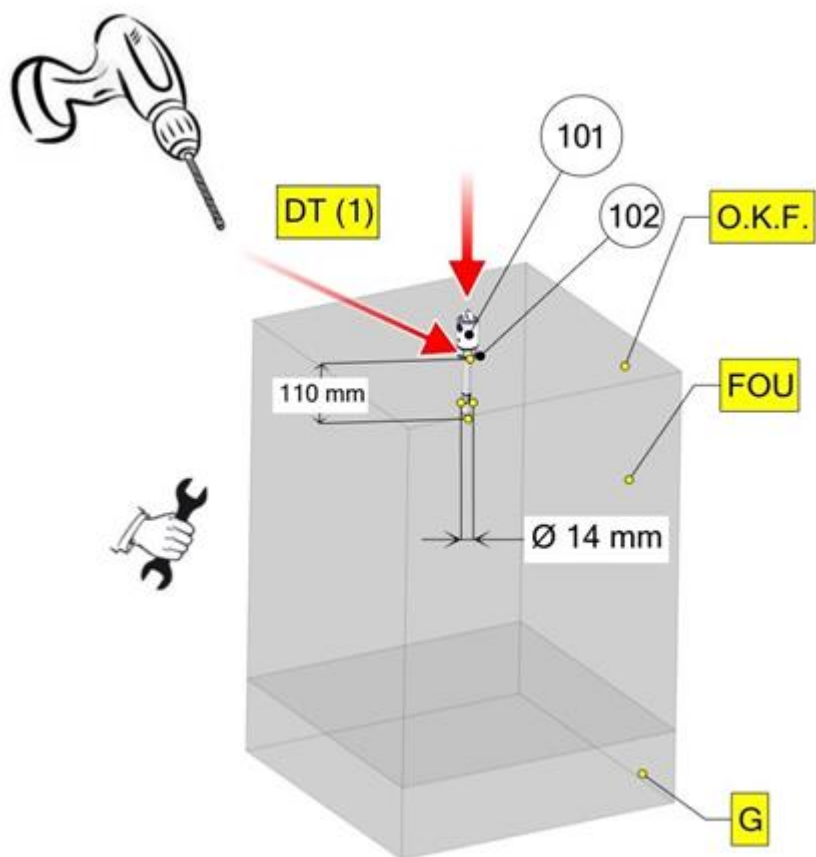


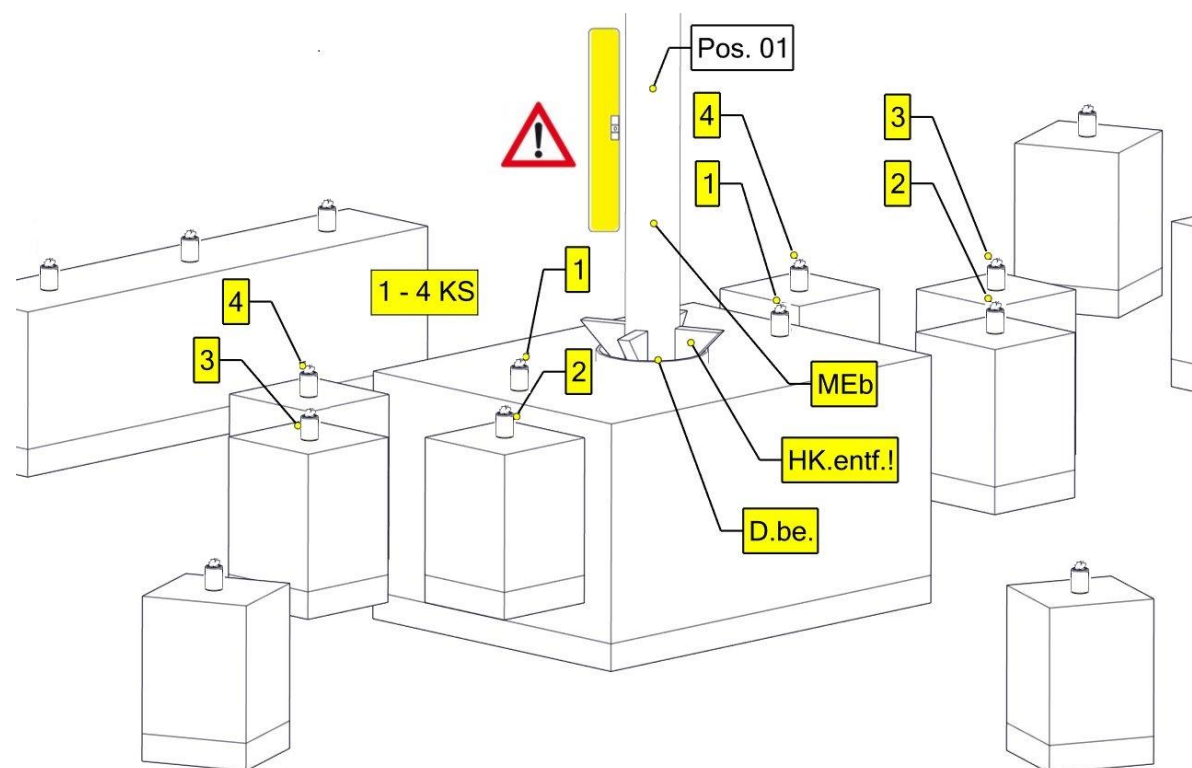
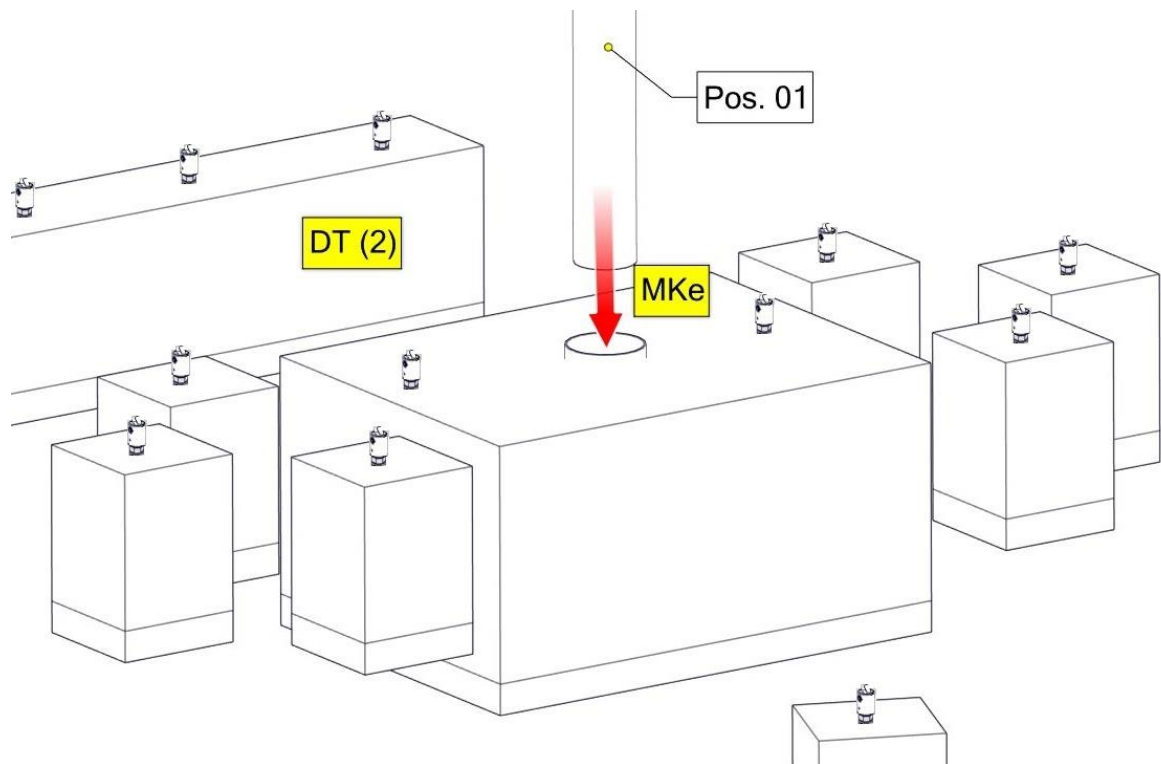


