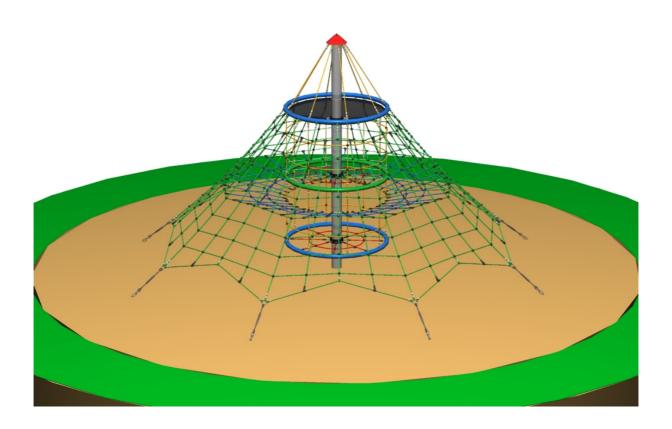


A Assembly Instructions

Dino 2, Rope Net Pyramid
Art. 10.02.100 (Set into Concrete)





Revision history Revision 0 – 2007-11-01

The first allowed version

Assembly instructions

Revision 7 – 2012-06-19 R4000 O.K FH

All rights reserved

© Copyright 2007 Huck Seiltechnik GmbH



Contents:

| A Assembly Instructions | 1 |
|--|----|
| 1 Introduction Assembly | 4 |
| 2 Datasheet | 5 |
| 3 Delivery Contents (parts list with part numbers) | 7 |
| 4 Erection Instructions | 11 |
| 5 Post Installation Checks | 26 |
| B Maintenance Instructions | 27 |
| 6 Introduction Maintenance | 29 |
| 7 General Maintenance Information | 30 |
| 8 Regular Maintenance | 32 |
| 9 Maintenance Timetable | 34 |
| 10 Monthly maintenance | 35 |
| 11 Quarterly maintenance | 35 |
| 12 Half yearly maintenance | 35 |
| 13 Annual maintenance | 36 |
| 14 Maintenance printout | 37 |
| 15 Hand over document | 38 |
| | |
| List of Tables | |
| Table 3.1: Delivery contents, in words | 7 |
| Table 3.2: Delivery contents, in symbols | 8 |



1 Introduction Assembly

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.



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.



2 Datasheet

- 1. Space requirement: Ø 8.00m and Ø 10.00m including safety zone, height of fall 1.50m
- 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 | <= 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 ground materials | As recommended by manufacturer | | |

- 3. Name and overall dimension of the largest component: steel post (1 item) length 5.30m, ø 193,7mm
- 4. Name and weight of the heaviest component: steel pole (1 piece) approx. 138 kg
- 5. Intended age group: 6 years and over
- 6. Please note that this equipment is set in concrete.

Concrete: C25/30

Required concrete: 4.50 m³

Foundations/area to be excavated:

1 x 1.20m long x 1.20m wide, total depth 1.10m including 10cm drainage 8 x 0.80m long x 0.80m wide, total depth 1.10m including 10cm drainage





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. Tools required: wheeled excavator with a lift of approx. 4 m or similar lifting equipment, approx. 4 m-long ladder, ground compactor, spirit level, various spanners, water-level gauge, or level.
- 8. Assembly time, once foundations complete: 5 6 hours. Required assistance: 2 3 people.
- 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.

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 Delivery Contents (parts list with part numbers)

