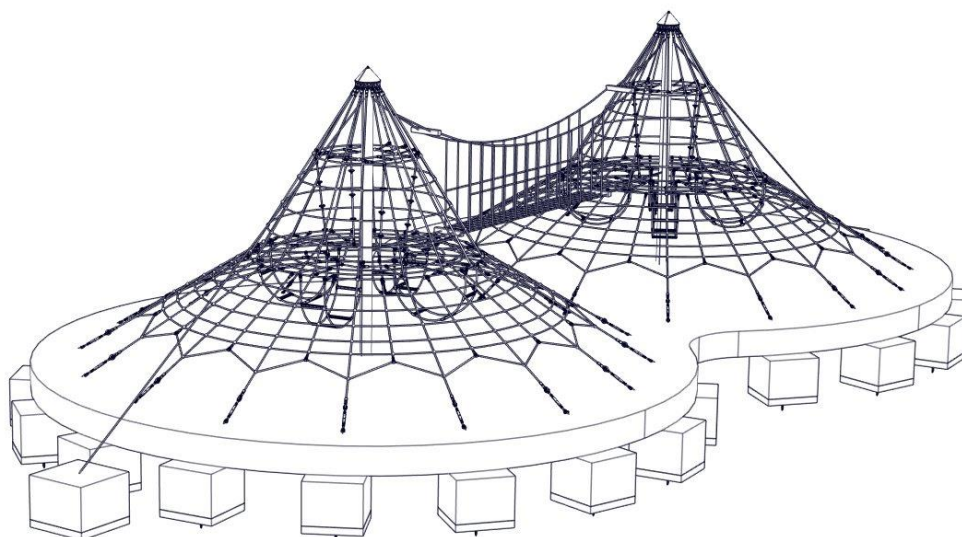


A Assembly instructions

Cheops Combination Midi, Art. 4643-2B-10

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



Operator: _____

Location: _____

Revision history

Revision 0 – 2011-03-30

The first allowed version

Assembly instructions

Revision 5 – 2023-05-11 ZM

neue Form der Montageanleitung

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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.



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.



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 Cheops Combination, Midi Art.- No. 4643-2B-10

1. Space requirement: 12.90 m x 20.90 m
 Safety zone: 17.60 m x 9.60 m
 Height of equipment: 4.20 m
 Height of fall: 1.50 m
 Fall protection area: 139.6 m²

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	300/400	<= 2000/3000
Wood chippings	5 – 30 grain size	300/400	<= 2000/3000
Sand	0.2 – 2 grain size	300/400	<= 2000/3000
Gravel	2 – 8 grain size	300/400	<= 2000/3000
Other ground materials	As recommended by manufacturer		

3. Name and overall dimension of the largest component:
 Steel posts (2 pieces) length 5,0m, ø 159 mm
4. Name and weight of the heaviest component:
 Steel posts (2 pieces), approx. 212 kg
5. Intended age group: 6 years and over
6. **Please note that this equipment is set in concrete.**
 Concrete: C25/30
 Required concrete: 10.2 m³
 Required Gravel for Drainage layer
7. Foundations/area to be excavated:
2 x 0.90 m long x 0.90 m wide, total depth 1.10 m including 10 cm drainage
28 x 0.70 m long x 0.70 m wide, total depth 1.00 m including 10 cm drainage
2 x 0.70 m long x 1.40 m wide, total depth 1.000 m including 10 cm drainage
2 x 0.90 m long x 0.90 m wide, total depth 1.10 m including 10 cm drainage
 Top edge of concrete 40 cm below ground level



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. Assembly time, once foundations completed: 8 hours. Required assistants: 4 persons.
9. Any spare parts which may be required 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.**

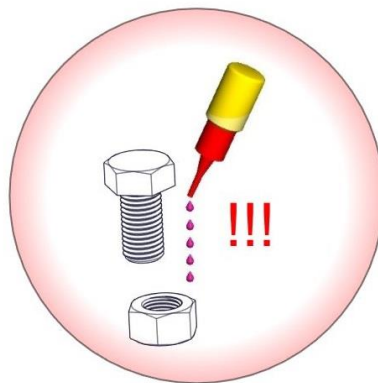
3 Delivery contents (parts list with part numbers)

3.1 In words

Table 3-1: Delivery contents, in words

Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	2	Steel posts	Ø 159 mmx 5,00 m		
2	2	Cheops Net Towers			
3	2	Lower Connection Rings	For Ø 159 mm		
4	2	Upper Connection Rings	For Ø 159 mm		
5	2	Mast/Net Platte	Ø 360 mm x 12 mm		
6	1	Bridge			
7	2	Tention Ropes			
100	4	Threaded bolt with 2 x Acorn nuts	M12 x 190mm		
101	8	Bolts	M12 x 30		
102	8	Lock washers	For M12		
103	32	Bolts	M16 x 30mm		
104	32	Lock washers	For M16		
105	2	Threaded bolt	M16 x165mm		
106	2	Nuts	M16		
107	2	Post caps	Ø360mm		
108	2	Washers	For M16		
109	2	Nyloc nut	M16		
110	2	Nut caps	For M16		
111	34	Turnbuckles	M16		
112	34	Anker chains	10mm x 1.30 m		
113	34	Shackle	M10		
114	34	Ground pegs			
115	4	Loctite	M16x40mm		
116	2	Ring nuts for lifting the masts			
117	2	anchor plate	500 x 500		
118	76	Lamella plug (for turnbuckle)			
	2	Pipes for Mastfoundations /provided by the customer!	approx. Ø300 x 650 mm.		