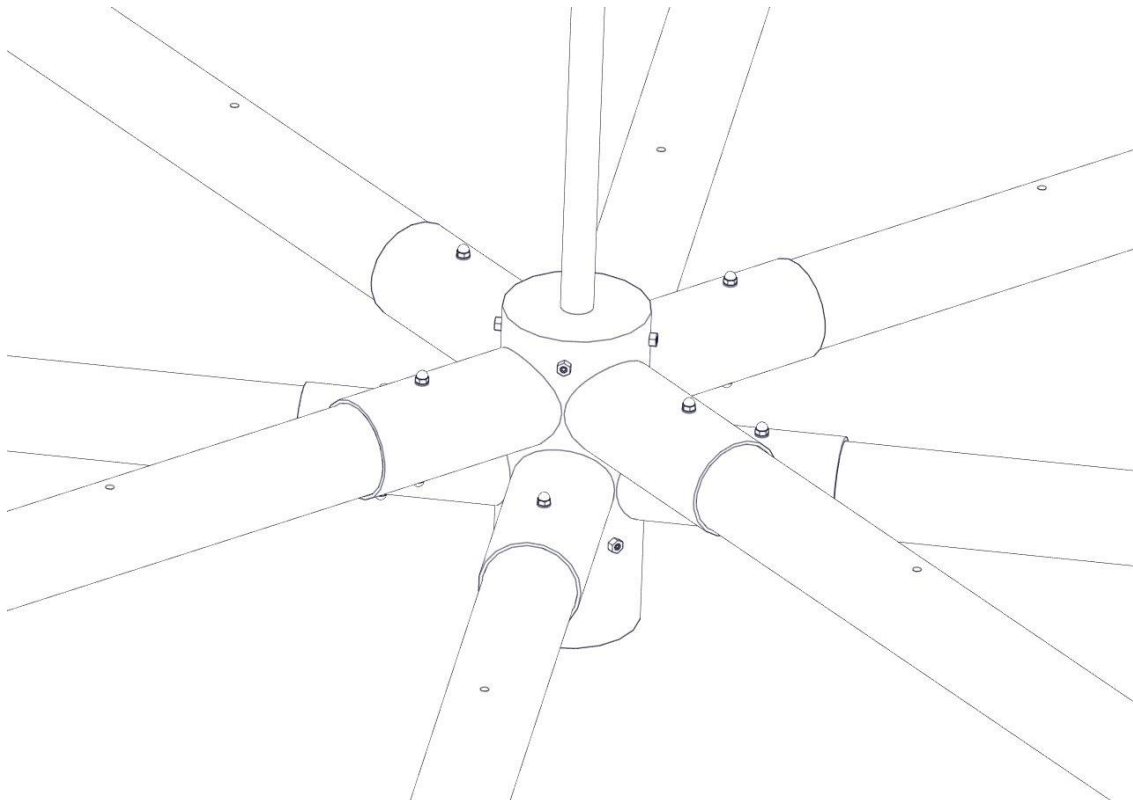
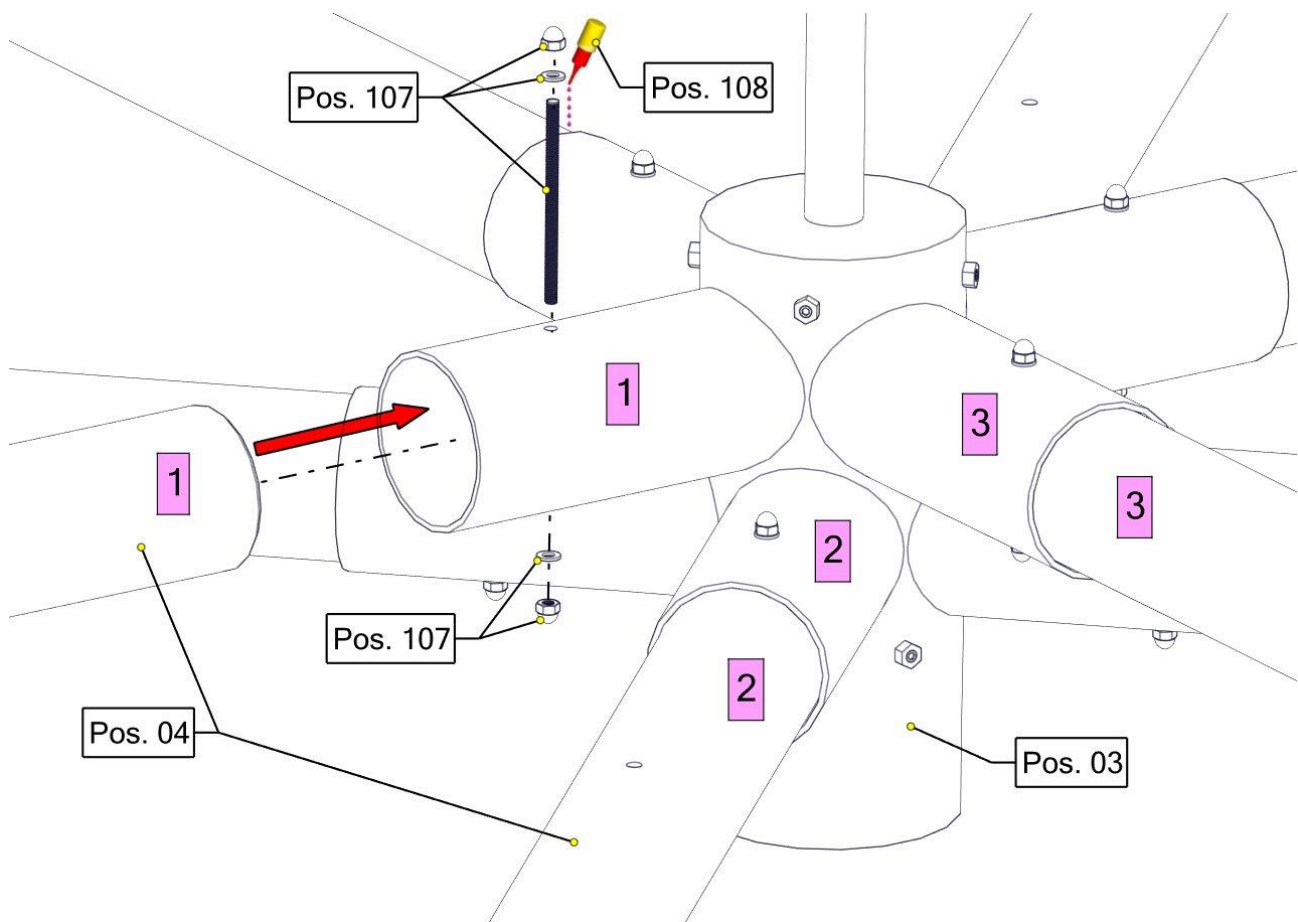


