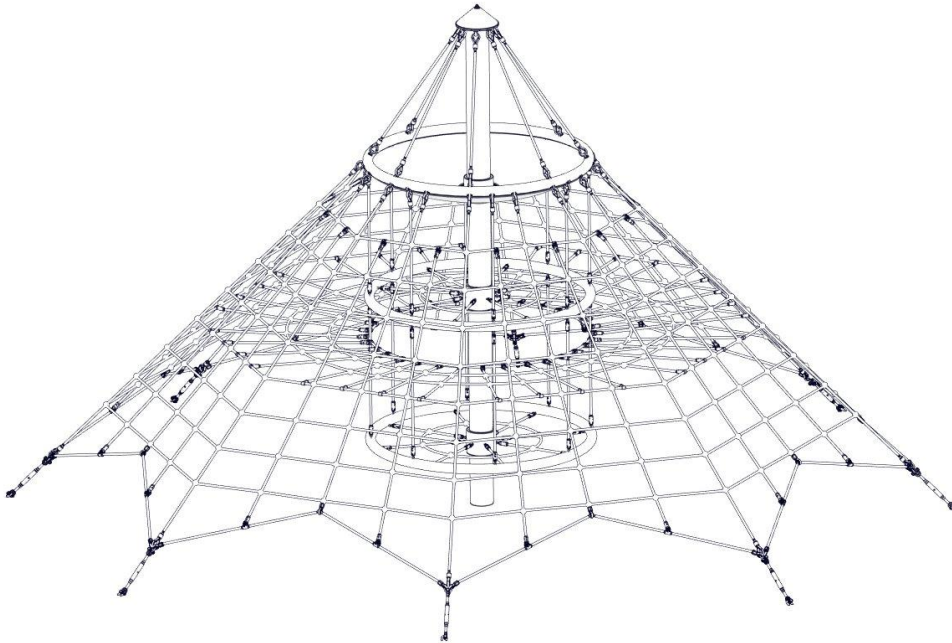

A Assembly Instructions

Dino II, Art.-Nr. 10.02.100

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



Operator: _____

Location: _____

Revision 0 – 2007-11-01
Erste freigegebene Version
Montageanleitung SP
Revision 12 – 2022-07-07
geschweifte Schäkel + Lamellenstopfen ZM
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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 1176-1:2017.

2 Data sheet Rope Net Pyramid, DINO 2, Article No. 10.02.100

- Component zone : Ø 7700 mm
 Safety zone: Ø 9500 mm
 Installation zone: 12,12 m
 Height of fall: 1500 mm
 Total ground height: 4400 mm
 Fall protection area: 71 m²

2. Required safety surface:

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

- Name and overall dimension of the largest item of equipment:
 Steel post (1 piece) length 5,30 m, ø 193 mm
- Name and weight of the heaviest item of equipment:
 Steel post (1 piece) 138 kg
- Designed for age group: from 6 years and older
- Attention! System with concrete foundation**
 Concrete: C25/30
 Foundation/Excavation:
 Top edge of concrete: 8 times 70 cm below ground level
1 time: 1.40 m long x 1.40 m wide, depth: 1.10 m incl.10 cm rubble drain bed
8 times:0.80 m long x 0.80 m wide, depth:1.10 m incl.10 cm rubble drain bed

7.



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%!

8. Required assembly time, once foundations complete:
approx. 7 - 8 hours. Required assistance: 2 – 3 persons.
9. Any spare parts which may be needed can be obtained directly from your supplier
- 10. We hereby confirm that this item of play equipment has been tested and certified in accordance with the play equipment standard EN 1176-1:2017.**

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.

3 Content, numbered bill of materials

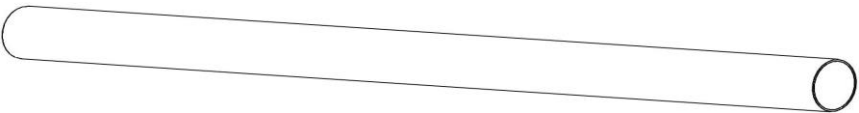
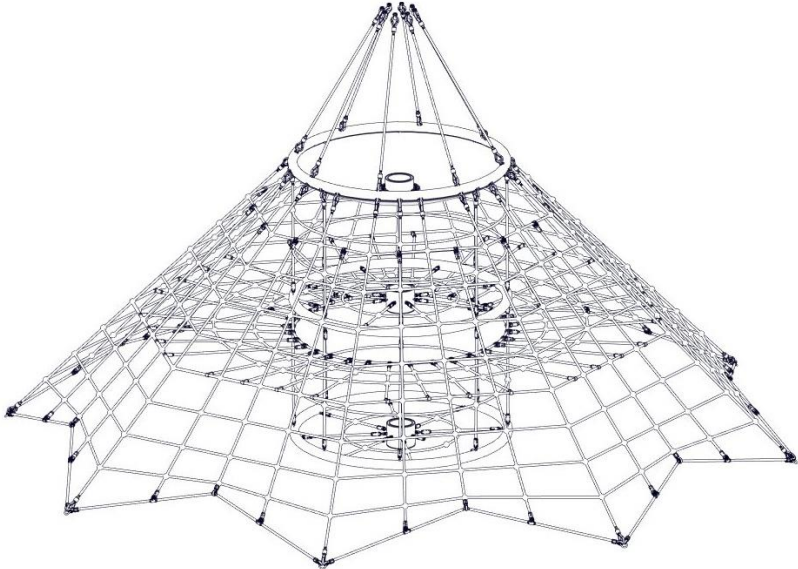
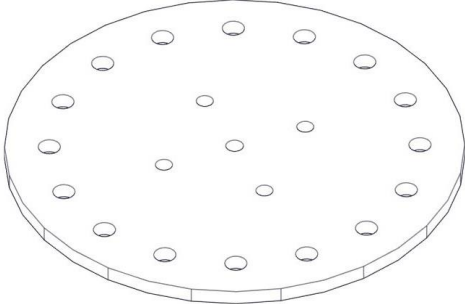
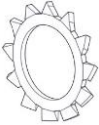

3.1 In words



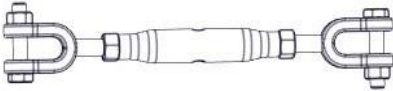

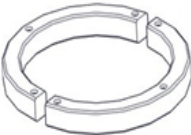

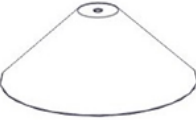

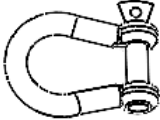
Schedule 3-1: Delivery content, numbered bill of materials









Pos.	Quantity	Element / Description	Size	O.K.	Mis-sing
1	1	Steel post	Ø 193,7 mm, 5,30 m lg.		
2	1	Playing part (pre-assembled)			
3	1	Mast plate, (galvanized)	Ø 360 mm		
100	4 4	hexagon bolt with tooth lock washer	- M 12 x 30 mm - für M12		
101	8	hexagon bolt (galvanized)	M16 x 30 mm		
102	8	Tooth lock washer (galvanized)	für M16		
103	8	Turnbuckle, (galvanized)	M16		
104	8	Anchor plate	13er chain, 1,80 m long		
105	5 (10 pieces)	anti-clamp ring (two-piece)	schwarz		
106	33	screws for anti-jam rings	4,5 x 60 mm		
107	1	sheet metal cover	Ø 375 mm		
108	1	Threaded rod	M16 x 165 mm long		
109	8	curved shackle	M6		
110	2	Loctite			
111	8	ground nail (galvanized)	~ 300 mm long		
112	1	concrete slab	500 x 500 mm		
114	1	Hexagon nut	M16		
114a	1	Stop nut	M16		
115	1	Cover cap (black)	für M16		
116	1	washer	für M16		
117	16	Lamellar plug			
	1	pipe Ø 400 mm	by the customer		


3.2 in Symbols

Schedule 3-2: Contents, numbered bill of materials

Pos.	Quantity	Symbol
1	1	 <p>Steel post Ø 193.7 mm, 5,30 m</p>
2	1	 <p>VO</p>
3	1	 <p>Ø 360 mm</p>
100	4	  <p>M16 M12 x 30 mm</p>

