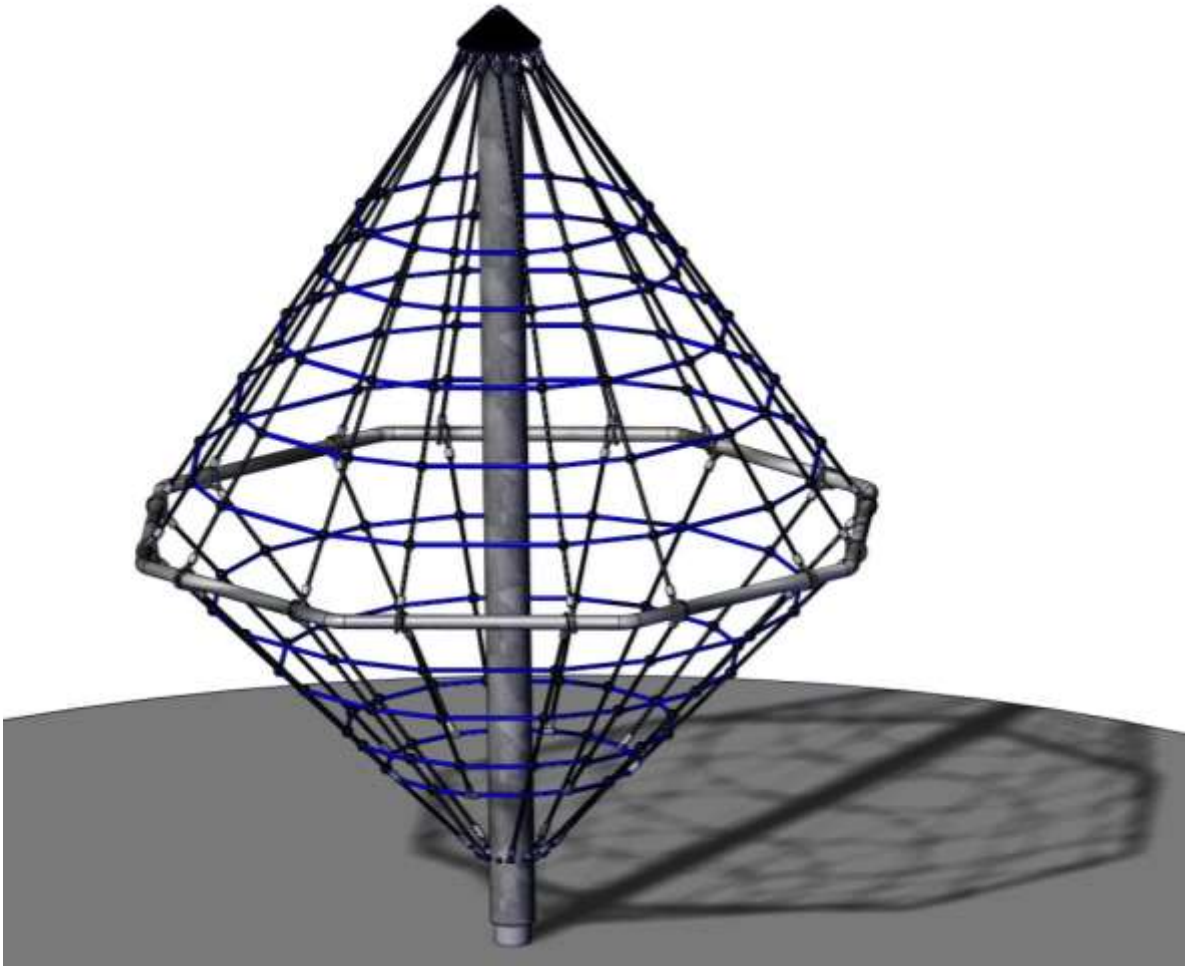
A Assembly Instructions for “Climbing Whirl” Art. 20.01.130



Operator:_____

Location:_____

Revision history
Revision 5 2023-07.11

S9+10 Hilfskeil überarbeitet
S.17+18 Hinweis eingefügt PR

First approved version

Assembly instructions

Revision 0 – 2018-12-06

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Contents

A Assembly Instructions for “Climbing Whirl” Art. 20.01.130 1

1 Introduction Assembling 4

2 Datasheet “Climbing Whirl”, article 20.01.130 6

3 Delivery contents (parts list with part numbers) 8

4 Erection instructions 12

5 Post installation checks 23

B Maintenance for “Climbing Whirl” Art. 20.01.130 25

6 Introduction Maintenance 27

7 General maintenance information 28

8 Maintenance timetable 30

9 Regular maintenance 31

10 Monthly maintenance 32

11 Quaterly maintenance 32

12 half-yearly maintenance 32

13 Annual maintenance 33

14 Maintenance printout 35

15 Hand over document 37

List of Tables

Table 3-1: Delivery contents, in words 8

Table 3-2: Delivery contents, in symbols 9

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 us if you have any problems during installation or with 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 “Climbing Whirl”, article 20.01.130

1. Required use zone: Ø 8.00 m / urgent recommended safety zone Ø 11.00 m

Fall height = 2500 mm
Total height = 4200 mm



Attention!
According to EN 1176-5 (paragraph 5.3) the statutory fall protection area has to be +2m additionally all around to the space requirement.

We strictly recommend to keep our specified, increased safety area although it is sufficient to place fall protection material onto the statutory safety area.
Never limit the transition to e.g. lawn or similar material with solid or hard bordering! No solid objects (e.g. benches, bollards, dustbins, fences etc.) have to
be installed within the specified, increased safety area!

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 post (1 item) length 3950 mm, Ø 193,7 mm

4. Name and weight of the heaviest component:
   Steel post (1 item), 135 kg

5. Intended age group: 6 years / user capacity 25

6. **Please note that this equipment is set in concrete.**

   Required Concrete: C25/30 1.2 m³

   Foundations/area to be excavated:
   1 x 1300 mm long x 1300 mm wide, total depth 1100 mm
   Top edge of concrete rounded off, 400 mm below ground level



Round off foundation edges (min.R = 100 mm)! Sizes of fundations 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: approx. 2 hours.
   Required assistance: 2 – 3 people.

