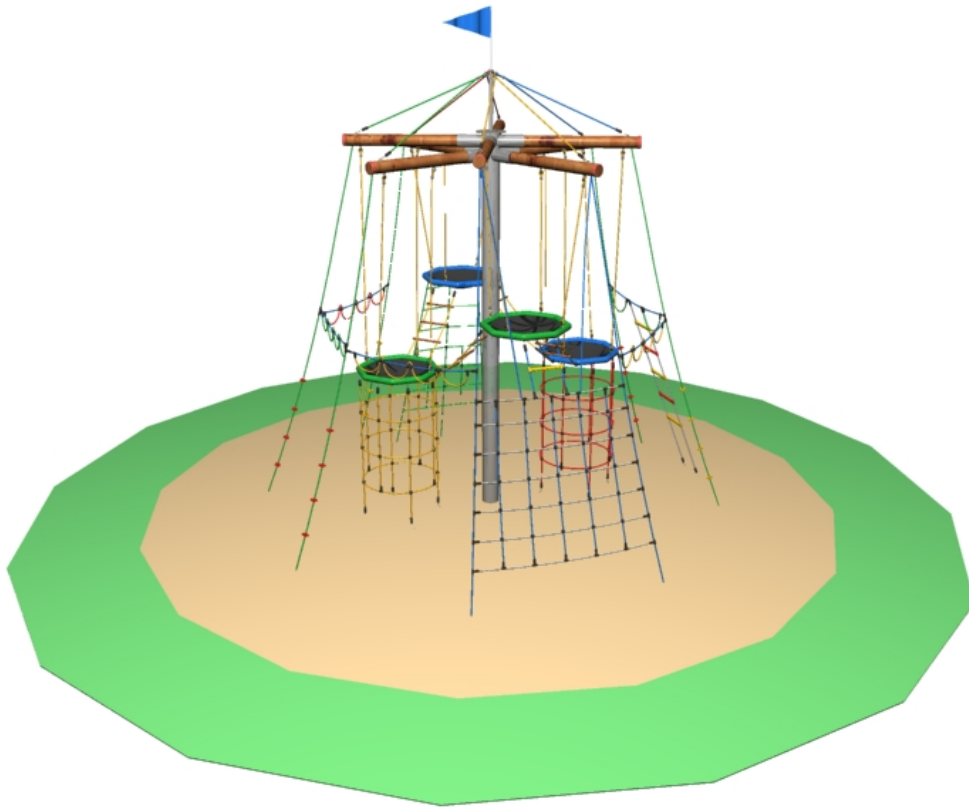


---

**A Assembly instructions  
Bird's nest tree (EU-GSM)  
Art. 4652**



---

**Revision history**

Revision 0 – 2006-02-13

The first allowed version

Assembly instruction

Revision 0 – 2007-08-07

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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).**

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

Please do not hesitate to call us on **01308 425100** if you have any problems during installation or with 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.**

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

1. Space requirement:  $\varnothing$  8.00 m and/or  $\varnothing$  11.00 m including safety zone, height of fall 3.00 m
2. Required safety surface:

Surface material	Description	Minimum thickness of layer mm	Maximum height of fall mm
Topsoil grass	mm		$\leq 1000^*$
Chipped bark	20 – 80 grain size	300	$\leq 3000$
Wood chippings	5 – 30 grain size	300	$\leq 3000$
Sand	0.2 – 2 grain size	300	$\leq 3000$
Gravel	2 – 8 grain size	300	$\leq 3000$
Other ground materials	As recommended by manufacturer	300	

3. Name and overall dimension of the largest component:  
Steel post (1 item) length 6.20 m,  $\varnothing$  193.7 mm
4. Name and weight of the heaviest component:  
1 pallet steel post (1 piece) approx. # kg
5. Intended age group: 6 years and over
6. **Please note that this equipment is set in concrete.**  
Concrete: C20/25 (B25)  
Required concrete: 3.10 m<sup>3</sup>  
Foundations/area to be excavated:  
**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  
 Top edge of concrete 40 cm below ground level (see page 10 and 11)



**Round off edges of concrete foundations!**  
**Important – All sizes of foundations are valid for soil class 3 – 4 (standard soil). In case of sandy and soft soil we strictly recommend to enlarge the foundation dimensions.**

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)



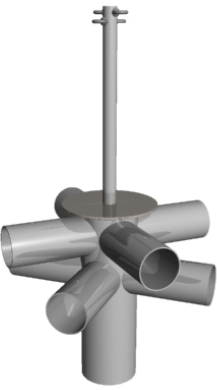


#### 3.1 In words




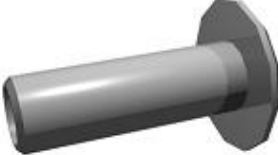



Table 3-1: Delivery contents, in words

Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Steel mast	Ø 193.7 mm, L. 6.20 m		
2	1	Play part (nets and bird's nests)			
3	1	Mast cap			
4	8	Glulam pole	Ø 140 mm, L. 1.65 m		
5	4	Top rope ( for glulam pole)			
6	1	Flag / blue (incl. threaded rod and 2 x M16 nuts			
101	19	Type-8 shackles, cambered VA	Pre-assembled		
102	20	Type-7 chain for foundations	L. 1.30 m		
103	17	Pre-assembled M12 Torx socket			
104	8	M12 ring nut			
105	8	Red cap	for Ø 140 mm		
106	24	Fillister-head screw	3.5 x 25		
107	8	Wood screw	10 x 100		
108	2	Loctite			



### 3.2 In symbols

Table 3-2: Delivery contents, in symbols

Pos.	Quantity	Symbol
1	1	
2	1	
3	1	
4	8	
5	4	

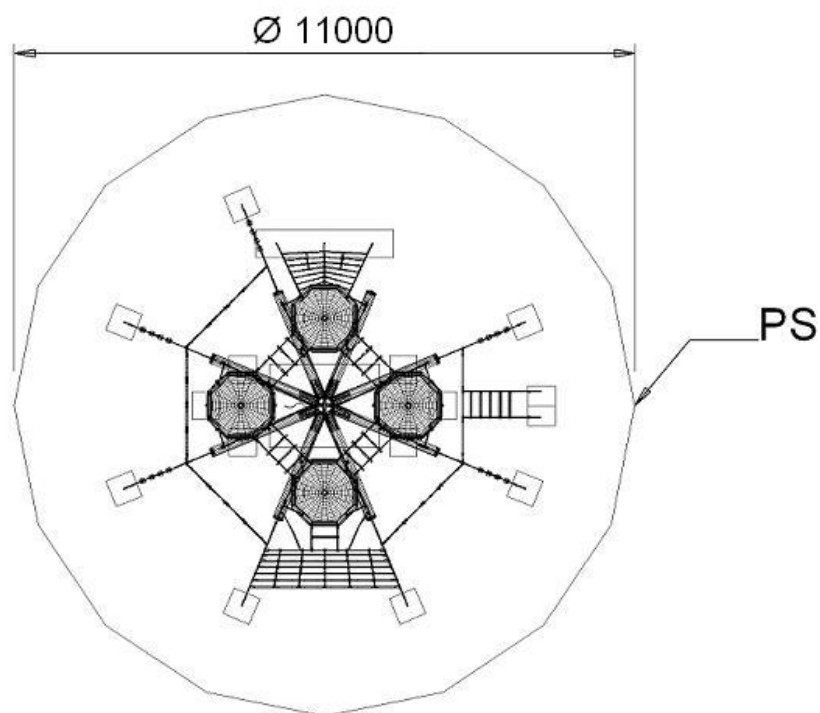
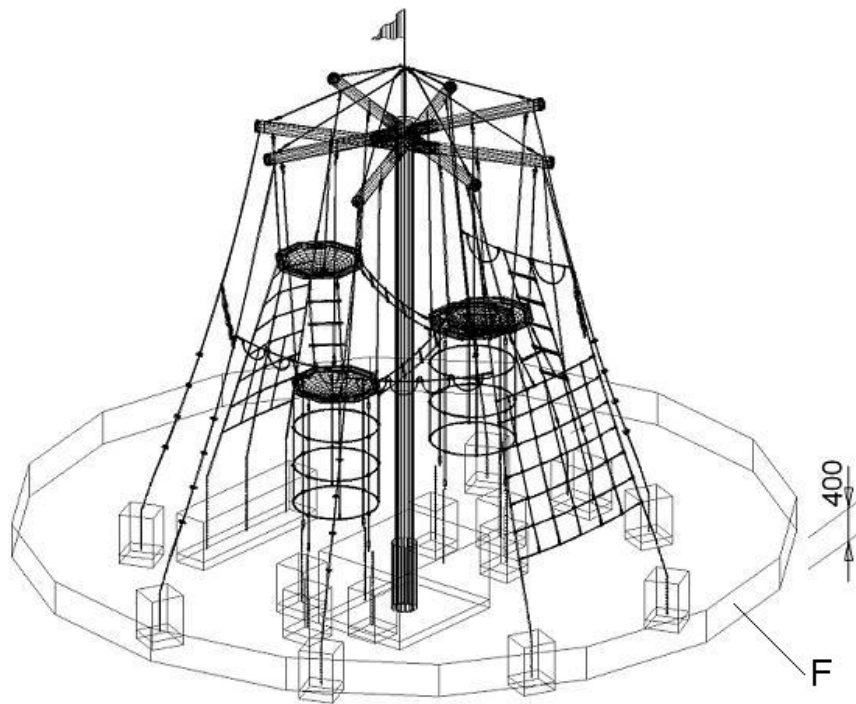
Pos.	Quantity	Symbol
6	1	
101	19	
102	20	
103	1	
104	8	
105	8	
106	24	
		