3.1 In words

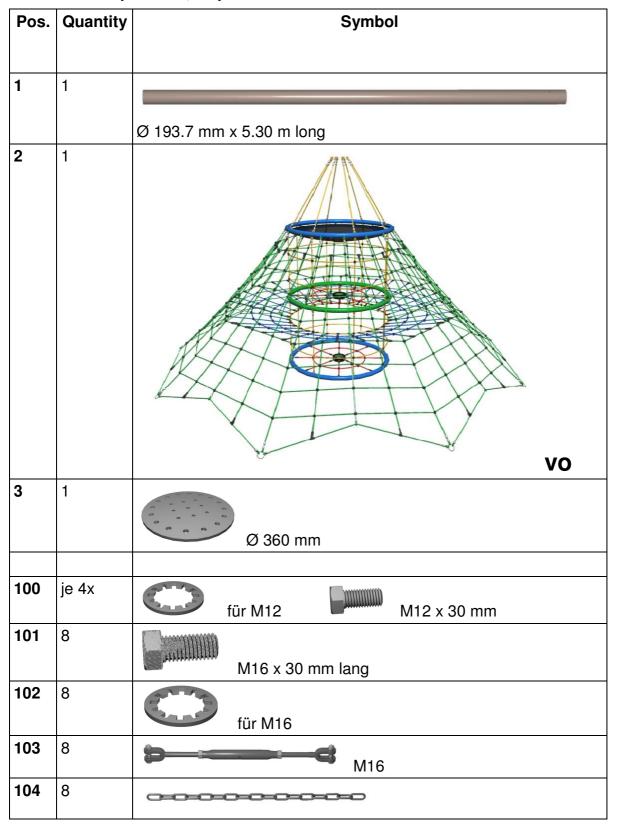
Table 3.1: Delivery Contents, in words

| Pos. | Quantity | Element / Description | Size | O.K. | Missing |
|---------|----------|---|------------------------|------|---------|
| 1 | 1 | Steel post | Ø 193.7mm – L. 5.30m | | |
| 2 | 1 | Play part (pre-assembled) | | | |
| 3 | 1 | Top plate (hot-dip galvanised) | | | |
| | | | | | |
| 100 | 4 | Hexagonal screws with | M12 x 30 mm | | |
| | 4 | Tooth washers (for Pos.1) (galvanised) | for M12 | | |
| 101 | 8 | Hexagonal screws (galvanised) | M16 x 30 mm | | |
| 102 | 8 | Tooth washers (galvanised) | M16 | | |
| 103 | 8 | Turnbuckles (galvanised) | M16 | | |
| 104 | 8 | Anchor chains | Type-13 chain | | |
| 105 | 5 sets | 2-piece clamp protection rings | | | |
| | (10 pcs) | | | | |
| 106 | 33 | Wood screws | 4.5 x 60 mm | | |
| 107 | 1 | Cap Ø 375 mm | | | |
| 108 | 1 | Threaded rod M16 | | | |
| 109 | 8 | Curved shackles (for items 104 and 111), galvanised | | | |
| 110 | 2 | Loctite | | | |
| 111 | 8 | Ground pegs | | | |
| 113 | 1 | Brush | | | |
| 114 | 2 | Hexagonal nuts | M16 | | |
| 115 | 1 | Black cap for M16 | | 1 | |
| 116 | 1 | Washer for M16 | | 1 | |
| Gew.pl. | 1 | Steel Anker plate | | | |
| • | 1 | Drainpipe Drainpipe | Aprox. Ø 400 mm x 1000 | 1 | |
| | 1 | (to be provided by customer) | mm long | | |
| | | | | | |



3.2 In symbols

Table 3-2: Delivery contents, in symbols





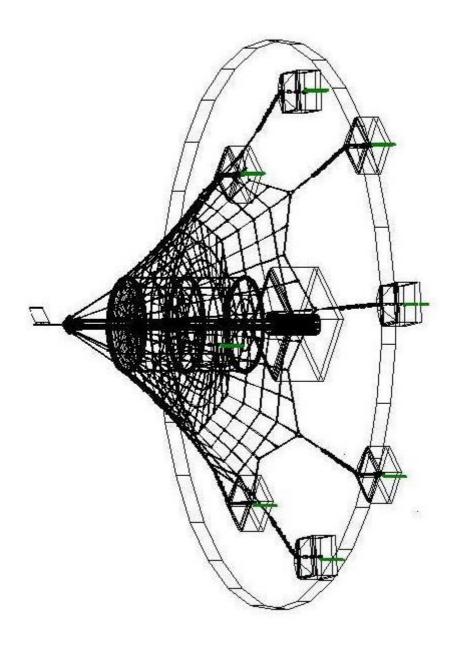
| Pos. | Quantity | Symbol |
|------|----------|--------------|
| 105 | 5 sets | |
| | (10 pcs) | |
| 106 | 33 | <u> </u> |
| 107 | 1 | Ø 375 mm |
| 108 | 1 | |
| | | M16 x 165 mm |
| 109 | 8 | |
| 110 | 2 | |
| 111 | 8 | |
| 112 | 1 | ? |
| 113 | 1 | |
| 114 | 1 | M16 |
| 114a | 1 | M16 |
| 115 | 1 | for M16 |
| 116 | 1 | for M16 |