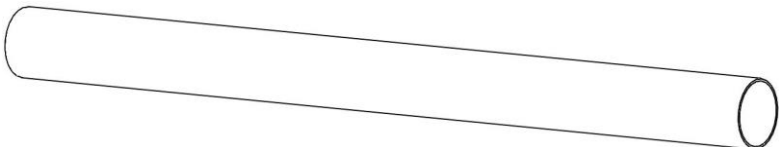
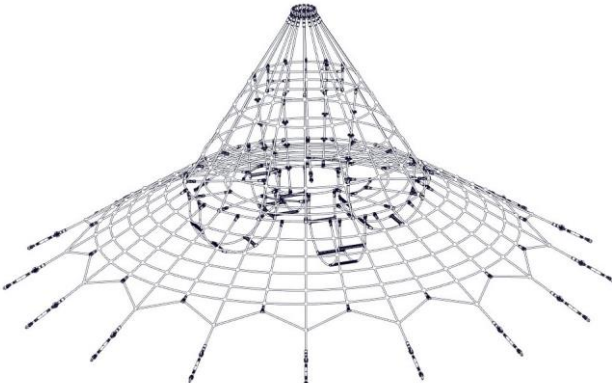
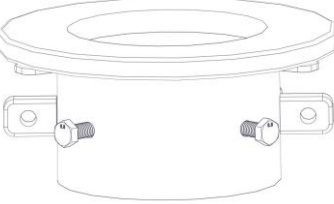
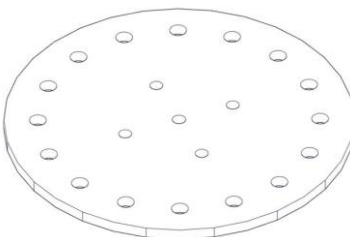
Loctite-Thread locking adhesive!

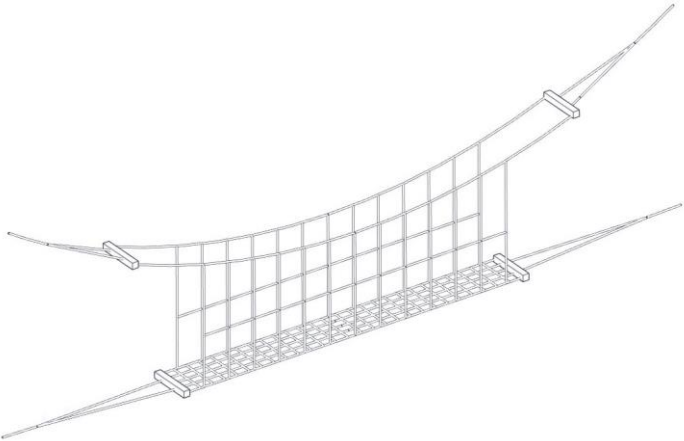
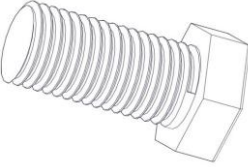
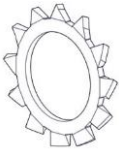
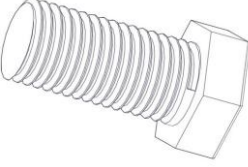
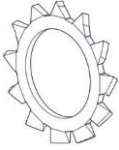


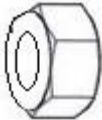
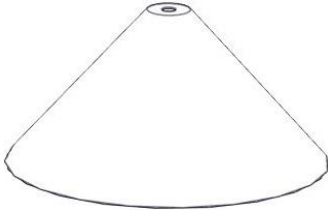
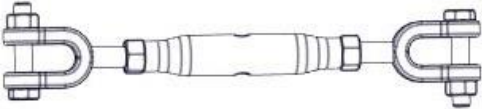
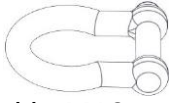
Glue all screws, nuts and sleeves with loctite.
(not less than 5 drops !)
(except for lock nuts)

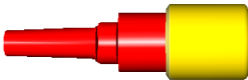
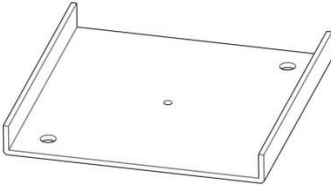
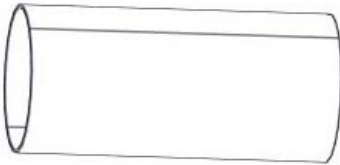
In symbols

Table 3-2: Delivery contents, in symbols

Pos.	Quantity	Symbol
1	2	 Ø 159 mm; 5,00 m lg.
2	2	
3	2	 below
4	2	 above
5	2	 Ø 360 x 12 mm

Pos.	Quantity	Symbol
6	1	
7	2	  Tension rope with turnbuckle
100	4	 M12 x 190 mm
101	8	 M12 x 30 galvanized
102	8	 for M12 galvanized
103	32	 M16 galvanized
104	32	 for M16 galvanized

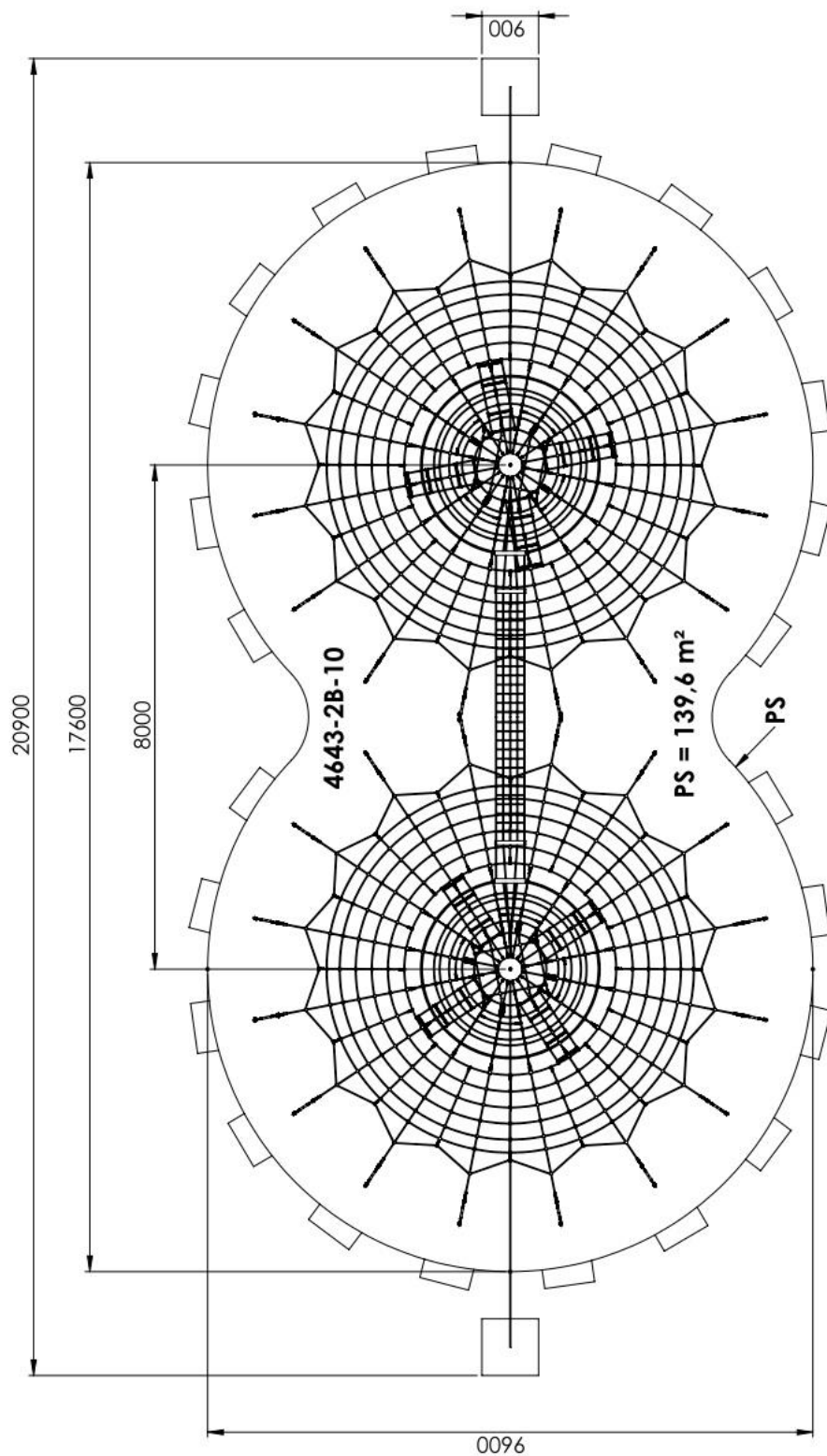
Pos.	Quantity	Symbol
105	2	 M16 x 165 mm stainless Steel
106	2	 M16 galvanized
107	2	 Ø 375 mm, 140 mm
108	2	 17 DIN 9021 stainless Steel
109	2	 M16 stainless Steel
110	2	 for M16
111	34	 M16 hot dip galvanized
112	34	 1.40 m long
113	34	 Shackle M10 curved

