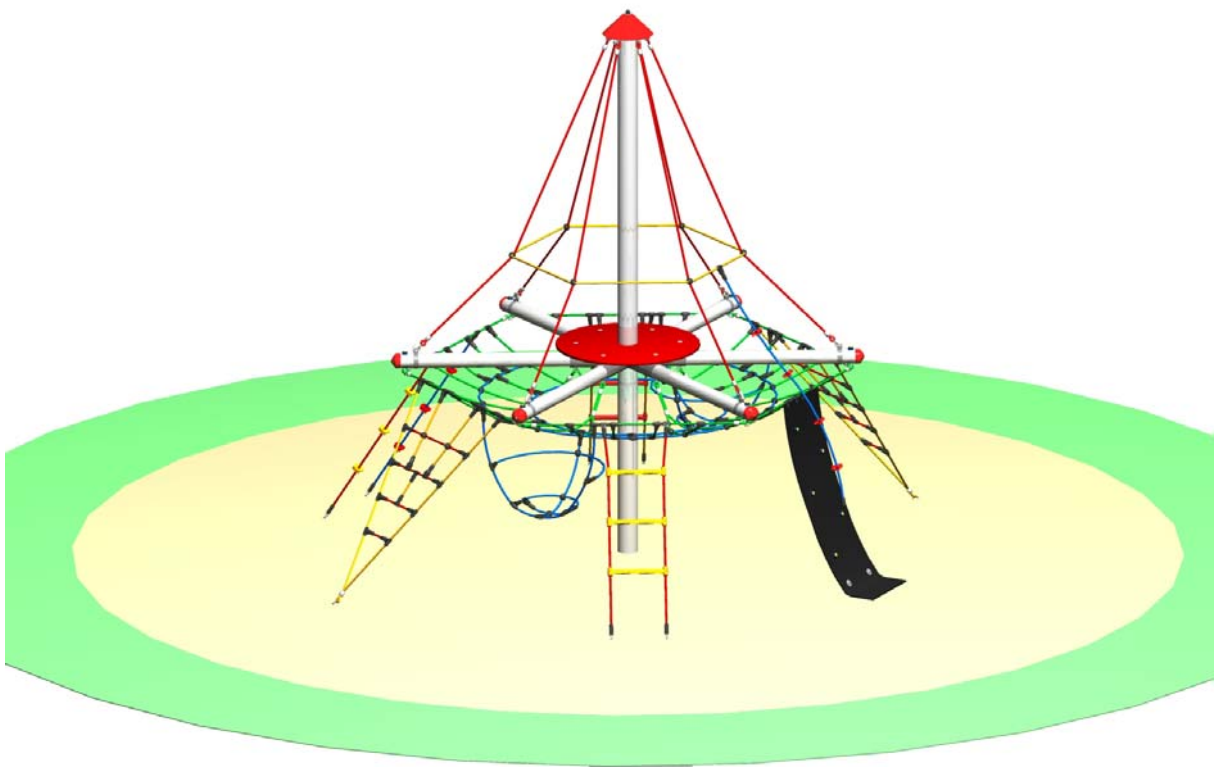


# Installation Instructions

## Mini Pirate Tower

### Art. 4687-30

(set in concrete)



**Revision history**

Revision 0 – 2006-22-06

The first allowed version

Assembly instruction

Revision 3 – 2012-08-15 alle Netze fixieren FH

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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 “Mini” Pirate Tower, Art. 4687-30

1. Space requirement:  $\varnothing$  4.70 m and/or  $\varnothing$  7.70 m including safety zone, height of fall 1.50 m
2. Required safety surface:

Surface material	Description mm	Minimum thickness of layer mm	Maximum height of fall mm
Topsoil grass			$\leq$ 1000*
Chipped bark	20 – 80 grain size	300/400	$\leq$ 2000/3000
Wood chippings	5 – 30 grain size	300/400	$\leq$ 2000/3000
Sand	0.2 – 2 grain size	300/400	$\leq$ 2000/3000
Gravel	2 – 8 grain size	300/400	$\leq$ 2000/3000
Other ground materials	As recommended by manufacturer		

3. Name and overall dimension of the largest component:  
Steel post with 4 pipe sockets (1 item) length 4.70 m,  $\varnothing$  139.7 mm (length including post footing)
4. Name and weight of the heaviest component:  
1 steel post (1 piece) approx. 100 kg
5. Intended age group: 3 years and over
6. Attention! Equipment to be embedded in concrete  
Concrete: C25/30  
Required concrete: 1.20 m<sup>3</sup>  
Foundations/area to be excavated:  
1 x 1.00 m long x 1.00 m wide x 0.70 m high, total depth 1.10 m including 10 cm drainage  
3 x 0.70 m long x 0.35 m wide x 0.30 m high, total depth 0.80 m including 10 cm drainage  
2 x 0.40 m long x 0.35 m wide x 0.30 m high, total depth 0.80 m including 10 cm drainage  
1 x 1.00 m long x 0.35 m wide x 0.30 m high, total depth 0.80 m including 10 cm drainage  
Top edge of concrete 30 cm resp. 40 cm below ground level
7. Assembly time, once foundations complete: 2 - 3 hours.  
Required assistance: 2 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




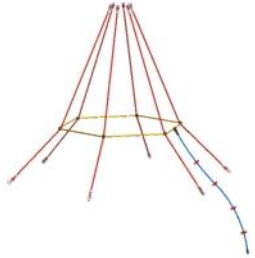
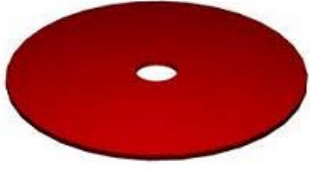

Table 3-1: Delivery contents, in words

Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Steel pole with 6 pipe brackets and angle profile support	Ø 159 mm, L. 4.7 m		
2	6	Tube	Ø 101.6 mm x 2.9 mm x 1500 mm		
3	1	Play nets below (pre-assembled)			
4	1	Guy ropes with access rope (pre-assembled)	(pre-assembled)		
5	1	Coated plywood disc	Ø 1000 mm x 23 thick		
6	1	Top plate	Ø 335 mm x 12 thick galvanised		
7	6	Tube clamps with carriage bolt and stop nut			
	40	Torx screw	4.5 x 25		
100	12	Ring nut with threaded pole (approx.250 mm) and hexagonal nut (premounted)	M12 galvanised		
101	4	Hexagonal screw	M12 x 30 galvanised		
102	10	Tooth washer	for M12 galv.		
103	6	Bolt with <b>key</b>	M12 VA		
104	6	Blue and yellow cap	for M12		
105	6	Washer	Ø 13.0 galv. DIN 125		
106	6	Stop nut	M12 VA DIN 985		
107	6	Allen screws	M10 x 20 galvanised		
108	1	Threaded rod	M16 x 165 VA		
109	1	Hexagonal nut	M16 DIN 934 galv.		
110	1	Pole cap, red	Ø 350 mm x 140 high		
111	1	Flat washer	Ø 17.0 DIN 9021 galv.		
112	1	Stop nut	M16 VA DIN 985		
113	1	Black cap	for M16		
114	6	Cap, Ø 140 mm, red			
115	18	Self-boring fillister-head screw	3.5 x 20 galv.		






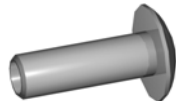





Pos.	Quantity	Element / Description	Size	O.K.	Missing
116	2	Loctite			
117	1	Threaded rod	M12 x 200 galv.		
118	2	Hexagonal nut	M12 DIN 934 galv.		
	1	Assembly instructions			
	1	Company sticker			
	1	<b>Drainage tube (to be provided by customer)</b>	<b>approx. Ø 250 x L. 700</b>		
10	1	<b>Brush</b>	<b>At customer's request</b>		
11	2	<b>Tin of paint</b>	<b>At customer's request</b>		