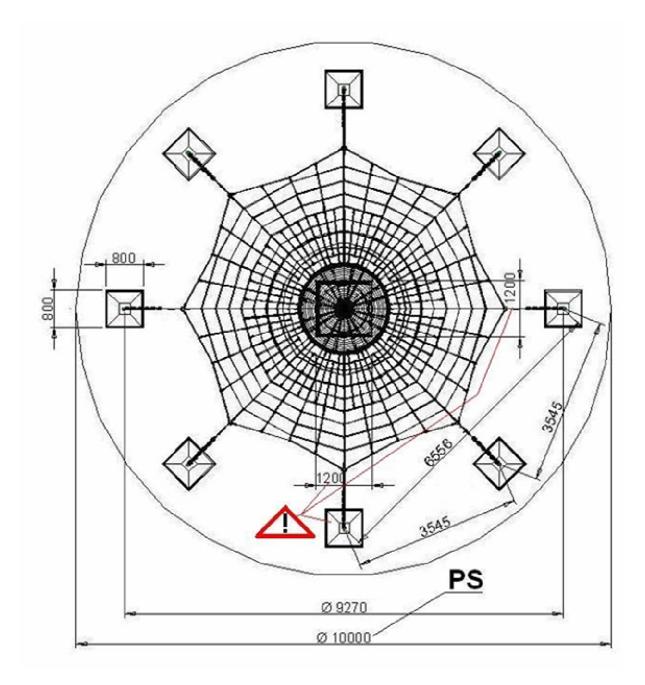
| Pos. | Quantity | Symbol |
|---------|----------|--------|
| | | |
| Gew.pl. | 1 | |