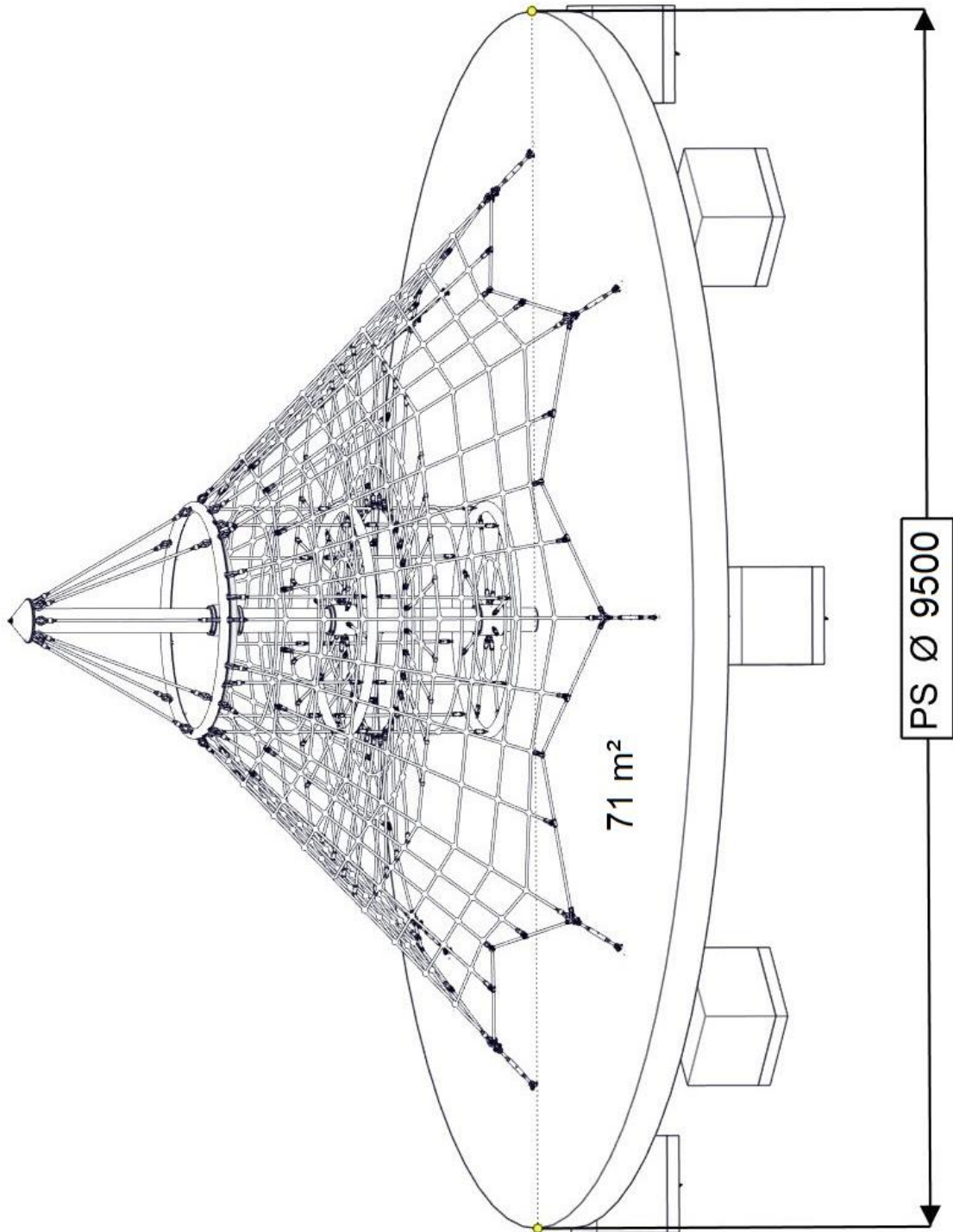
Pos.	Quantity	Symbol
101	8	 M16 x 30 mm
102	8	 for M16
103	8	 M16
104	8	 1,80 m, 13er
105	5	 Ø 237 mm
106	33	 4.5 x 60 mm
107	1	 Ø 375 mm
108	1	 M16 x 165 mm
109	8	 Curved Shackle M6

Pos.	Quantity	Symbol
110	2	 Loctite
111	8	 Anchor (plastic) 300 mm
112	1	 500 x 500 mm
114	1	 M16
114a	1	 M16
115	1	 for M16
116	1	 for M16
117	16	 Lamellar plug

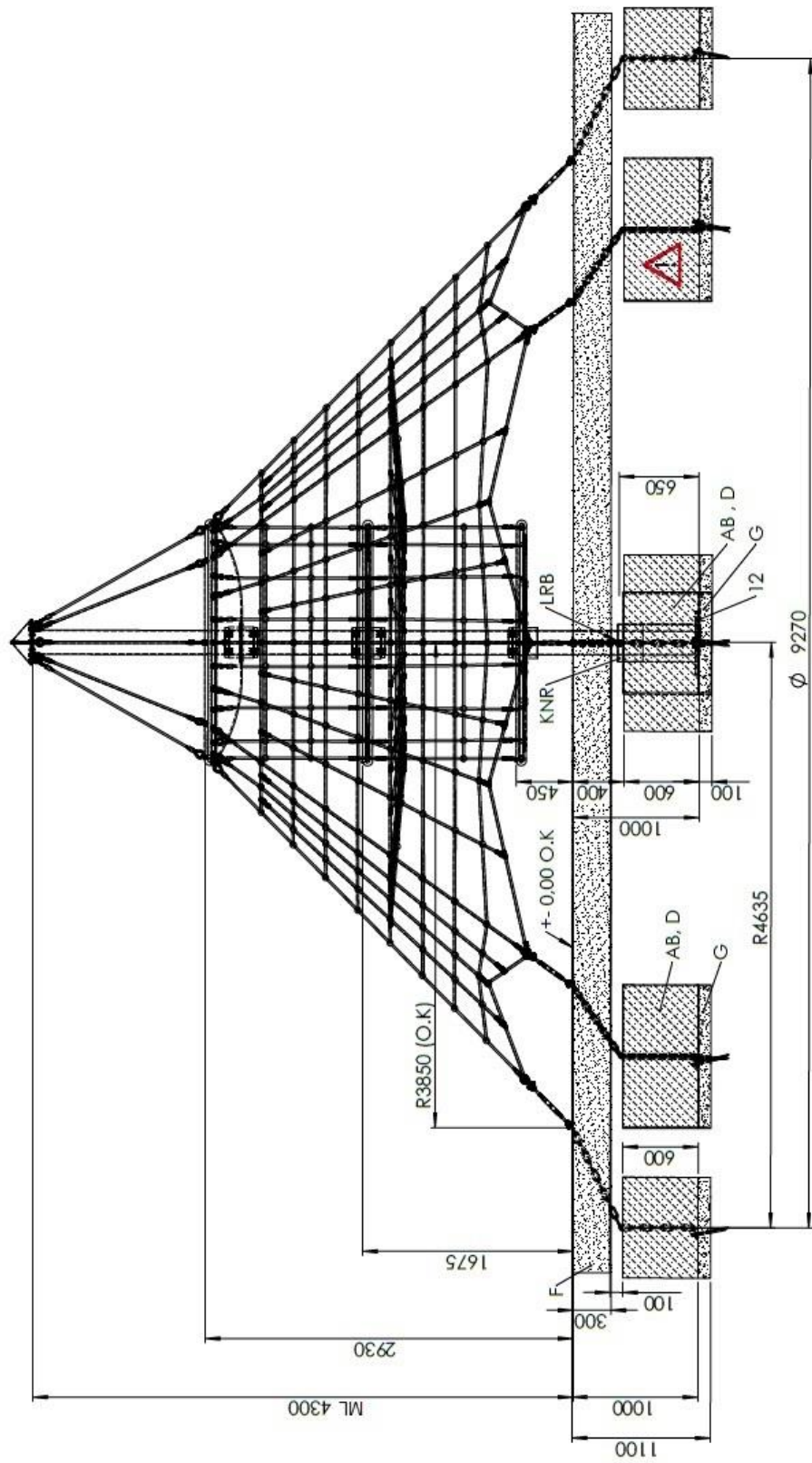
	<u>Explanations of abbreviations and signs:</u>
AB	The legally prescribed setting time must be observed
ASK	Anchor chains
B	Cross bar provided by the customer to fix the anchor chain during concreting
D	Concrete C25/30
F	Fall protection
G	Drainage layer
Ho.A	Wood adapter in the network (see also PN)
LRB	Fill the gap (between empty pipe and steel pole) with liquid concrete!
O.K	Upper edge of play level
O.K.F.	Top edge foundation
PN!!	Place the "package" power pack (tied with wooden adapter Ho.A) centrally over the duct pipe, carefully remove the wooden adapter and then insert the mast Pos. 1 centrally into the duct pipe.
Verp.	Open the packaging strings
N.Sp.anh.!!	Lift the pre-assembled network or play part with a sufficiently large lifting device (e.g. excavator) for assembly.
PS	Space requirement incl. safety area (71 m ²)
STM !!	Note the position of the ring nut!
1 – 4 kV	Tensioning cables must be tensioned crosswise!
ML	Mast length above playing level!
MF	Middle foundation
VO	pre-assembled
KNR	KNR - Empty pipe (e.g. concrete sewer pipe or PVC Ø 400 mm / 0.65 m long / by the customer
	<p><u>Top edges of concrete rounded! Foundation dimensions apply to normal soil classes 4-5 (grown soil).</u></p> <p><u>Soil class 4: Light to medium plasticity, interconnected, with low stone content (proportion < 30 % above a diameter of 63 mm grain size).</u></p> <p><u>Soil class 5: Soils of soil classes 3 and 4 with a large proportion of stones (proportion > 30 % above a diameter of 63 mm grain size).</u></p> <p><u>For safety reasons, the foundations of sandy, soft soils should be at least 50% larger in area.</u></p> <p><u>Translated with www.DeepL.com/Translator (free version)</u></p>
M.Lot !!	Make sure to set up the mast/post perpendicularly!

