

A Assembly Instructions

Beehive Carousel, Art. 20.05.120



Revision history

Revision 0 – 2004-06-08

First approved version

Assembly instructions

Revision 1 – 2008-06-12

Fallschutz 400 mm

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1 Introduction Assembling

1.1 General information

This equipment should be installed, inspected, maintained and operated in accordance with EN1176-7 guidelines.

Before installation work commences, please check that you have all of the equipment and fixation components in the parts list provided (see Tables 3-1 and 3-2).

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

Please do not hesitate to call us on **01308 425100** if you have any problems during installation or with any other questions.



Attention

Following installation, complete assembly instructions, maintenance instructions and a maintenance record must be sent to the operator who must confirm receipt in writing. See the last page of this document.



Attention

All nuts and bolts are hot-dip galvanised or stainless steel. One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

We hereby confirm that this play equipment has been tested and certified in accordance with the play equipment standard EN 1176.

2 Datasheet: Beehive Carousel, Art. 20.05.120

1. Space requirement: Ø 2.00 m and/or Ø 7.00 m including safety zone, height of fall 1.70 m
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	400	<= 3000
Wood chippings	5 – 30 grain size	400	<= 3000
Sand	0.2 – 2 grain size	400	<= 3000
Gravel	2 – 8 grain size	400	<= 3000
Other ground materials	As recommended by manufacturer		

3. Name and overall dimension of the largest component:
Steel post to dig in (1 item) length 3.00m, Ø 159 mm
4. Name and weight of the heaviest component:
Steel post to dig in (1 item), 63 kg
5. Intended age group: 3 years and over
6. **Attention! Dig-in system, no concrete necessary**
Area to be excavated:
1 x 0.80 m long x 0.80 m wide, total depth 1.00 m including 10 cm drainage
7. Assembly time, once excavation is complete: approx. 2 hours.
Required assistance: 2 people.
8. Any spare parts which may be required can be obtained directly from your supplier
9. **We hereby confirm that this item of play equipment has been tested and certified in accordance with the play equipment standard EN 1176.**