### 3.2 In symbols

Table 3-2: Delivery contents, in symbols

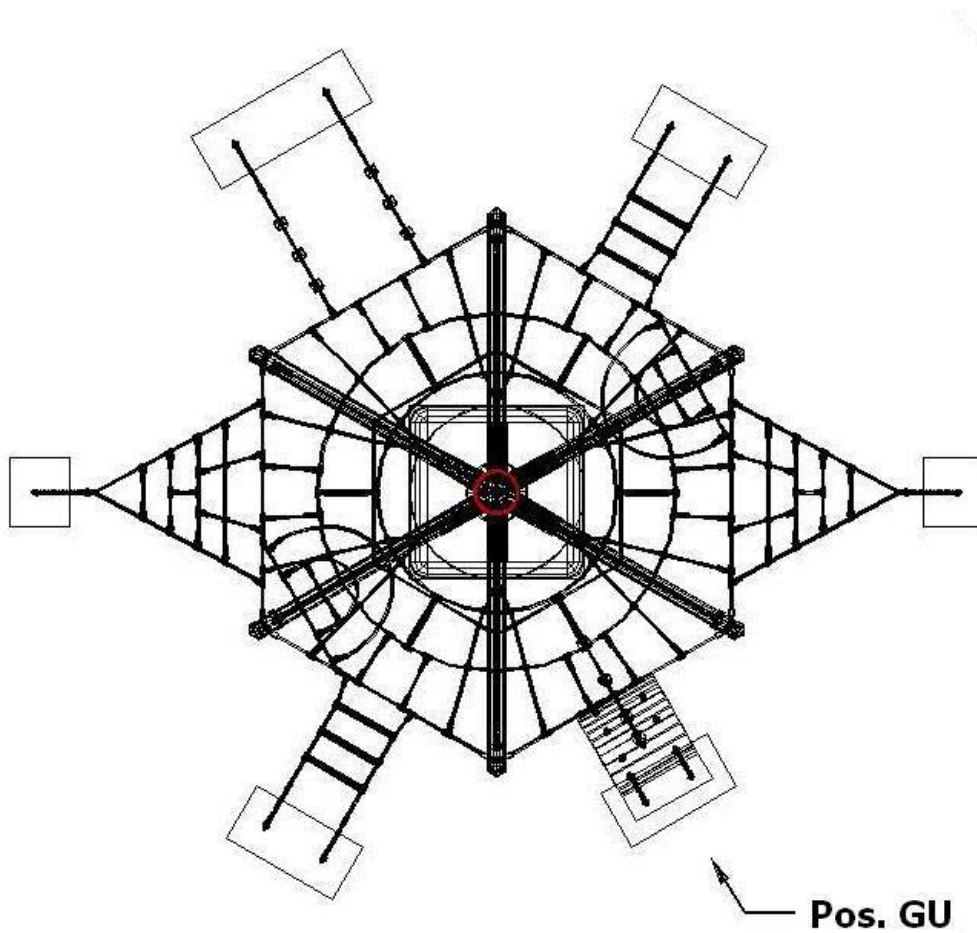
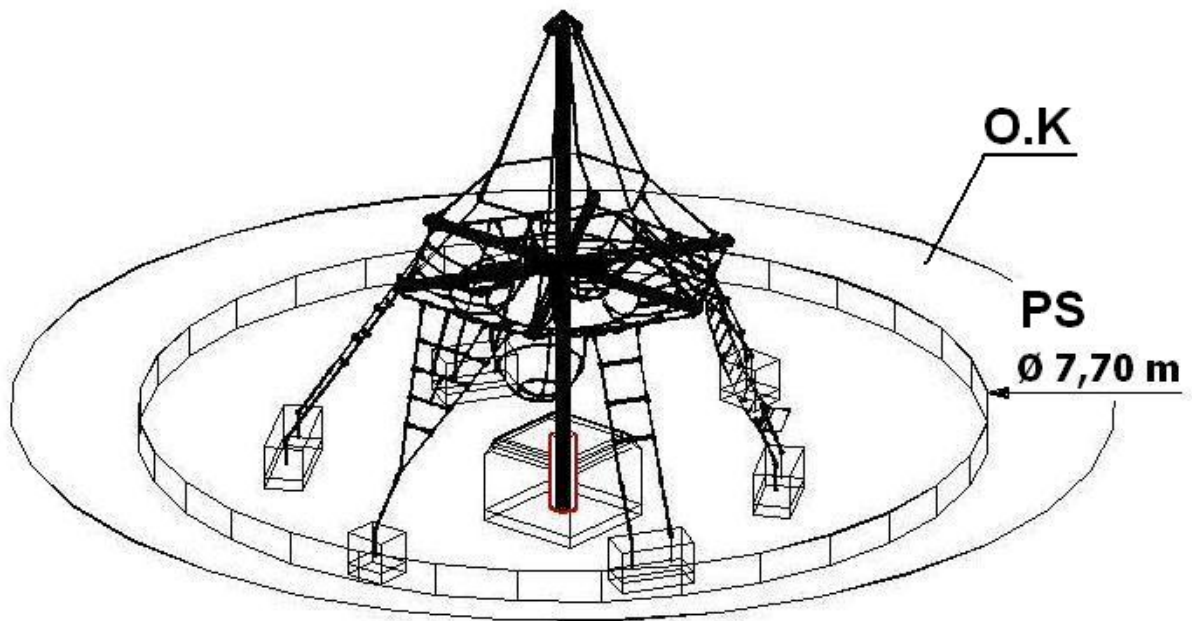
Pos.	Quantity	Symbol
1	1	 <p>Ø 159 mm, L. 4.7 m</p>
2	6	 <p>Ø 101.6 mm x 2.9 mm x 1500 mm</p>
3	1	
4	1	
5	1	 <p>Ø 1000 mm x 23 thick</p>
6	1	 <p>Ø 335 mm x 12 thick galvanised</p>

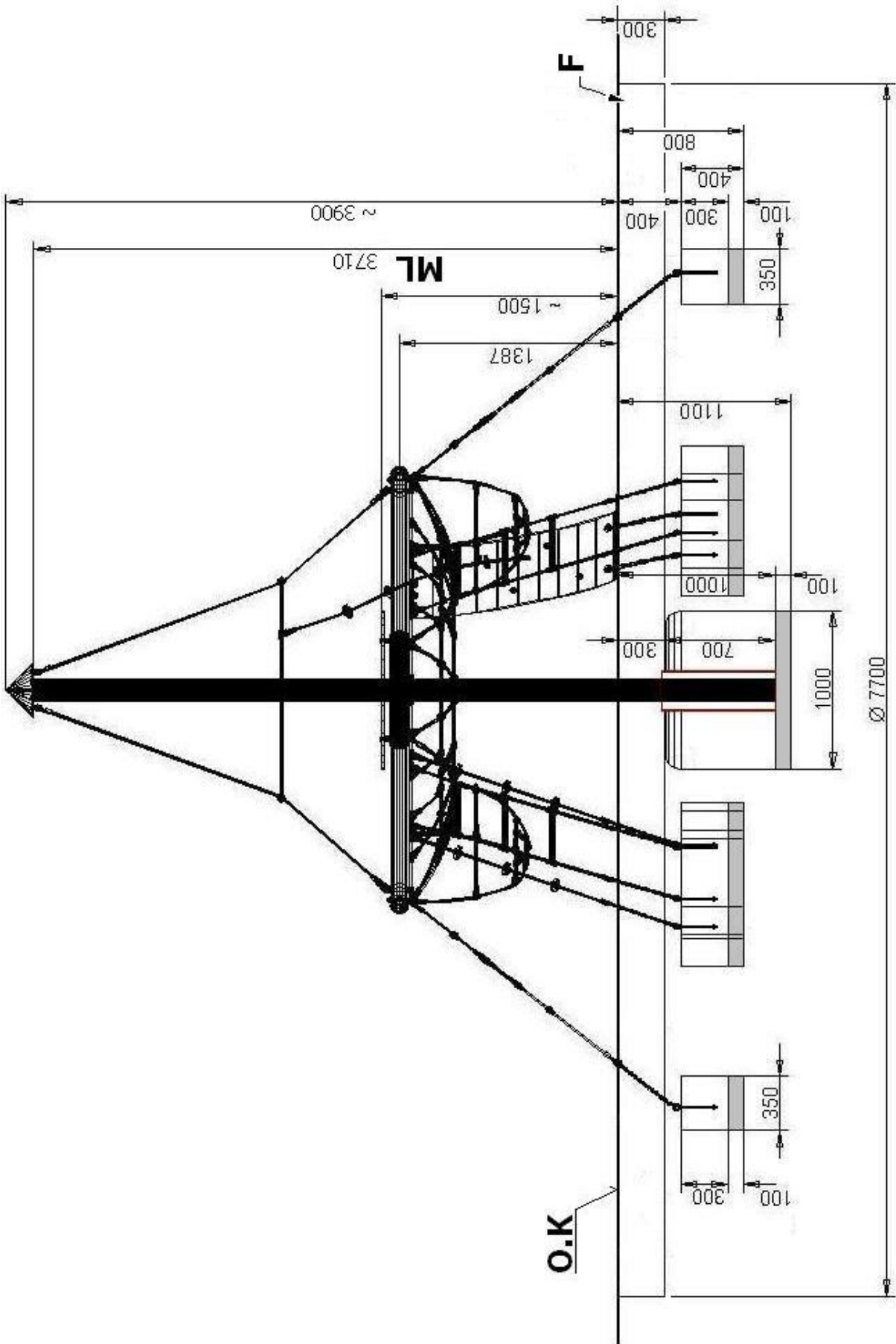


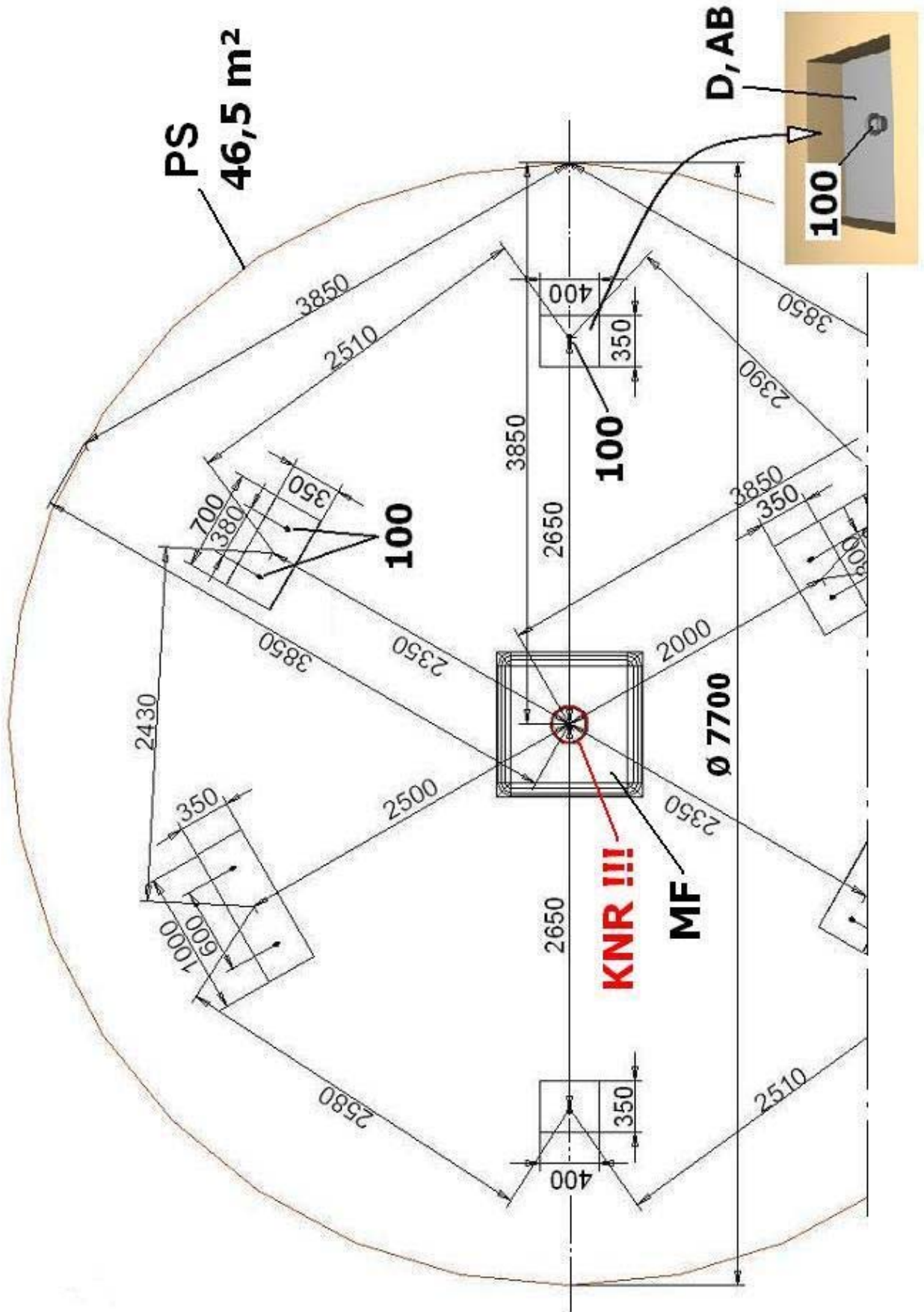
Pos.	Quantity	Symbol
7	6	
	40	
100	12	 M12 galvanised
101	4	 M12
102	4	 for M12 galv
103	6	 M12 VA
104	6	 for M12
105	6	 Ø 13.0 galv. DIN 125
106	6	 M12 VA DIN 985
107	6	 M10 x 20 galvanised
108	1	 M16 x 165 VA

Pos.	Quantity	Symbol
109	1	 M16 DIN 934 galv.
110	1	 Ø 350 mm x 140 high
111	1	 Ø 17.0 DIN 9021 galv
112	1	 M16 VA DIN 985
113	1	 for M16
114	6	
115	18	 3.5 x 20 galv.
116	2	 Loctite
117	1	 M12 x 200 galv.
118	2	 M12 DIN 934 galv.