See drawings for details of shortcuts

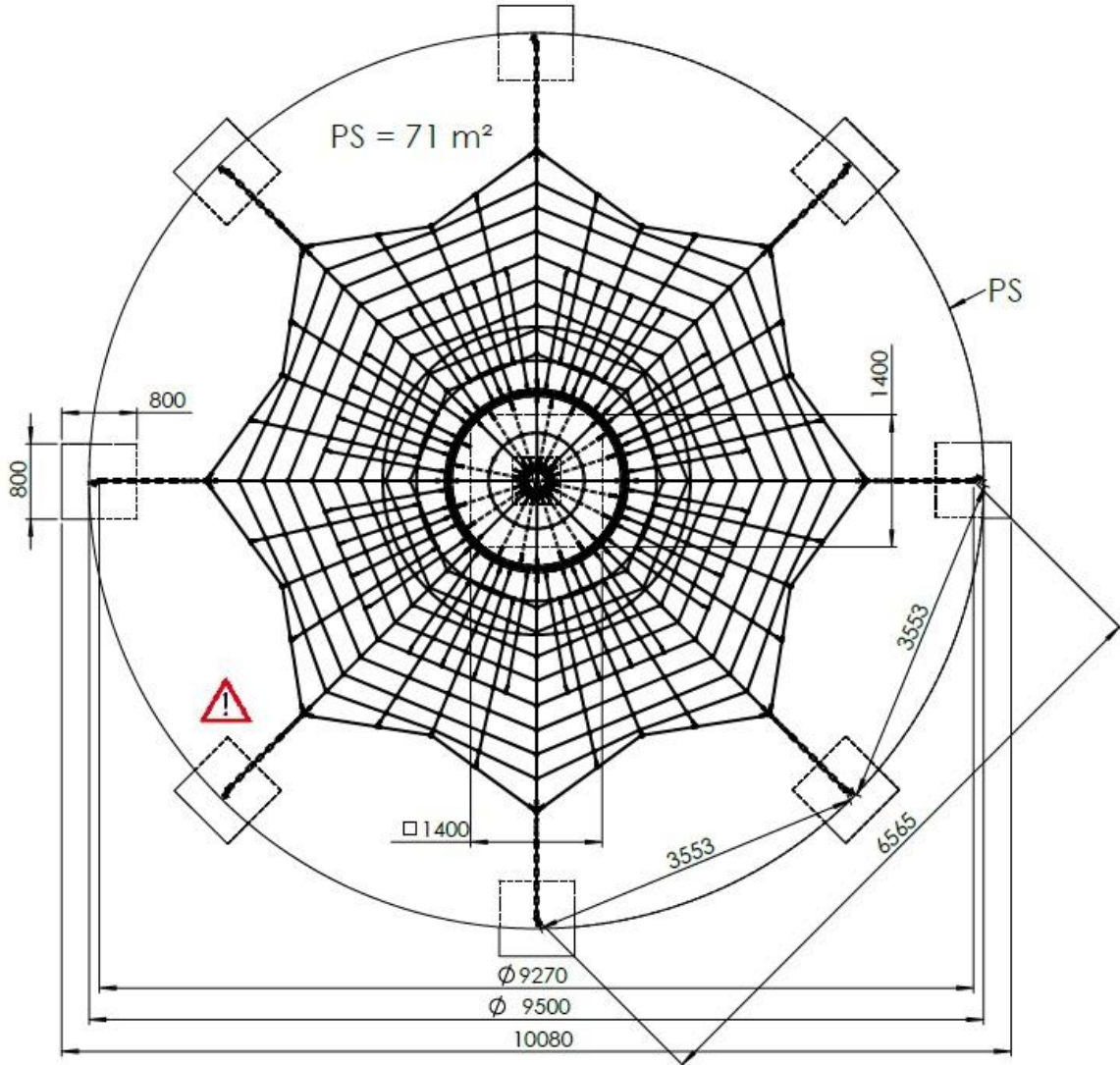
4 Installation instruction



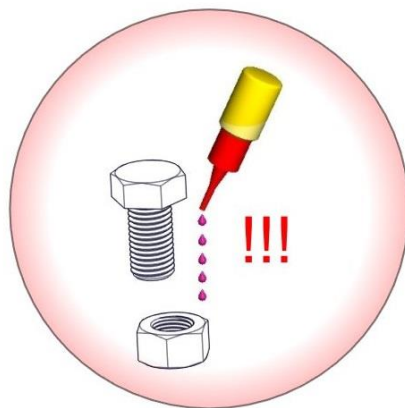
Front view



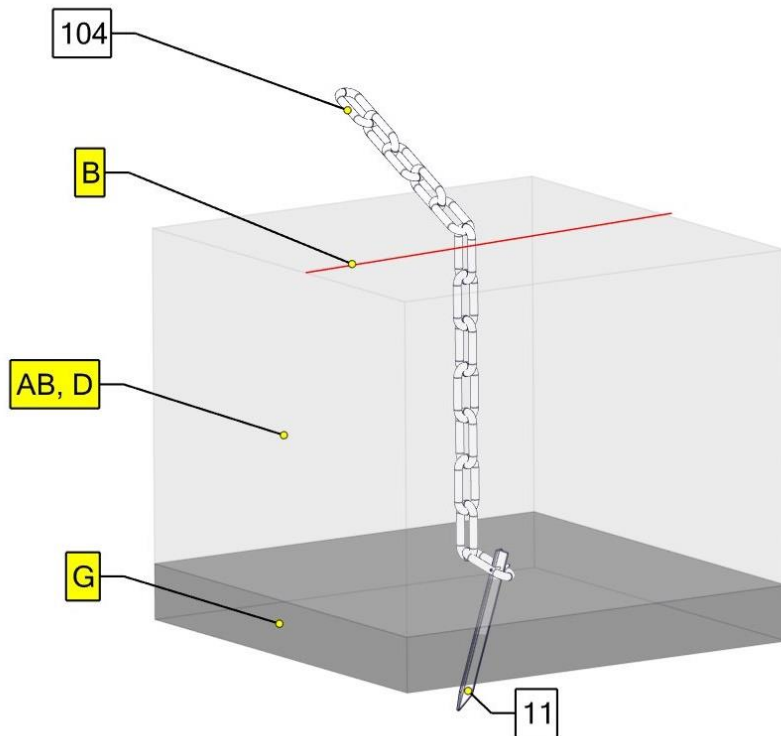