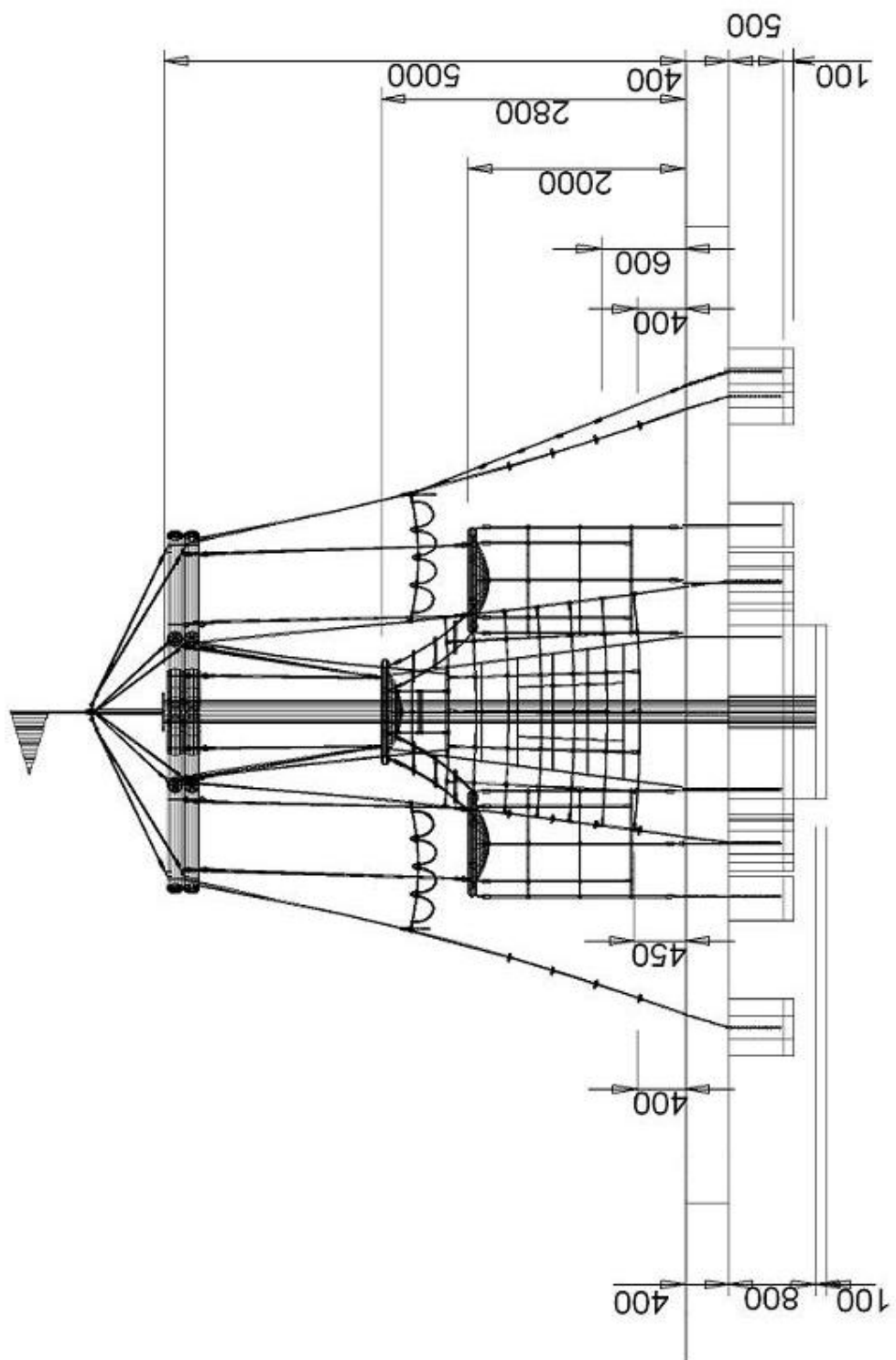
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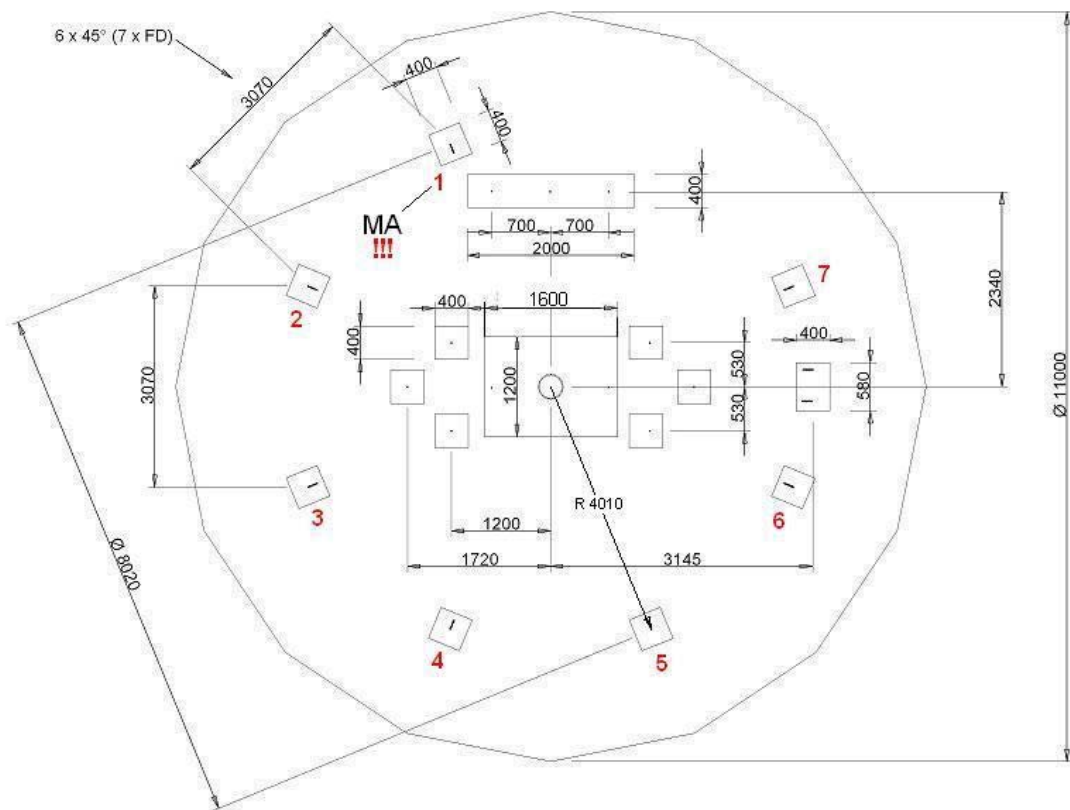
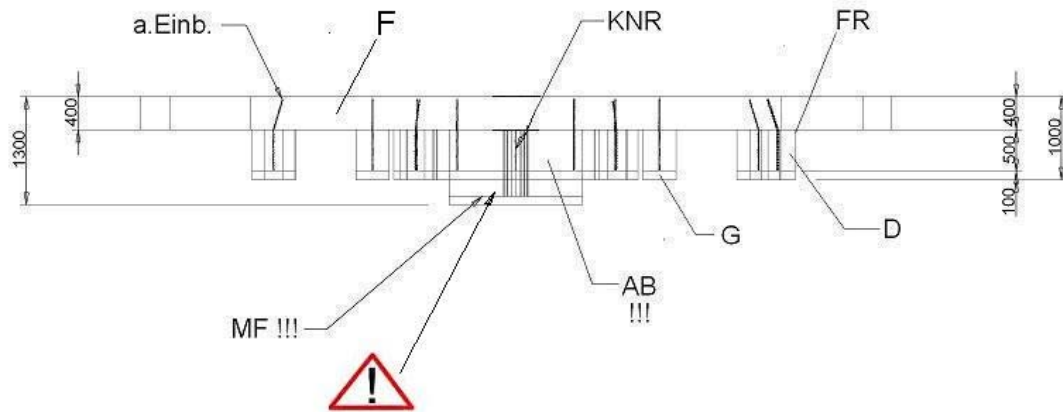
Pos.	Quantity	Symbol
107	8	
108	2	