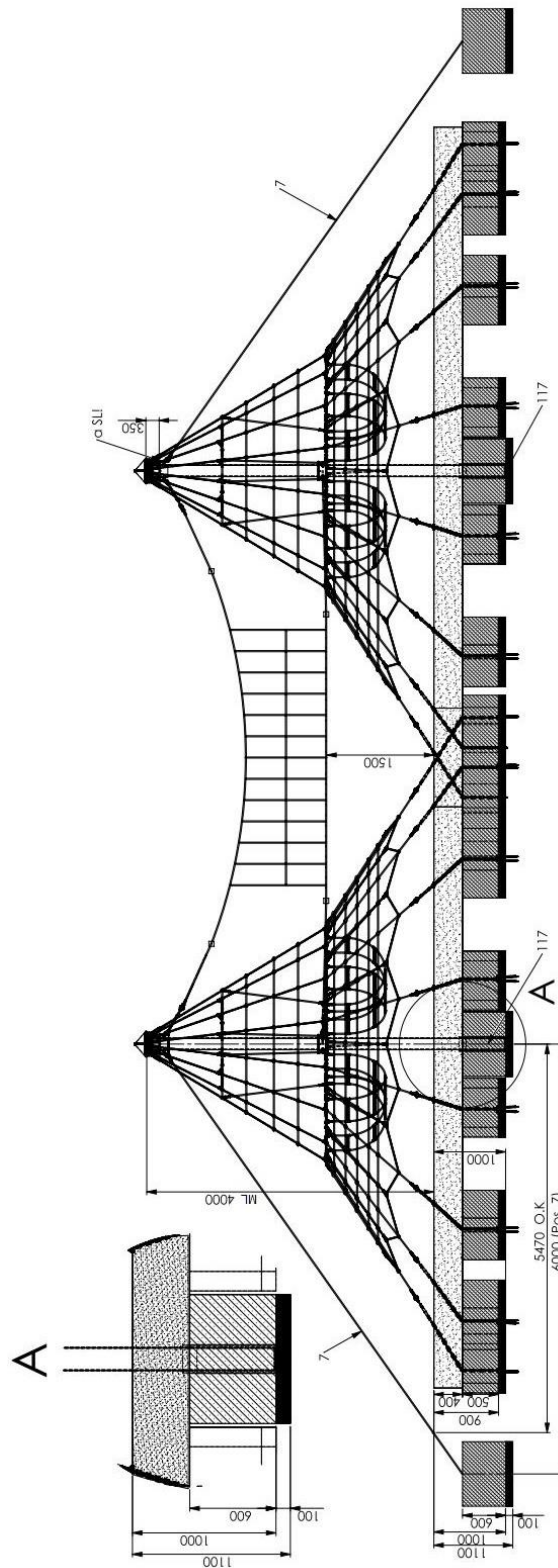
Pos.	Quantity	Symbol
114	34	 300 mm long galvanized
115	4	 Loctite
116	2	 M16 galvanized
117	2	 anchor plate 500 x 500
118	76	 Lamella plug (for turnbuckle)
	2	 approx. Ø300 x ~650mm provided by the customer!