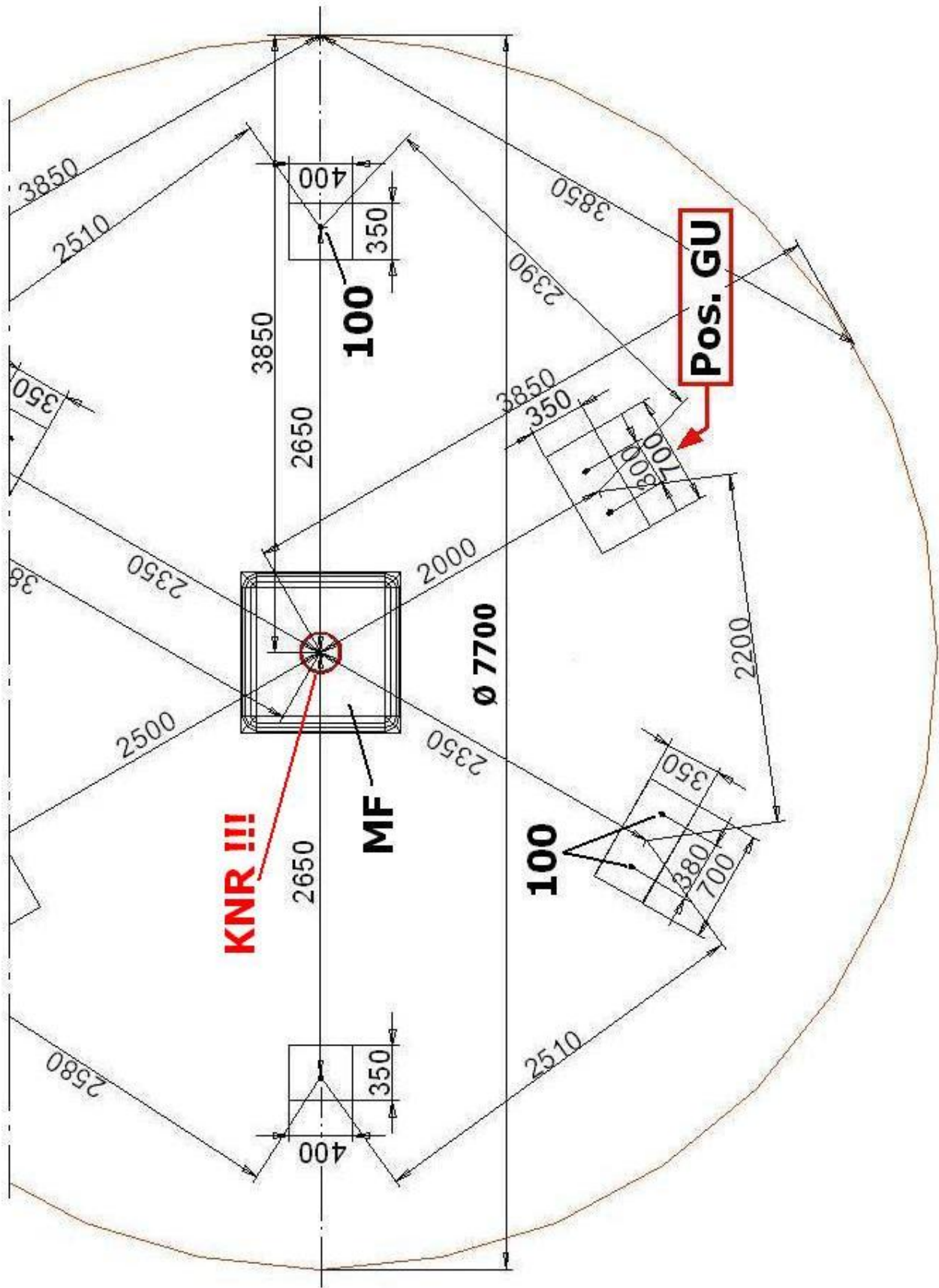
## 4 Erection instructions

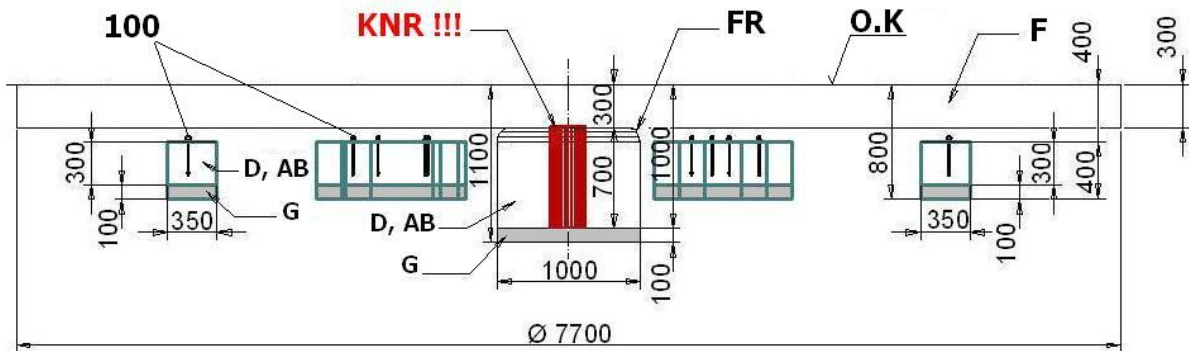
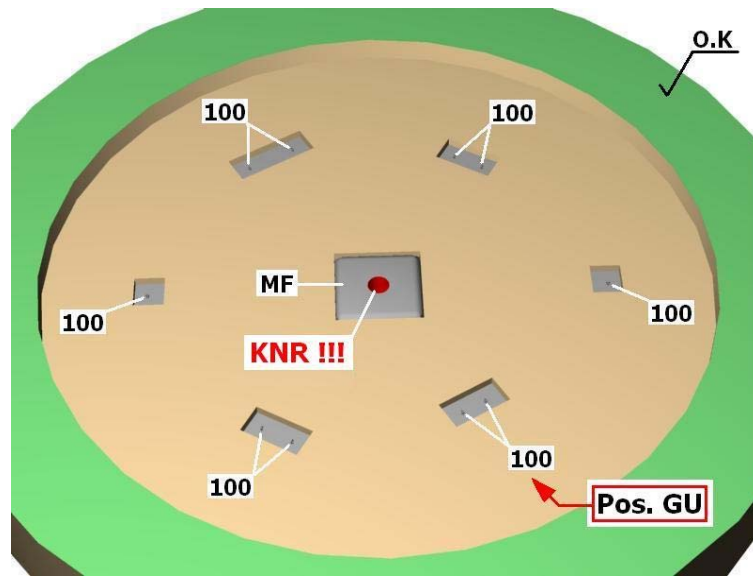
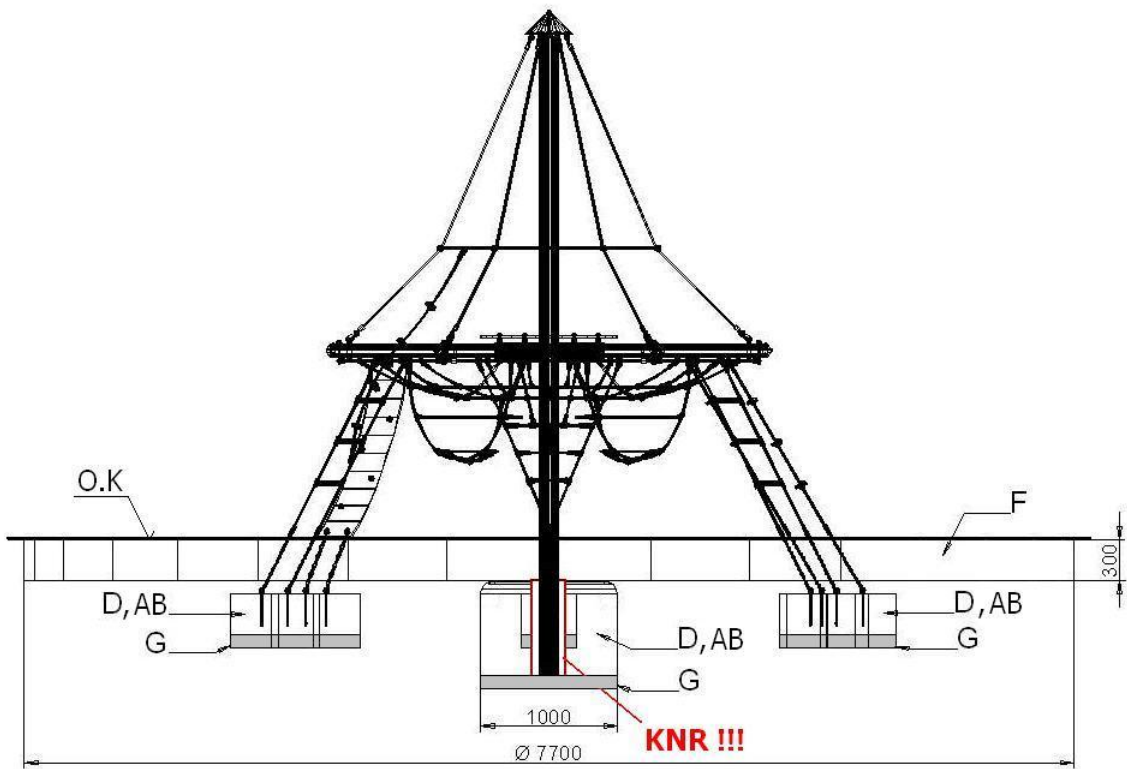