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

   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)

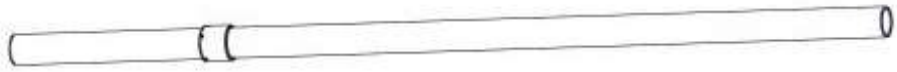
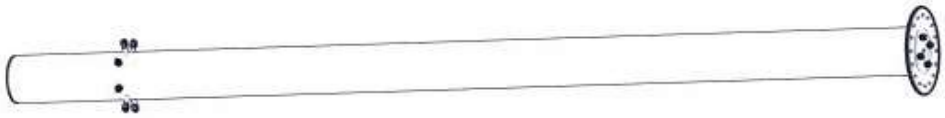
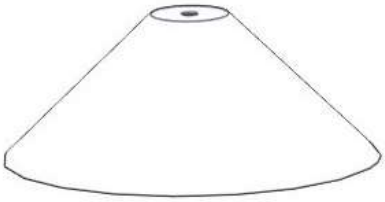
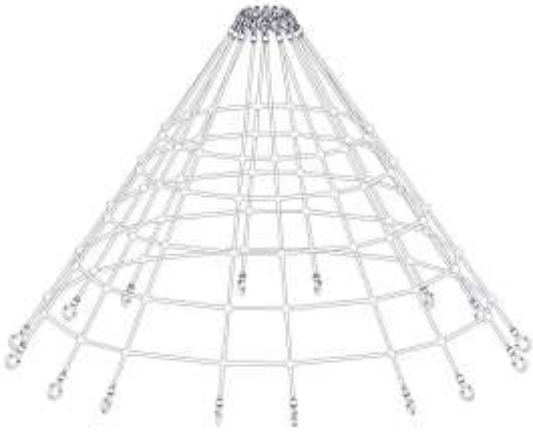
3.1 In words

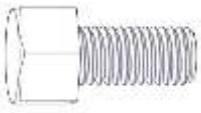
Table 3-1: Delivery contents, in words

Pos.	Quantity	Element / Description	Size	O.K.	Missing
1a	1	Steel post	Ø 159 mm x 4950 mm long		
1b	1	Steel post	Ø 193,7 mm x 3950 mm long		
1c	1	Bearing plate	Ø 159 mm		
2	1	Metal cover	Ø 375 mm – 140 mm high		
3	1	Netting			
4	1	Netting			
5	1	8-corner-ring (in two parts)	Ø 3200 mm		
6	1	Threaded rod	M12 x 300 mm		
7	2	Hexagon nut	M12		
100	1	Hexagon nut	M16		
101	1	Washer whit large external diameter, DIN 9025	Ø 17 mm		
102	1	Nylock nut, DIN 985	M16		
104	1	Threaded rod	M16 x 165 mm long		
105	16	Hexagon screw	M12 x 25 mm		
106	16	Tooth lock Washer	for m12		
107	1	Loctite 3 ml			
108	8	Allen bolts	M8 x 25 mm		
109	8	Nylock nut	M8		
110 KNR!	1	Pipe for foundation-Not included in delivered product!	Ø 200 x 850 mm		
Gehw. PL.	1	Concrete slab for foundation-Not included in delivered product!	300 x 300 mm		
111	4	Support wedges	By customer side		

In symbols

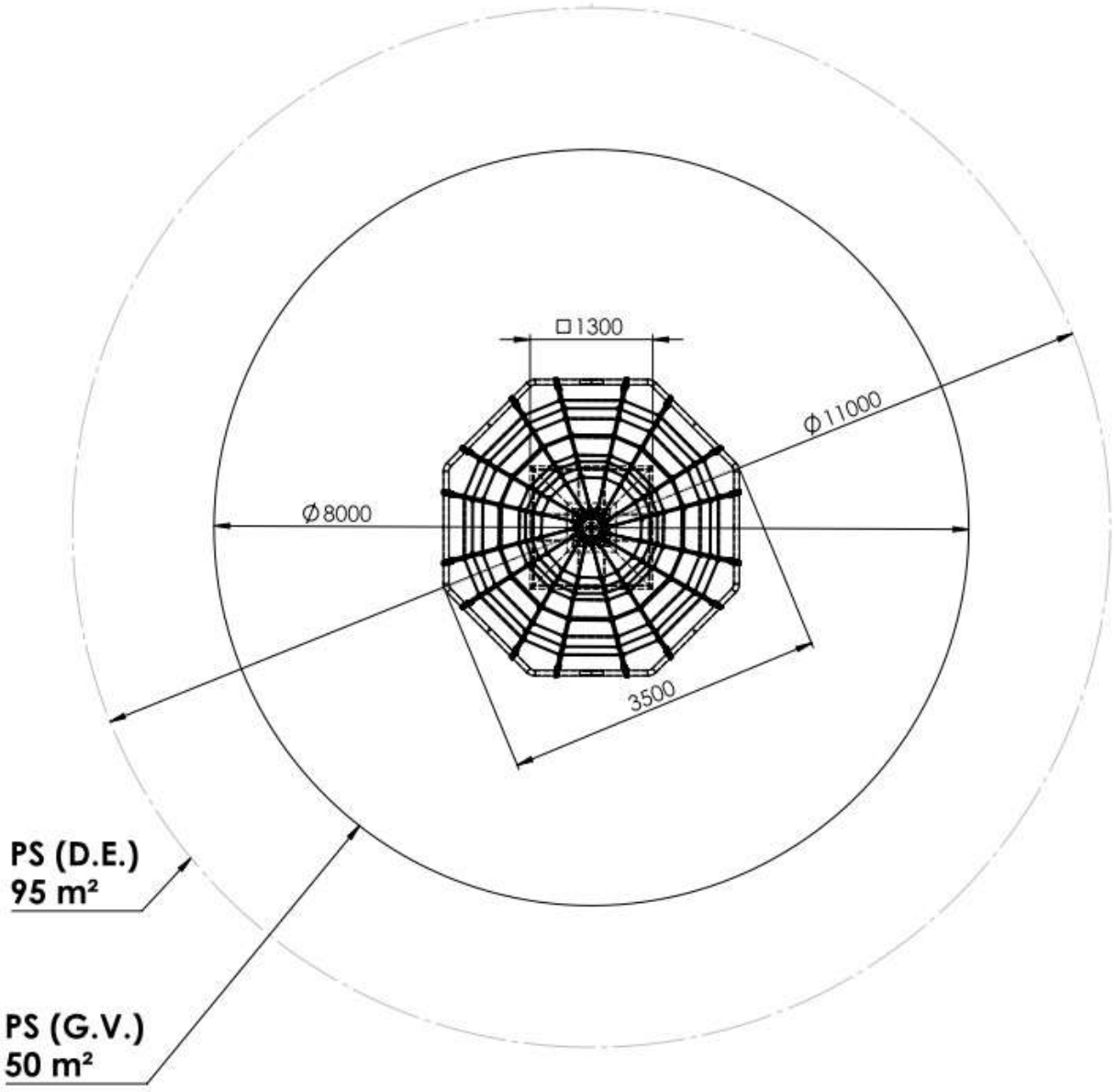
Table 3-2: Delivery contents, in symbols