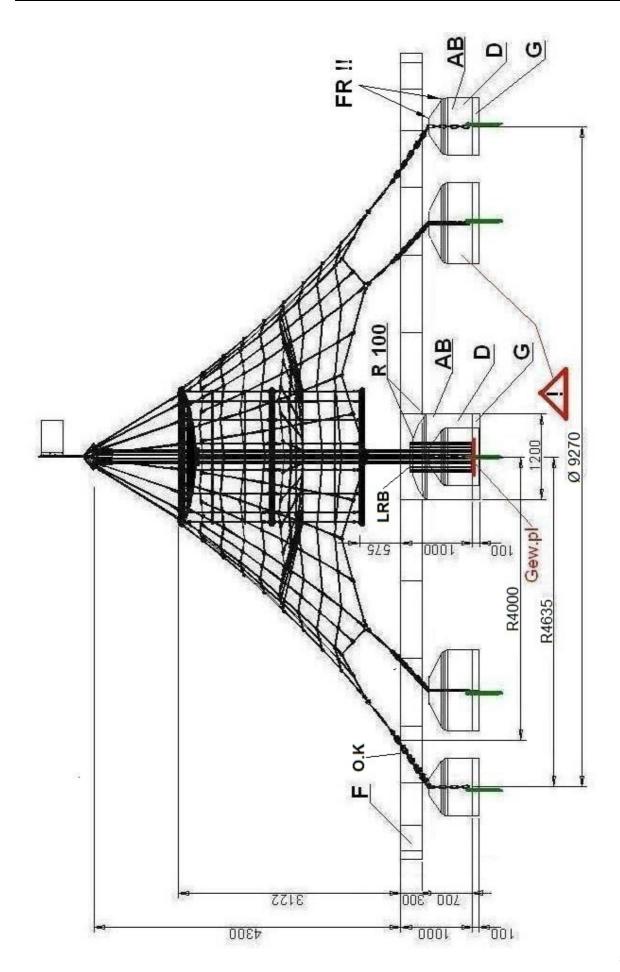
4 Erection Instructions



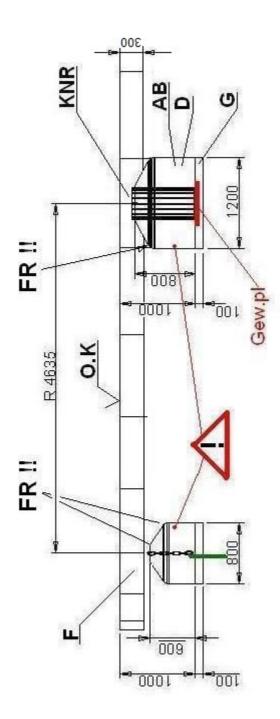




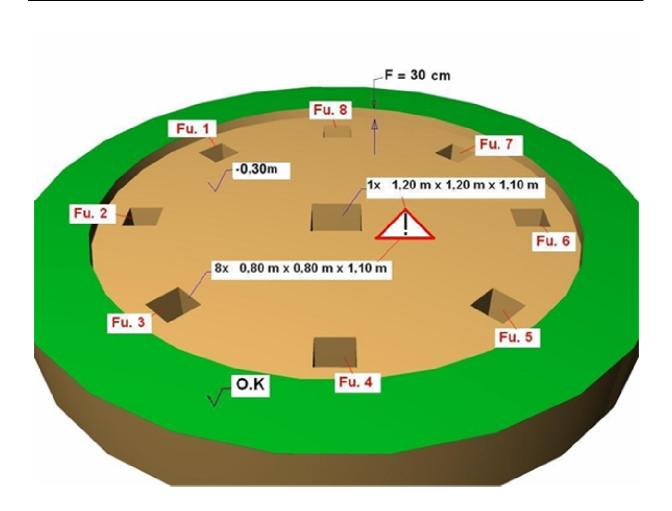




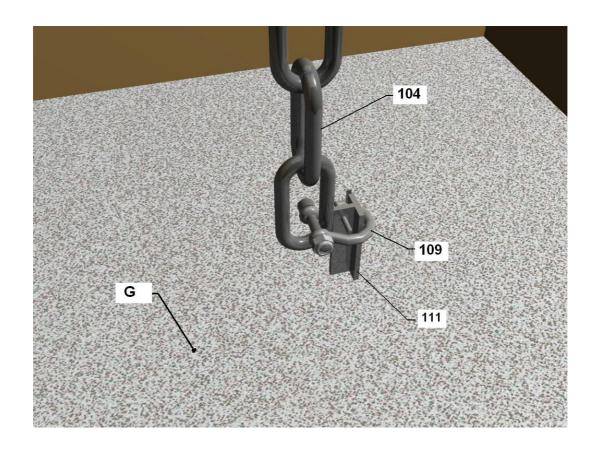


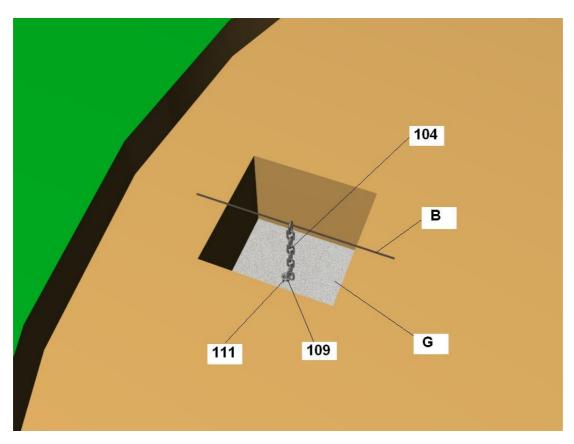




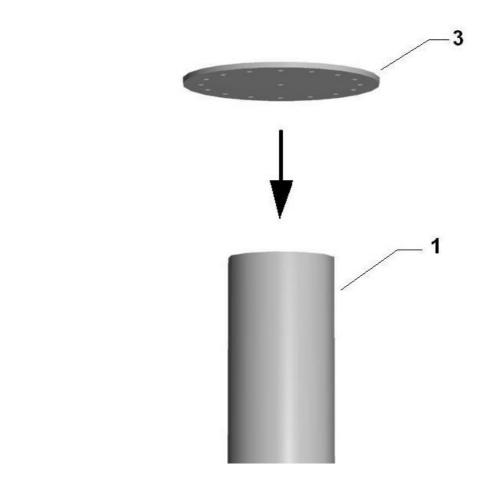


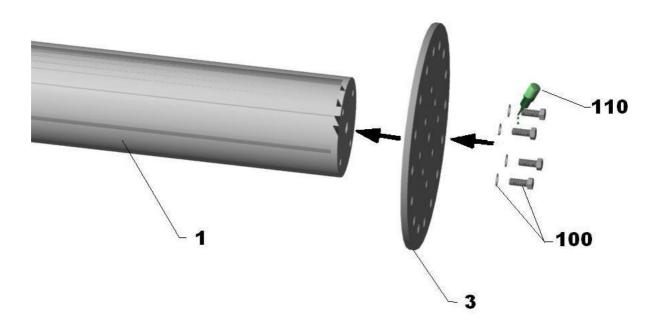




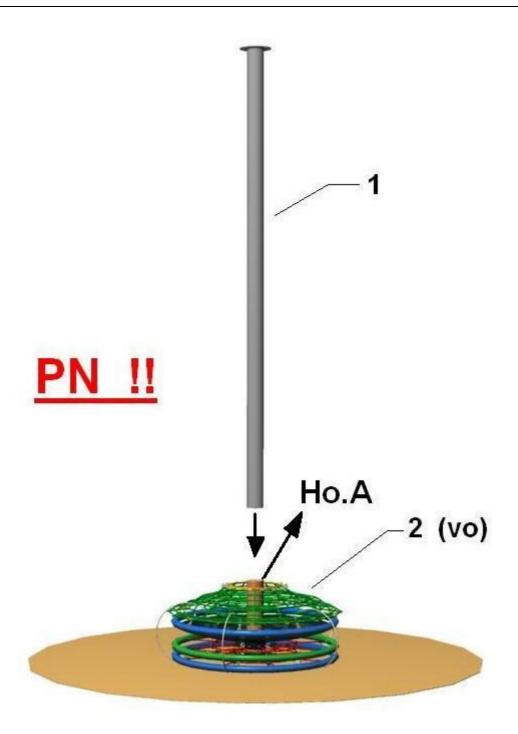




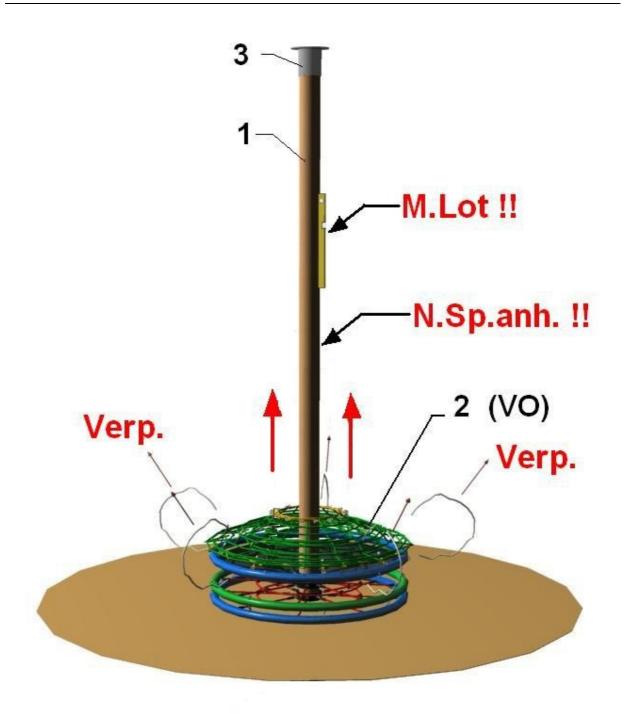




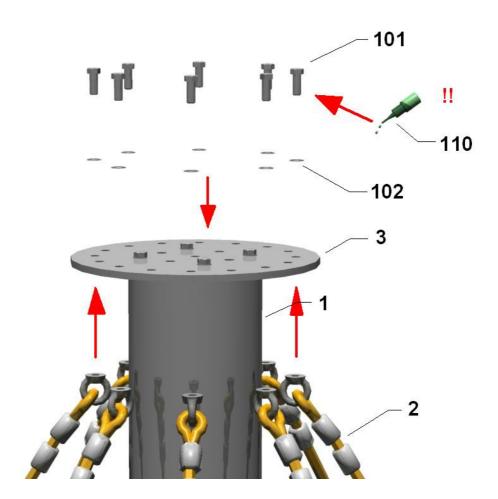




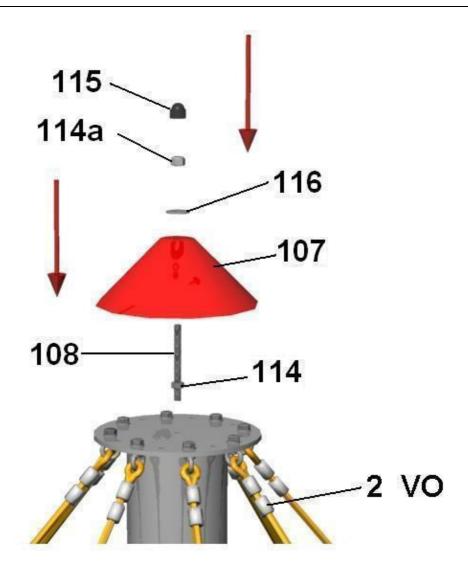