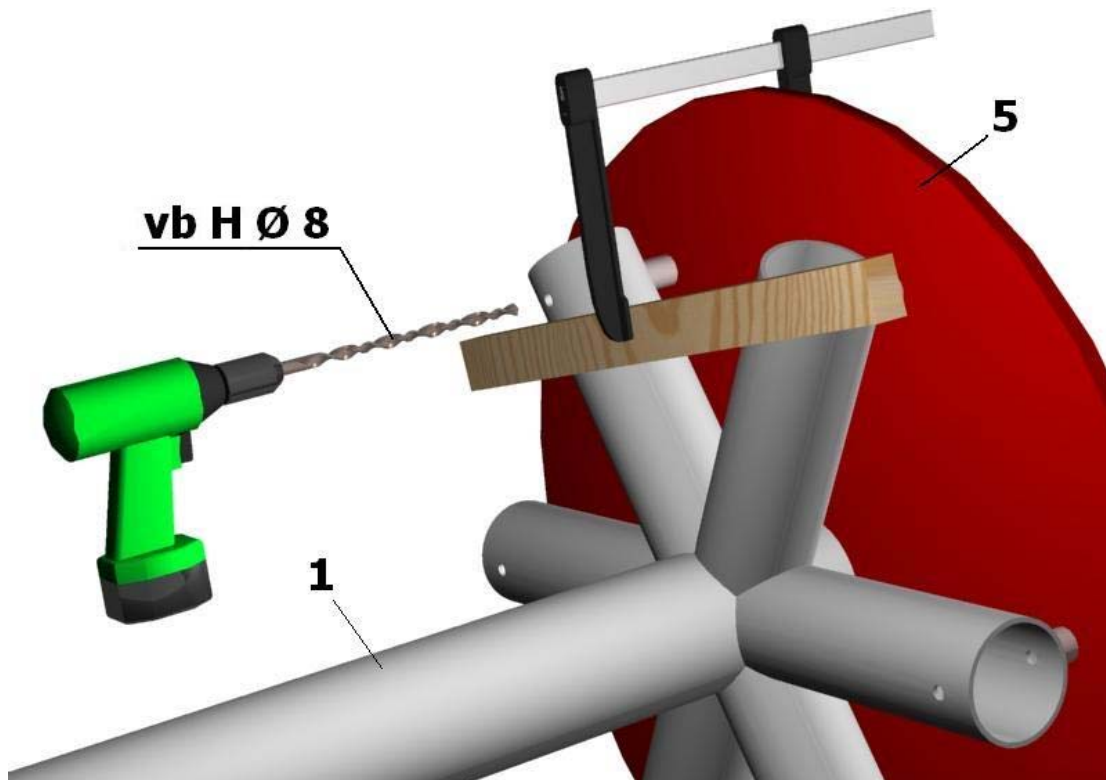
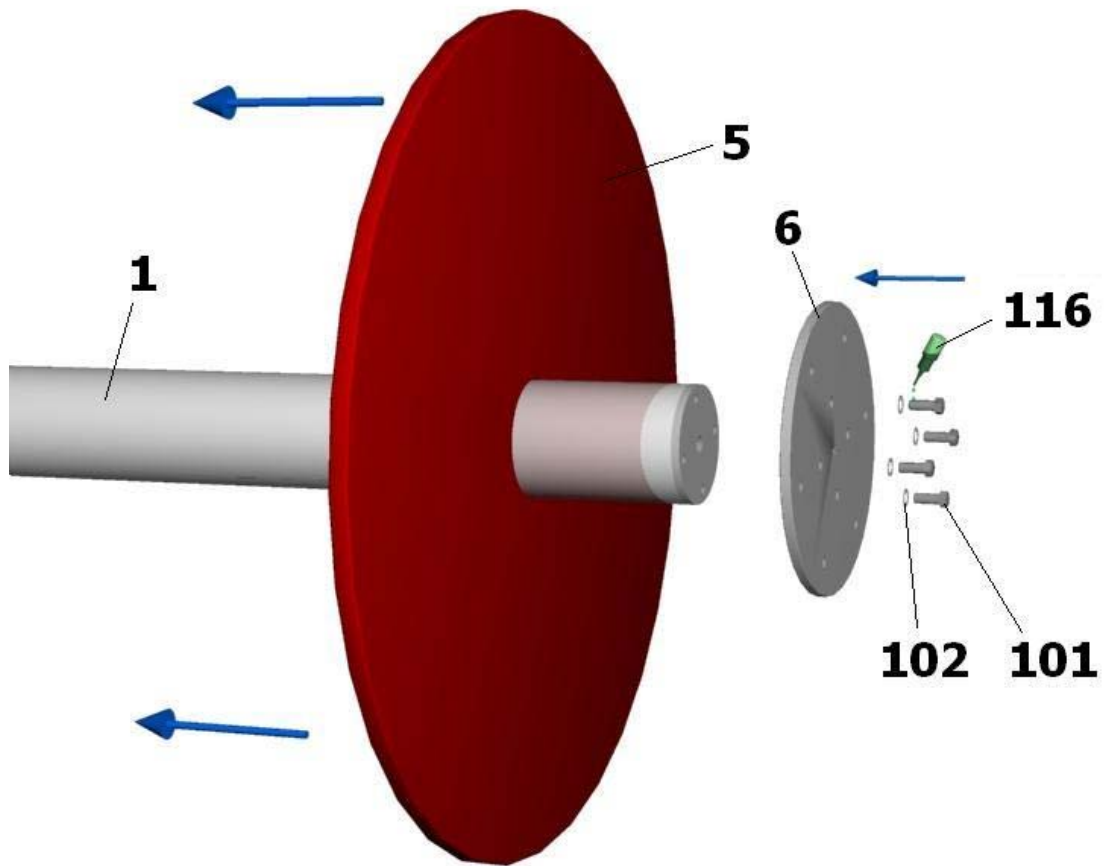




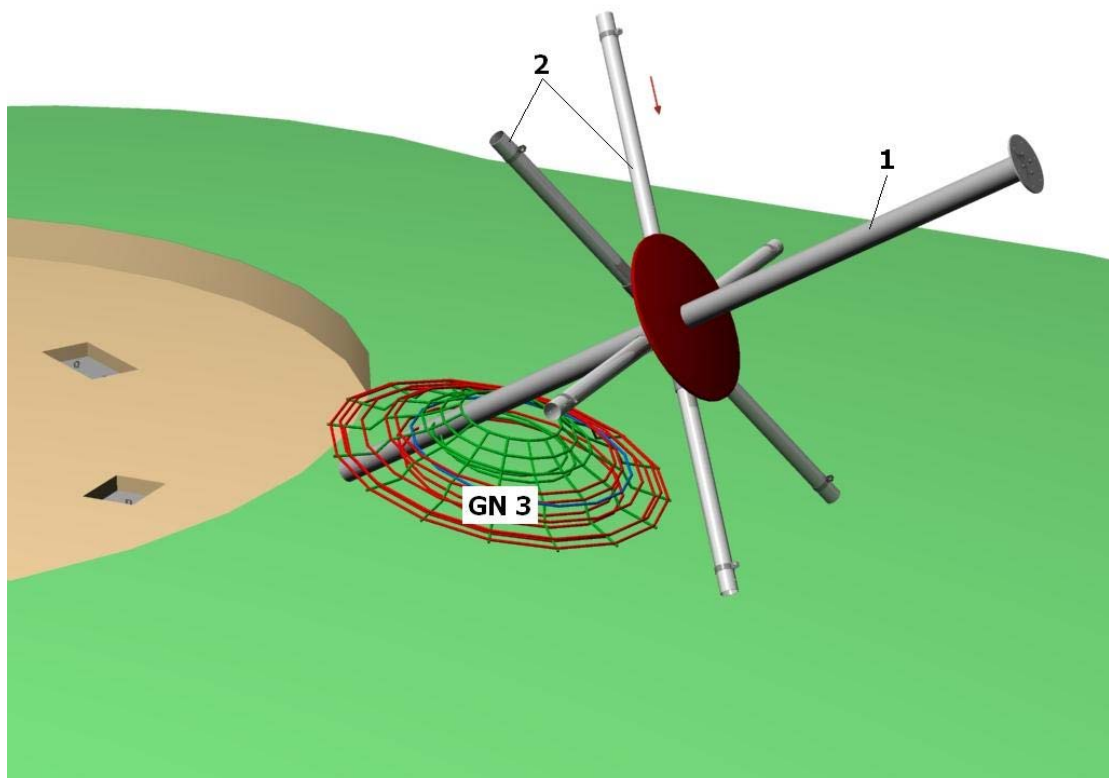
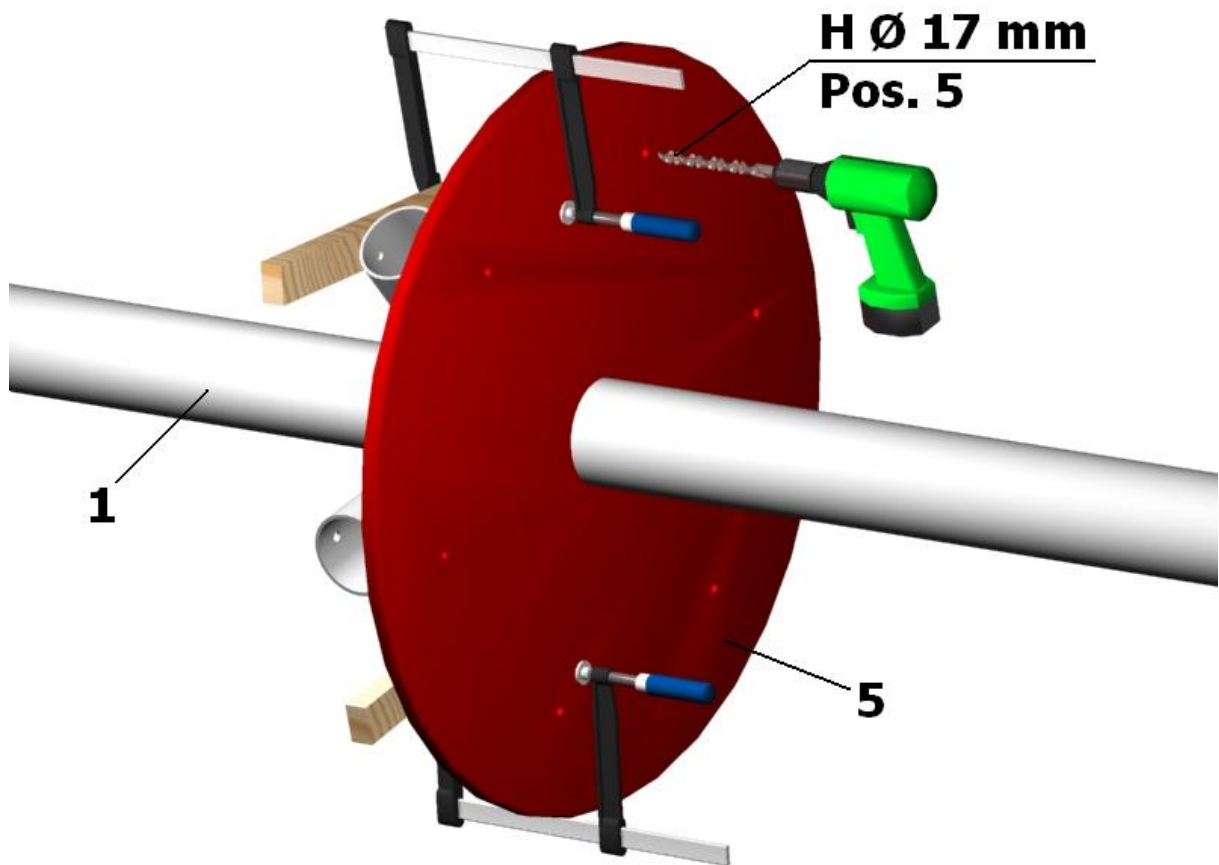