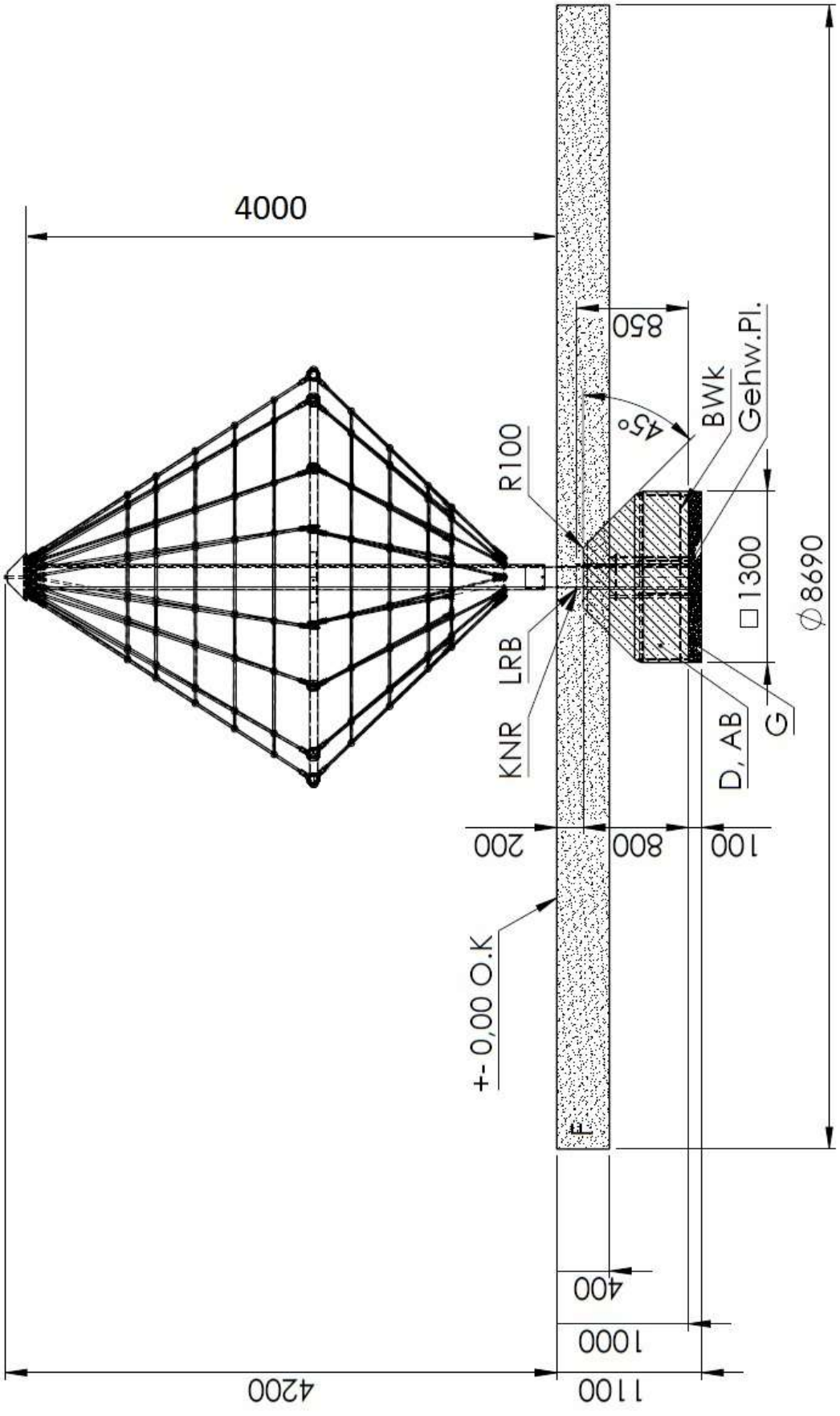
Pos.	Quantity	Symbol
1a	**1**	 Steel post Ø 159 mm, 4950 mm long
1b	**1**	 Steel post Ø 193,7 mm x 3950 mmlong
1c	**1**	 Bearing plate Ø 159 mm
2	1	 Ø 375 mm – 140 mm high
3	1	 Netting

Pos.	Quantity	Symbol
4	1	 Netting
5	1	 3500 x 3500 x 60 mm (in two parts)
6	1	 Threaded rod M12 x 300 mm
7	2	 M12
100	1	 M16 DIN 934
101	1	 Washer whit large external diameter, DIN 9025
102	1	 M16
104		 Threaded rod M16 x 165 mm
105	16	 Hexagon screw M12 x 25 mm
106	16	

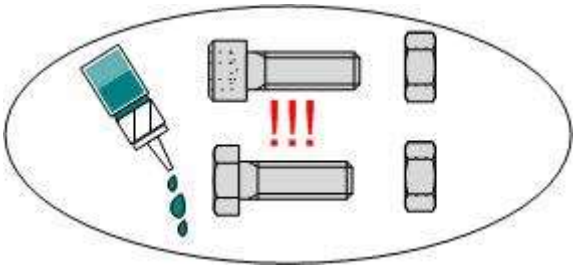
Pos.	Quantity	Symbol
		Tooth lock Washer M12
107	2	 Loctitte 3 ml
108	8	 Stop nut M8
109	8	 Allen screw M8 x 25 mm
110 KNR	1	 Pipe for foundation! Not included in delivered product 200 mm x 850 mm
Geh w.Pl.	1	 Concrete slab! Not included in delivered product 300 mm x 300 mm
111	4	