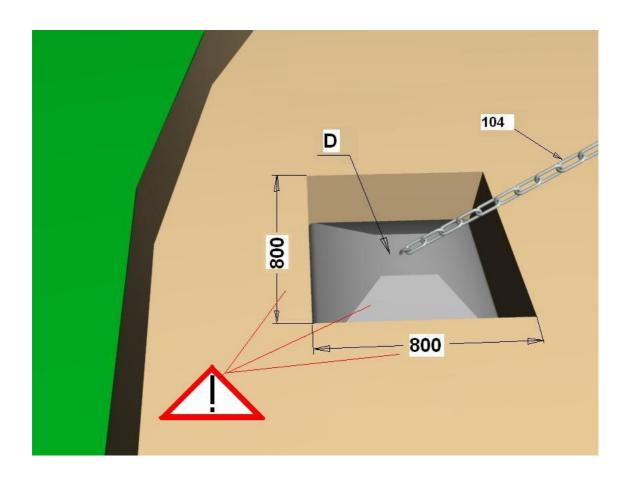


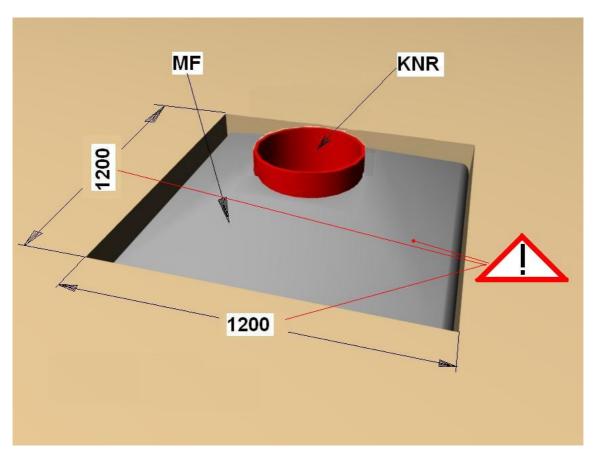




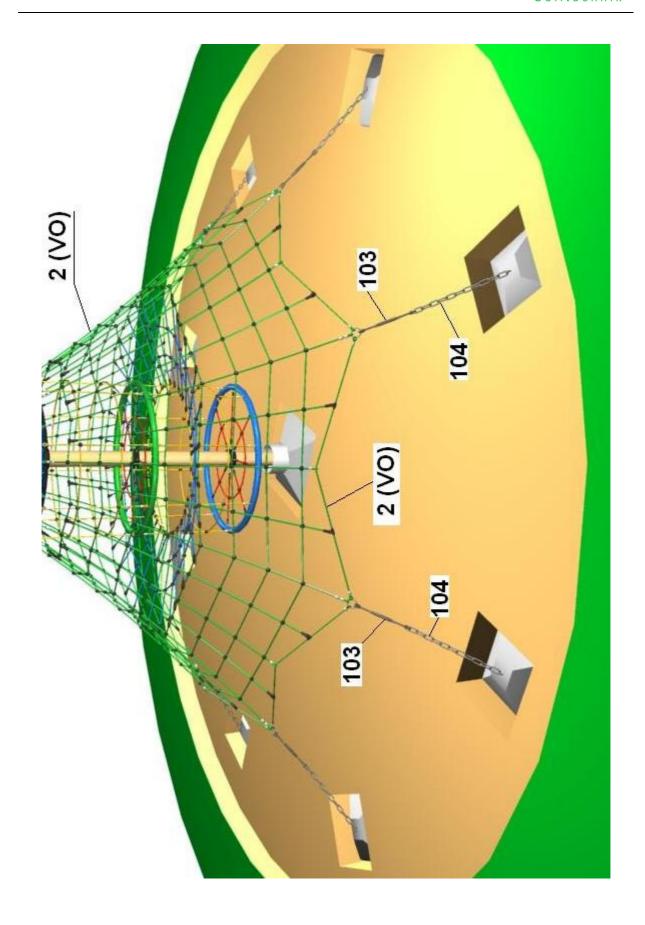




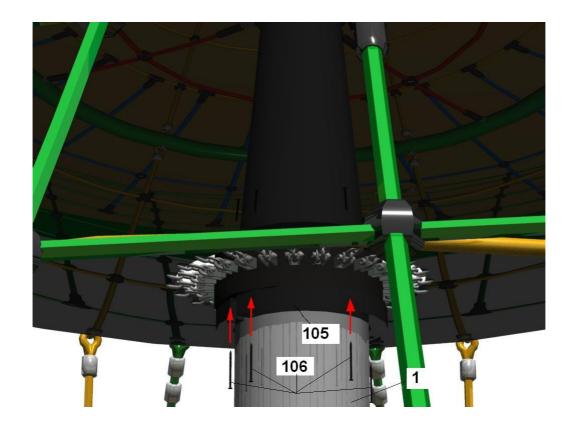


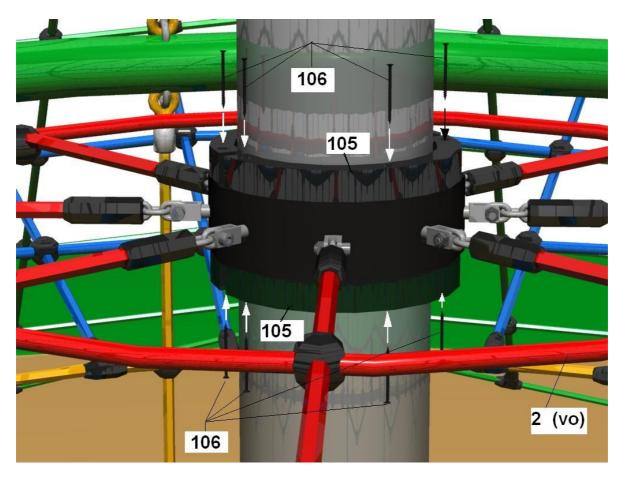




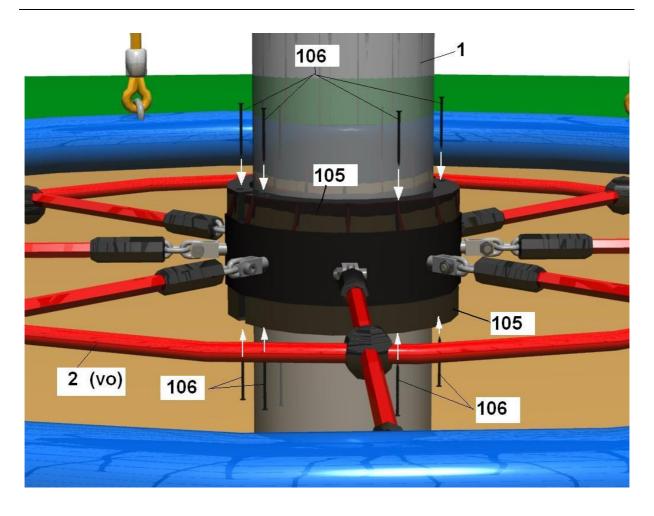


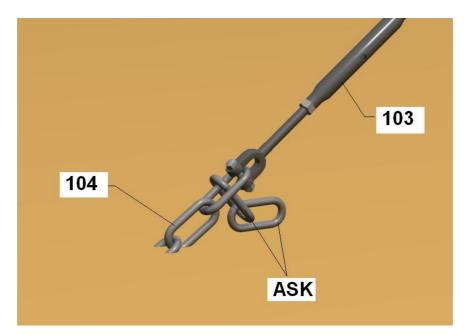














| | Abbreviations: | |
|-------------|---|--|
| AB | Setting time 7-8 days | |
| ASK | Anchor chains | |
| A.R. | Place the ring nut in this position | |
| D | C25/30 concrete | |
| | | |
| F | Fall protection | |
| Gew.pl | Steel Anker plate | |
| G | Drainage layer | |
| Ho.A | Wood adaptor in netting (see also PN) | |
| O.K | Top surface of playing area | |
| LRB | Fill space between pipe and steel post with liquid contrete. | |
| PN !! | Lay netting part "packet" (secured with wood adapter Ho.A) centrally over the drainage tube, carefully remove wood adapter and then stand the mast (item 1) in the middle of the drainage tube. | |
| Verp. | Open packing ties | |
| N.Sp.anh.!! | Raise pre-assembled netting/play part for installation with large enough lifting equipment (e.g. excavator) | |
| PS | Space required incl. safety area (78,5 m²) | |
| STM !! | Pay attention to positioning of ring nut | |
| ML | Pole length above play height | |
| MF | Central foundation | |
| VO | Pre-assembled | |
| WH | Important notice | |
| Inkl. F | Excavated soil including fall protection | |
| KNR | Drainpipe (e.g. concrete or PVC duct, Ø 400 mm / L. 1.00 m on site) | |
| M.Lot !! | Post must be set up perpendicularly | |
| <u></u> | 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