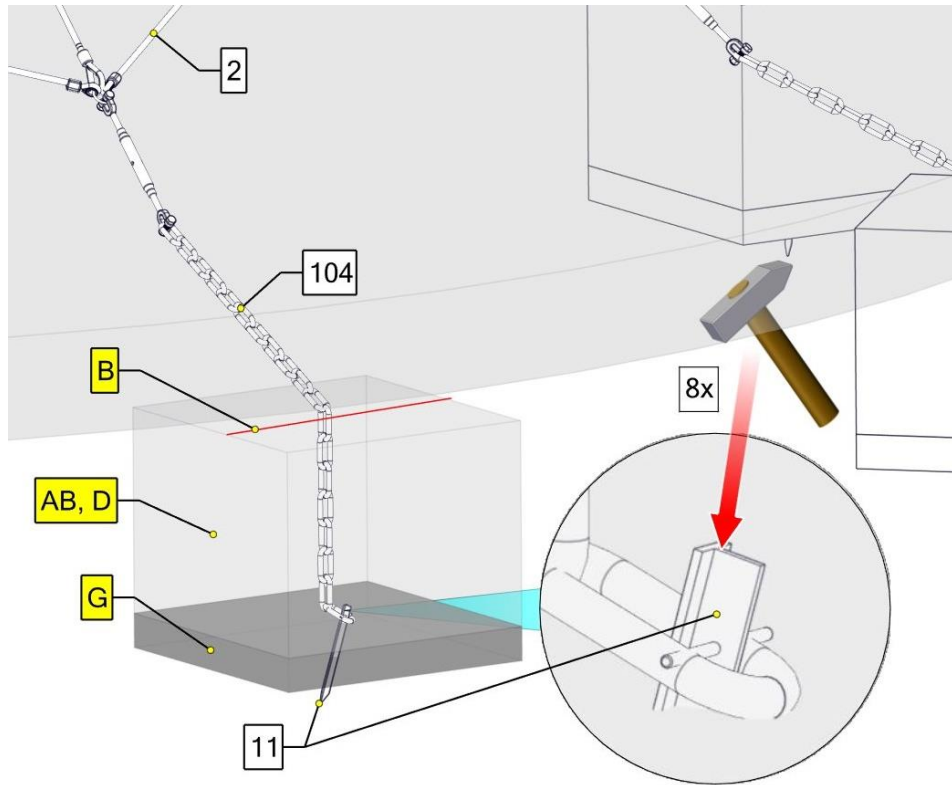
Top view

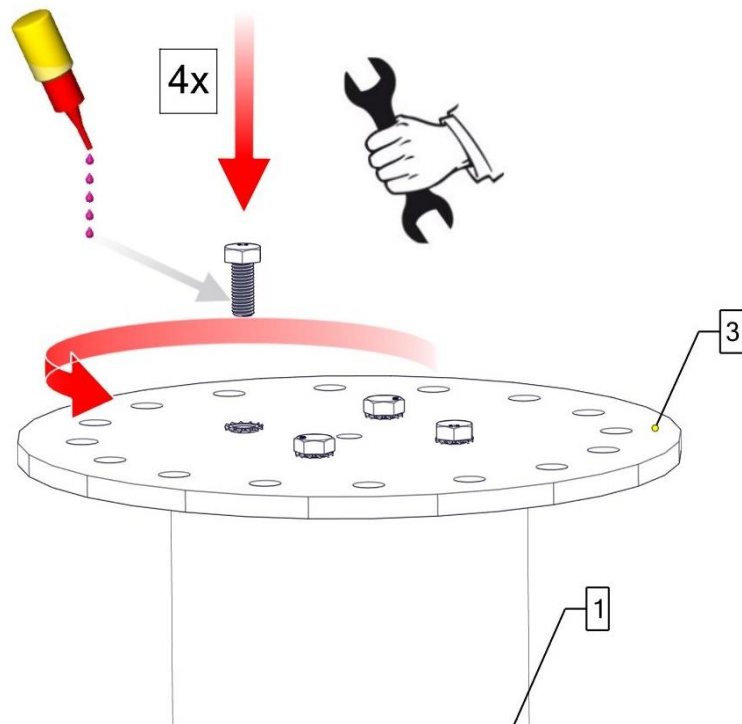
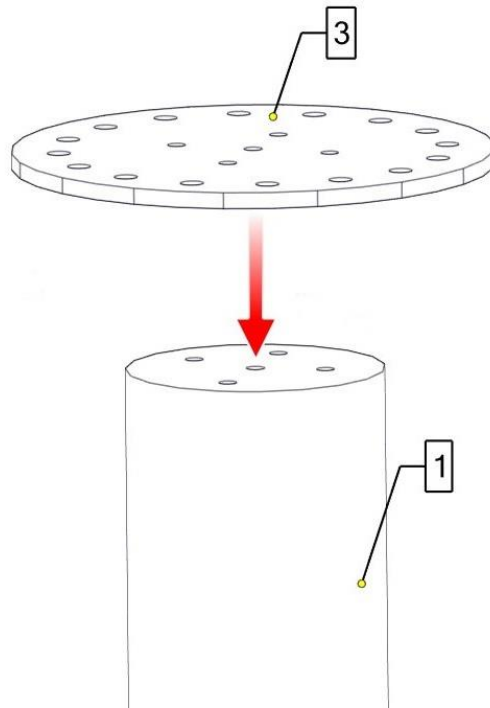


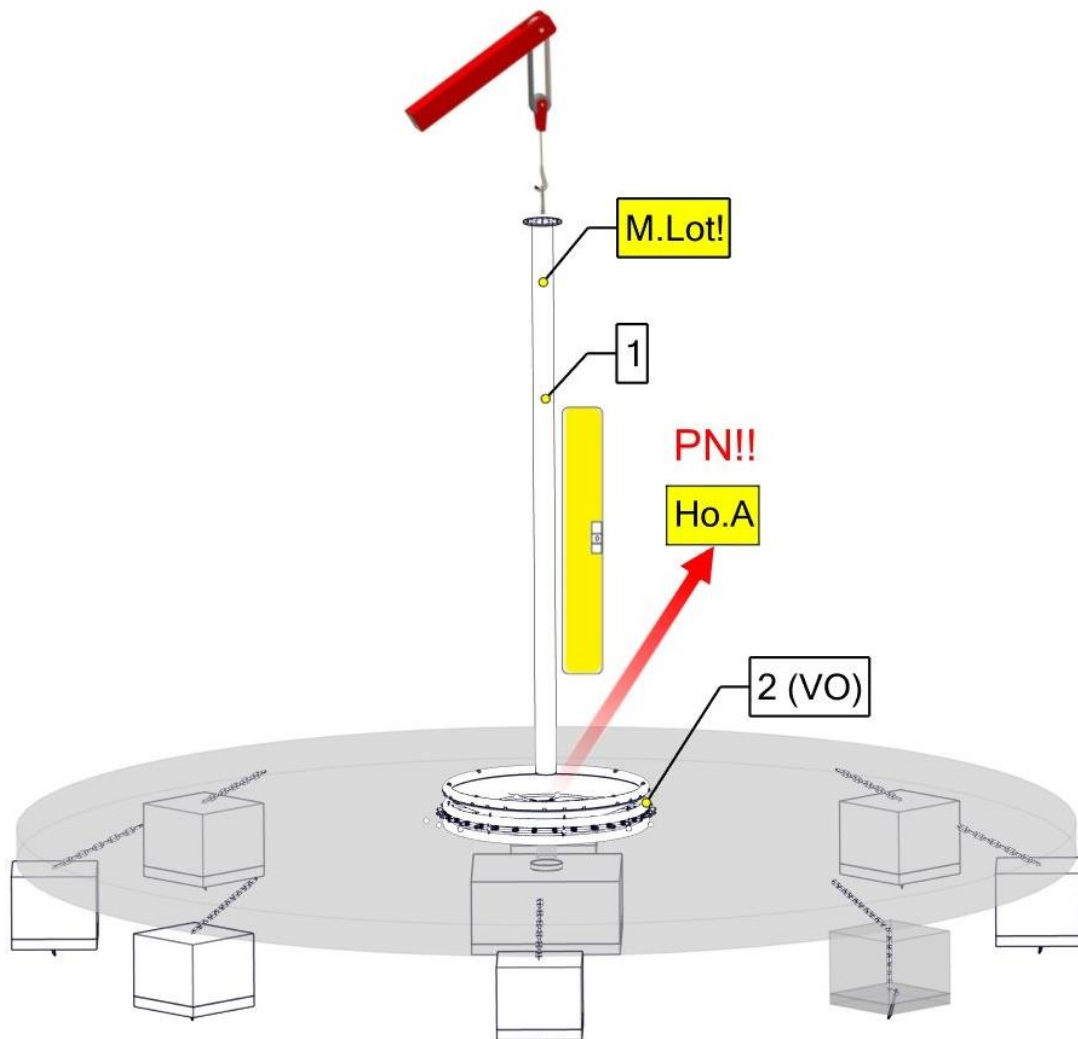
Screw lock!