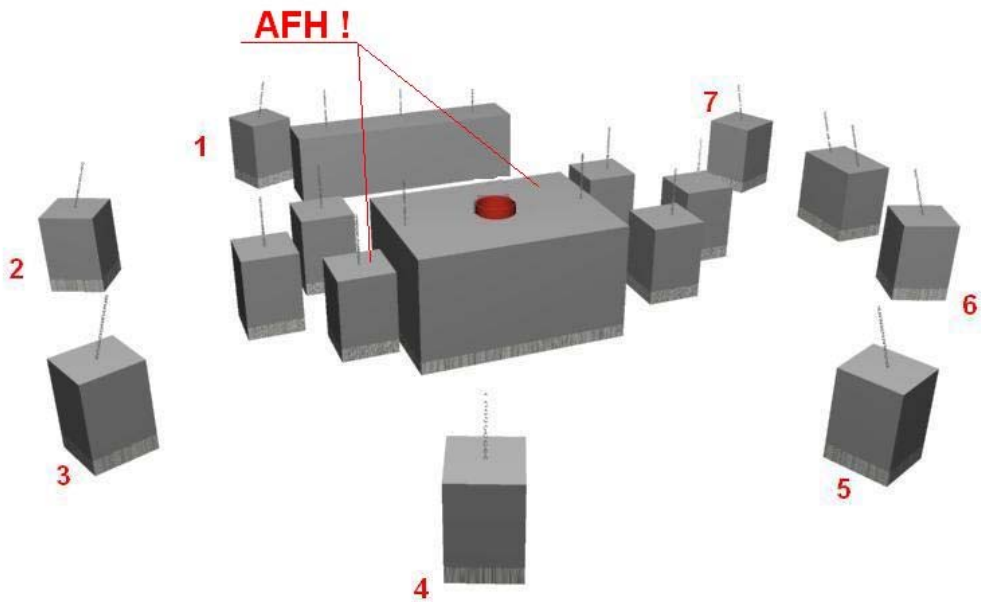
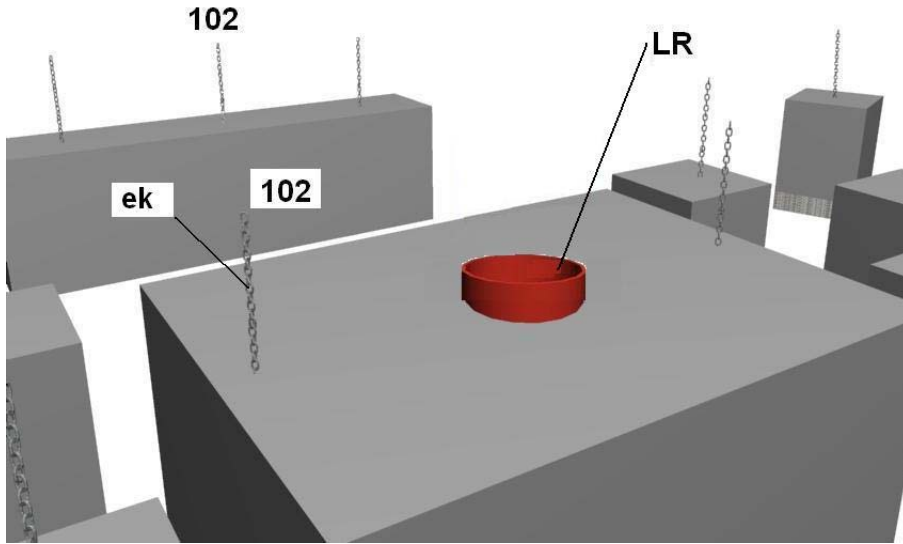
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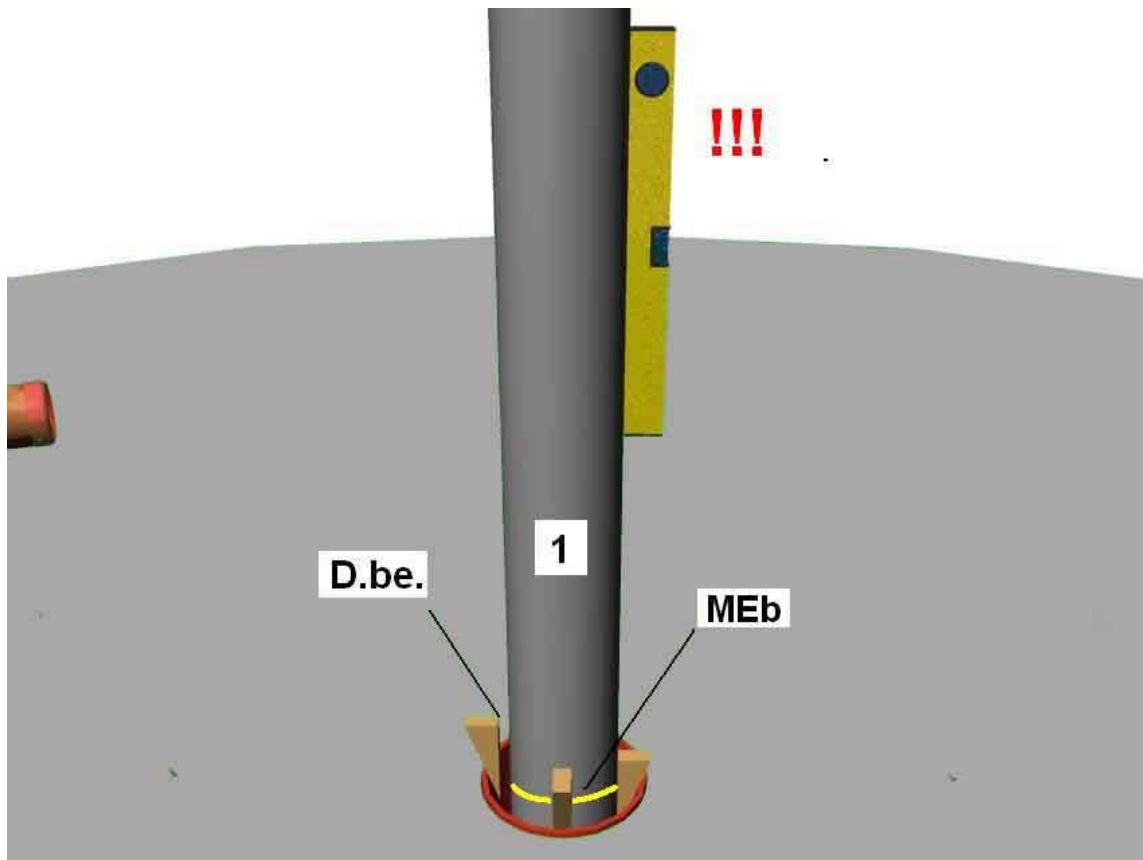
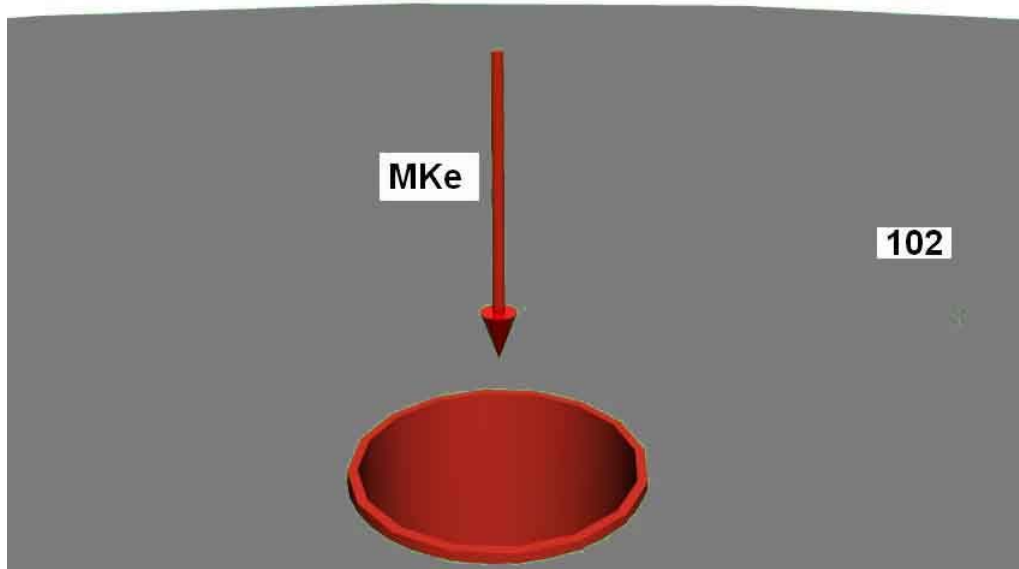
## 4 Erection instructions