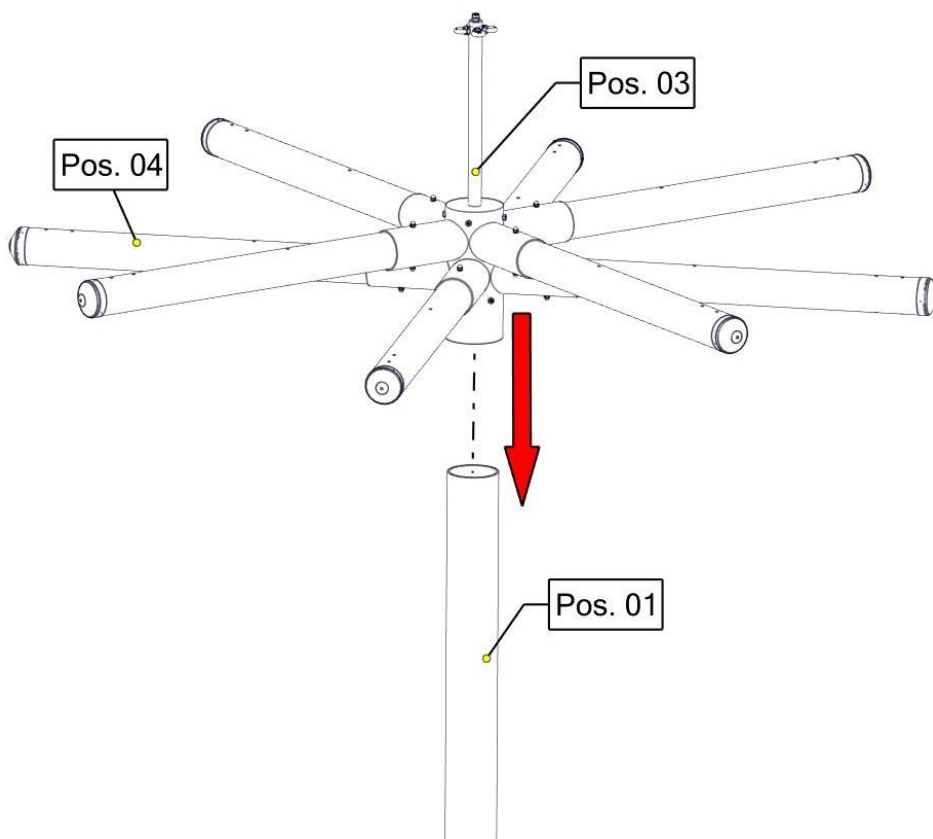
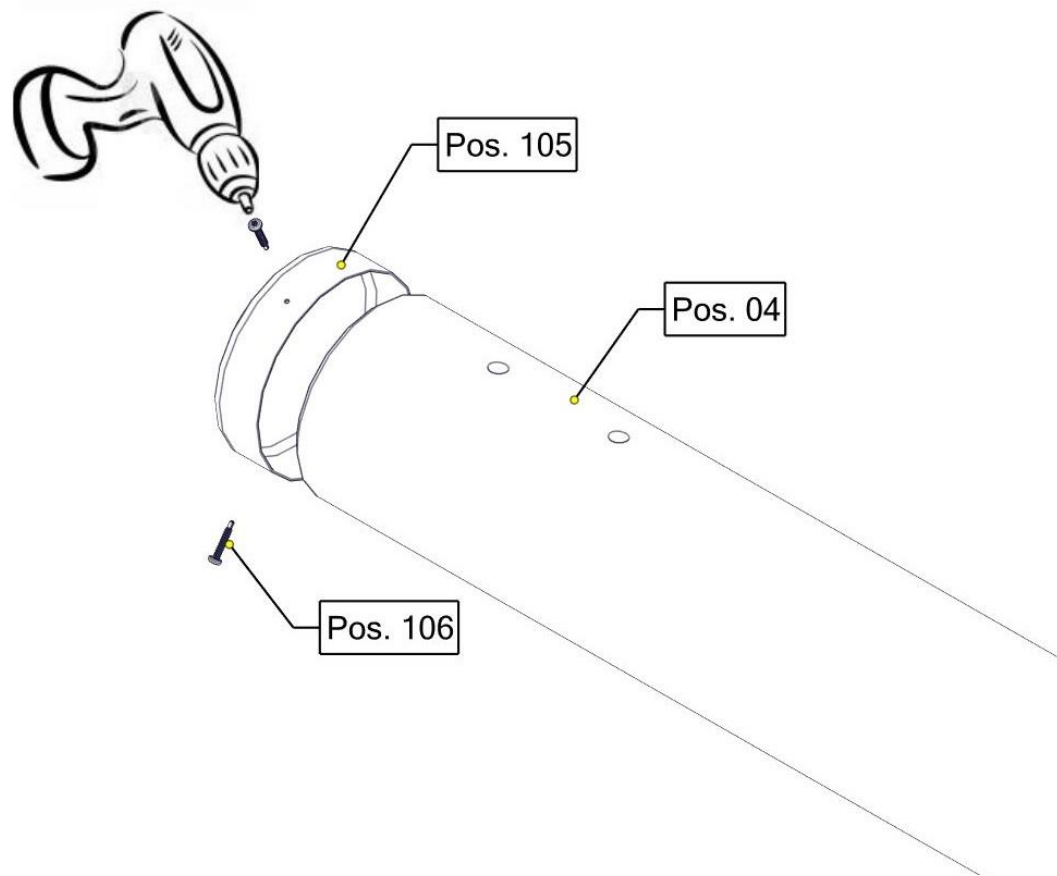