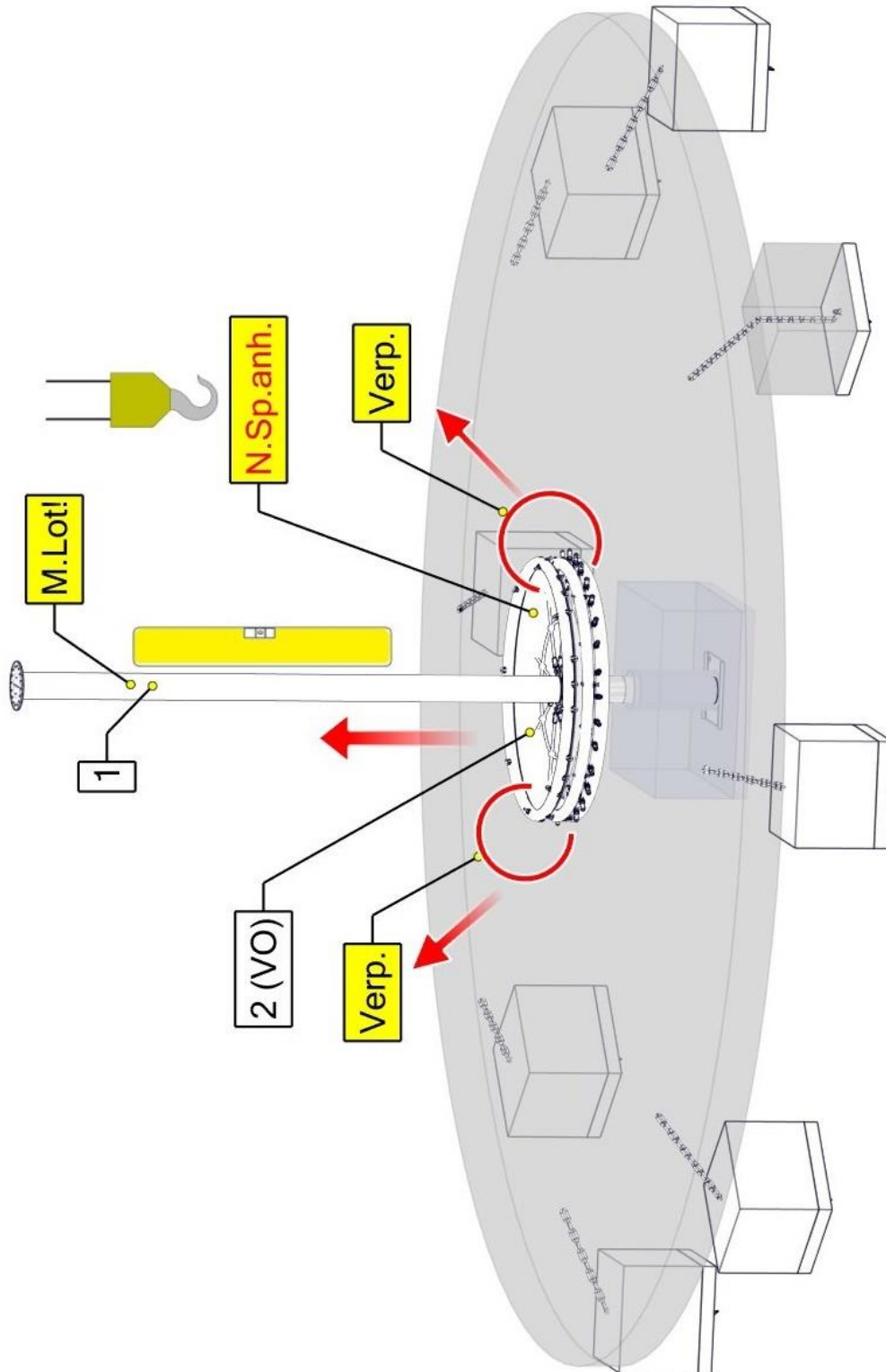


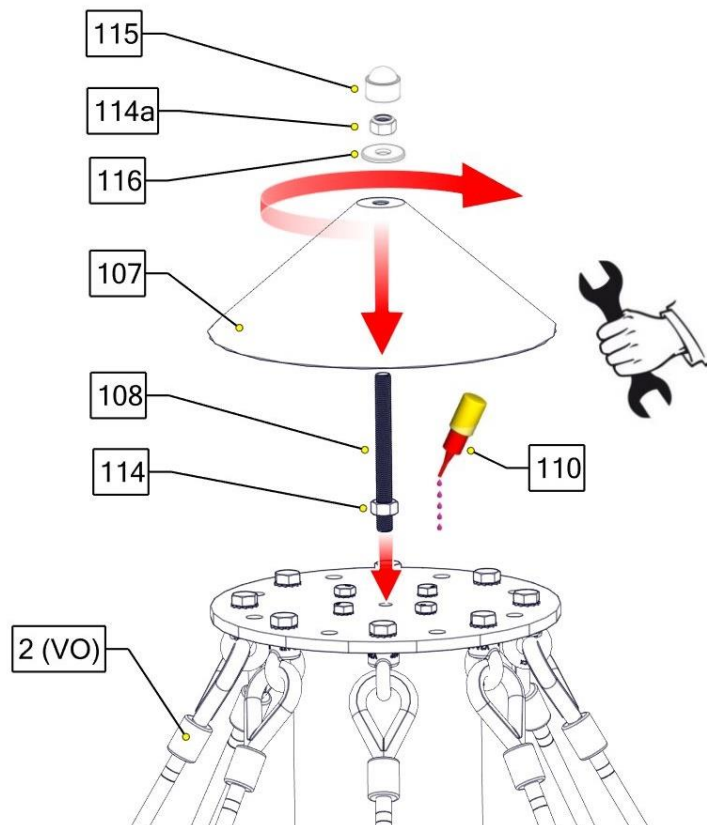
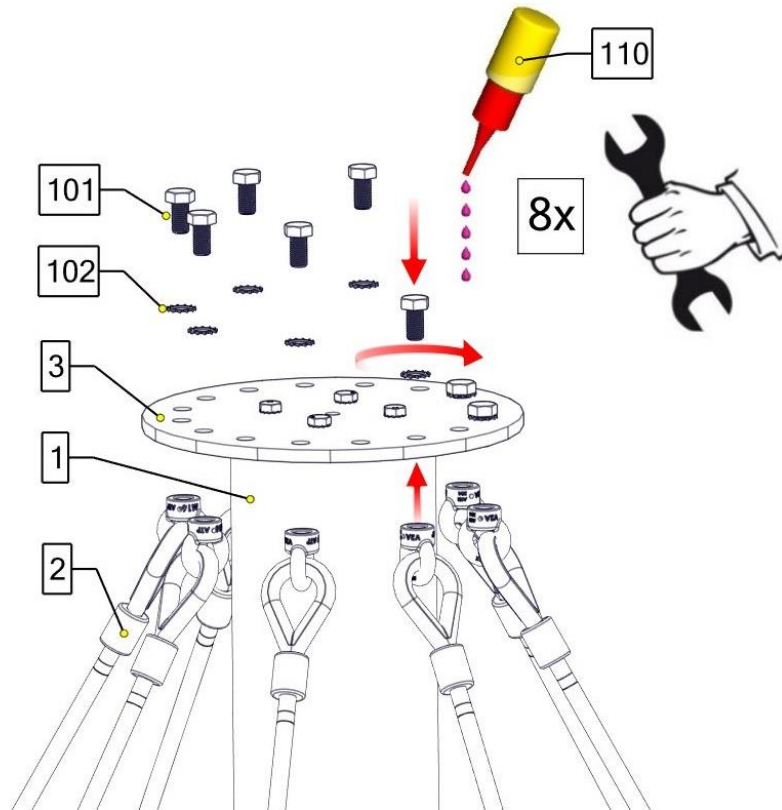
**All screws, nuts and sleeves
must be secured with Loctite
(except stop nuts)
(e.g. Torx sleeves M12 x 40 with at least 5 drops).**