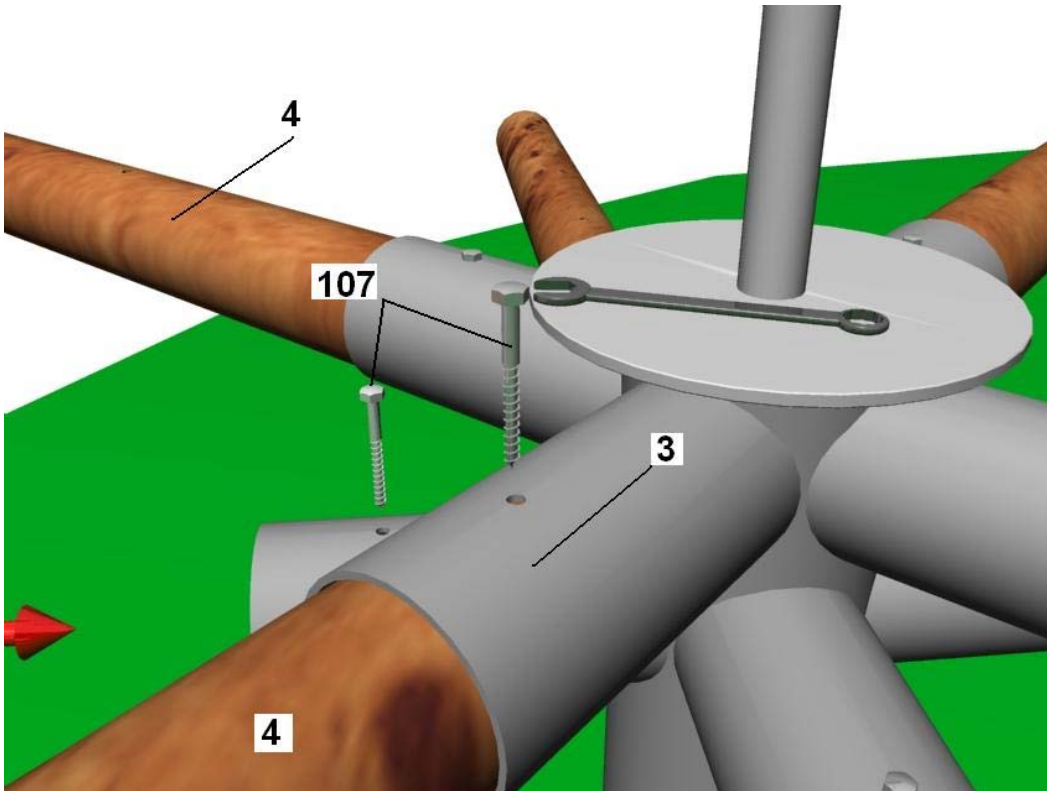
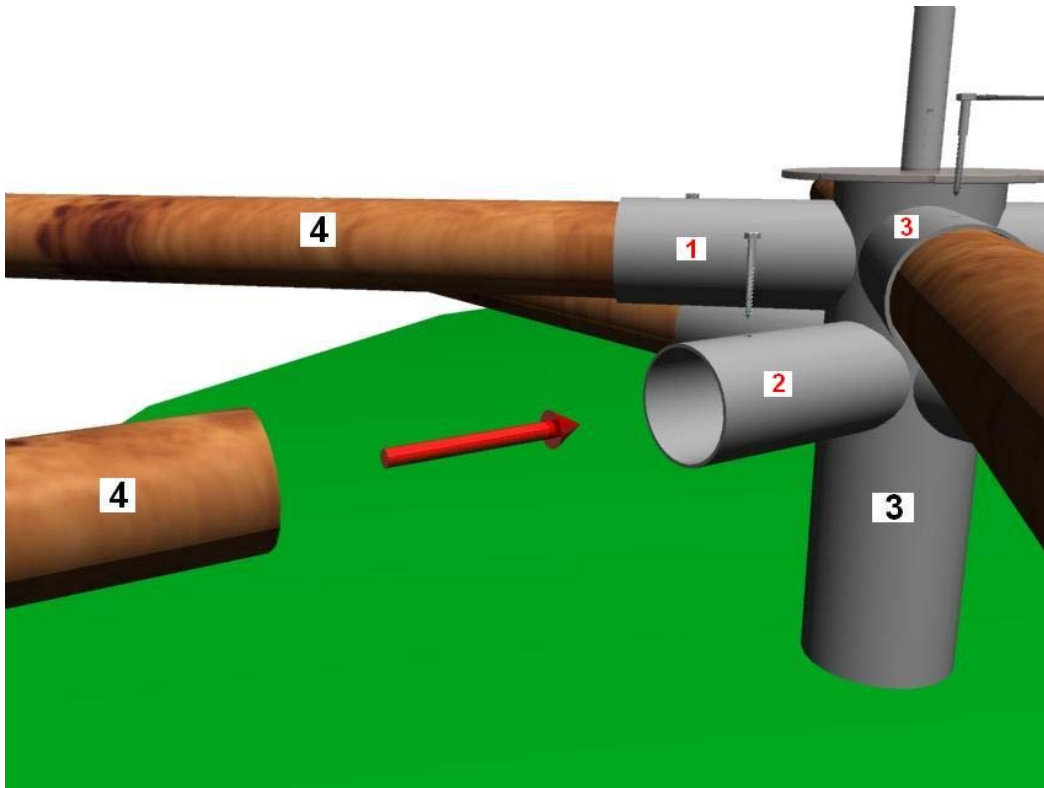