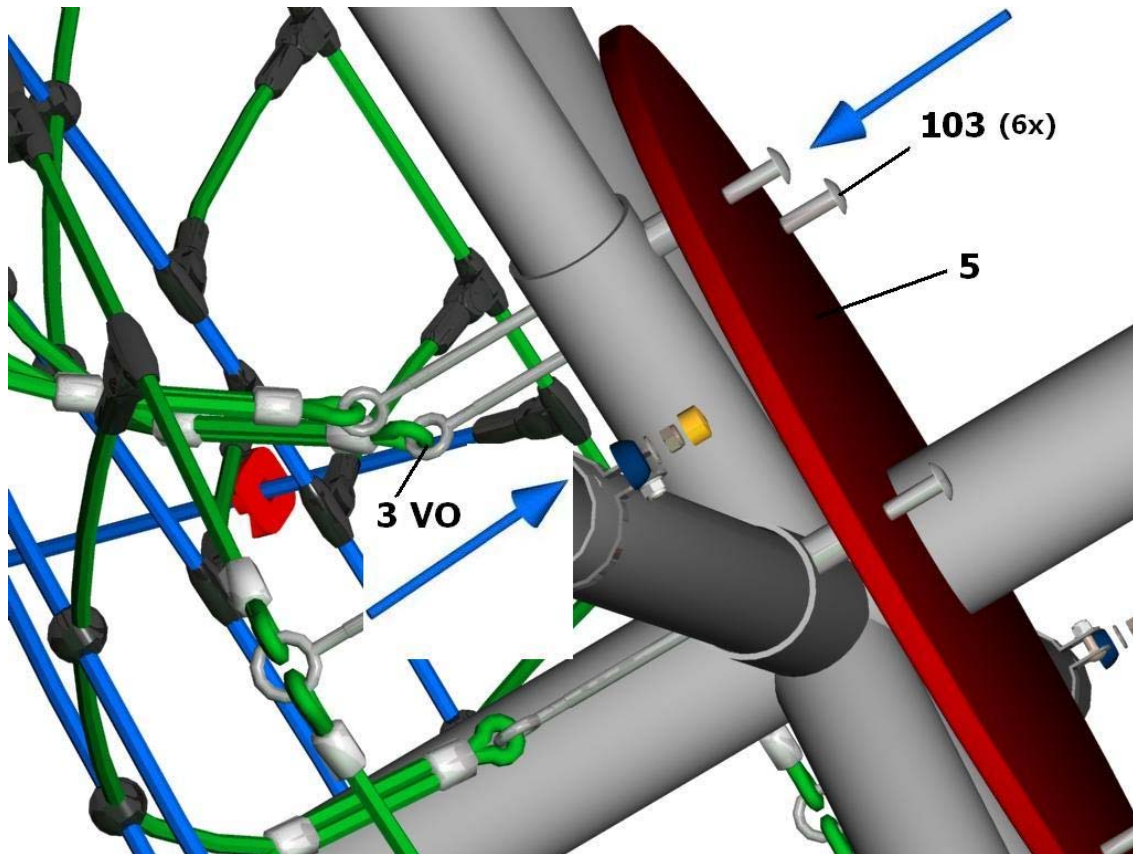
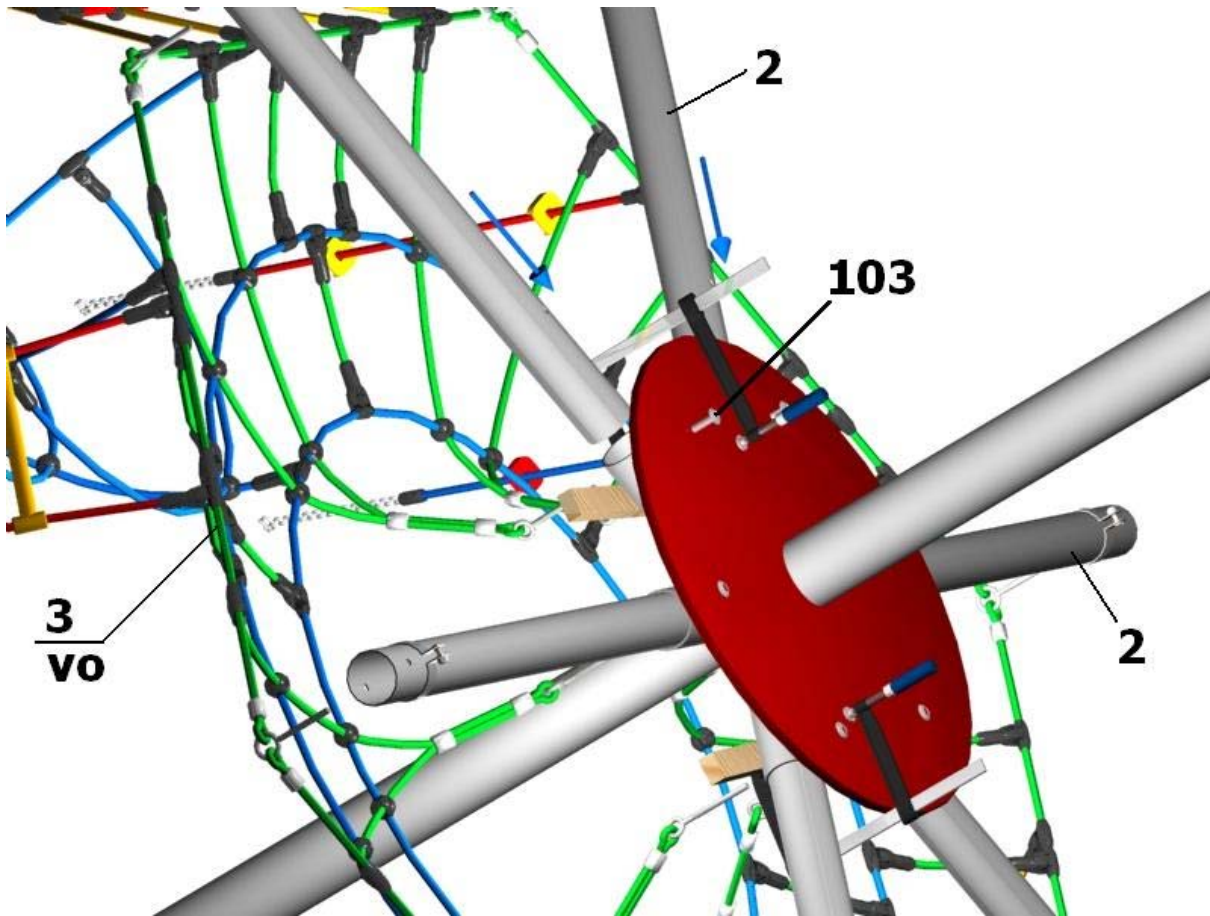