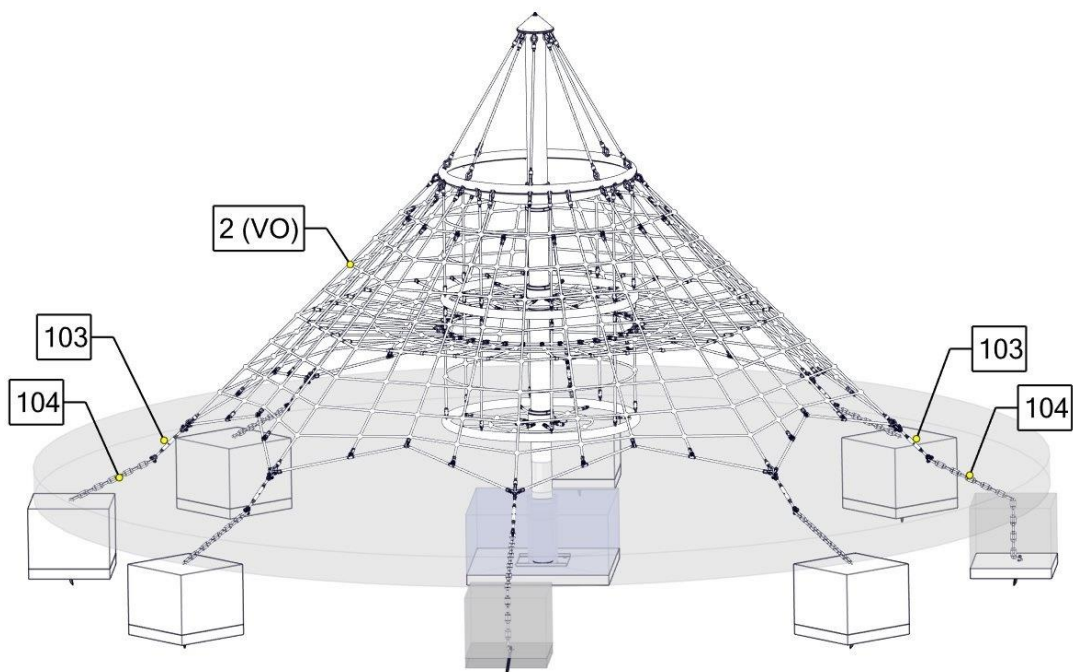
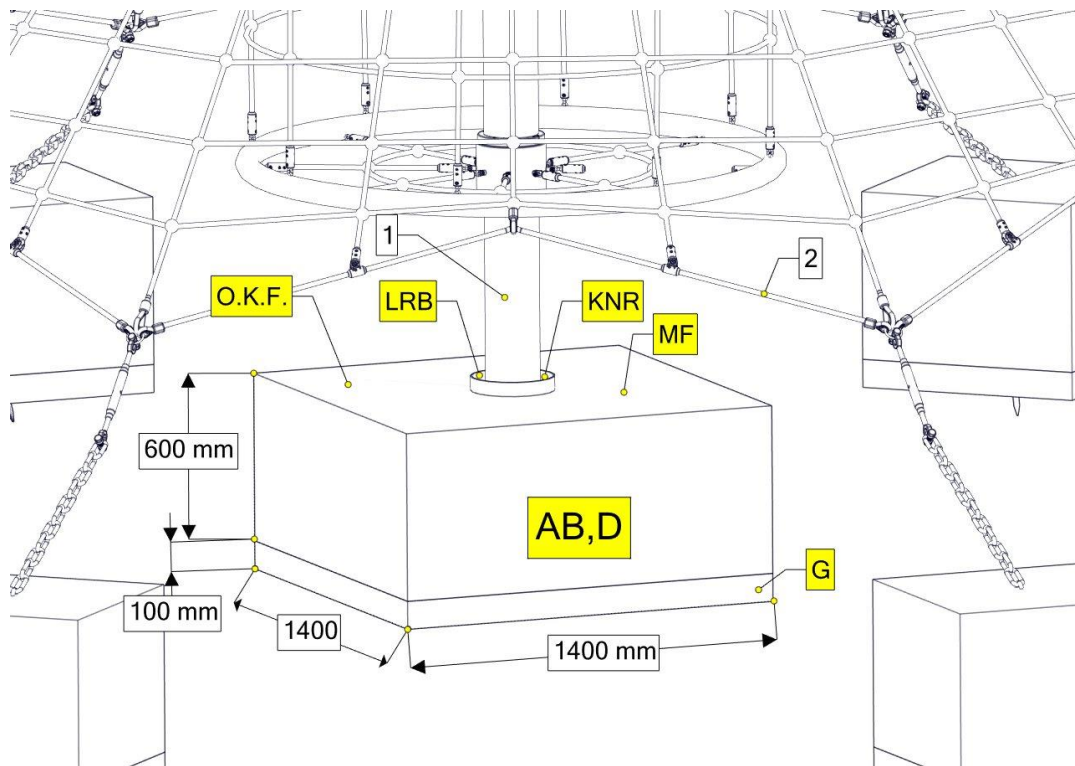