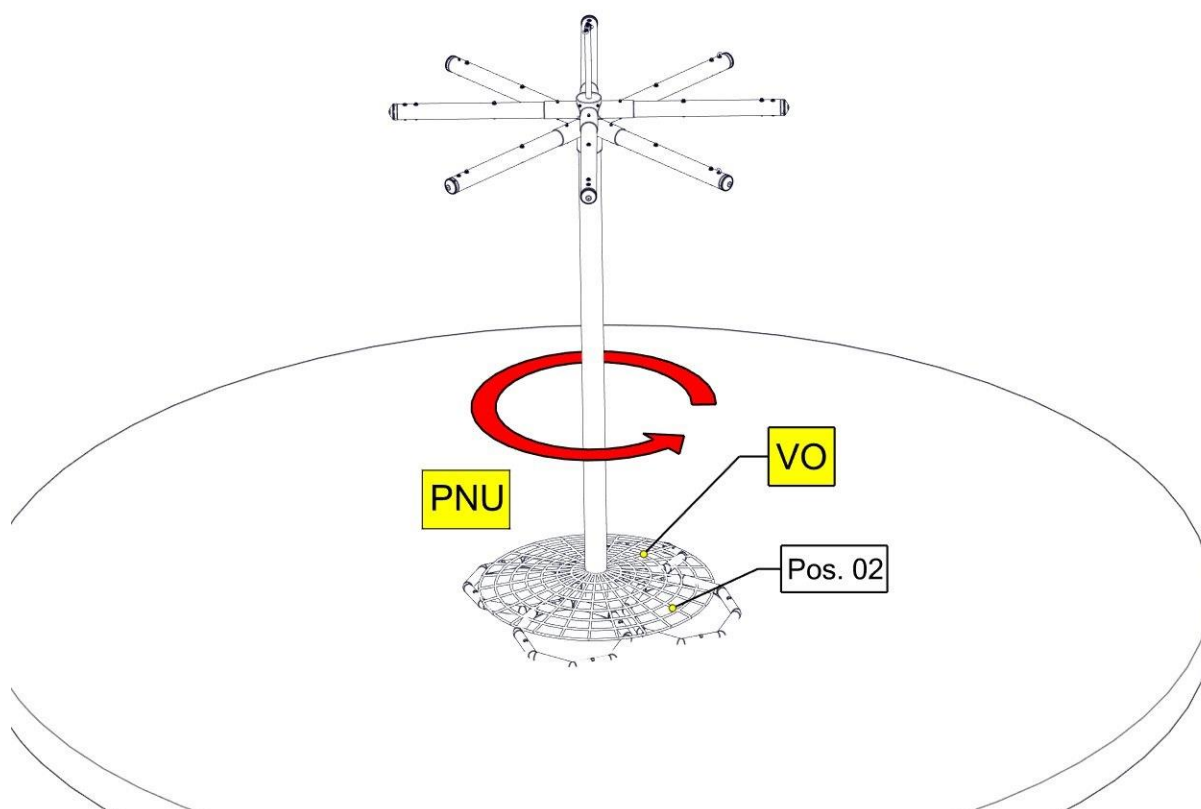
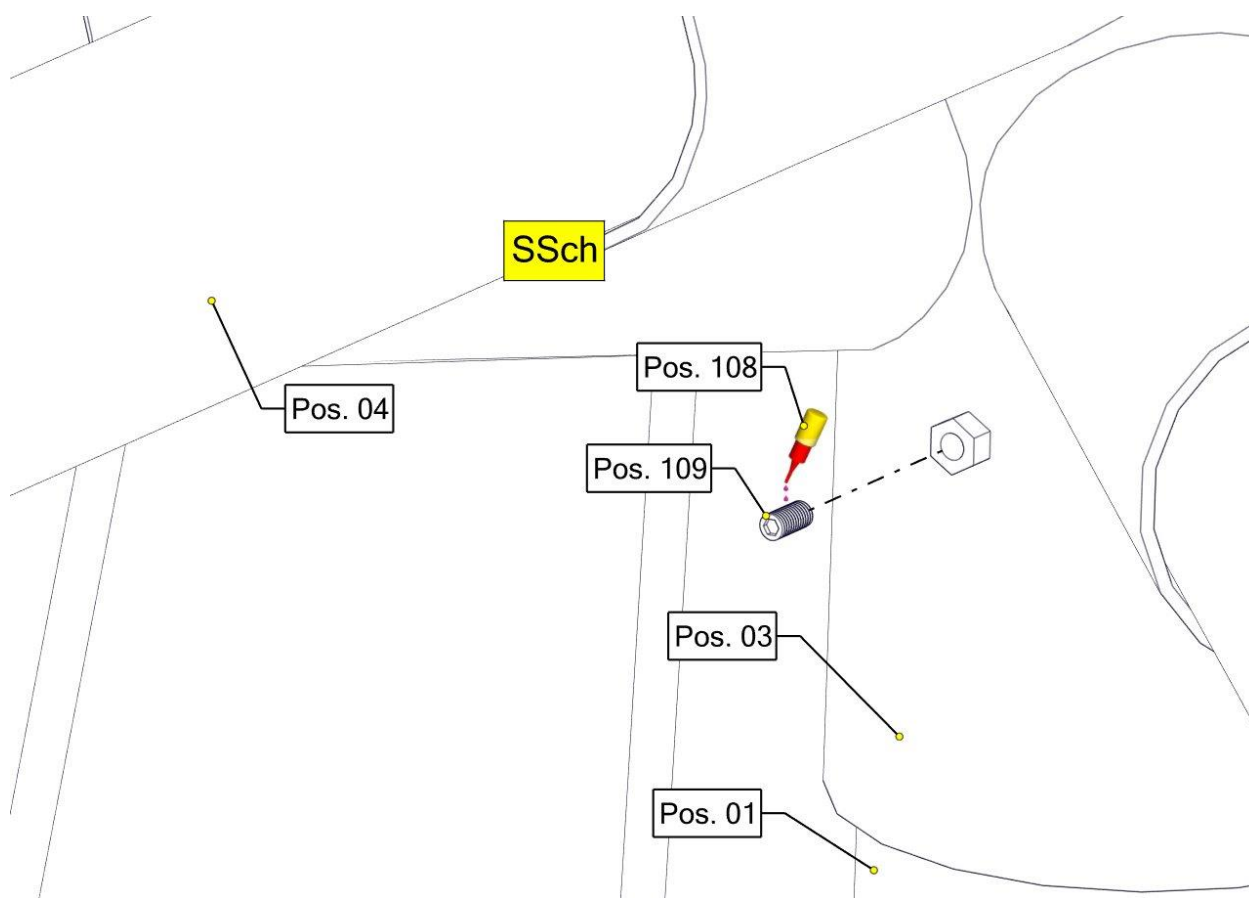