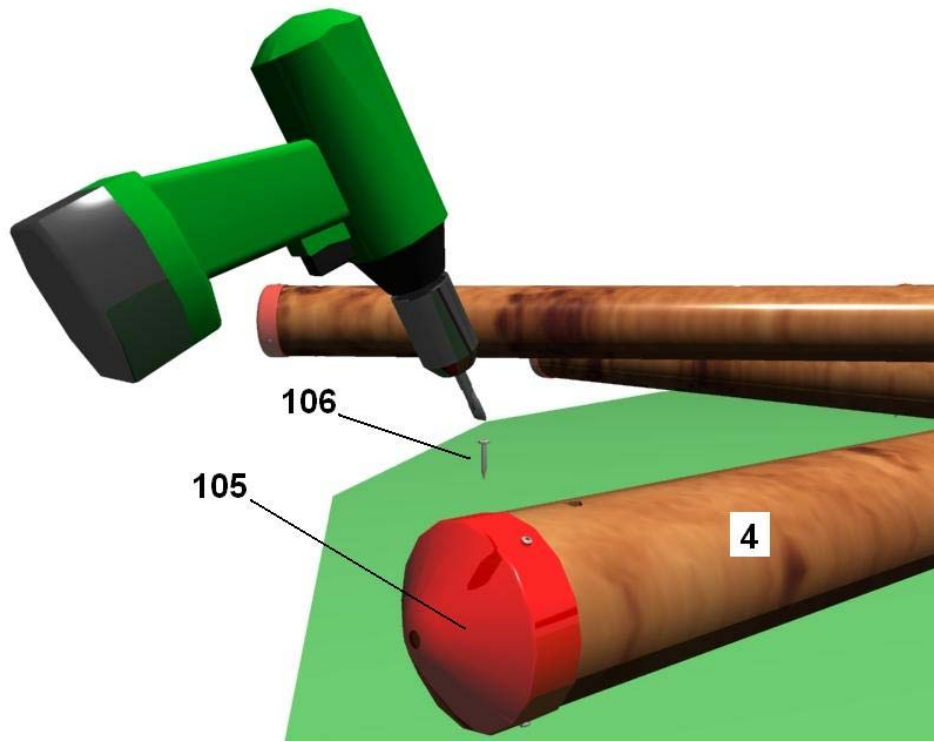


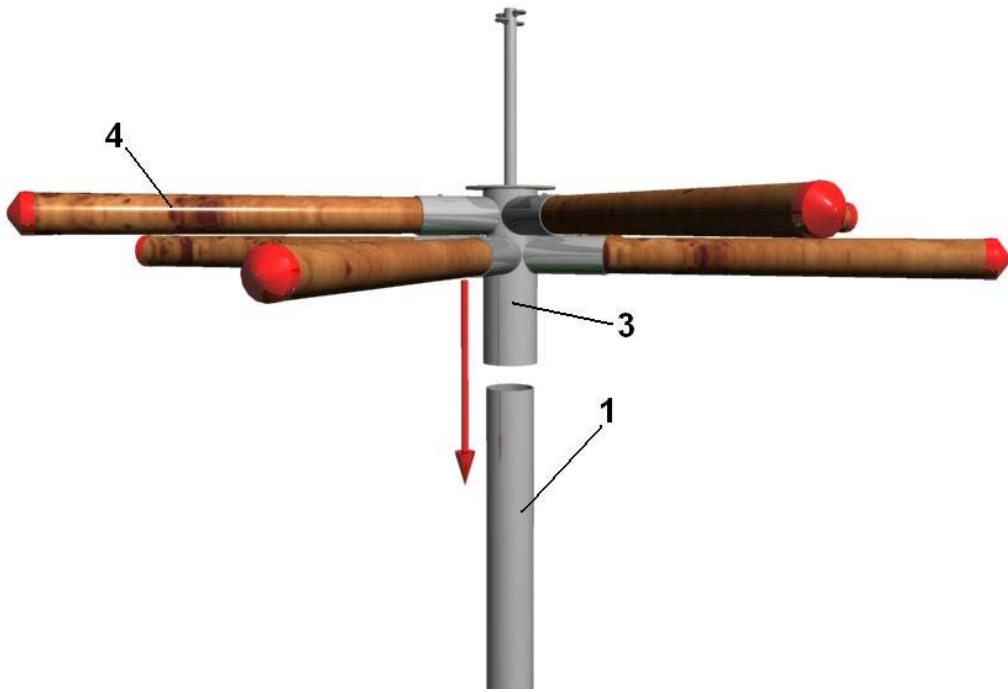


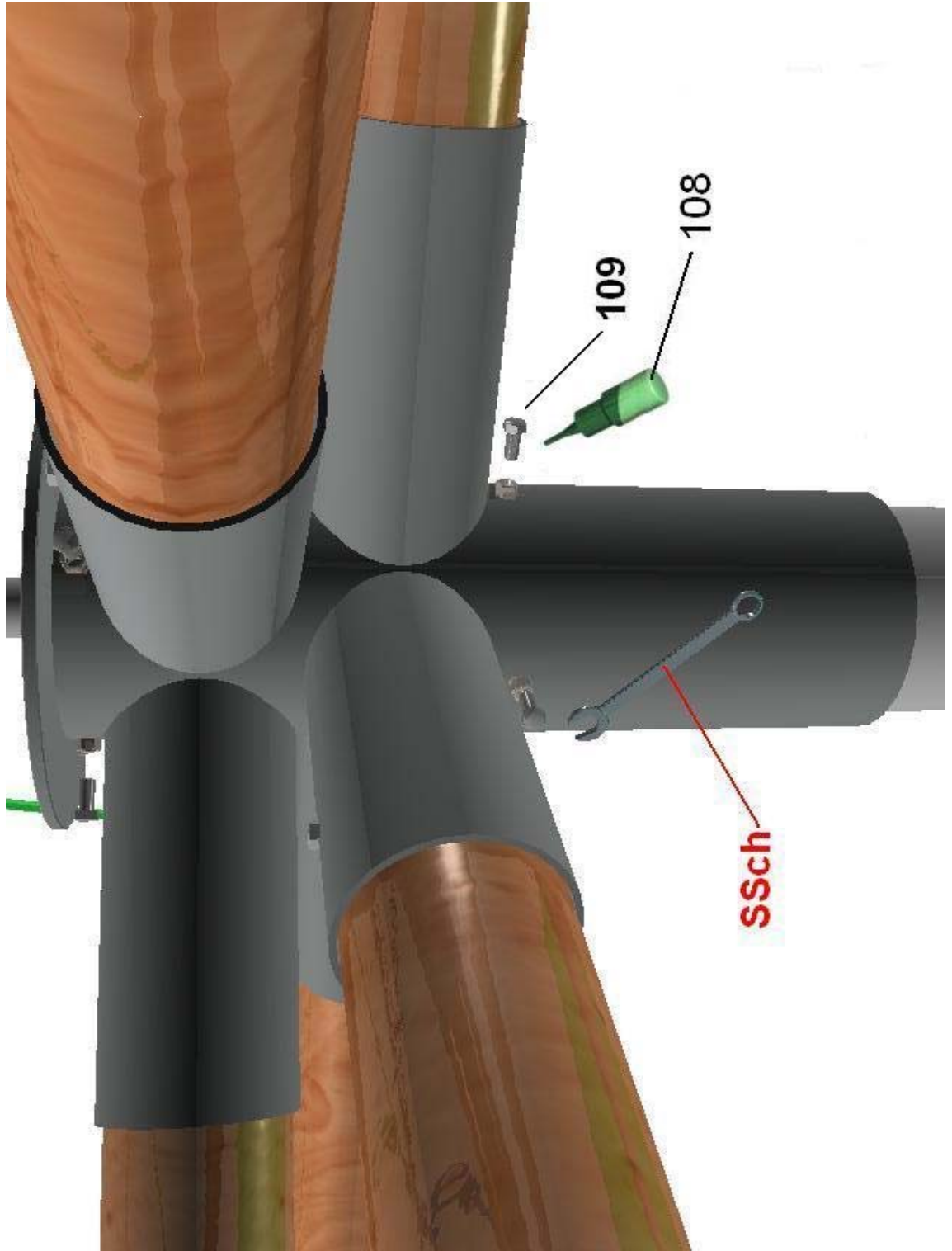