Erection instructions

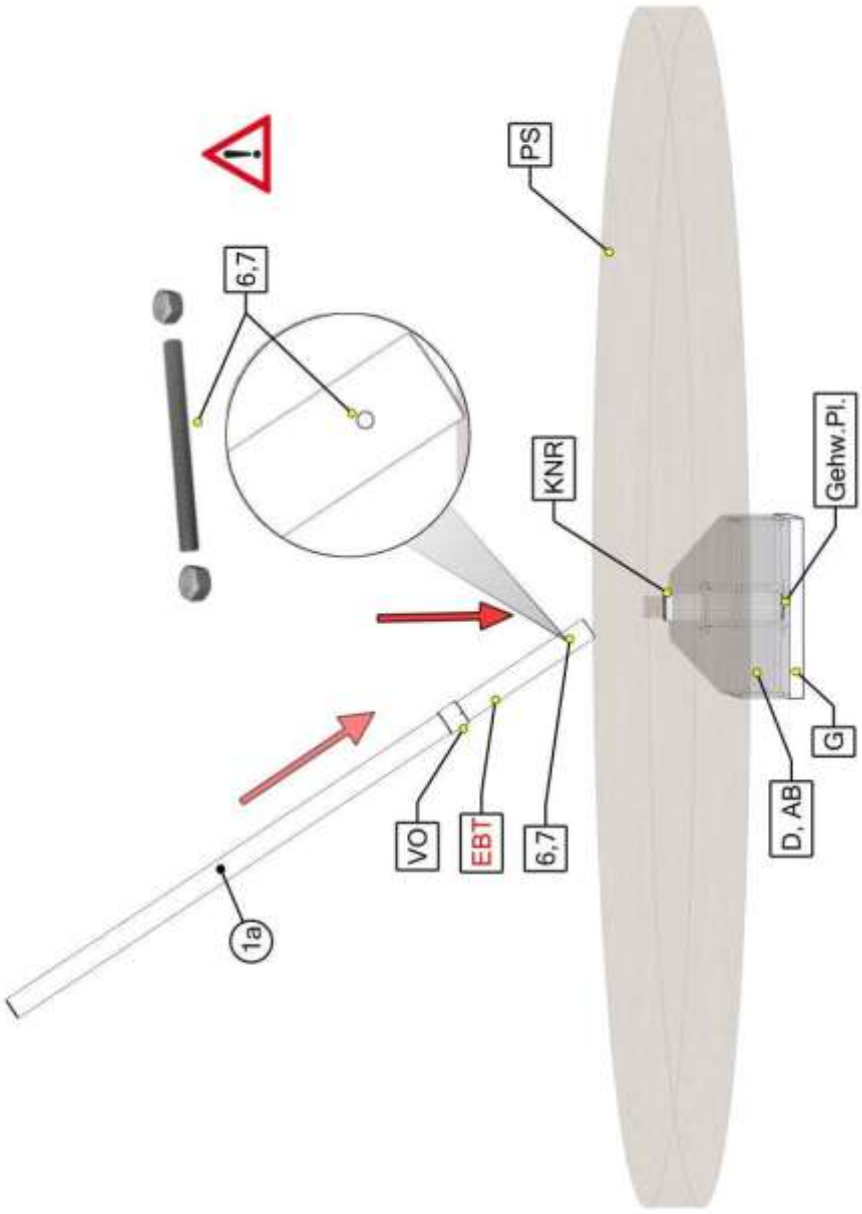


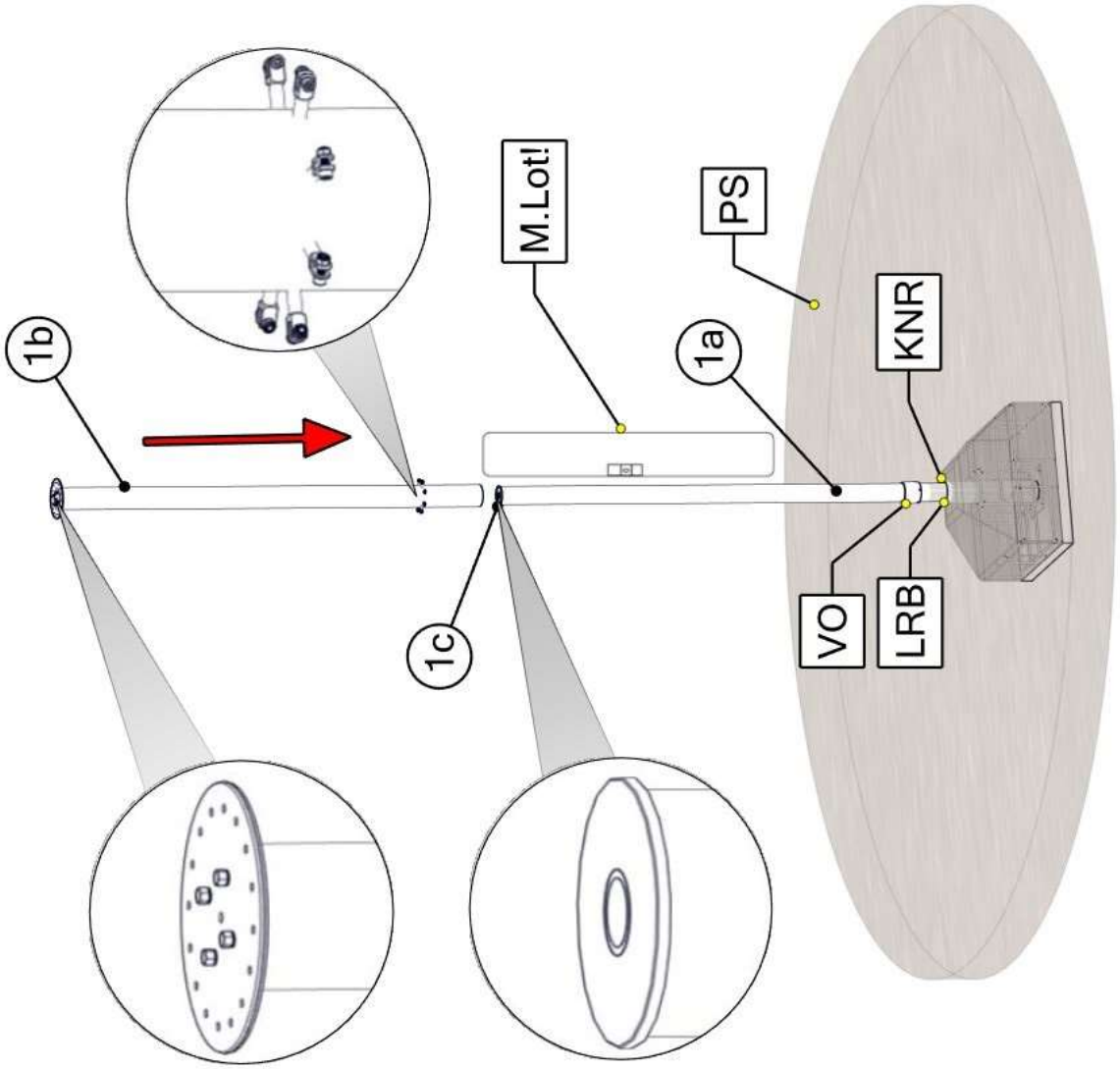

4000
850
45°
BWk
Gehw.Pl.
R100
□1300
Ø8690
KNR
LRB
D, AB
G
200
800
100
+- 0,00 O.K
400
1000
1100
4200

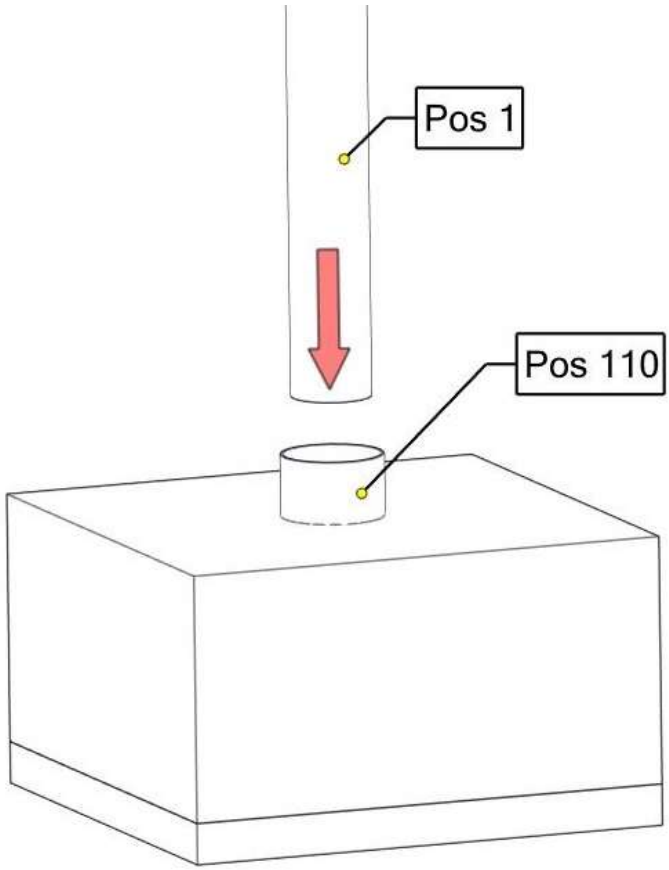
Screw locking device!