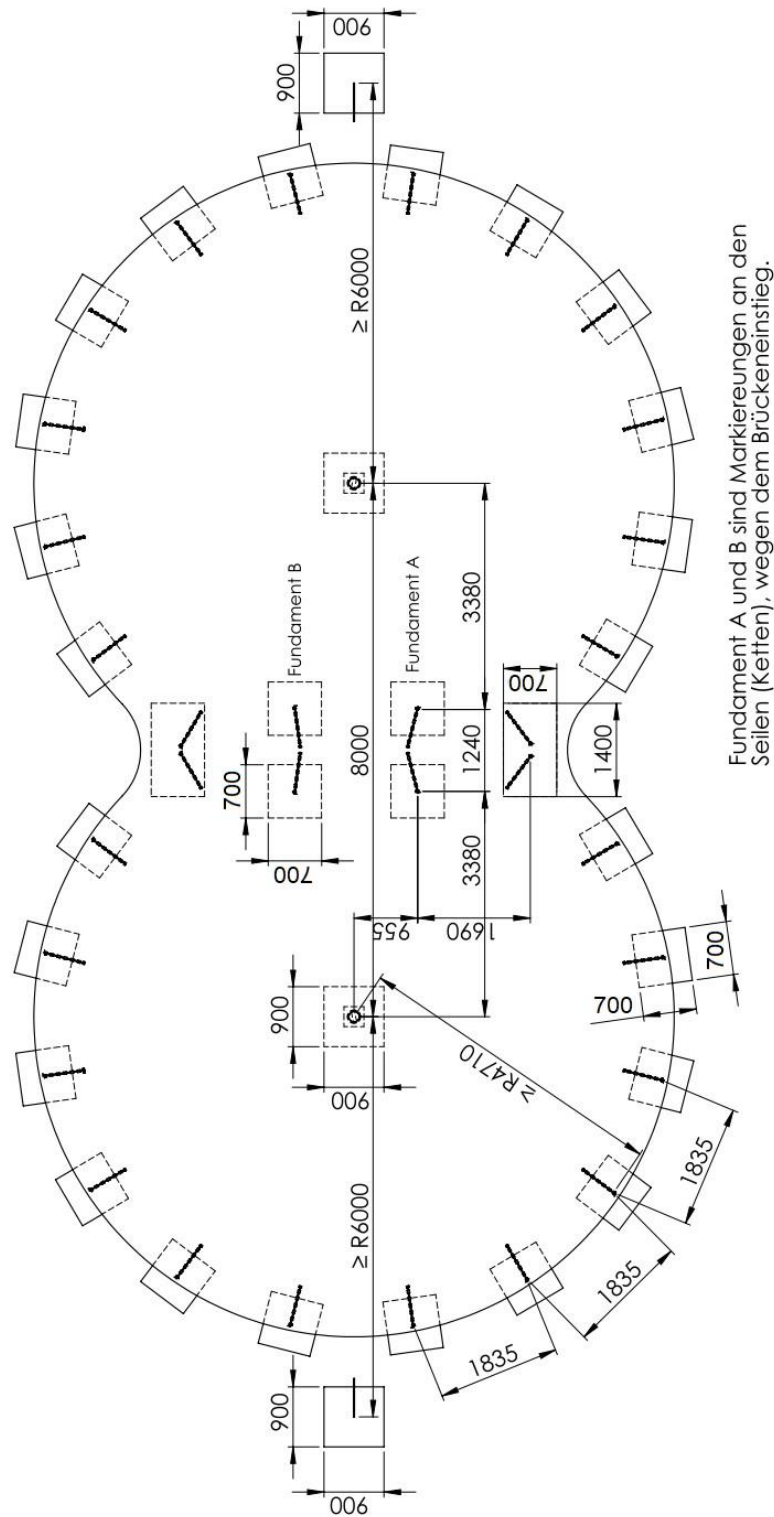
	Abbreviations
AB	The legally prescribed setting times must be observed!
a. SL!	Here the threaded bolt is fastened with cap nuts. (to secure the lug rings)
AE	Fixat ankerchains with shackle and peg
a.Einb	Ankerchains in foundations
D	Concrete
de	Disconnect
ek	Shorten ankerchains if necessary
F	Fall protection
FR	Foundation round-off radius at least 10 cm
G	Drainage
KNR	PVC Pipe or similar (Provided by the customer)!
LRB	Fill empty space after instalment with concrete
ML	Mast length above ground level
mo	Connect
O.K	Upper edge of playing level
PN	Place bottom side of net pack over the mast foundation
PS	Safety area
R	Radius
VO	Prefitted
Wbu	Cover hole in turnbuckles after installment
 Attention!	Round off foundation edges (min.R = 100 mm)! Sizes of foundations are designed for soils class “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%!

See drawings for details of shortcuts

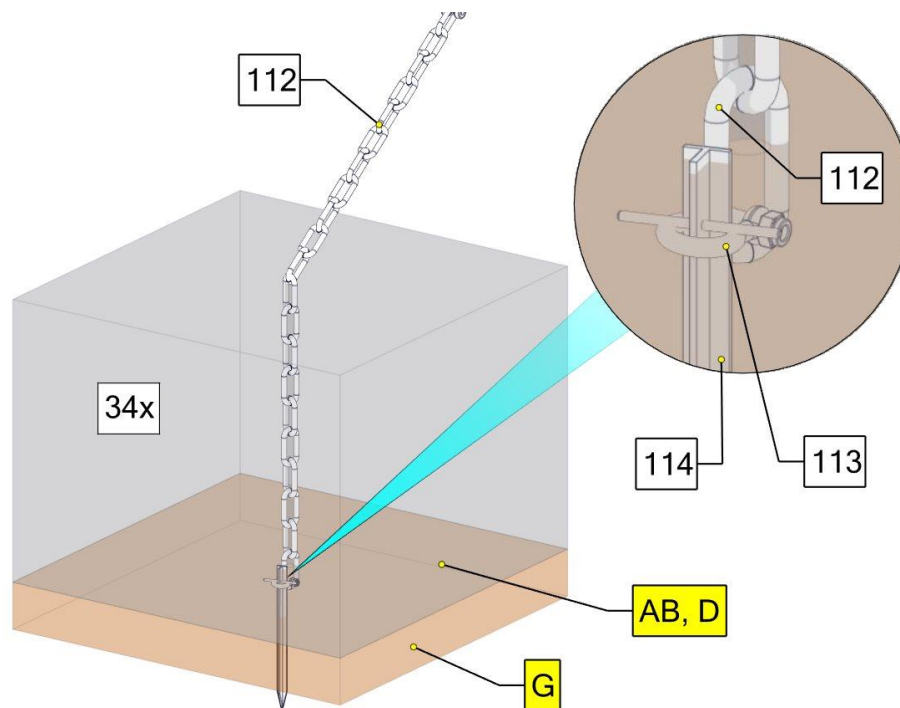
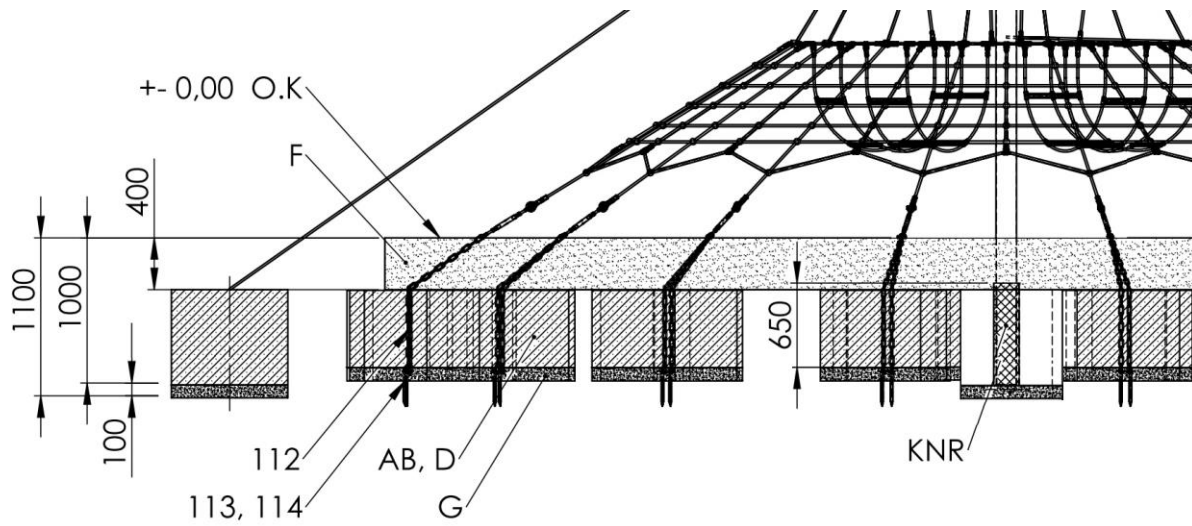
4 Erection instructions