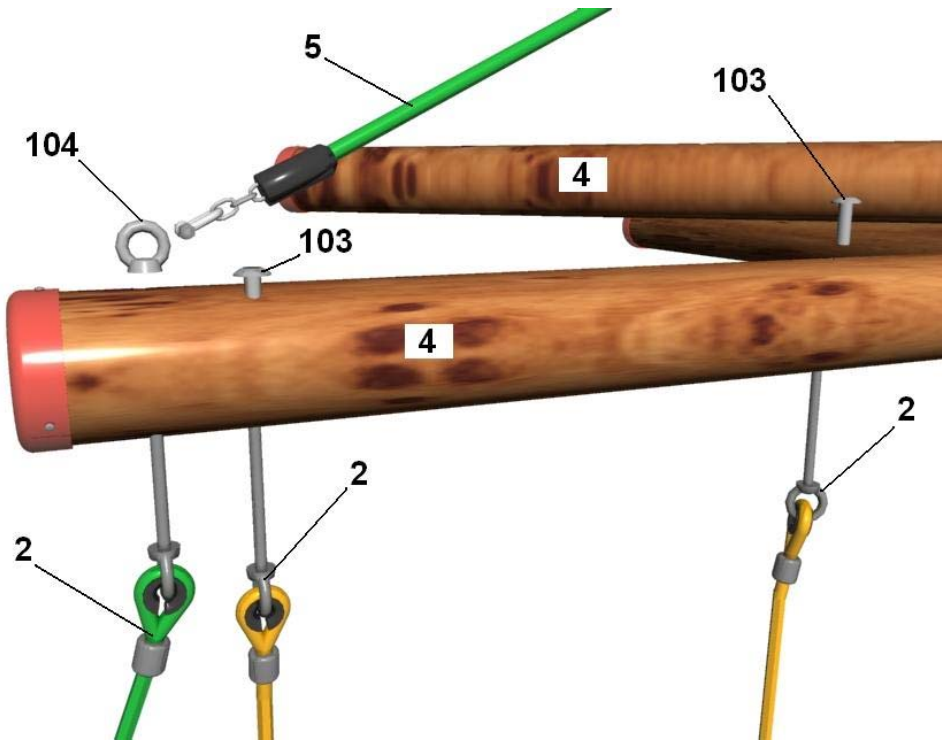
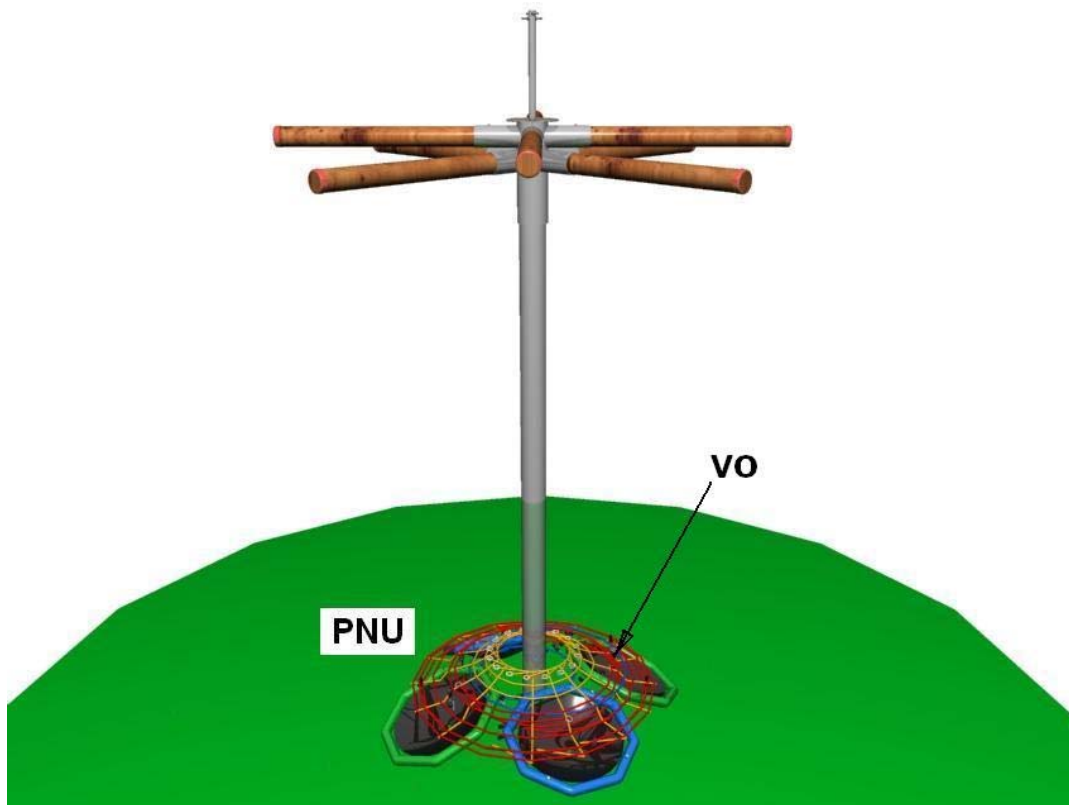


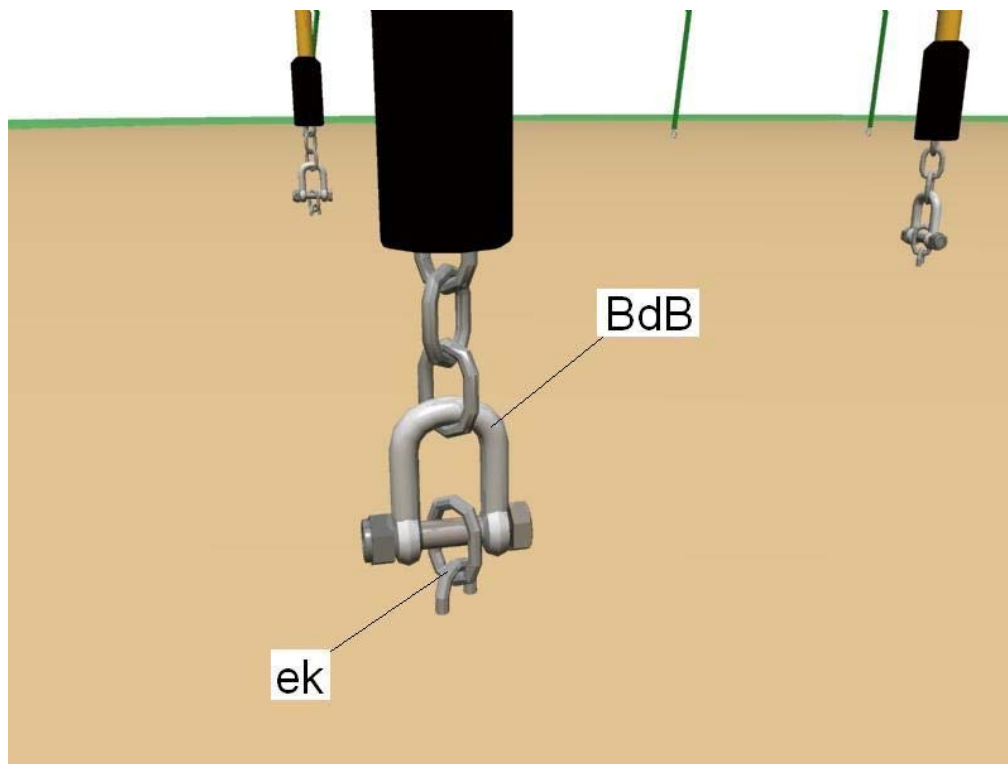
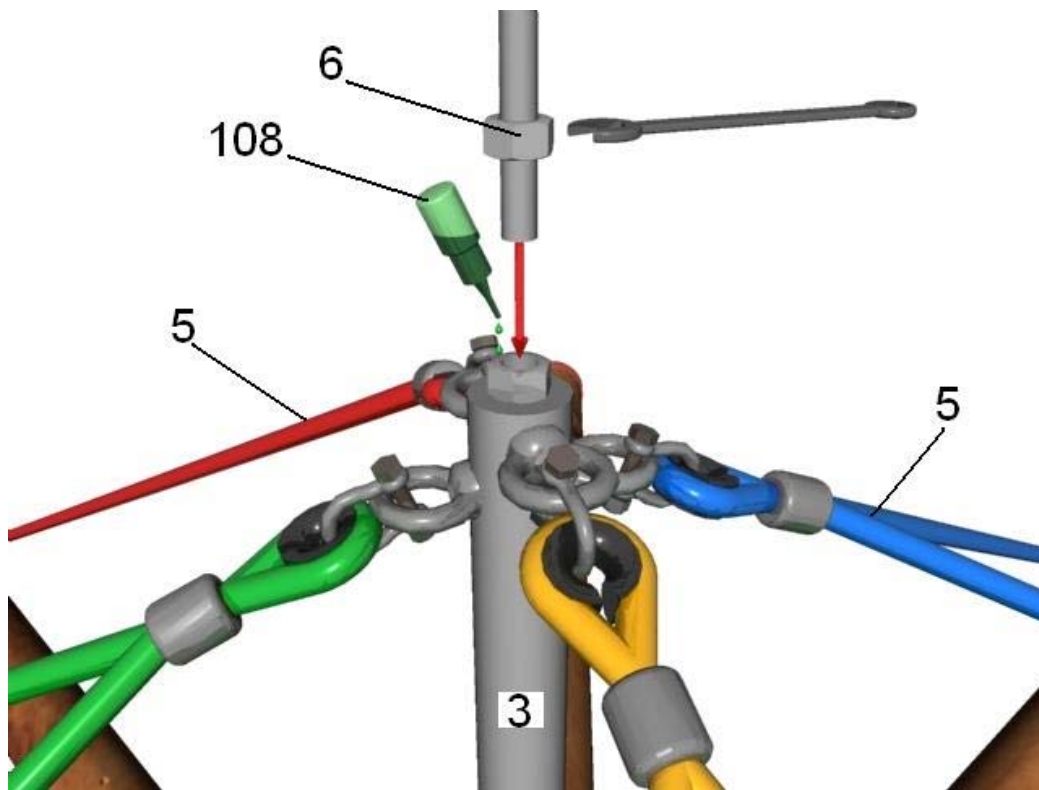