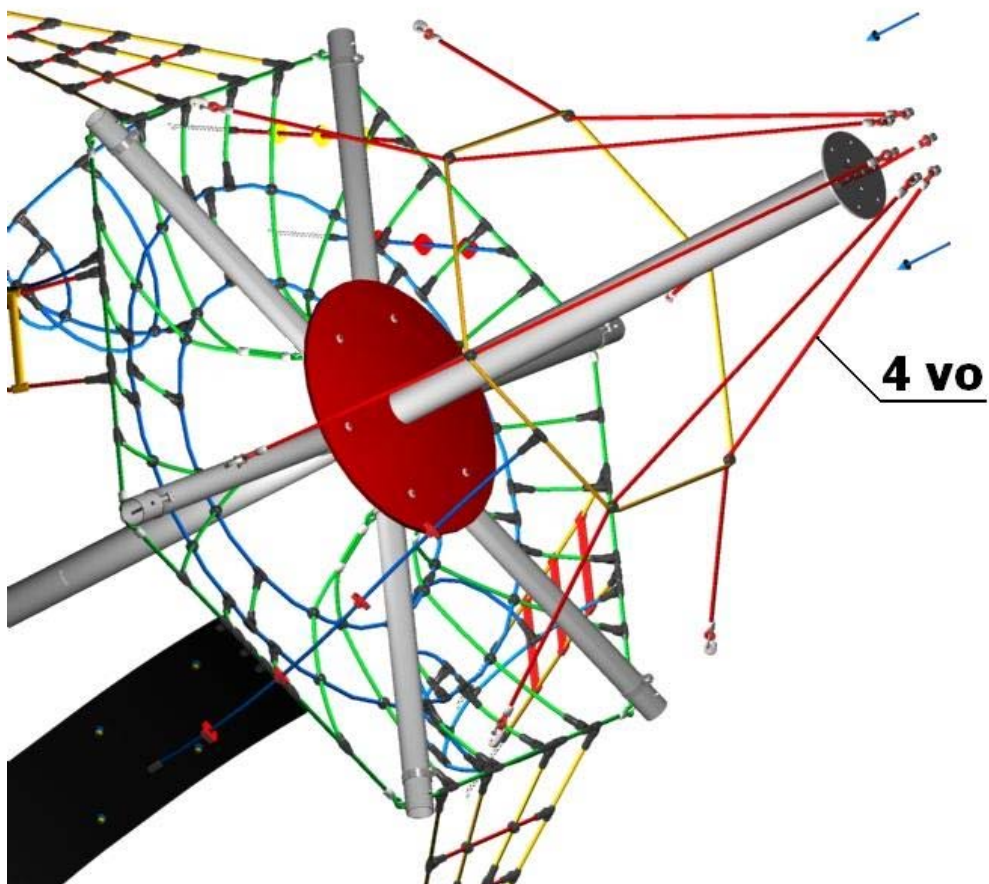
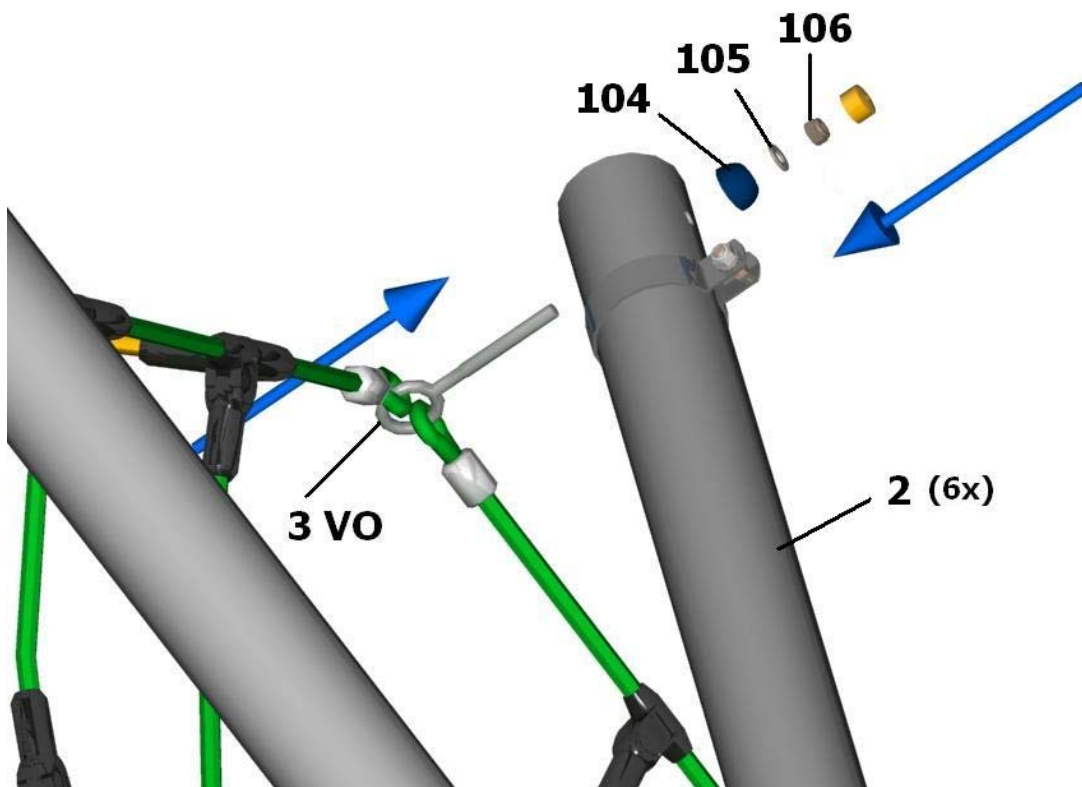




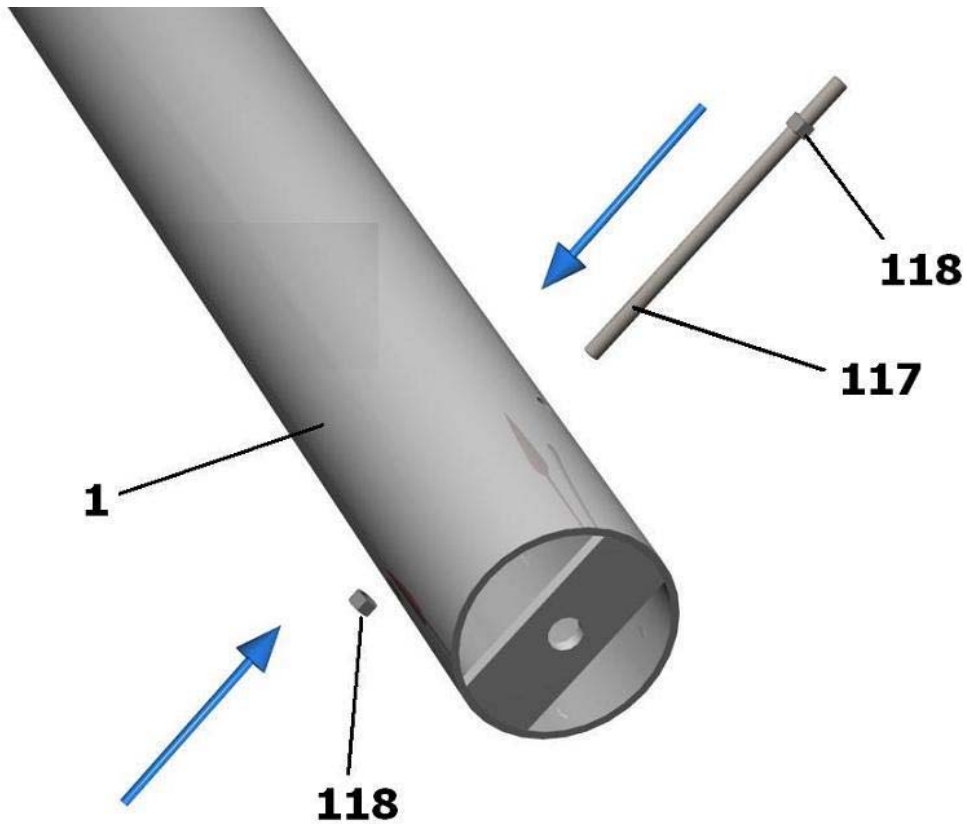
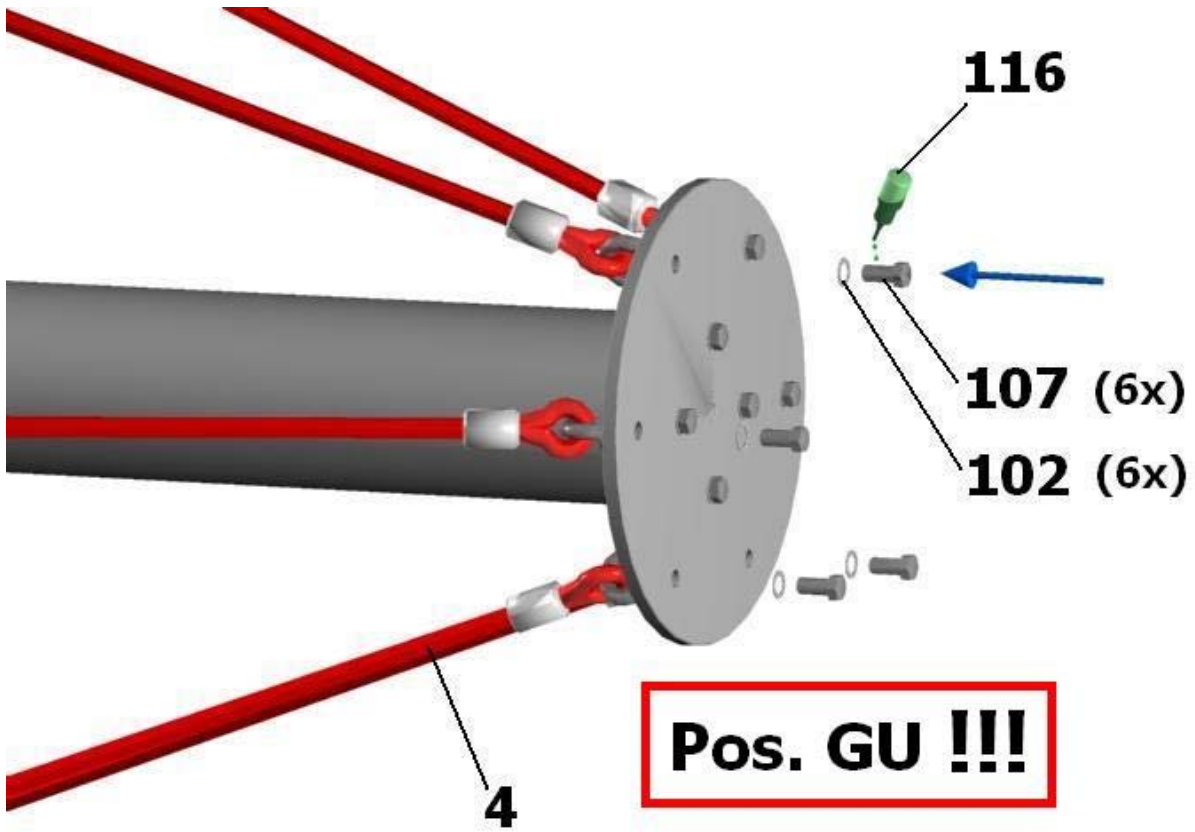