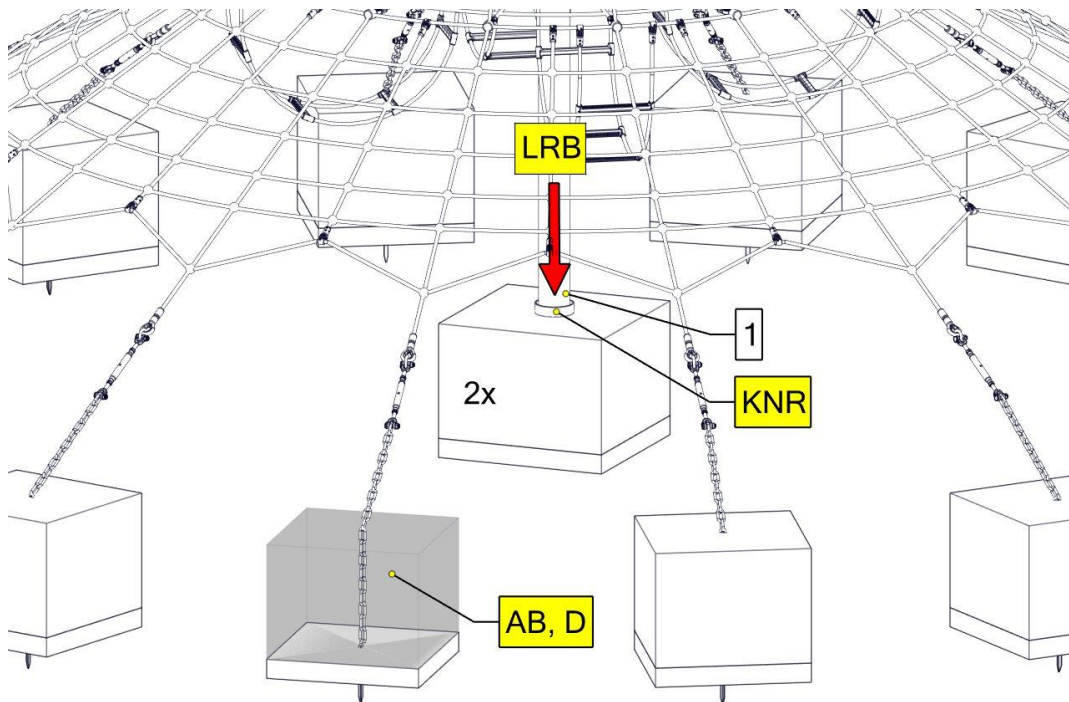
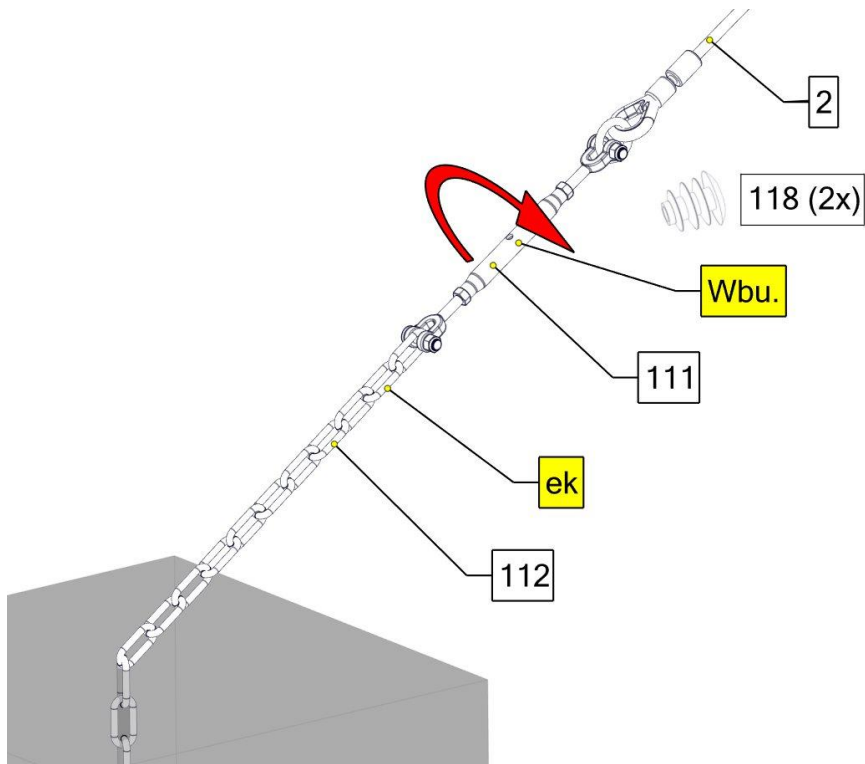