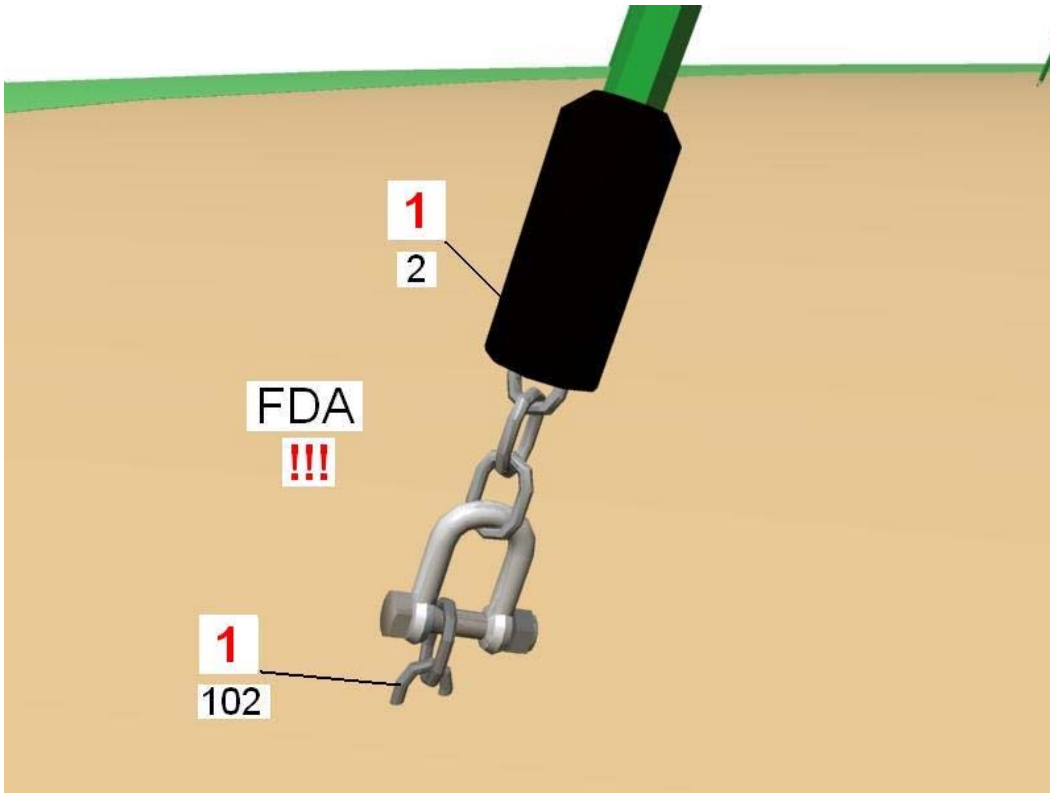
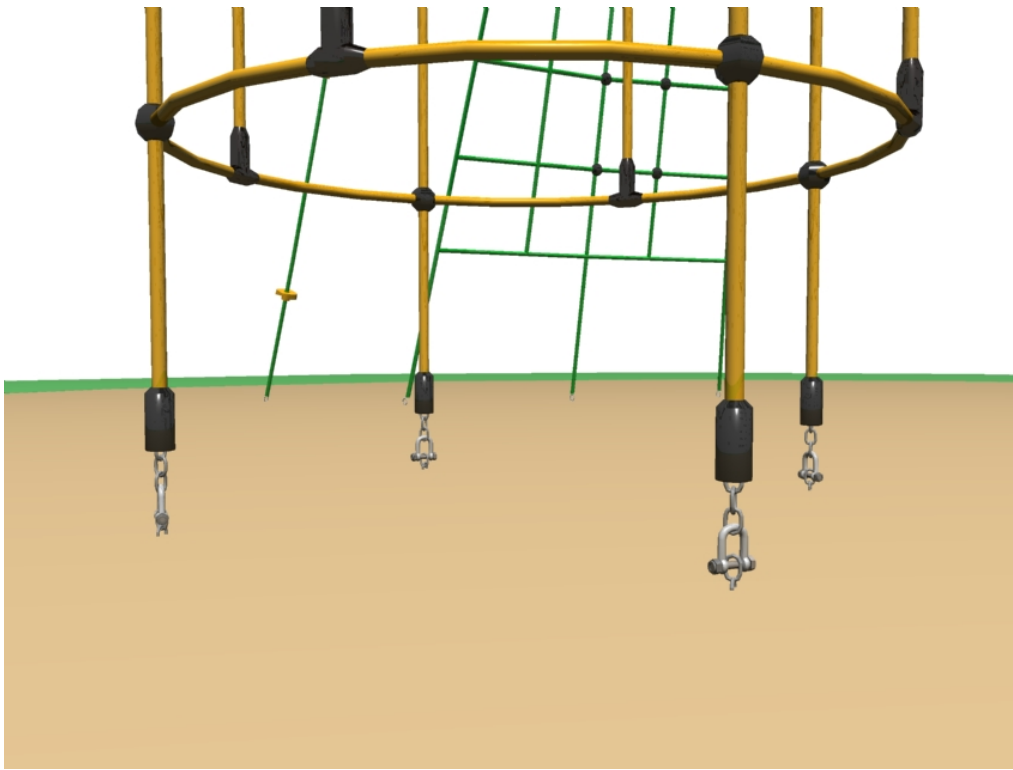


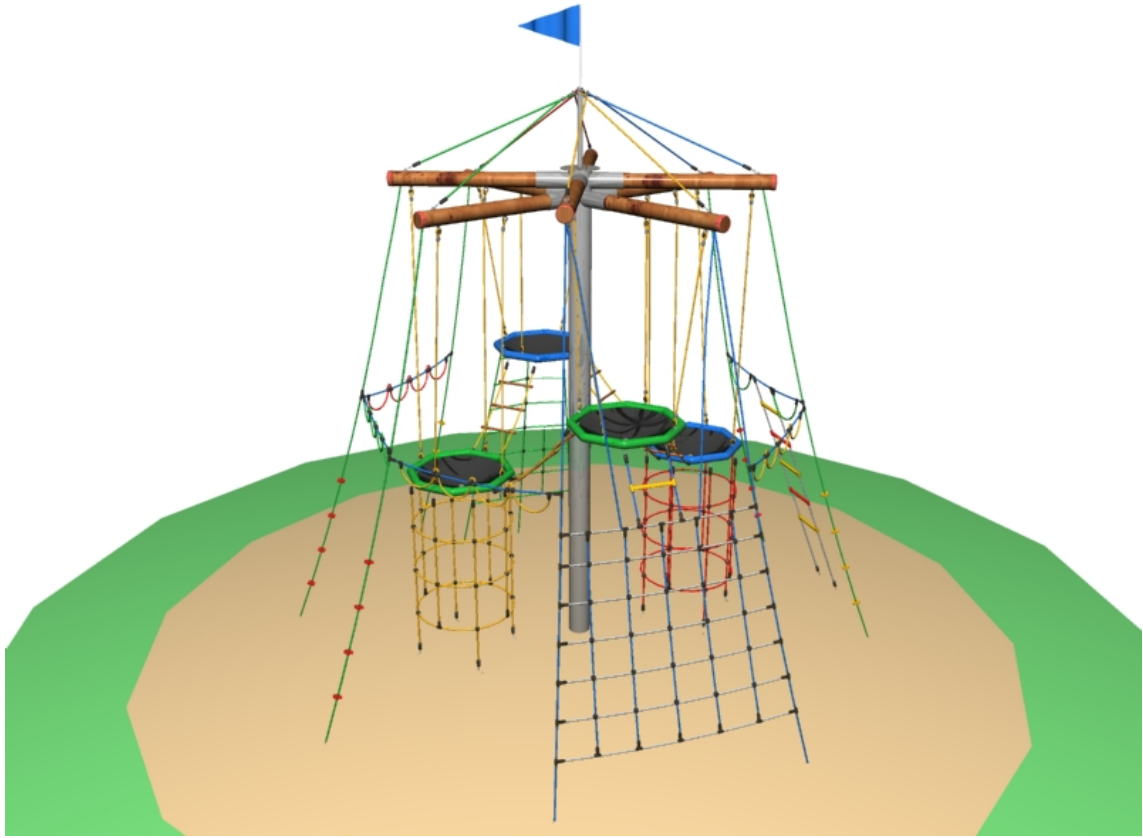













	Version: Bird's nest tree
<b>AB</b>	Setting time min. 4–5 days
<b>a.Einb.</b>	Cement chain into foundations
<b>BdB</b>	Anchor the nets to the ground with type-8 shackles
<b>B</b>	Baton positioned on site to secure the anchor chain
<b>D.be.</b>	Fill in around the central mast with concrete. (between drainage tube and central mast)
<b>D</b>	C20/25 (B25) concrete (for foundations) Q.ty required: 3.1 m <sup>2</sup>
<b>ek</b>	Chains should be shortened during installation if necessary.
<b>F</b>	Fall protection (see page 11)
<b>FDA</b>	Pay careful attention to foundation plan <b>No. 1 – 7</b>
<b>FR</b>	Foundation radius at least 10 cm
<b>G</b>	Drainage layer
<b>KNR</b>	Drainage tube (e.g. concrete or PVC duct, Ø 400 mm / L. 0.80 m on site)
<b>LR</b>	Drainage tube (e.g. duct / to be installed by the client/ on site).
<b>O.K</b>	Top surface of playing area
<b>MEb</b>	Pay careful attention to mark when mounting the post.
<b>MA</b>	The red <b>digits 1-7</b> must match the digits <b>1-7</b> on the <b>glulam poles</b> .
<b>MKe</b>	Insert the mast into the drainage tube
<b>PNU</b>	Lay the net-part packet with the underside around the mast.
<b>PS</b>	Minimum safety area 94.5 m <sup>2</sup>
<b>VO</b>	Pre-assembled
<b>AFH!</b>	The foundation surfaces are in one level
<b>SSch</b>	After putting on the post-cap, grease the hexagon-screw and tight up.
	Round off edges of concrete foundations! Important – All sizes of foundations are valid for soil class 3 – 4 (standard soil). In case of sandy and soft soil we strictly recommend to enlarge the foundation dimensions.