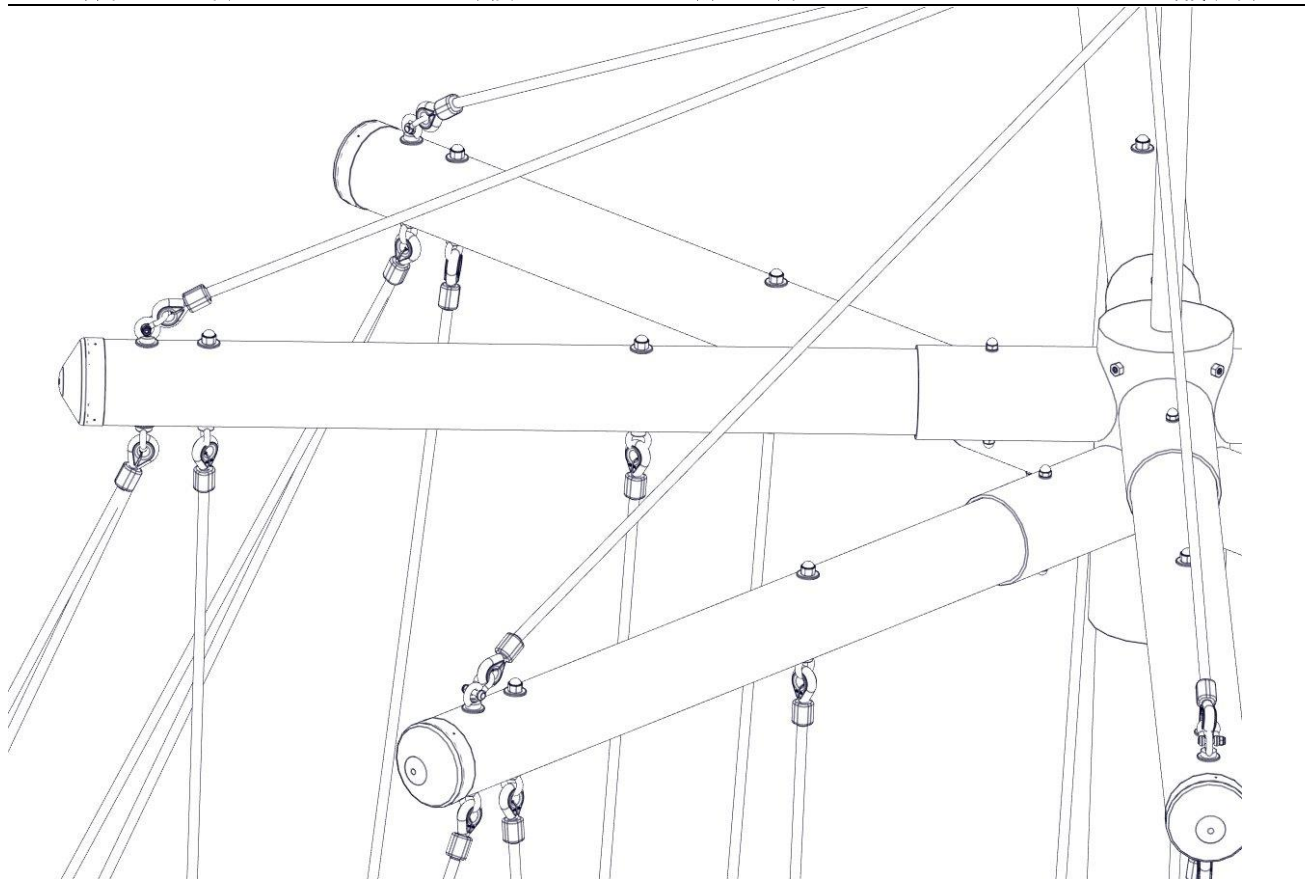
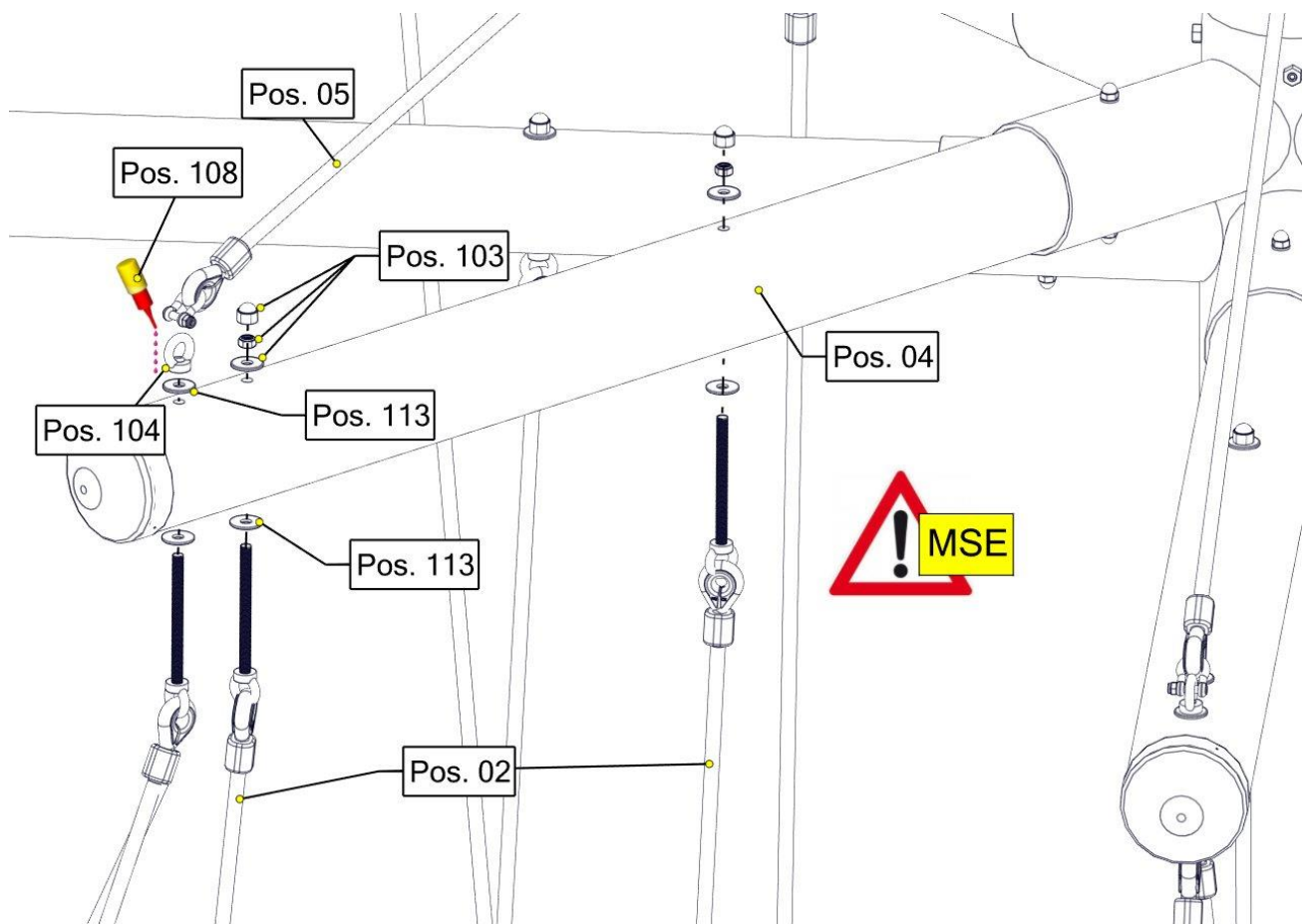