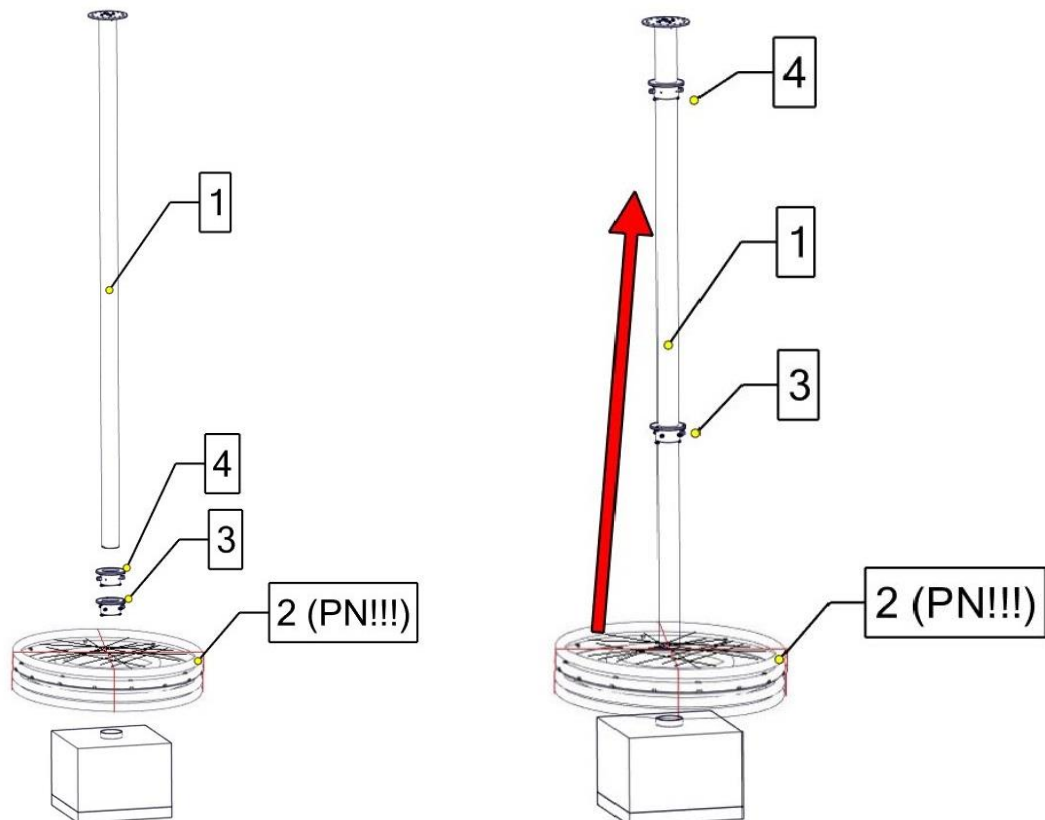
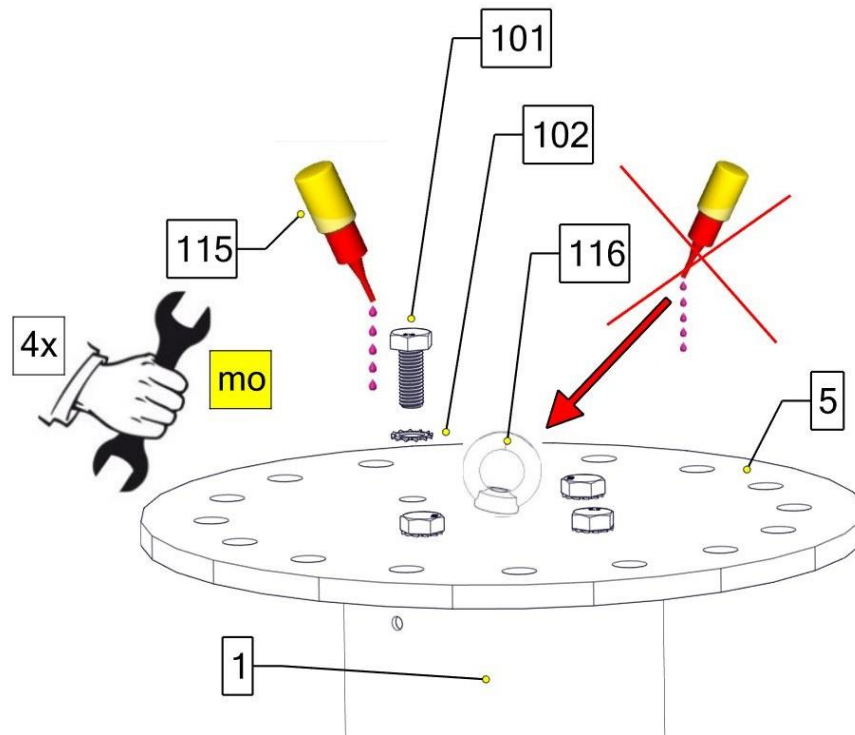