**See drawings**

---

## 5 Post installation checks

---



Notice

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

---

### 5.1 Marking filler depth

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

### 5.2 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.

### 5.3 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.

### 5.4 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.

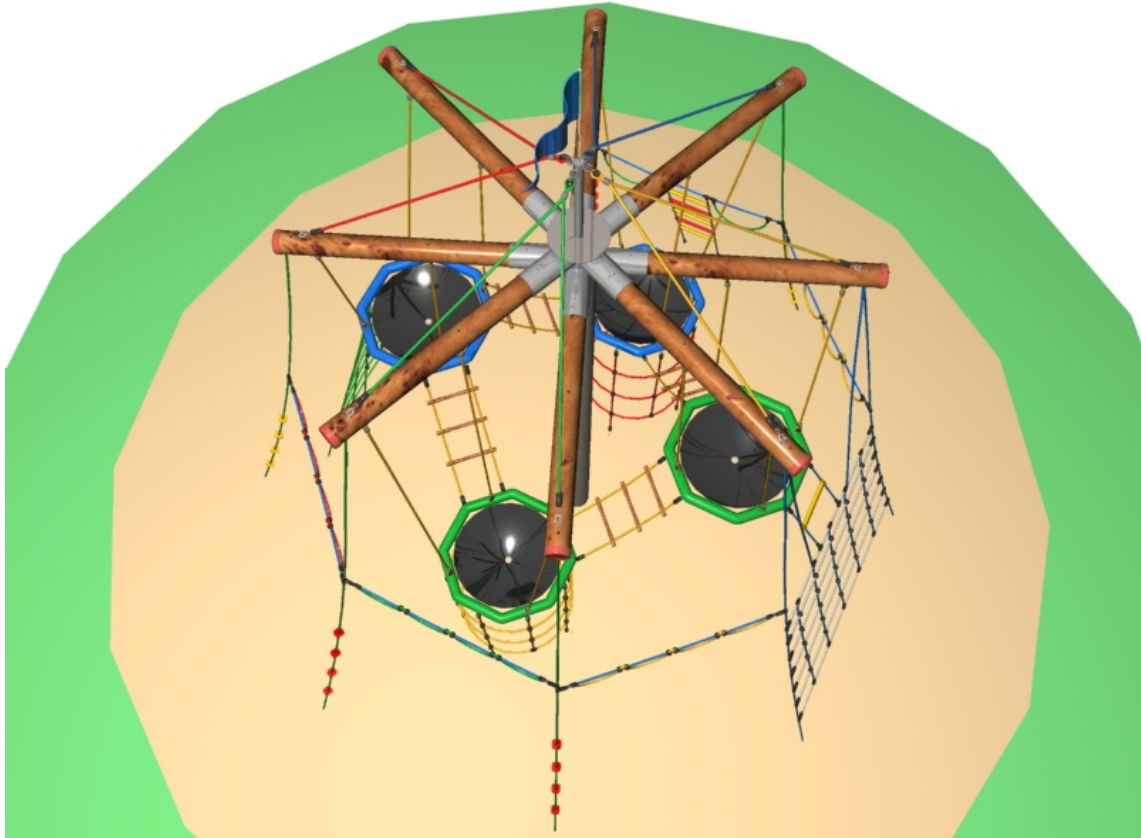
### 5.5 Retighten bolts

- 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**



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**Revision history**  
Revision 0 – 2006-02-13

The first allowed version

Maintenance instruction

Revision 0 – 2007-08-07

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## 6 Introduction Maintenance

### 6.1 General information

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



Notice

~~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.



Attention

---

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 1176-1:1998”.**

---

## **7 General maintenance information**

### **7.1 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.

### **7.2 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.

### **7.3 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.

### **7.4 Spare parts**

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

### **7.5 Identifying spare parts**

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

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

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

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

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

### **7.8 Drainage holes**

All drainage holes should be kept clear.

### **7.9 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.

---

## 7.10 Faults



**Attention**

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.

---

## 7.11 Loose screws



**Attention**

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).

---

## 7.12 Preventing equipment use

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

## 7.13 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.

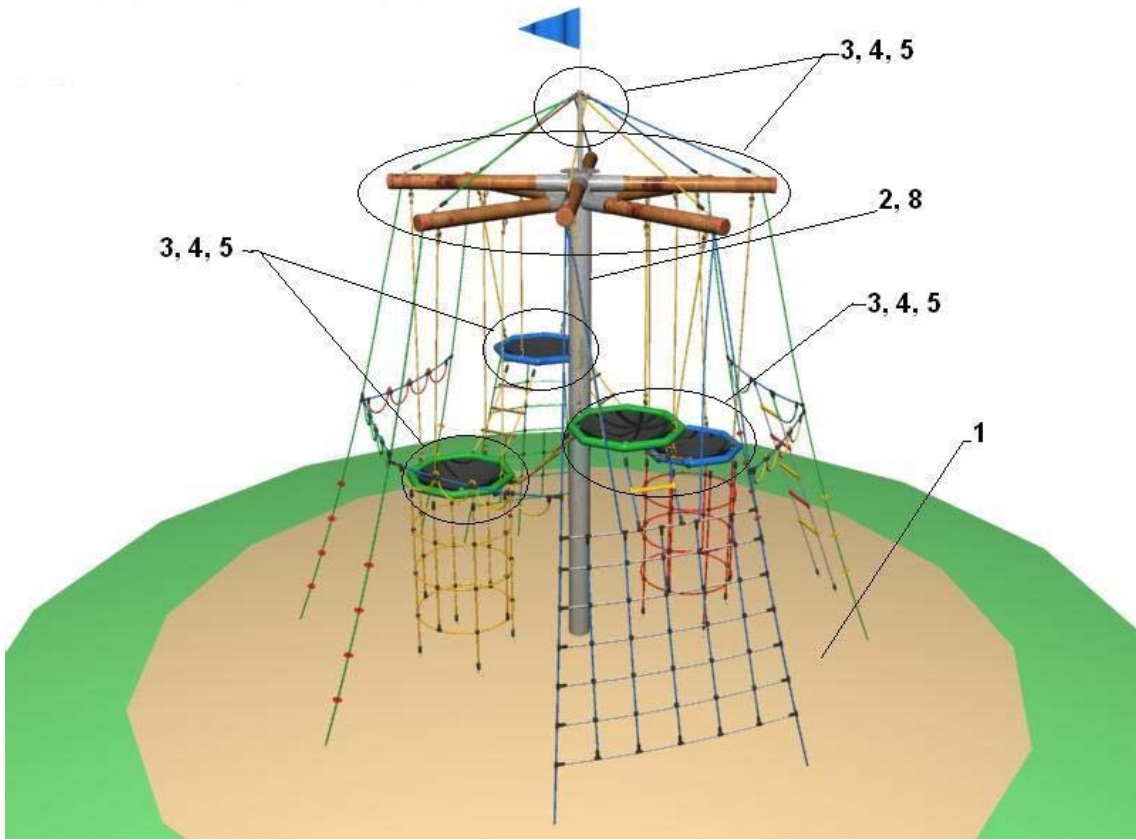
Zinc paint should be applied to any corroded areas and scratches.

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

---

## 8 Regular maintenance

### 8.1 Image



## 8.2 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.

---

## 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.

---

#### 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.

---

- 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.



Attention

## Annual Maintenance

---

### 13 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.



Attention

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 Hand over document



**Attention**

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:

---

---

**Installation company (address):**

---

---

Responsible assistant (assembler):

---

---

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

---

(Signature of operator)  
(Stamp)

(Signature of installation company)

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