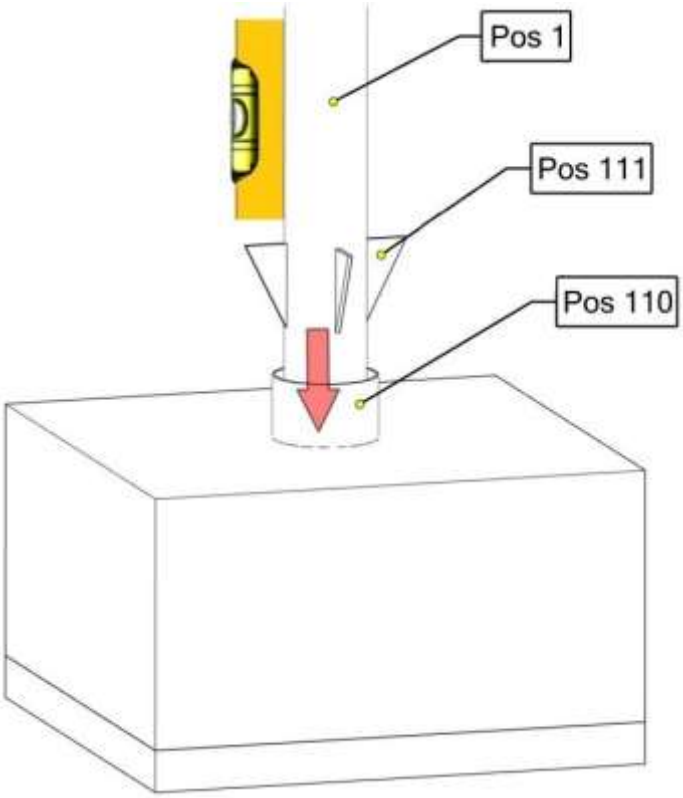


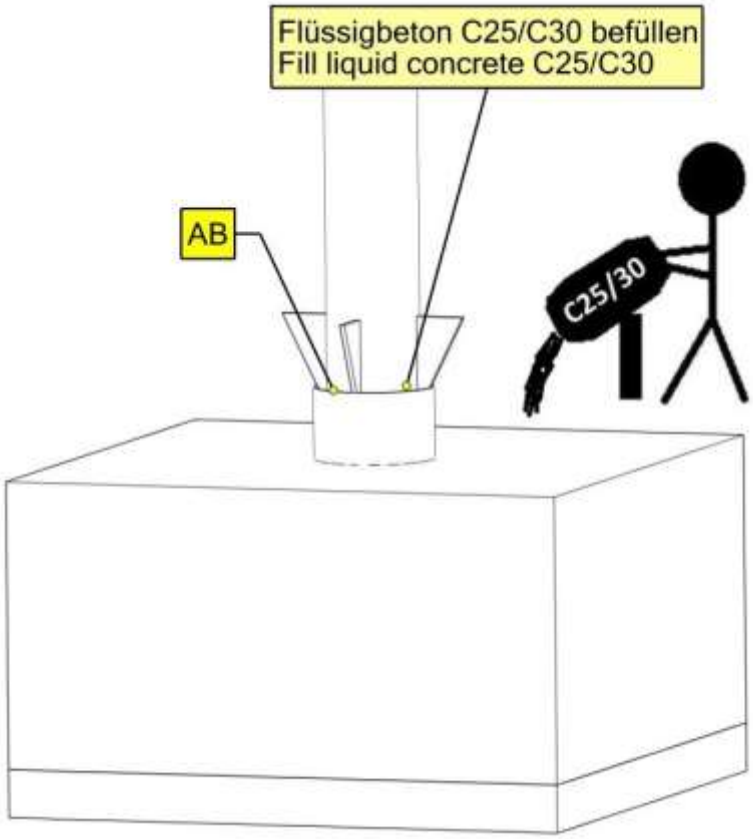
Glue all screws, nuts and sleeves with loctite.
(Not less than 5 drops!)
(Except for Nylock nuts)