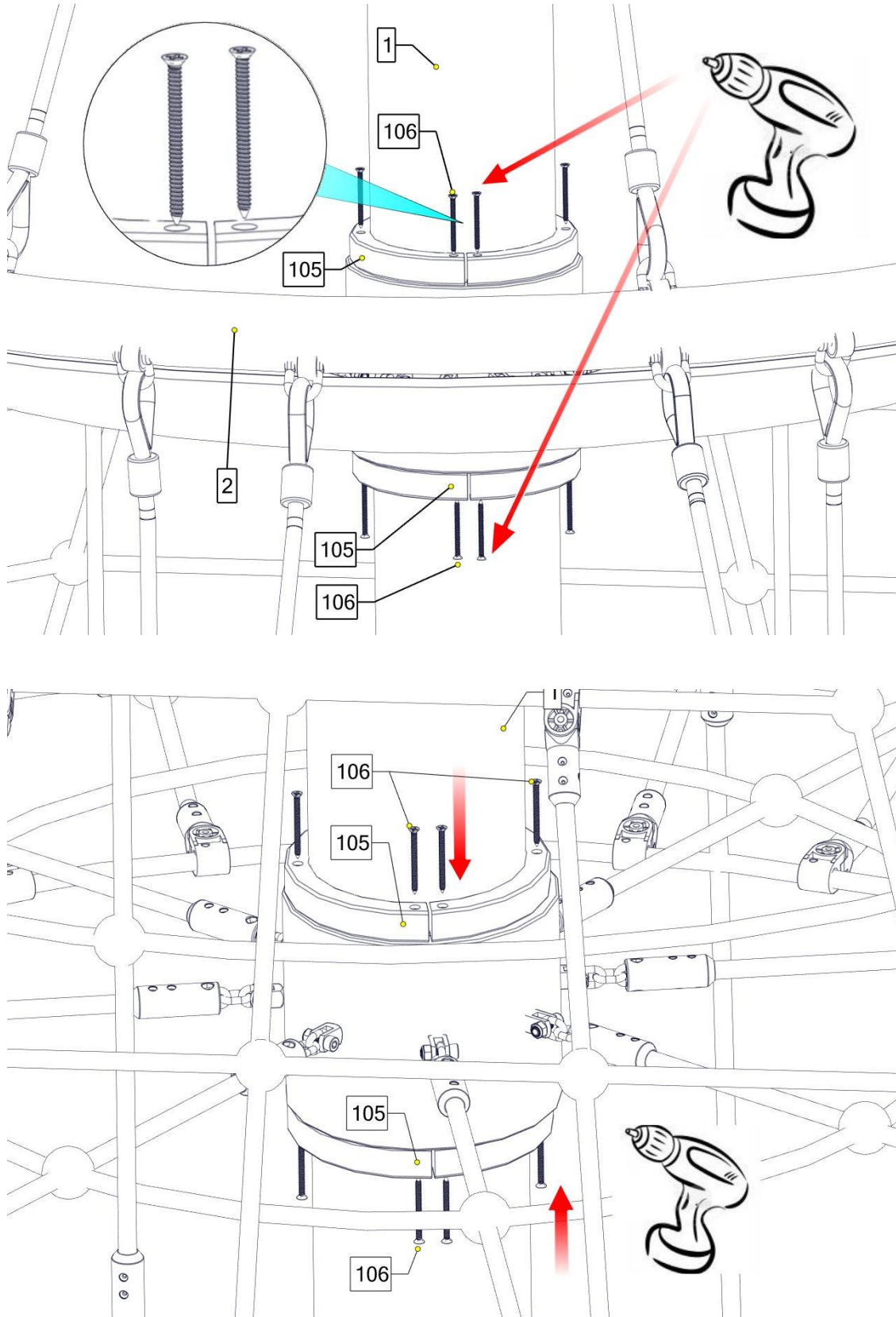


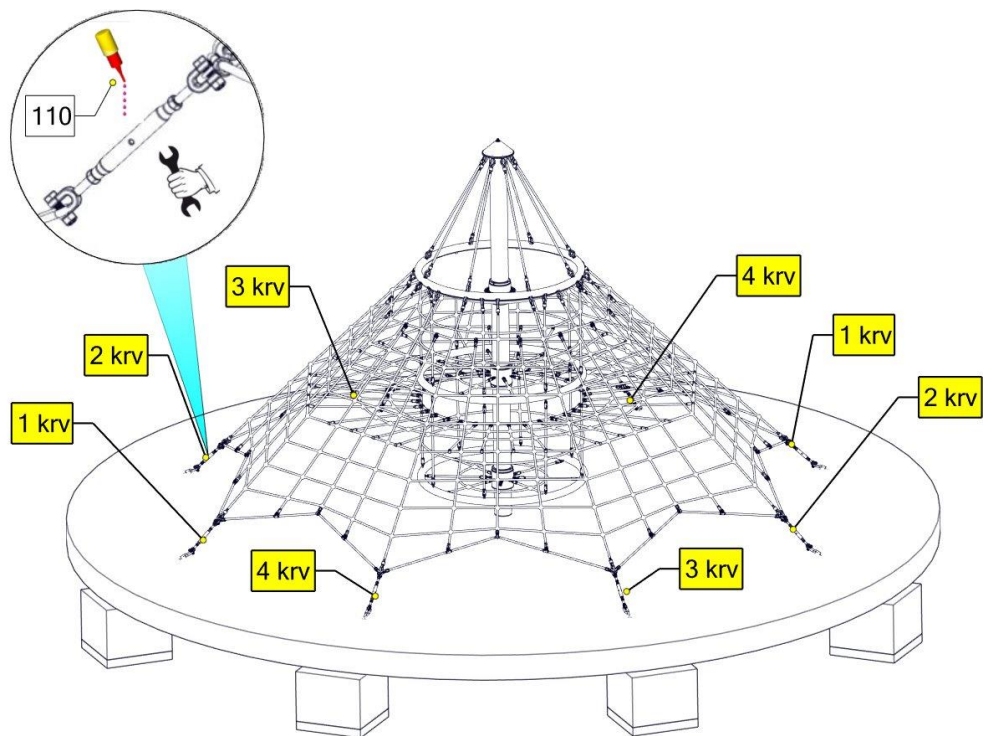
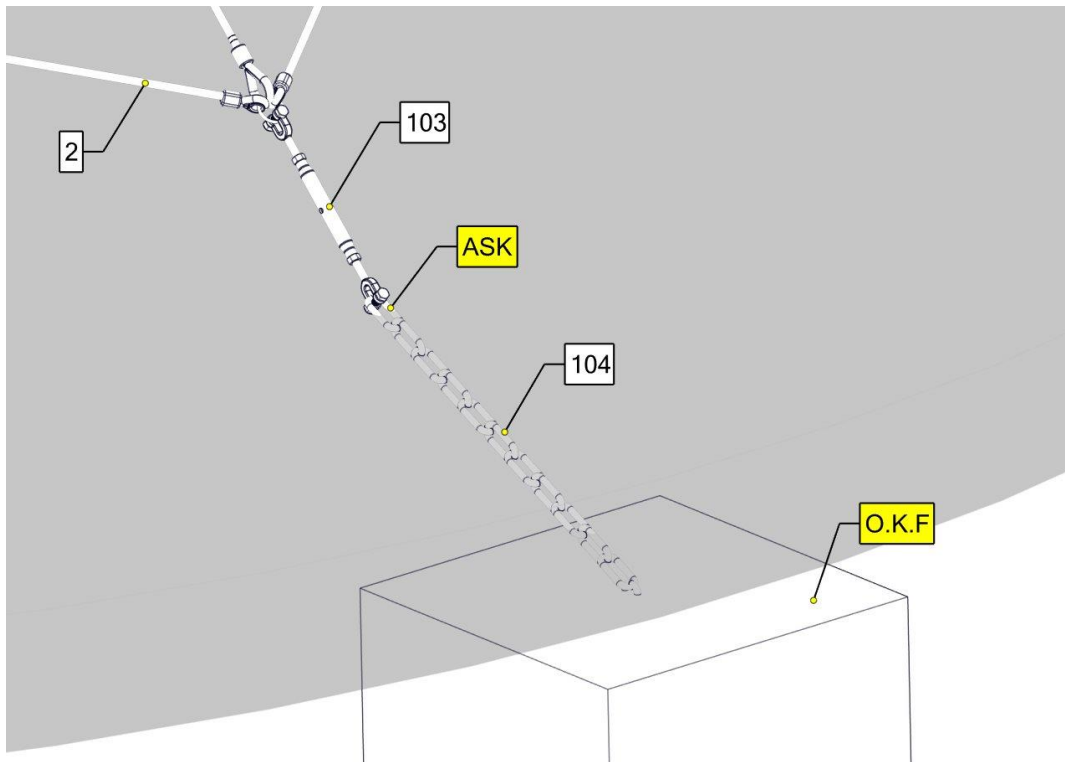


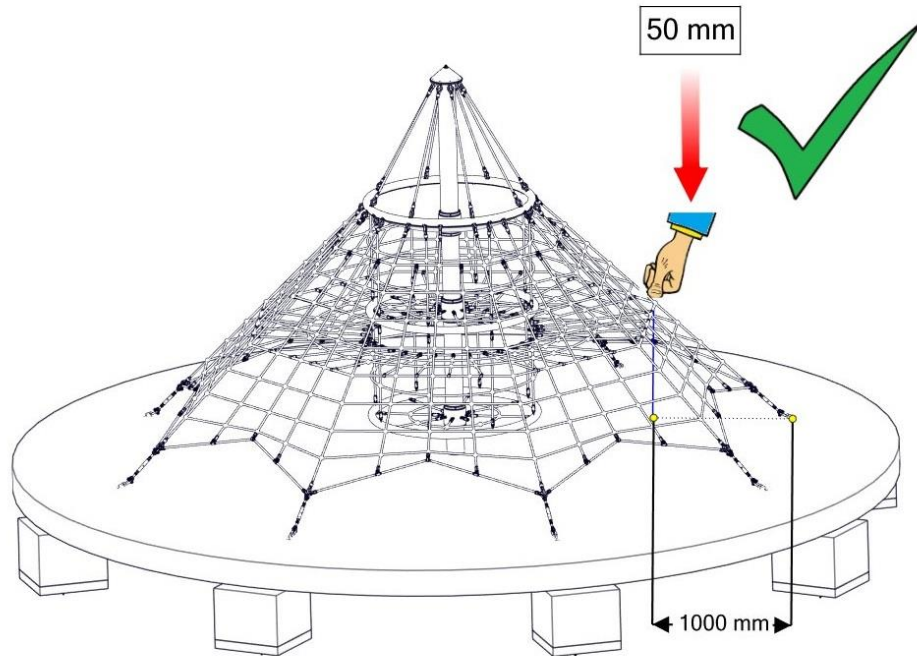












5 Post installation checks



Make sure that the public are kept away from the equipment until it is properly installed.