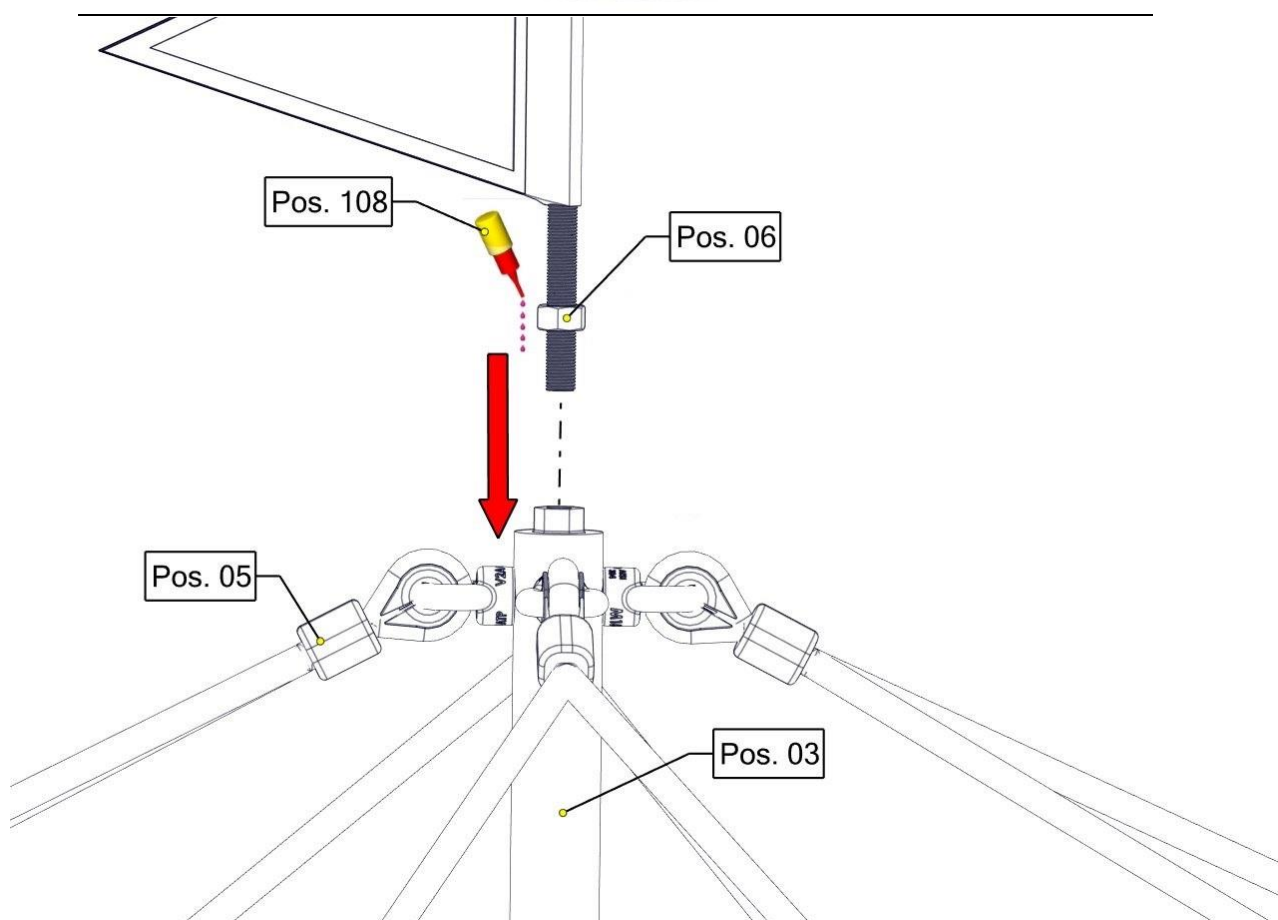
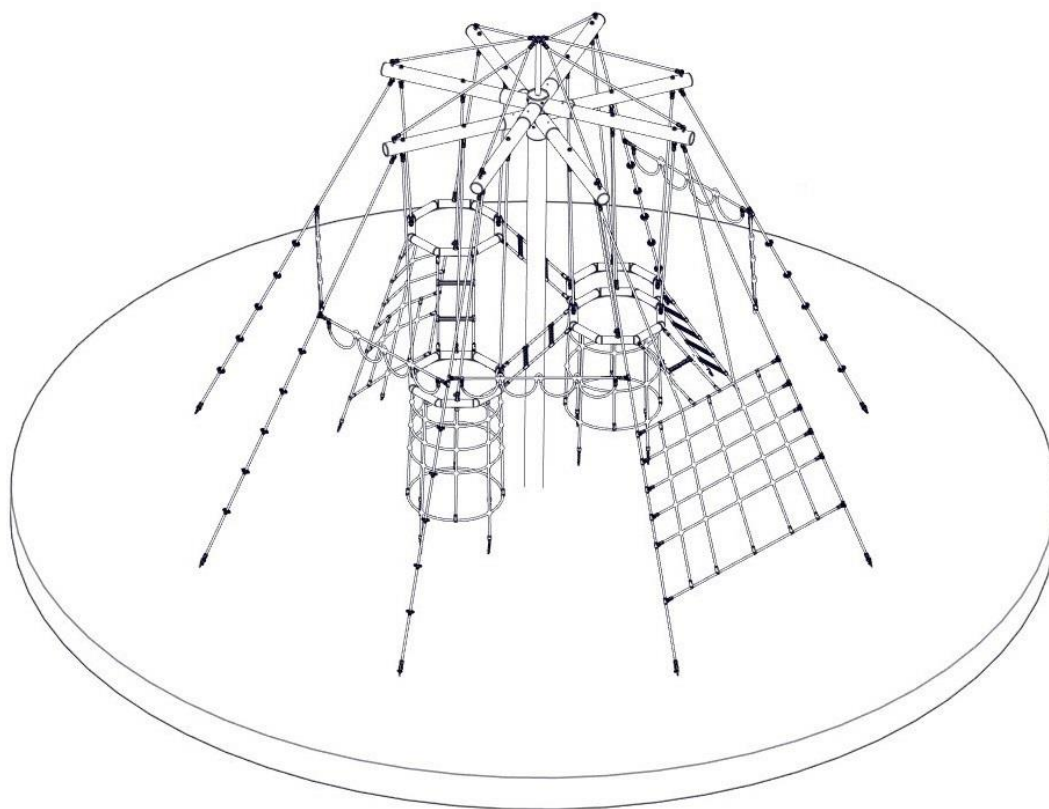




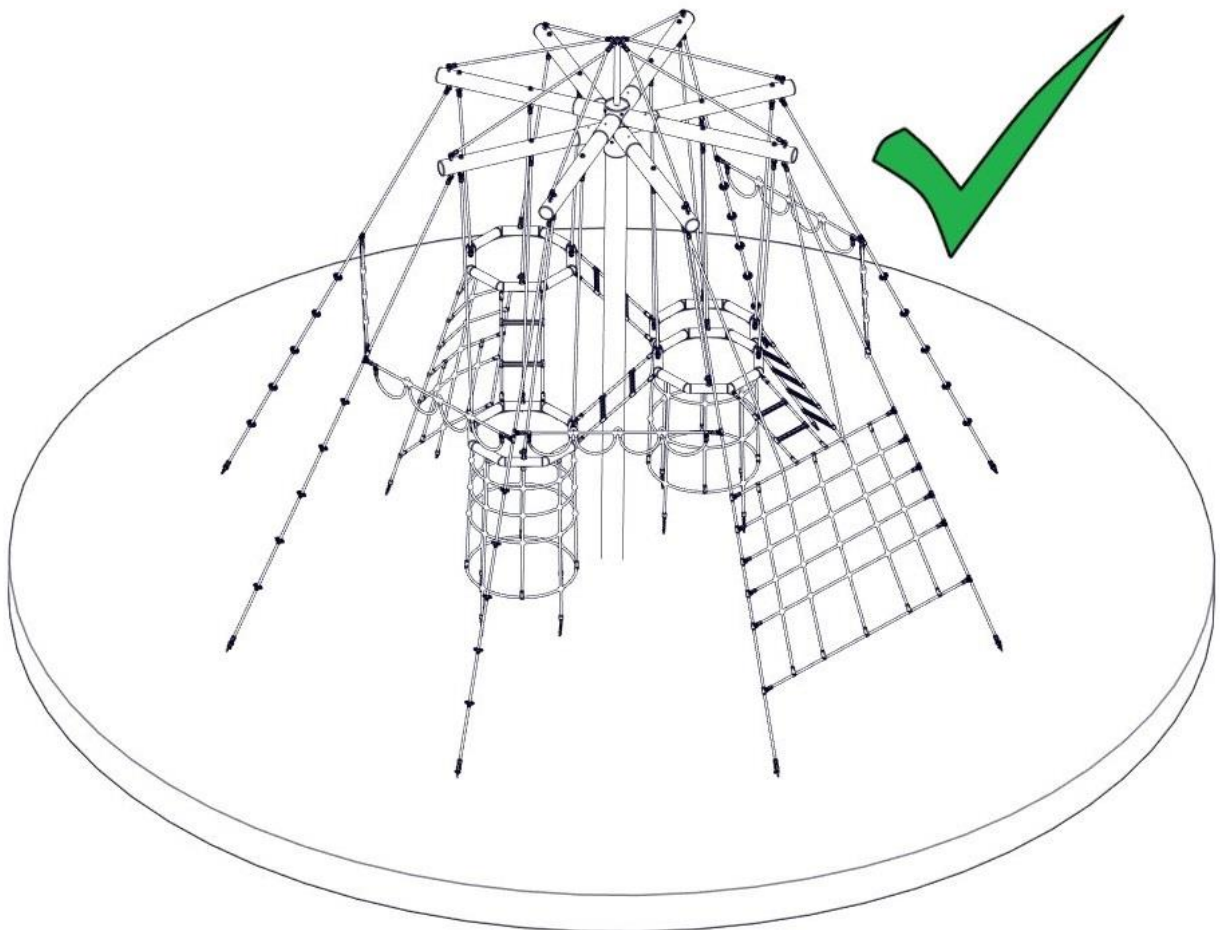














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## 6 Post installation checks

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If the equipment has not been installed safely, you must ensure that the public is prevented from using it.