3 Delivery contents (parts list with part numbers)


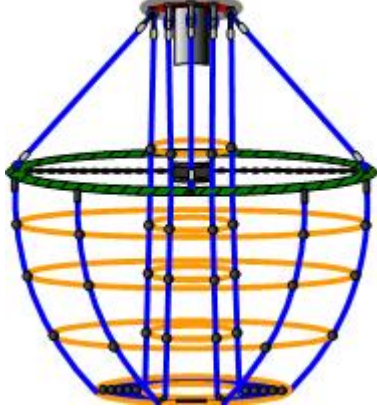








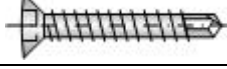

3.1 In words

Table 3-1: Delivery contents, in words

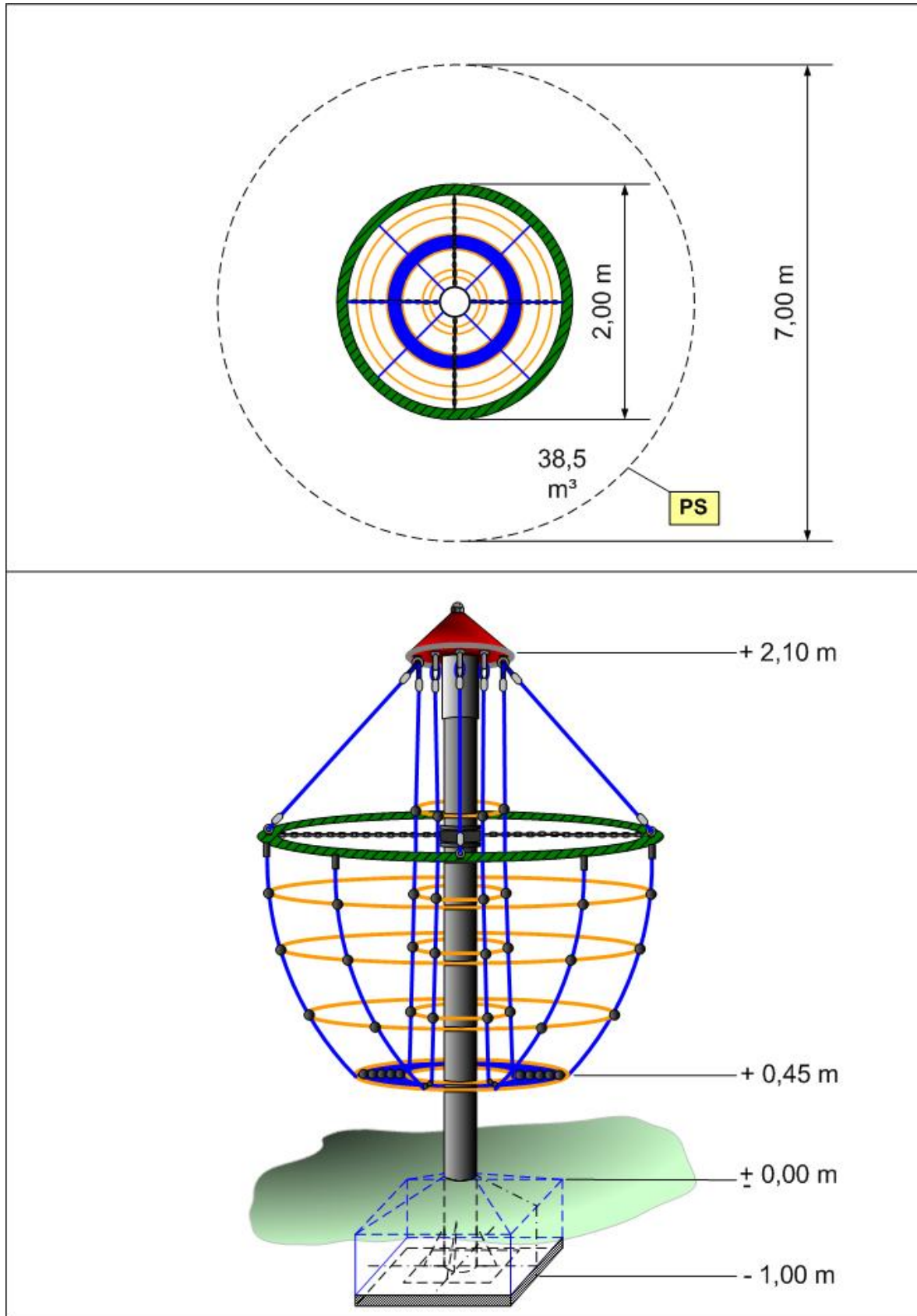
Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Steel post to be dug into the ground	Ø 159 mm, 3.00 m long		
2	1	Netting, Ø 2.00 m (preassembled)	Ø 2.00 m		
3	2	Protective clamping rings	Ø 159 mm		
4	1	Green sliding disc	Ø 159 mm		
5	1	Metal cover (red)	Ø 375 mm, 140 mm high		
100	1	Threaded rod	M16 x 165 mm long, VA		
101	1	Hexagon nut, DIN 934	M16, VA		
101	1	Washer with large external diameter, DIN 9021	Ø 17 mm, VA		
103	1	Stop nut, DIN 985	M16, VA		
104	1	Cap, black	For M16		
105	8	Self-tapping PIAS screws	6.3 x 38 VA		
106	1	Bag of grease			

3.2 In symbols

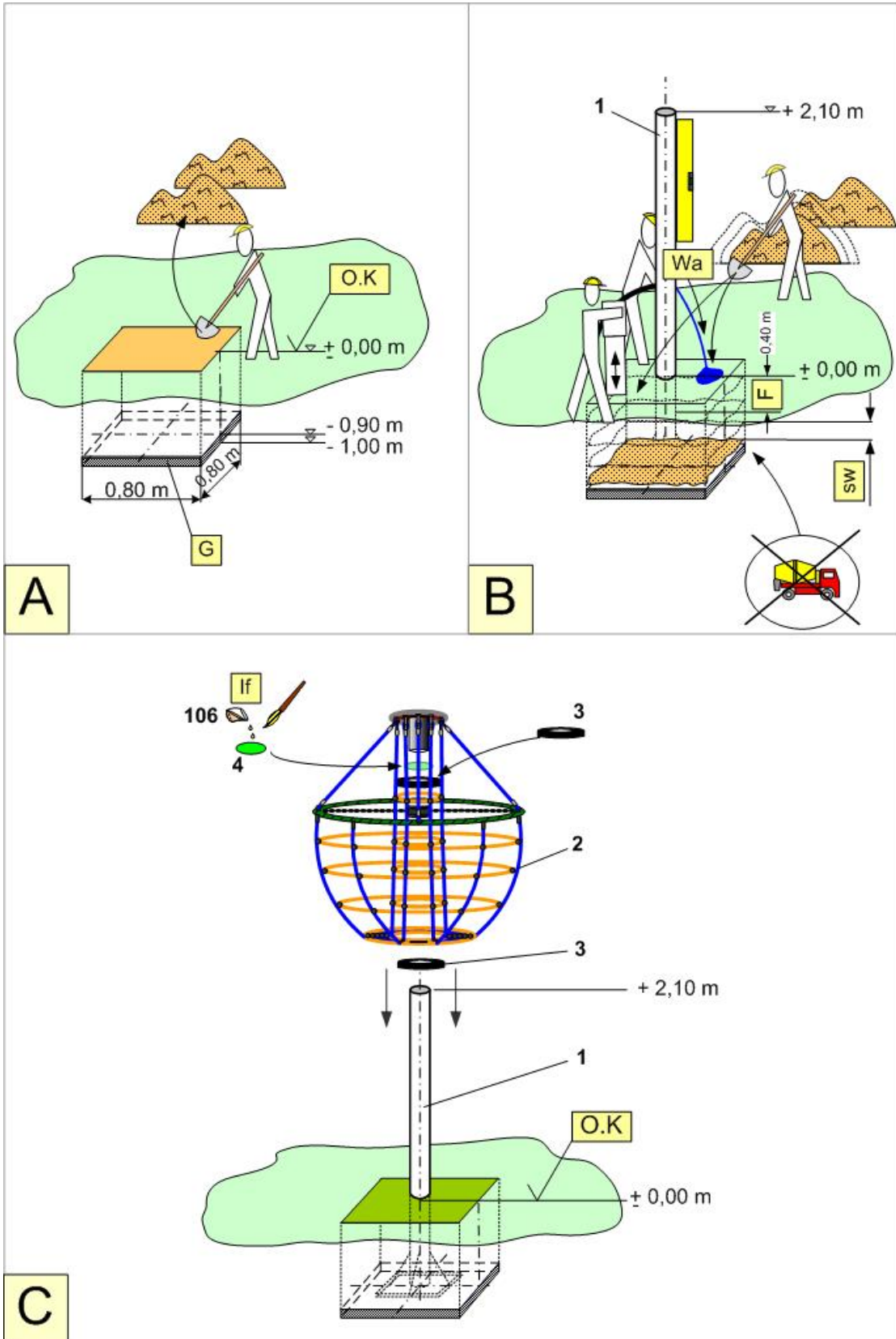
Table 3-2: Delivery contents, in symbols