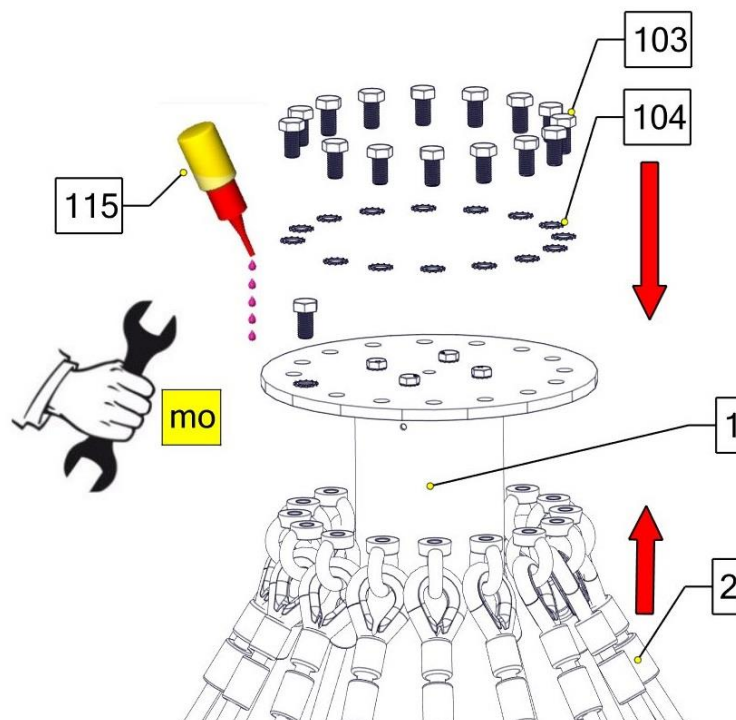
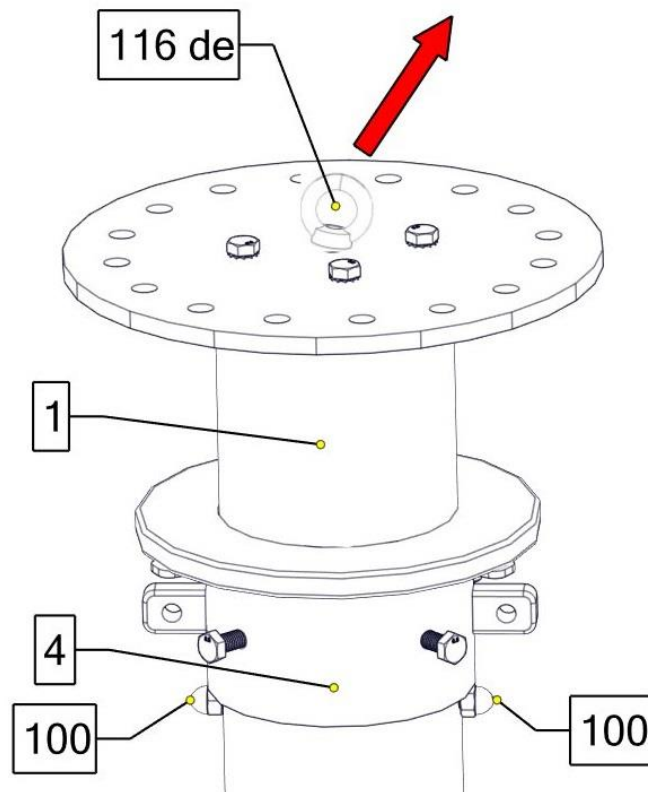


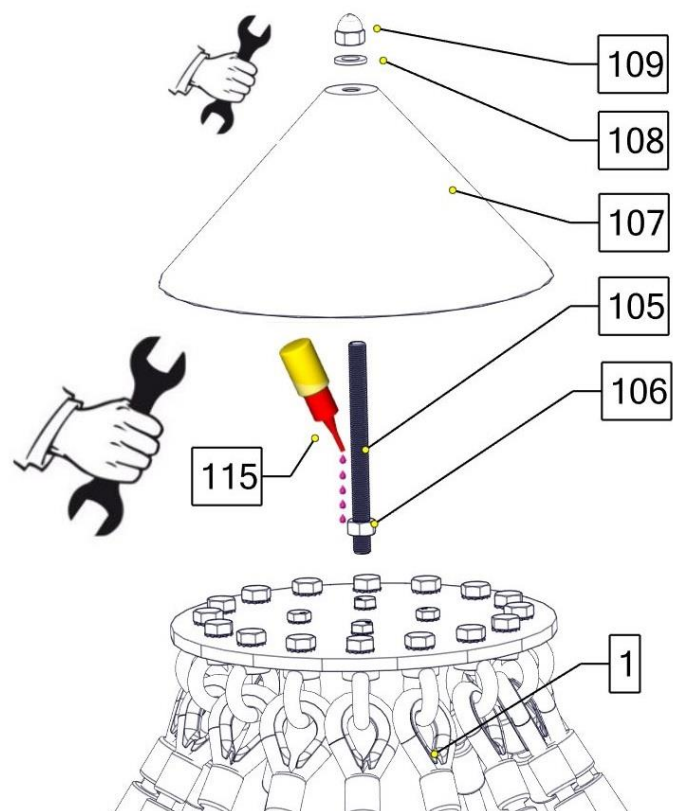
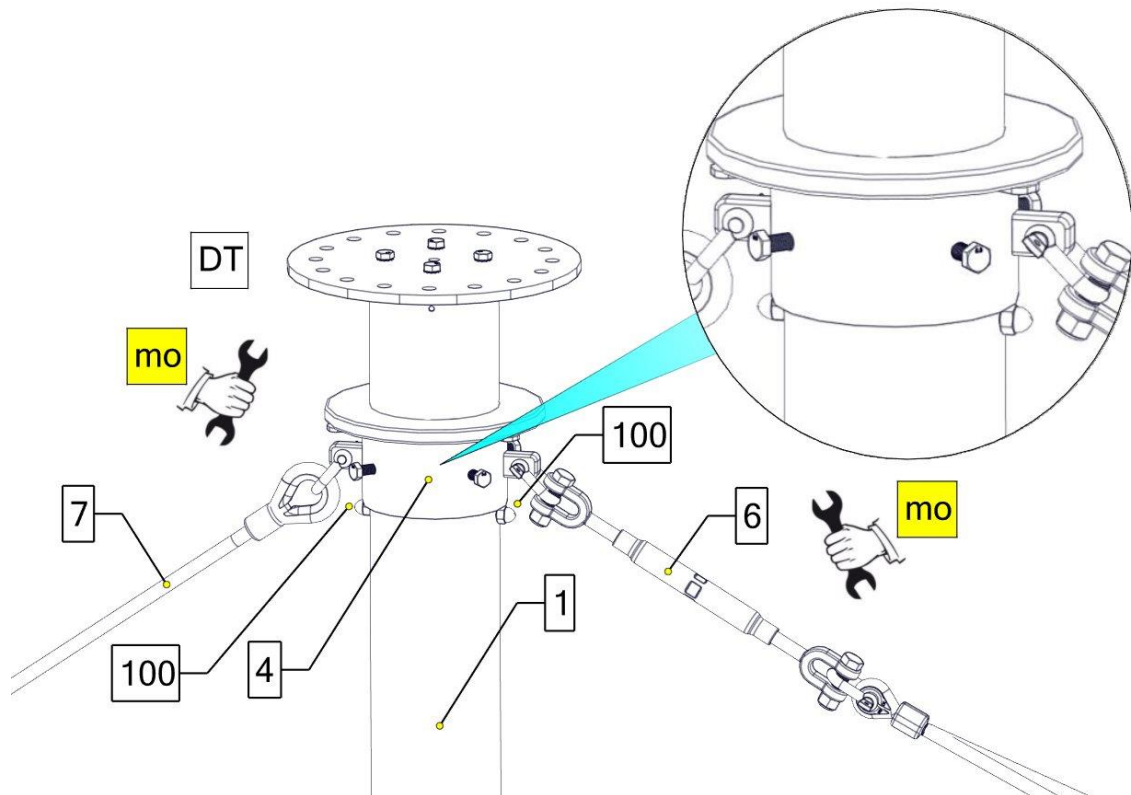
Detailed view:











Post installation checks



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

4.1 Marking filler depth

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

4.2 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.