---

### 6.1 Marking filler depth

- Labelling the posts to show the depth of material provided as fall protection (i.e. loose filler).

### 6.2 The equipment has not been installed safely in the following cases:

- Safe equipment installation is not complete.
- The protective surface has not been installed yet.
- Appropriate maintenance work cannot guarantee operational safety.

### 6.3 Removal of all assembly aids

- Please make sure that all assembly aids have been removed from the playing area. The equipment must not be approved for use until this check has been made.

### 6.4 Information about inspection of the equipment before it is used for the first time

- There are no special inspection requirements to be met before the equipment is used for the first time.

### 6.5 Retighten bolts

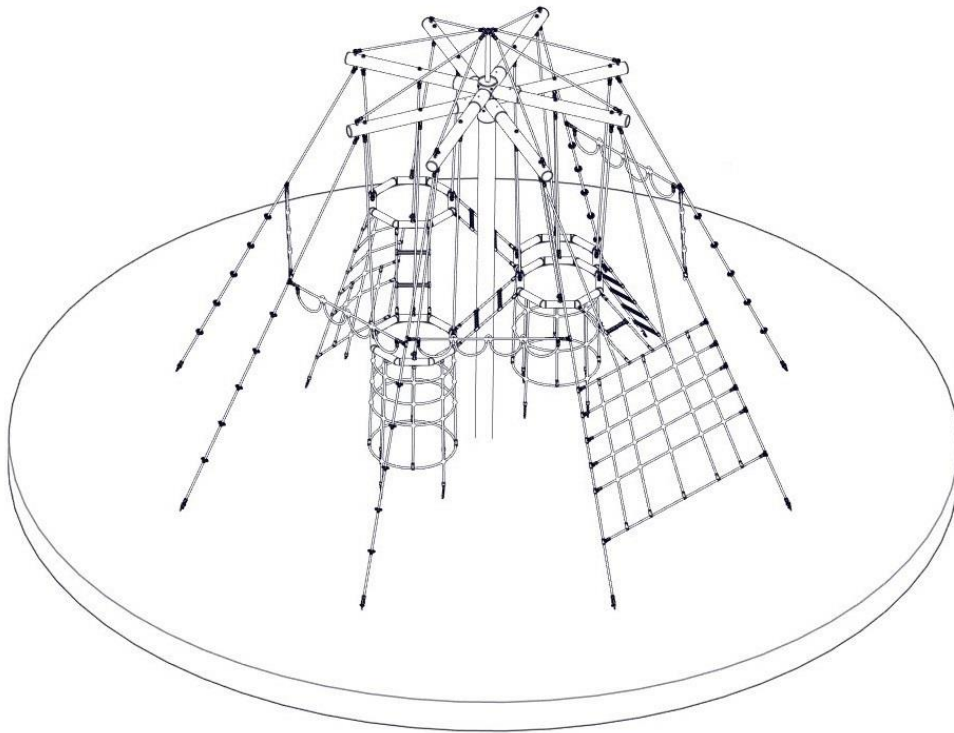
- After one week of play, please retighten all bolts again. Later upon respective maintenance.



## **B Maintenance instructions**

### **Bird's nest tree (EU-GSM)**

#### **Art. 4652**



**Revision history**

Revision 0 – 2006-02-13

The first allowed version

Maintenance instruction

Revision 19 -2019-02-11 Einschraubanker statt Kette FH

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## 7 Introduction Maintenance

### 7.1 General information

This equipment should be installed, inspected, maintained and operated in accordance with EN 1176-7 guidelines.



**Please note:** Providing any necessary repairs are carried out, a piece of play equipment that is inspected regularly cannot become so damaged that it is dangerous.

Any spare parts which may be required can be obtained directly from your supplier.



This equipment should only be assembled, maintained and repaired by **persons with the necessary expertise**.

**A copy of the inspection record should be given to the operator, who must confirm receipt.**

**This maintenance instruction is based on the standard  
“EN 1176-1:2008”.**

---

## **8 General maintenance information**

### **8.1 Maintenance intervals**

Maintenance intervals are based on average use. Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

### **8.2 Inspection frequency**

The frequency of inspections must be based on actual use. Factors that affect frequency include vandalism, location (e.g. coastal proximity), air pollution and the age of the equipment.

### **8.3 Maintenance products and procedures**

All nuts and bolts are hot-dip galvanised or stainless steel. One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

### **8.4 Spare parts**

All spare parts must conform to the manufacturer's specifications.

### **8.5 Identifying spare parts**

All spare parts are listed in the parts list. The parts list follows the installation requirements.

### **8.6 Special instructions for the disposal of individual equipment components**

No special instructions are necessary for the disposal of individual equipment components.

### **8.7 Special measures during the break-in period**

No later than 2 weeks after assembly, all screwed connections should be checked and tightened if necessary.

### **8.8 Drainage holes**

All drainage holes should be kept clear.

### **8.9 Maintenance of protective surfaces**

Surfaces providing fall protection must also be maintained regularly. It is particularly important to maintain the correct level of loose surface material and add more if necessary.



---

## 8.10 Faults

---



Faults must be repaired as soon as they are detected. If serious defects that compromise safety cannot be repaired straight away, the public must be prevented from using the equipment with immediate effect.

---

## 8.11 Loose screws

---



Loose screws always cause quality problems and put safety at risk. Therefore, loose screws should always be tightened and checks carried out to ensure that there are no missing screws (e.g. look out for holes you can see through).

---

## 8.12 Preventing equipment use

Use of the equipment should be prevented in the event of incomplete installation, disassembly, maintenance, repairs and faults.

## 8.13 Claims/liability for faults

Steel posts and footings are guaranteed if regular maintenance is carried out and recorded in writing. Our general terms and conditions apply. Maintenance first takes place after 3 years. The steel posts must be excavated as far as the concrete foundations and checked for corrosion.

Zinc paint should be applied to any corroded areas and scratches.

Check ropes for abrasion. Retreat any that are very worn.

---

## 9 Maintenance timetable

### 9.1 Special advices

#### 9.1.1 Maintenance interval

We strongly advise you to carry out inspections and maintenance work within the specified periods as use of the equipment, the weather and malicious vandalism cause wear and tear that compromises the safety and function of the equipment.