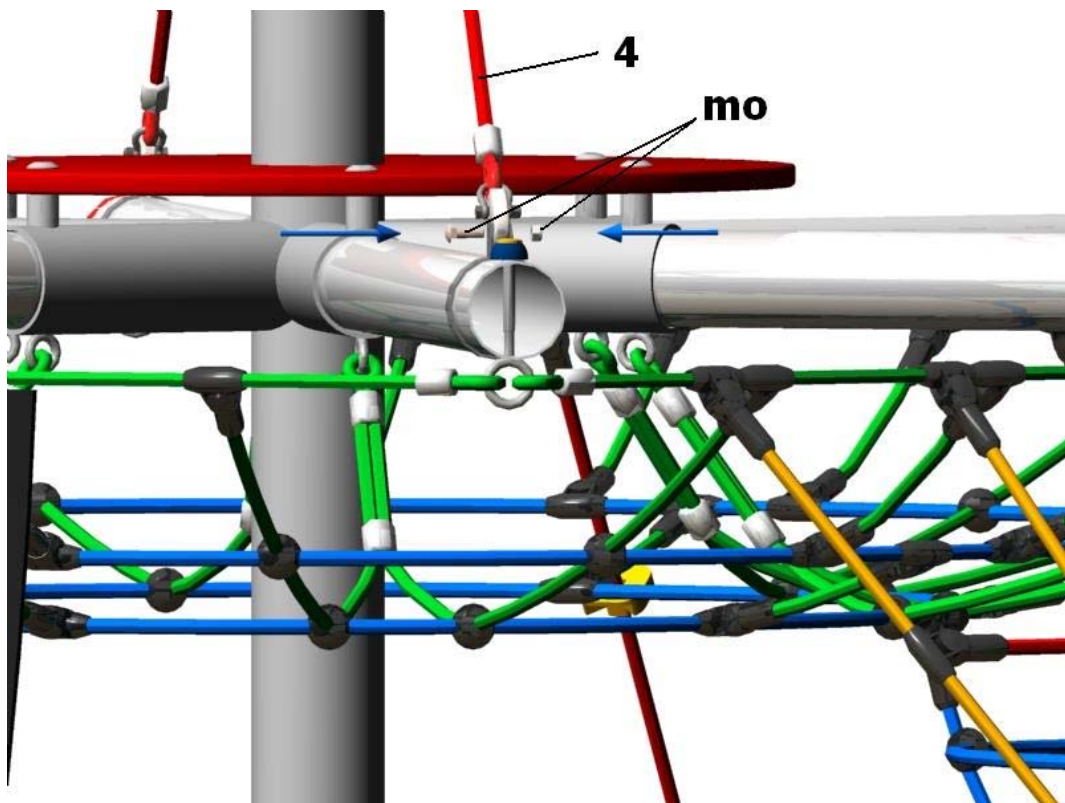
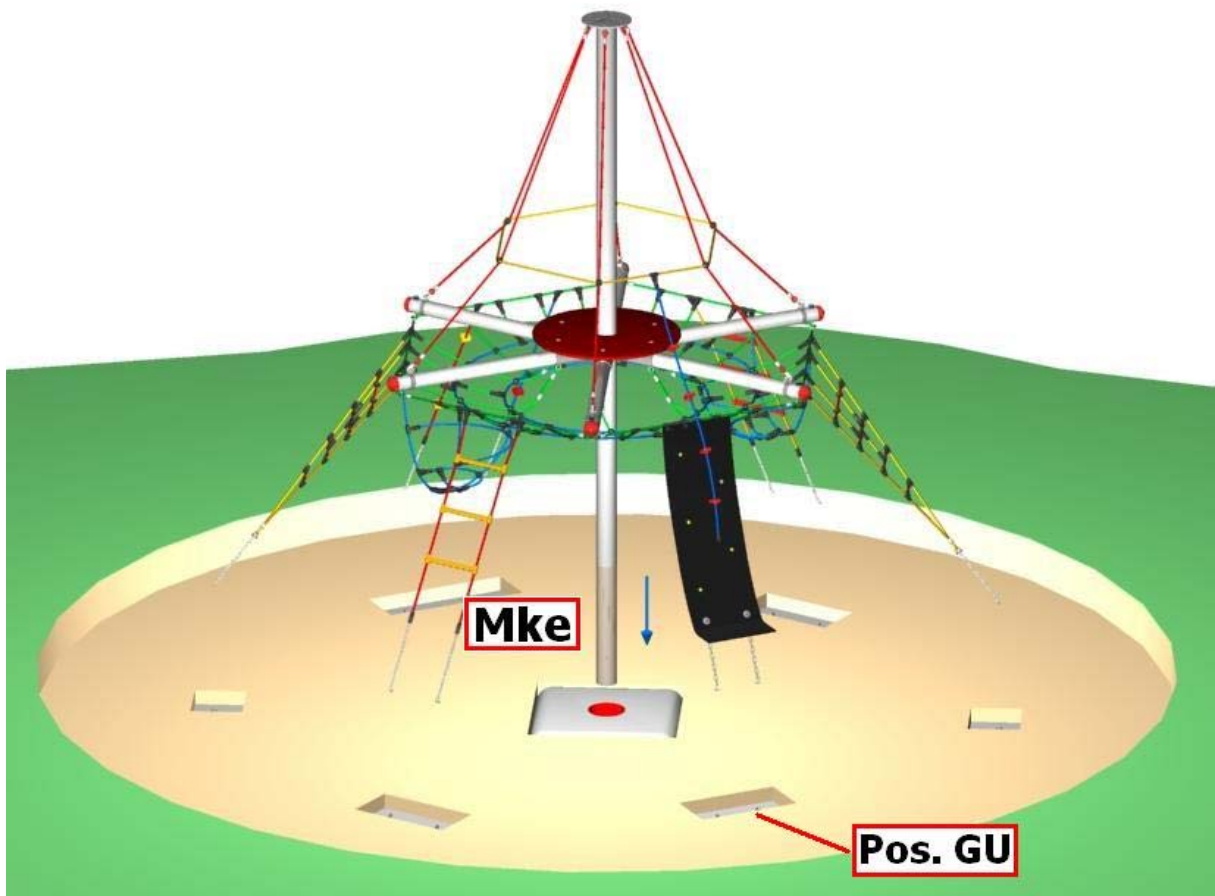


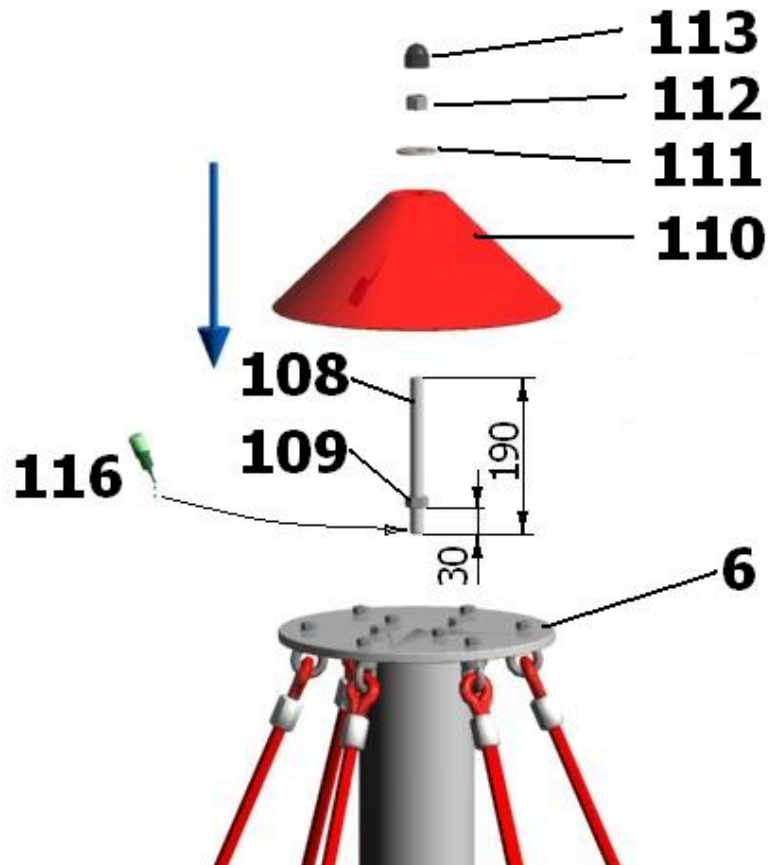
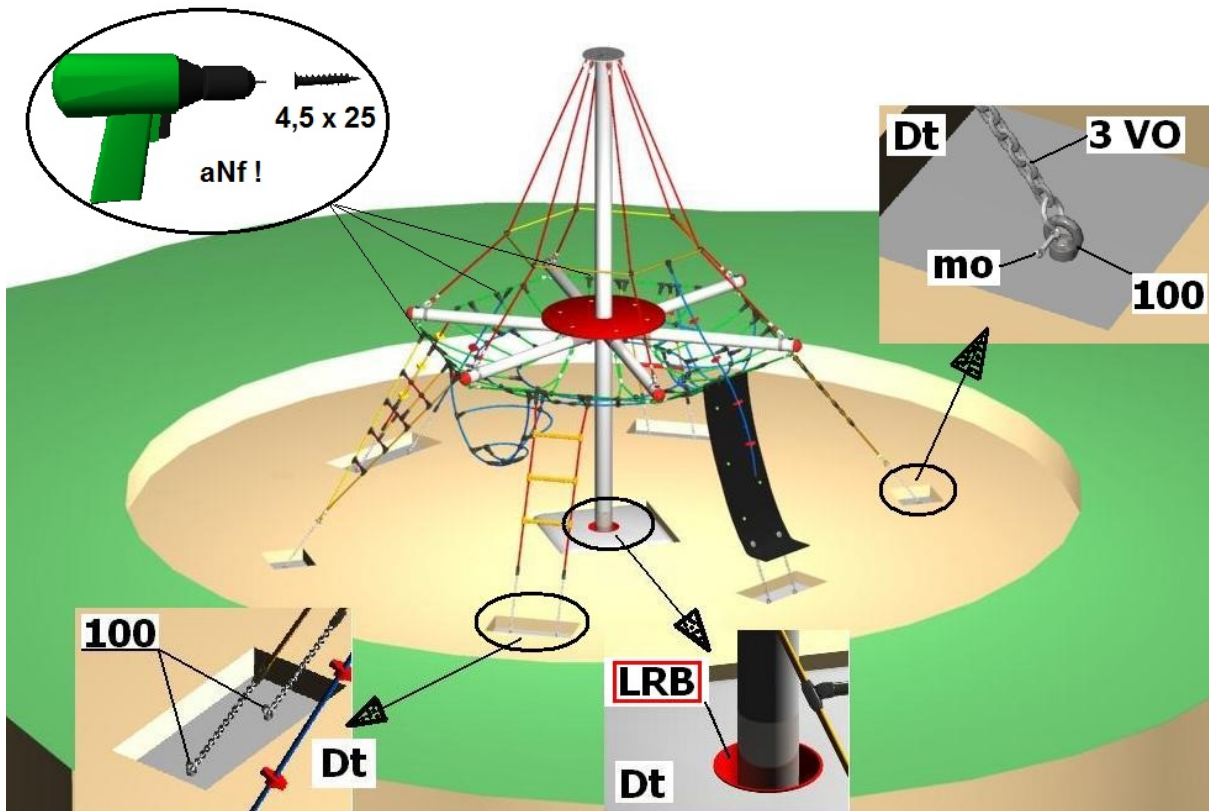