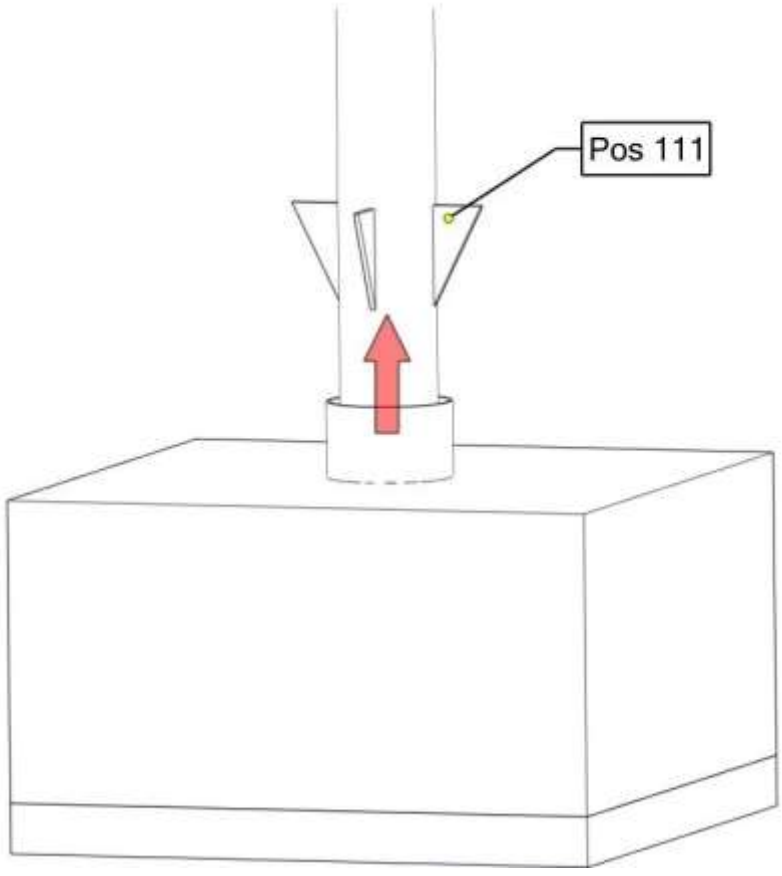

PS
6,7
KNR
Gehw.Pl.
G
D, AB
VO
EBT
6,7
1a

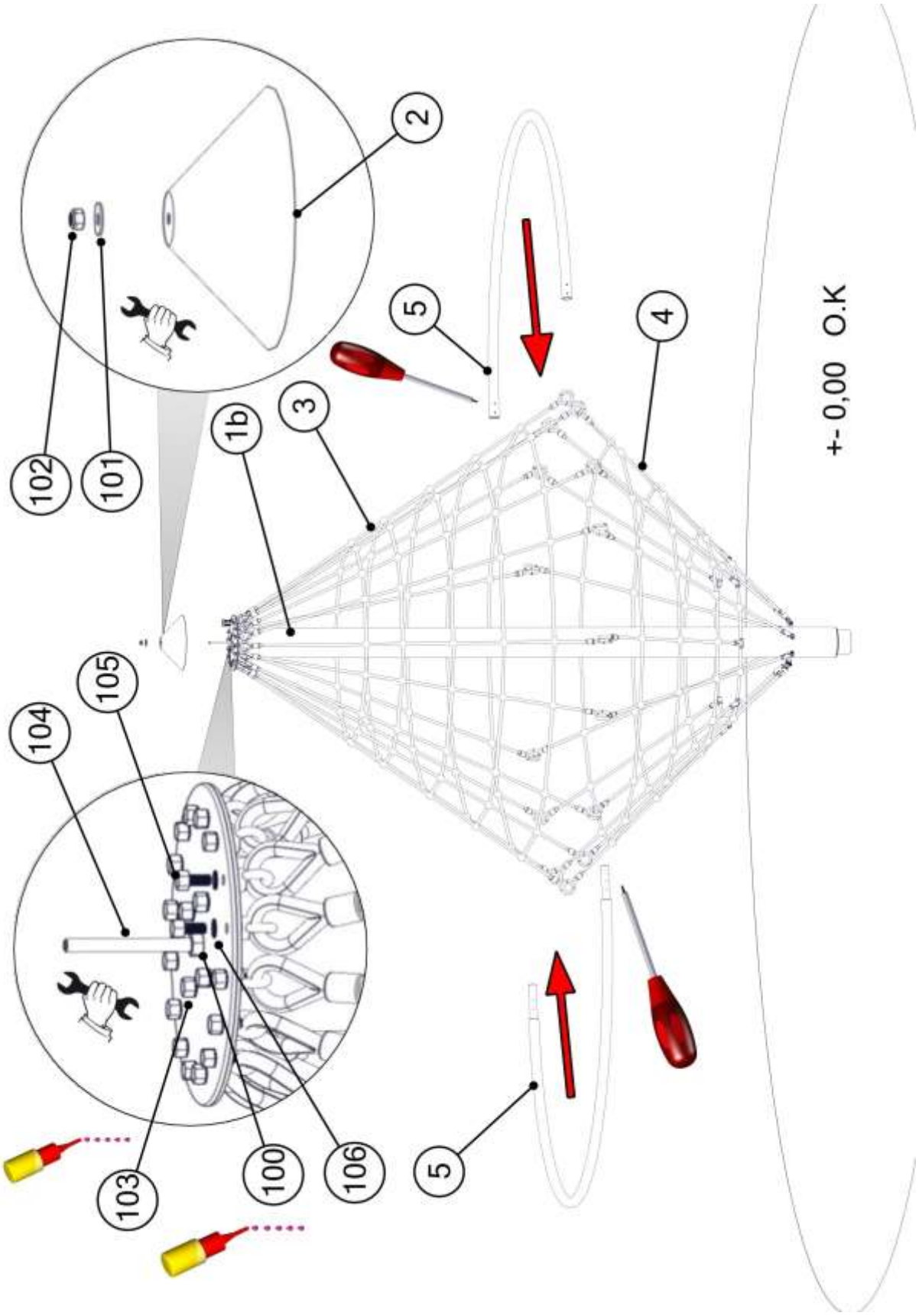

1b
M.Lot!
PS
1a
KNR
1c
VO
LRB

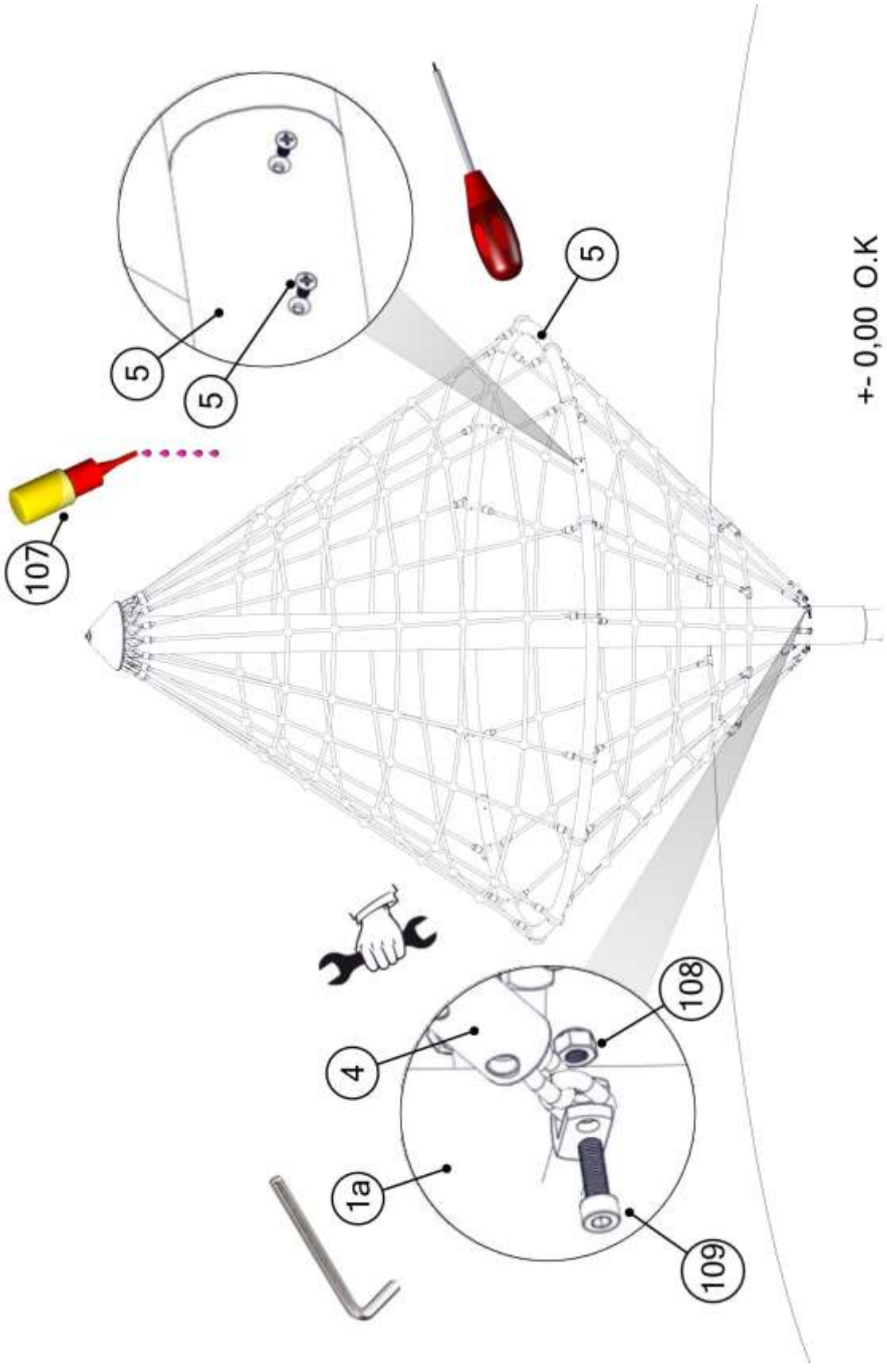

Pos 1
Pos 110


Pos 1
Pos 111
Pos 110

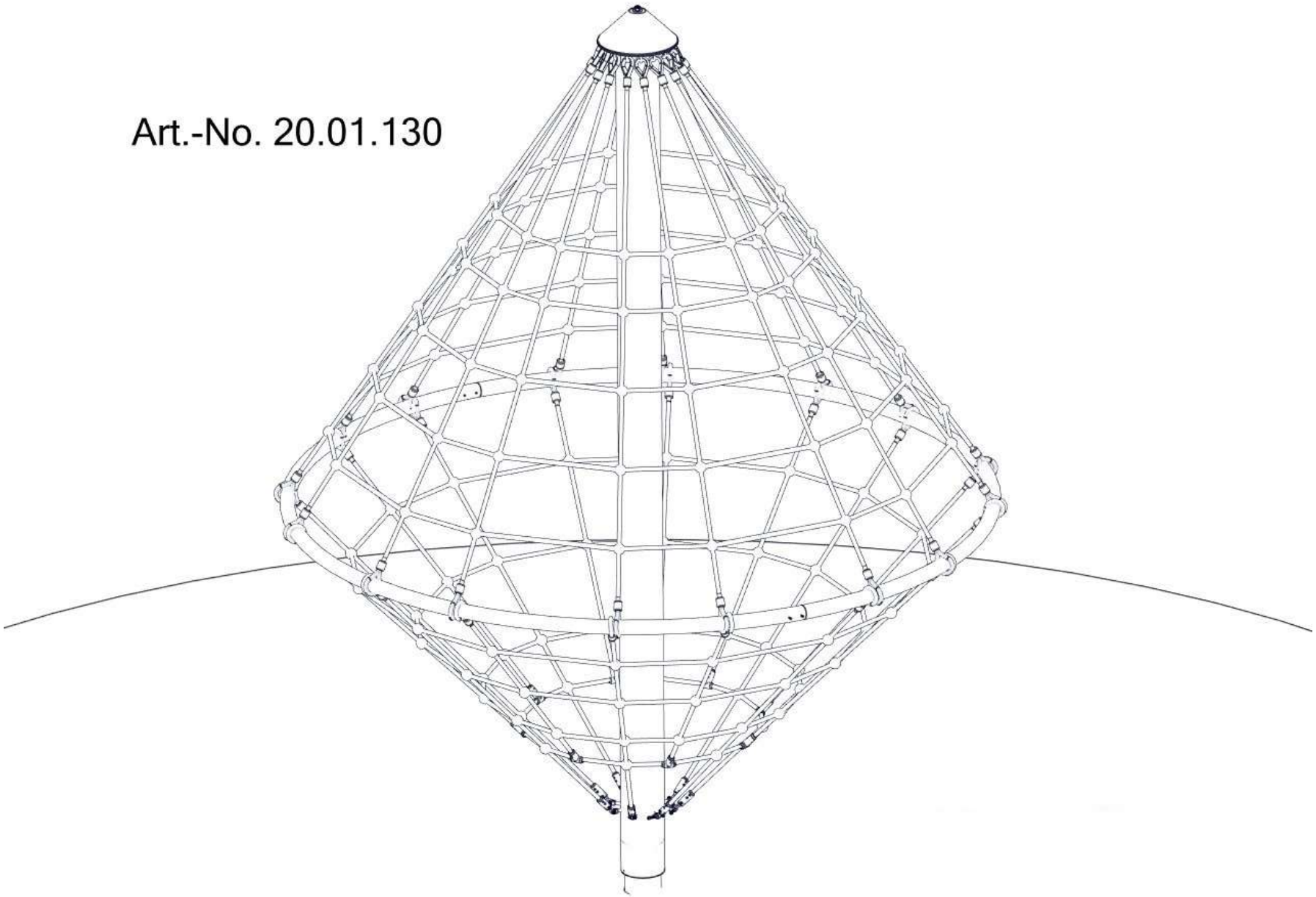

Flüssigbeton C25/C30 befüllen
Fill liquid concrete C25/C30
AB
C25/30


Pos 111


2
102
101
5
4
1b
3
105
104
+- 0,00 O.K
5
103
100
106


+- 0,00 O.K
5
5
5
107
4
1a
108
109

Art.-No. 20.01.130



	Explanation of abbreviations and symbols:
AB	**The required setting and drying times of concrete must be observed**
D	C25/30 concrete for the foundation
F	Fall protection
G	Drainage layer
Gehw. Pl.	Underly the post so that it does not sink into the ground while concrete is drying.
O.K	Upper edge of playground
PS	Use zone
VO	Pre-assembled
R100	Round of foundation edges
KNR	Foundation pipe for post
LRB	Fill foundation pipe with concrete and allow to dry before further installation

4 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:

- Safe equipment installation 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 made.