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:

- Installation of equipment 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 carried out.

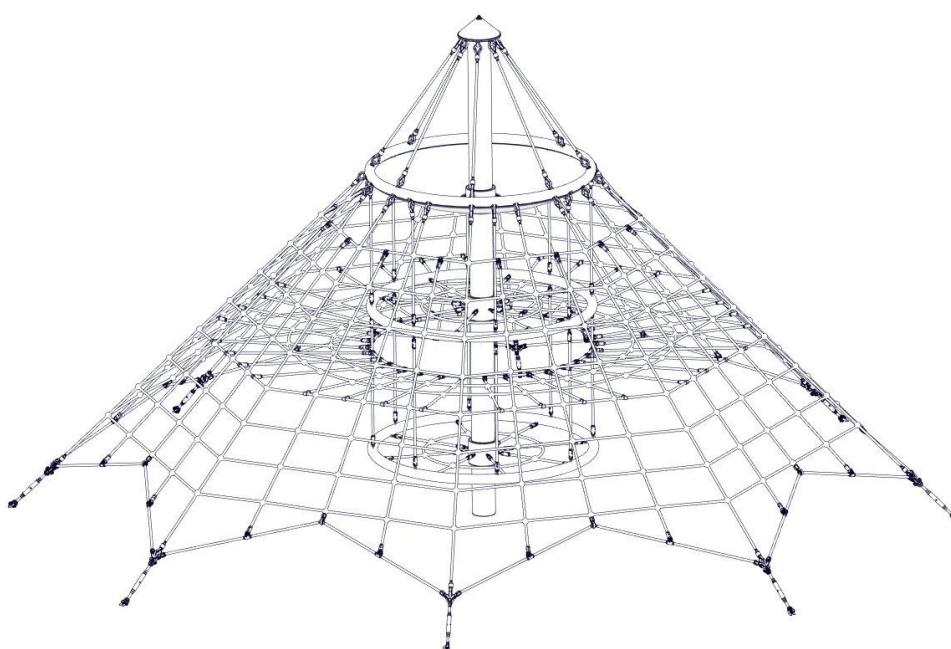
5.4 Information about inspection of the equipment before it is used for the first time

- 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 **Dino II, Art.-Nr. 10.02.100**



Revisionshistorie

Revision 0 – 2007-11-01
Erste freigegebene Version

Wartungsanleitung
Revision 11 – 2020-09-01
Klemmschutzringe am oberen Korb FH
Alle Rechte vorbehalten

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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 1176-1:2017”.**

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.

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 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.

7.9 Faults



Damages must be repaired as soon as they are detected. If serious defects that affect the safety cannot be repaired straight away, the playground item must be blocked with immediate effect.

7.10 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.

7.11 Preventing equipment use

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

7.12 Claims/liability for faults (steel poles)

Steel posts and footings are covered by our guarantee if regular maintenance is carried out and recorded in writing.

Our general terms and conditions apply. Maintenance of steel poles first takes place after 3 years. The steel posts must be excavated down to the concrete foundations and checked for corrosion.

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

Check ropes for abrasion, replace ropes where coating is damaged down the Steel inlet.

8 Maintenance timetable

8.1 Special advices

8.1.1 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.

8.1.2 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.

8.1.3 Faults that compromise safety



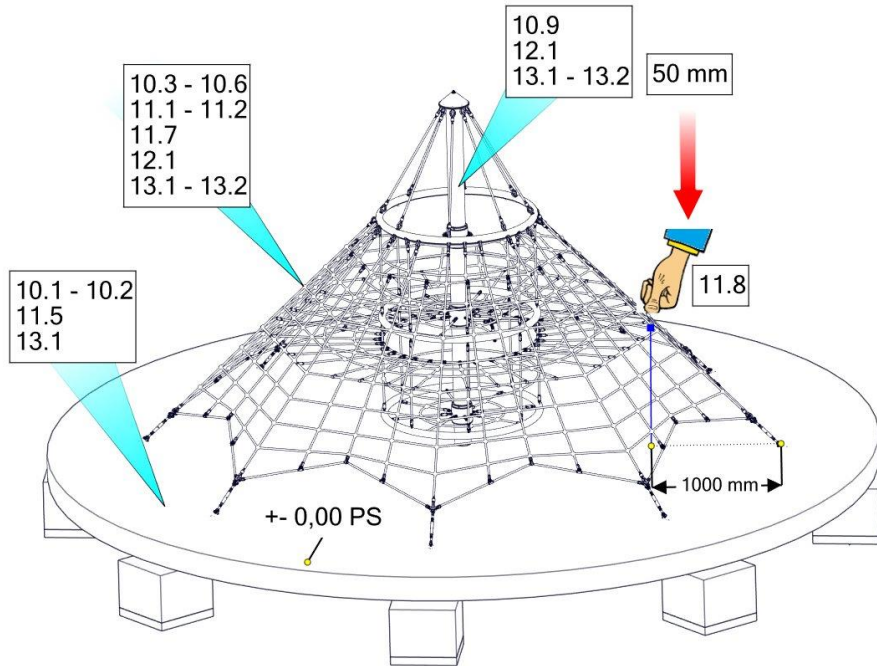
In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

8.1.4 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.

9 Regular maintenance



10 Monthly maintenance

- 10.1 Check the spaces between the equipment and the ground (clearance and height of fall).
- 10.2 Check the ground surface of fall protection for hard objects and loose foundations.
- 10.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- 10.4 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.
- 10.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- 10.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- 10.7 If necessary, remove excess padding material from the post footings due to danger of rotting.
- 10.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- 10.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

11 Quarterly maintenance

- 11.1 Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- 11.2 Tighten all forms of attachment.
- 11.3 Repaint and retreat surfaces.
- 11.4 Maintenance of fall protection surfaces.
- 11.5 Lubrication of joints.
- 11.6 Check height of fall protection material and top up with loose filler if necessary. If the posts are labelled, top up to the mark.
- 11.7 Retighten all bolts.
- 11.8 Tighten the turnbuckles of the netting in three steps (crosswise) and always keep the center pole in line.

To accelerate the strain of the ropes, 1 person has to climb and jump onto the 8 tension ropes after each step of tightening.

The preliminary end tension of the pyramid is reached when the tension ropes in shoulder height will not move more than 5cm (press by thumb).

After complete tightening, lock the nuts of the turnbuckles.

12 Half yearly maintenance

- 12.1 The stability of supporting posts, supports, foundations etc. has to be checked. The safety level of the entire system has to be checked after repairs have been carried out or additional system components have been installed or replaced.



Annual Maintenance

13 Annual maintenance

- 13.1 Ascertaining that the equipment, foundations and surfaces are safe for operation.
- 13.2 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.

14 Maintenance printout

Name of item: Dino II _____ / Art.-Nr. 10.02.100 _____

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.

15 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.: 10.02.100

Type of item: Dino II

Serial number: _____

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

Competent person in charge:

Installation company (address):

Responsible assistant (assembler):

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

(Signature of operator) (Signature of installation company)
(Stamp)

Date: _____