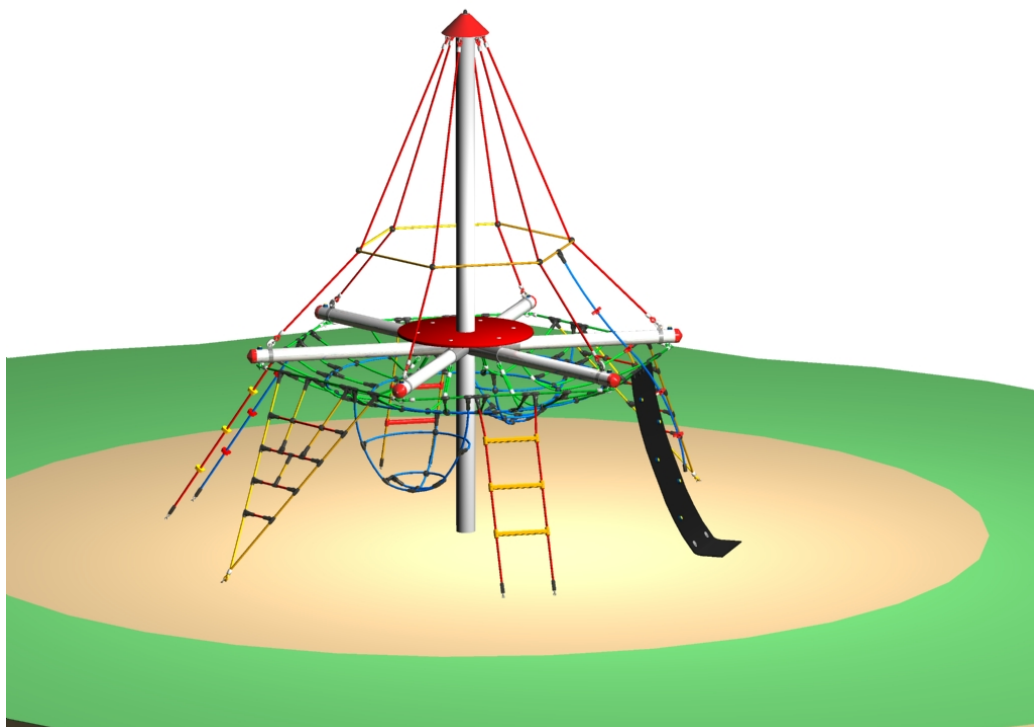
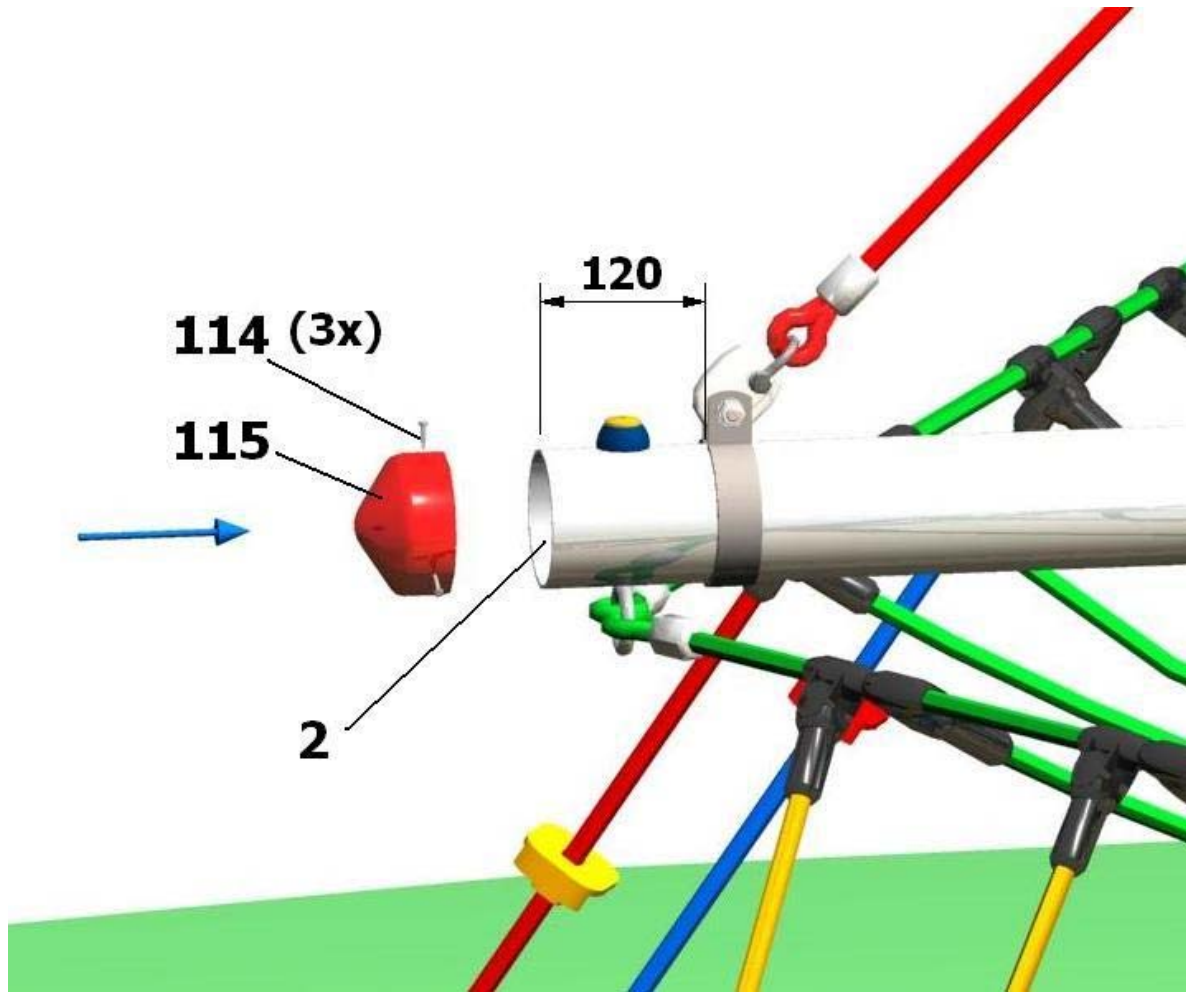












	“Mini” Pirate Tower (Stargazer)
<b>AB</b>	Setting time min. 4-5 days
<b>aNf !</b>	fix all nets with torx-screw 4,5 x 25 mm
<b>D</b>	Concrete C25/30 (for foundations) Q.ty required: 1.2 m <sup>3</sup>
<b>Dt</b>	Detail
<b>F</b>	Fall protection
<b>FR</b>	Foundation radius at least 10 cm
<b>G</b>	Drainage layer
<b>GN 3</b>	Lashed net part pos. 3
<b>KNR</b>	Drainage tube at site - <b>(to be provided by customer!!!)</b>
<b>H</b>	Ø ... (drill diameter)
<b>LRB</b>	Intermediate space (between duct and steel pole) to be filled in with <b>concrete!</b>
<b>MF</b>	Middle foundation
<b>MKe</b>	Insert steel pole into duct and <b>position vertically!</b>
<b>ML</b>	Pole length above play height
<b>mo</b>	Assemble
<b>O.K</b>	Top surface of playing area
<b>Pos. GU</b>	Position rubber belt
<b>PS</b>	Space required incl. safety area: ~46.5 m <sup>2</sup>
<b>vb H</b>	Pre-drill with Ø 8 mm drill (drill <b>carefully</b> through Pos. 5)
<b>VO</b>	Pre-assembled

**See drawings**



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## 5 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.

---

### 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.

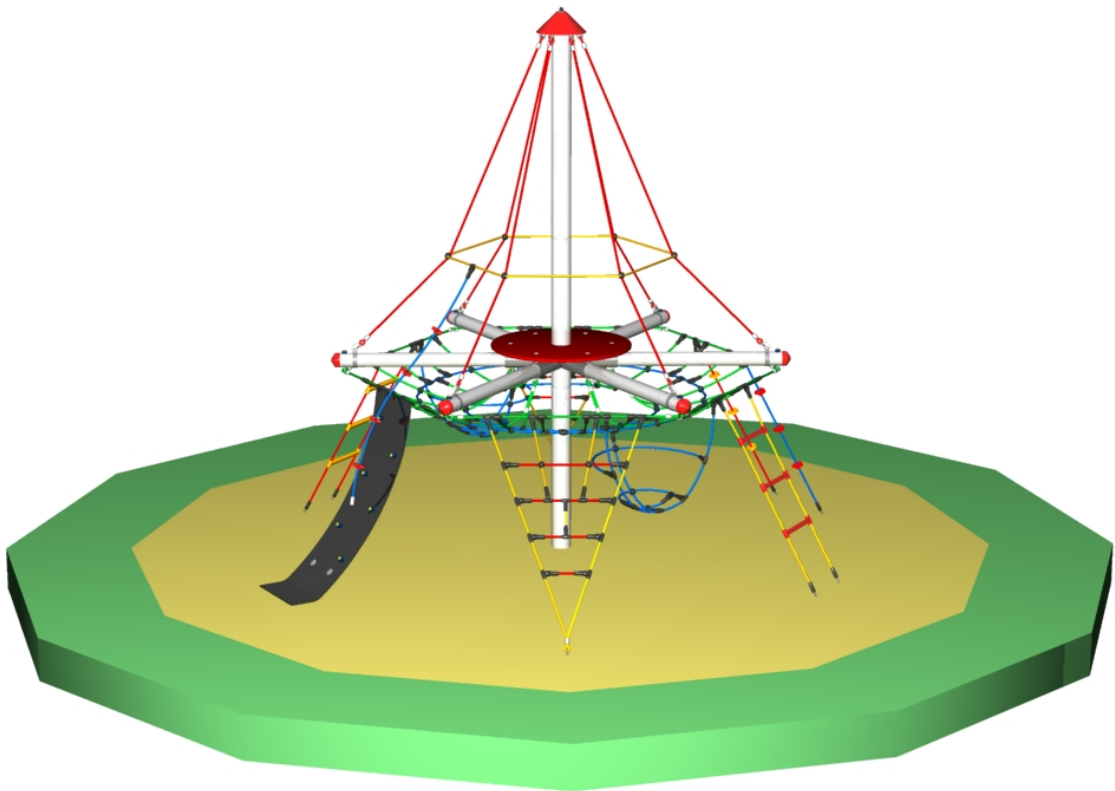


# A Maintenance instructions

## “Mini” Pirate tower

### Art. 4687-30

(set in concrete)



**Revision history**

Revision 0 – 2006-22-06

The first allowed version

Maiantanance instruction

Revision 3 – 2012-08-15

alle Netze fixieren FH

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## 6 Introduction Maintenance

### 6.1 General informations

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”.**

## **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.

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## 7.10 Faults

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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.

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## 7.11 Loose screws

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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 Specific maintenance advice

None

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## 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.

---



## 10 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.

## 11 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

## 12 Half yearly maintenance

- Stability (check posts, bracing, foundations, etc.).



# Annual Maintenance

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## 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.
- 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.



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

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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.: 4687-30

Type of item: "Mini" Pirate tower

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):**

---

---

Responsible assistant (assembler):

---

---

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

---

(Signature of operator)  
(Stamp)

(Signature of installation company)

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