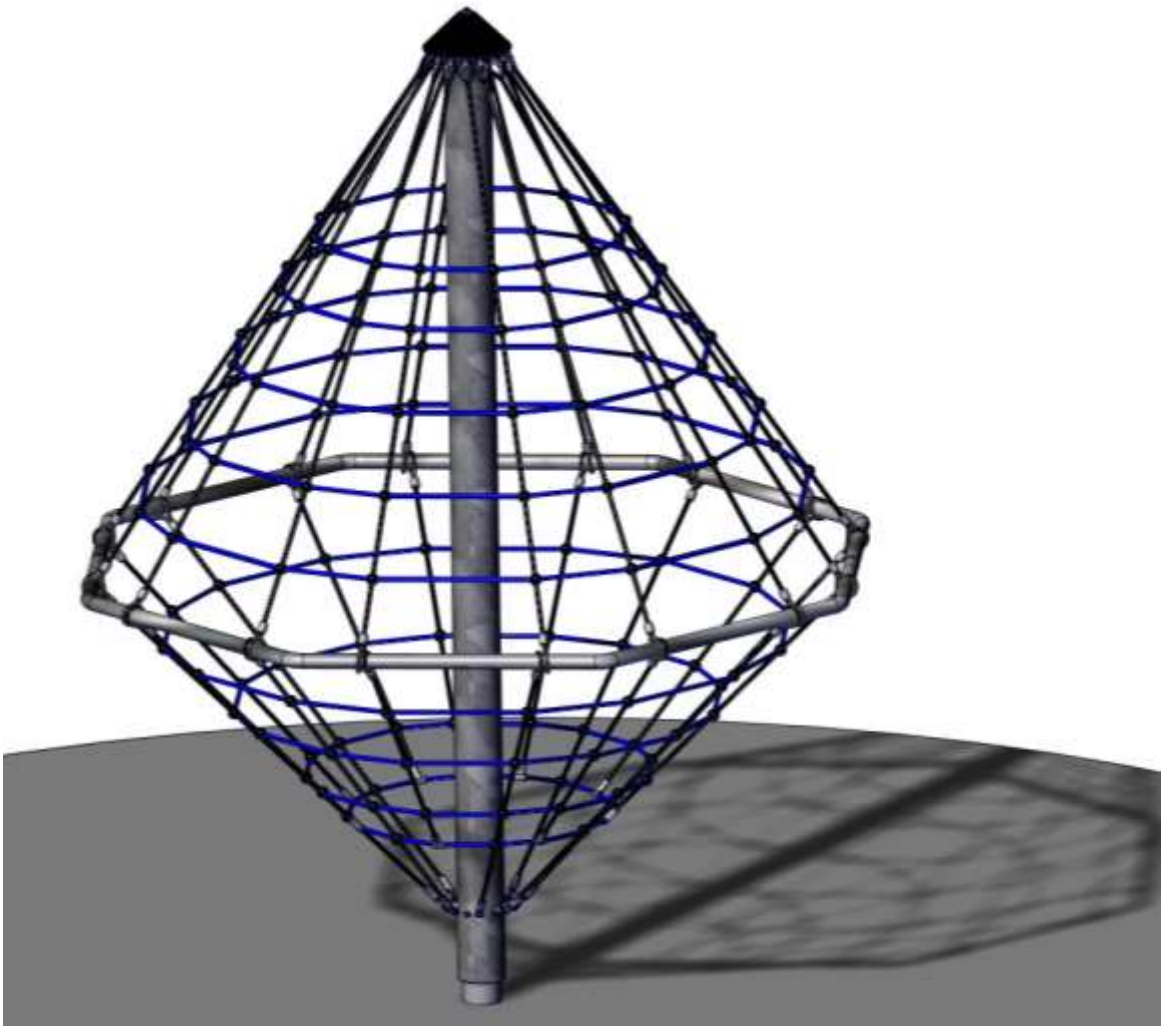
4.4 Information about inspection of the equipment before it is used for the first time

- 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 for “Climbing Whirl” Art. 20.01.130



Revision history
Revision 4 – 2020-02-12 JS

First approved version

Assembly instructions

Revision 0 – 2018-12-06

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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 1176-1:2008”.

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 for the disposal of individual equipment components.

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



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.

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 (e.g. look out for holes you can see through).

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 Safeguarding the guarantee

Steel posts and footings are guaranteed if regular maintenance is carried out and recorded in writing. 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.

7 Maintenance timetable

7.1 Special advices

7.1.1 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.

7.1.2 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.

7.1.3 Faults that compromise safety



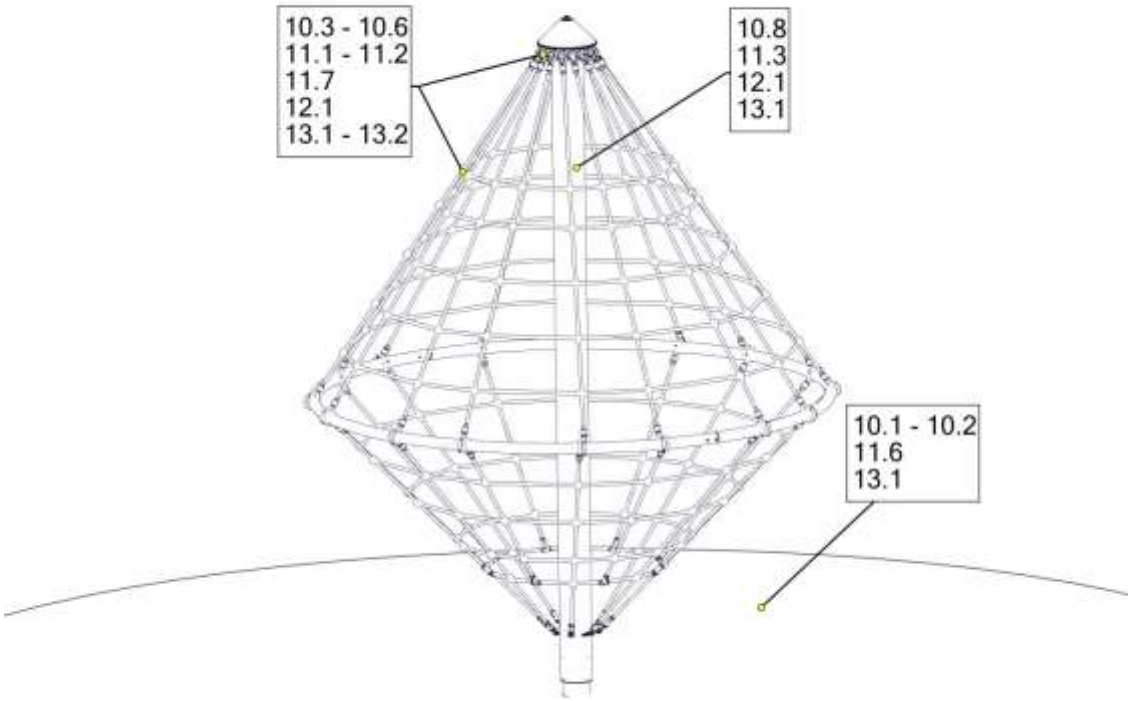
In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

7.1.4 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.

8 Regular maintenance



9 Monthly maintenance

- **10.1** Check the spaces between the equipment and the ground (clearance and height of fall).
- **10.2** Check the ground surface in the area with 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 maaterial 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.

10 Quaterly 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 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.
- etighten all bolts

11 half-yearly maintenance

- **12.1** Stability (check posts, bracing, foundations, etc.).
- **12.2** 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.



Annual Maintenance

12 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.



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

13 Maintenance printout

Name of item: “Climbing Whirl”_____ / Art. No. 20.01.130 _____

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 0049 -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.: 20.01.130

Type of item: “Climbing Whirl”

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: _____