4.3 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.

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

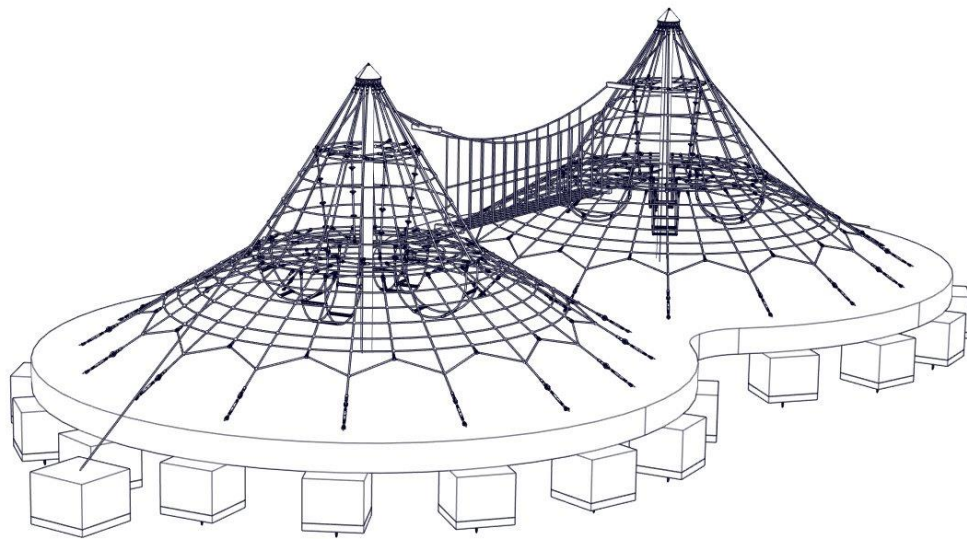
- There are no special inspection requirements to be met before the equipment is used for the first time.

4.5 Retighten bolts

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

B Maintenance Instructions

Cheops-Kombination „Midi“, Art.-Nr. 4643-2B-10



Revision 0 – 2011-03-30

The first allowed version

Maintenance instructions

Revision 5 2023-05-11

neue Form der Anleitung ZM

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5 Introduction Maintenance

5.1 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”.**

6 General maintenance information

6.1 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.

6.2 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.

6.3 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.

6.4 Spare parts

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

6.5 Identifying spare parts

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

6.6 Special instructions for the disposal of individual equipment components

No special instructions are necessary.

6.7 Special measures during the break-in period

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

6.8 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.

6.9 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.

6.10 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.

6.11 Preventing equipment use

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

6.12 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.

7 Maintenance timetable

7.1 Special advices

7.2 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.

7.3 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.

7.4 Faults that compromise safety



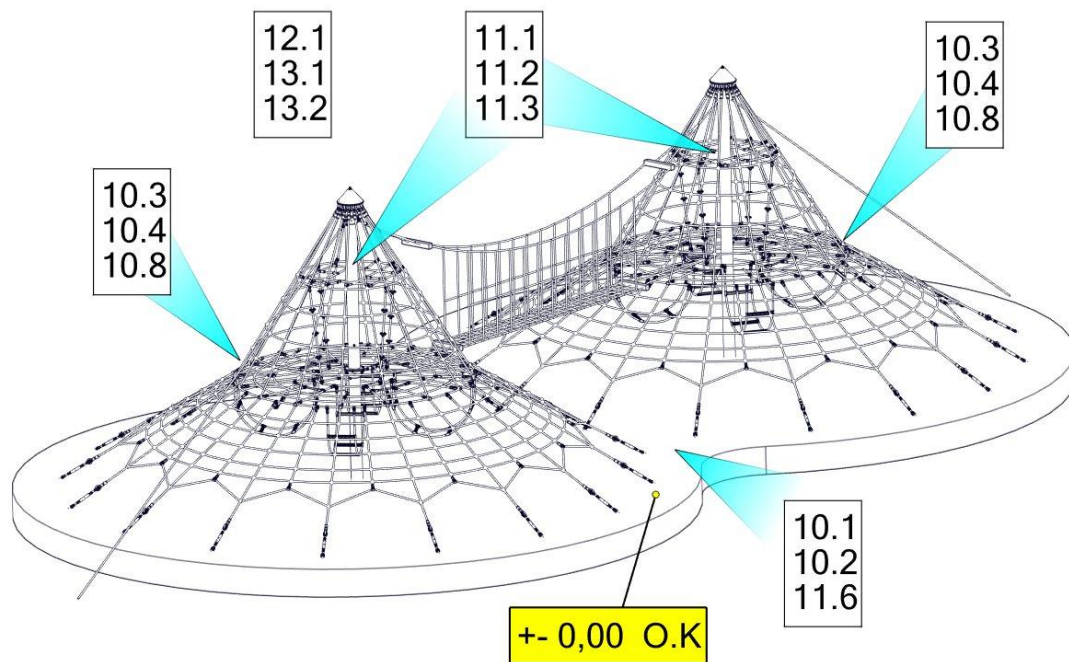
In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

7.5 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.

8 Regular maintenance



9 Monthly maintenance

- 9.1 Check the spaces between the equipment and the ground (clearance and height of fall).**
- 9.2 Check the ground surface of fall protection for hard objects and loose foundations.**
- 9.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.**
- 9.4 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.**
- 9.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.**
- 9.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.**
- 9.7 If necessary, remove excess padding material from the post footings due to danger of rotting.**
- 9.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.**
- 9.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.**

10 Quarterly maintenance

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

11 Half yearly maintenance

- 11.1 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

12 Annual maintenance

- 12.1 Ascertaining that the equipment, foundations and surfaces are safe for operation.
- 12.2 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.

13 Maintenance printout

Name of item: Cheops Combination Midi _____ / Art. No. 4643-2B-10 _____

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.

14 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.: 4643-2B-10

Type of item: Cheops Combination Midi

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: _____