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

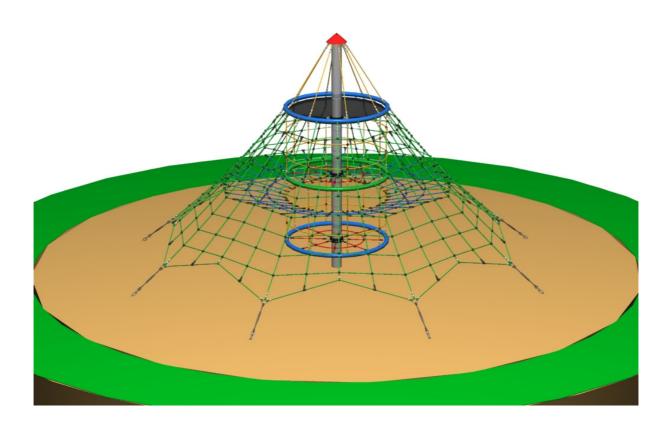
 After one week of play, please retighten all bolts again. Later upon respective maintenance.



B Maintenance Instructions

Dino 2, Rope Net Pyramid

Art. 10.02.100 (Set into Concrete)





Revision history Revision 0 – 2007-11-01

The first allowed version

Maiantanance instructions

Revision 7 – 2012-06-19 R4000 O.K FH

All rights reserved

© Copyright 2007 Huck Seiltechnik GmbH



6 Introduction Maintenance

6.1General Information

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 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



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.

7.10Loose 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).

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 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.

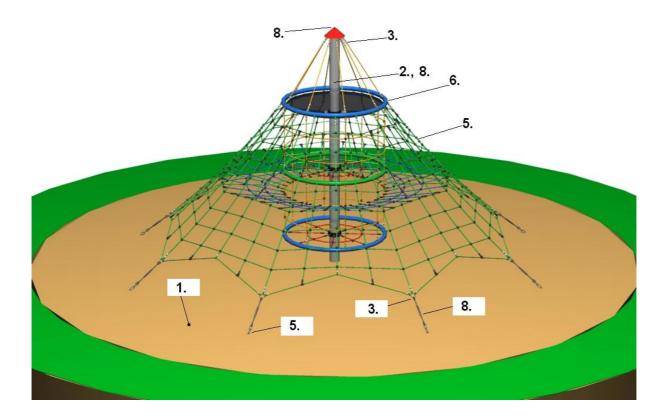
Zinc paint should be applied to any corroded areas and scratches.

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



8 Regular Maintenance

8.1 (Image)





8.2 Regular Maintenance

M = monthly Y = 1/4 quarterly Y = 1/2 yearly

| | | М | 1/4 Y | ½ Y |
|----|---|---|-------|-----|
| 1. | Check ground in fall and protection area for hard objects and loose foundations. | Х | | |
| 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. | Х | | |
| 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. | Х | | |
| 5. | Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary | Х | | |
| 6. | Check rubber parts, sleeves, rings etc. for wear and tear or damage and replace if necessary. | Х | | |
| 7. | Check the surface of wooden parts for damage caused by the weather or external influences. Repair (Paint with glaze) or replace if necessary. | Х | | |
| 8. | Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary. | Х | | |

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

9.2 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.

9.3 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.

9.4 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.

9.5 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.



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

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 the manufacturer.

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



| 14 Maintenance Printout | |
|---|----------------------|
| Name of Item: Dino 2, Rope Net Pyramid | / Art. No. 10.02.100 |
| Location: | |
| Customer or operator: | |
| (Local Authority, Town Council, School, etc.) | |

| Date of inspection | Inspector | O.K. | Accessible | Barriered | Defects | Repaired by | Date |
|--------------------|-----------|------|------------|-----------|---------|-------------|------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



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.

| ArtNo.: 10.02.100 | |
|---------------------------------------|---|
| Name of Item: Dino 2 (Set into Concre | ete) |
| Serial Number: | |
| | |
| Customer or Operator (Local Aut | thority, Town Council, School, etc.): |
| oustomer or operator (Local Au | thority, rown council, concol, ctc.). |
| | |
| | |
| | |
| | |
| Competent Person in Charge: | |
| | |
| | |
| | |
| | |
| Installation Company (Address): | |
| , , , , , , , , , , , , , , , , , , , | |
| | |
| | |
| Decree with Assistant (Assistant) | |
| Responsible Assistant (Assembler) |): |
| | |
| | |
| | |
| | nstructions, maintenance instructions and |
| maintenance printout | |
| | |
| | |
| (Signature of Operator) | (Signature of Installation Company) |
| (Stamp) | |