#### 9.1.2 Maintenance intervals in the event of intensive use

Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

#### 9.1.3 Faults that compromise safety



In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

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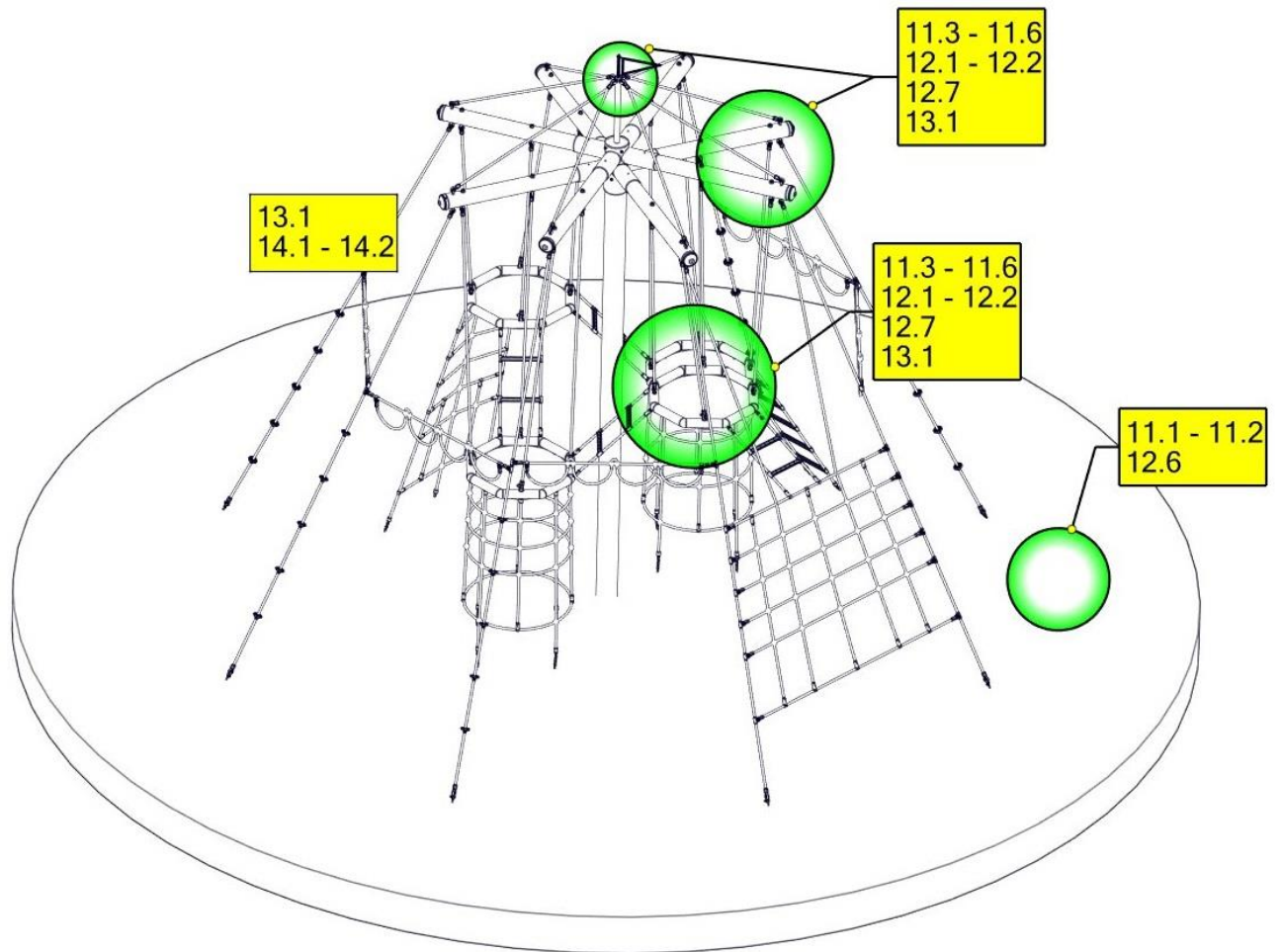
#### 9.1.4 Faults that compromise function



Faults that compromise function should also be repaired immediately. Such faults lower the value of the equipment to the user and encourage malicious vandalism, which may render the equipment less safe. Any damage should also be repaired immediately.

---

## 10 Regular maintenance



## 10.1 Regular maintenance (Text)

m = monthly j = 1/4 quarterly j = 1/2 half-yearly

	m	¼ j	½ j
1. Check ground in fall and protection area for hard objects and loose foundations.	X		
2. Check stability (supporting posts, springs, supports, foundations etc.).			X
3. Check all connecting elements and fittings for wear and tear and where necessary retighten. Replace damaged components.	X		
4. Check that moveable metal components (joints, springs etc) move smoothly and are not worn and where necessary replace. It is not necessary to lubricate joints as we only use maintenance-free metal roller bearings.	X		
5. Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary	X		
6. Check rubber parts, sleeves, rings etc. for wear and tear or damage and replace if necessary.	X		
7. Check the surface of wooden parts for damage caused by the weather or external influences and repair (Paint with glaze) or replace if necessary.	X		
8. Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.	X		

It is recommended to carry out the **inspection and maintenance work** out in the specified time-frames, since wear and tear can occur through play, weathering influences or intentional damage, which compromises safety and function levels.

**Defects, which compromise safety, must be treated promptly, either by immediately repairing or dismantling or closing down the equipment!**

Defects, which compromise function, reduce the play value of the equipment and encourage vandalism, which may compromise safety levels. Damage should also be immediately repaired in this case.

**Maintenance and servicing is to be carried only out by professionals.**

**General:** Play equipment which is regularly checked may not be damaged in such a way that it becomes dangerous. However it is essential that where necessary repairs are followed up after regular checks.

---

## 11 Monthly maintenance

- Check the spaces between the equipment and the ground (clearance and height of fall).
- Check the ground surface in the area with fall protection for hard objects and loose foundations.
- Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- Check that moving metal parts (joints, springs, etc.) move smoothly and are not worn. Replace if necessary. It is not necessary to lubricate joints as we only use maintenance-free metal roller bearings.
- Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- If necessary, remove excess padding material from the post footings due to danger of rotting.
- Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

## 12 Quarterly maintenance

- Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- Tighten all forms of attachment.
- Repaint and retreat surfaces.
- Maintenance of fall protection surfaces.
- Lubrication of joints.
- Check the height of the fall and top up with loose filler if necessary. If the posts are labelled, top up as far as the mark.
- Retighten all bolts

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### 13 Half yearly maintenance

- Stability (check posts, bracing, foundations, etc.). Ascertaining whether there are any changes in equipment safety as a result of repairs that have been carried out or components that have been added or replaced.
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## Annual Maintenance

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### 14 Annual maintenance

- Ascertaining that the equipment, foundations and surfaces are safe for operation.
- In particular, the equipment should be checked for decay and corrosion. It may be necessary to dig out or excavate certain components in order to do so. Zinc paint should be applied to corroded areas and scratches.



The equipment must be inspected by someone **with the necessary expertise** in strict compliance with the instructions issued by Huck Seiltechnik GmbH.

**A copy of the inspection record should be given to the operator, who must confirm receipt.**

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## 15 Maintenance printout

Name of item: Bird's nest tree / Art. No. 4652 \_\_\_\_\_

Location: \_\_\_\_\_

Customer or operator: \_\_\_\_\_  
(Town, Town council, Kindergarten)

Date of inspection	Inspector	O.K.	Accessible	Barriered	Defects	Repaired by	Date

Please copy and return once a year after main inspection has been carried out to the manufacturer by Telefax +49(0)6443/ 83 11 79!  
Place the confirmation form in the play equipment files.





## 16 Hand over document



After the installation of the equipment pass the installation and maintenance documents to the operator. The operator has to receive the hand over documents. The complete filled and signed hand over document should be sent to the supplier.

Art.-No.: 4652

Type of item: Bird's nest tree

Serial number:

**Customer or operator (Town, Town council, Kindergarten, etc.):**

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Competent person in charge:

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**Installation company (address):**

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Responsible assistant (assembler):

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Received the complete assembly instructions, maintenance instructions and maintenance printout.

(Signature of operator)  
(Stamp)

(Signature of installation company)

Date: \_\_\_\_\_