Pos.	Quantity	Symbol
1	1	
2	1	
3	2	
4	1	
5	1	
100	1	
101	1	
102	1	
103	1	
104	1	
105	8	
106	1	

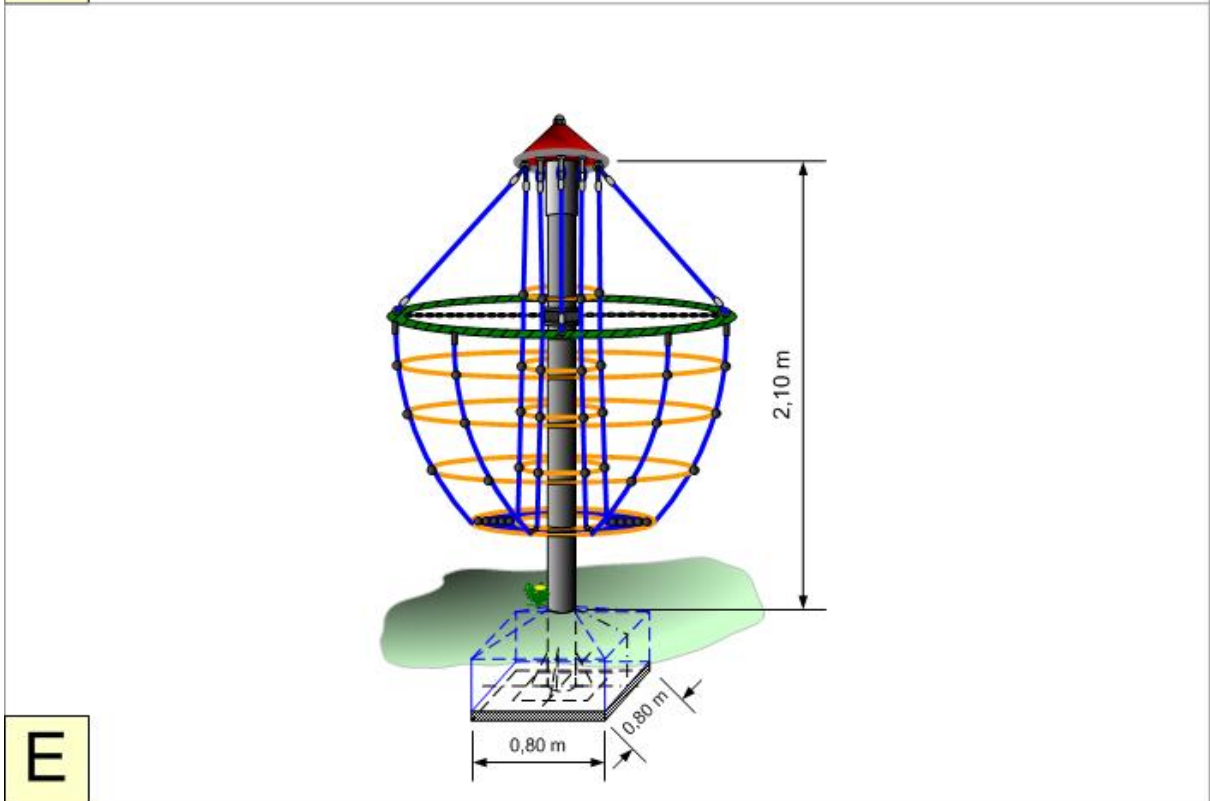
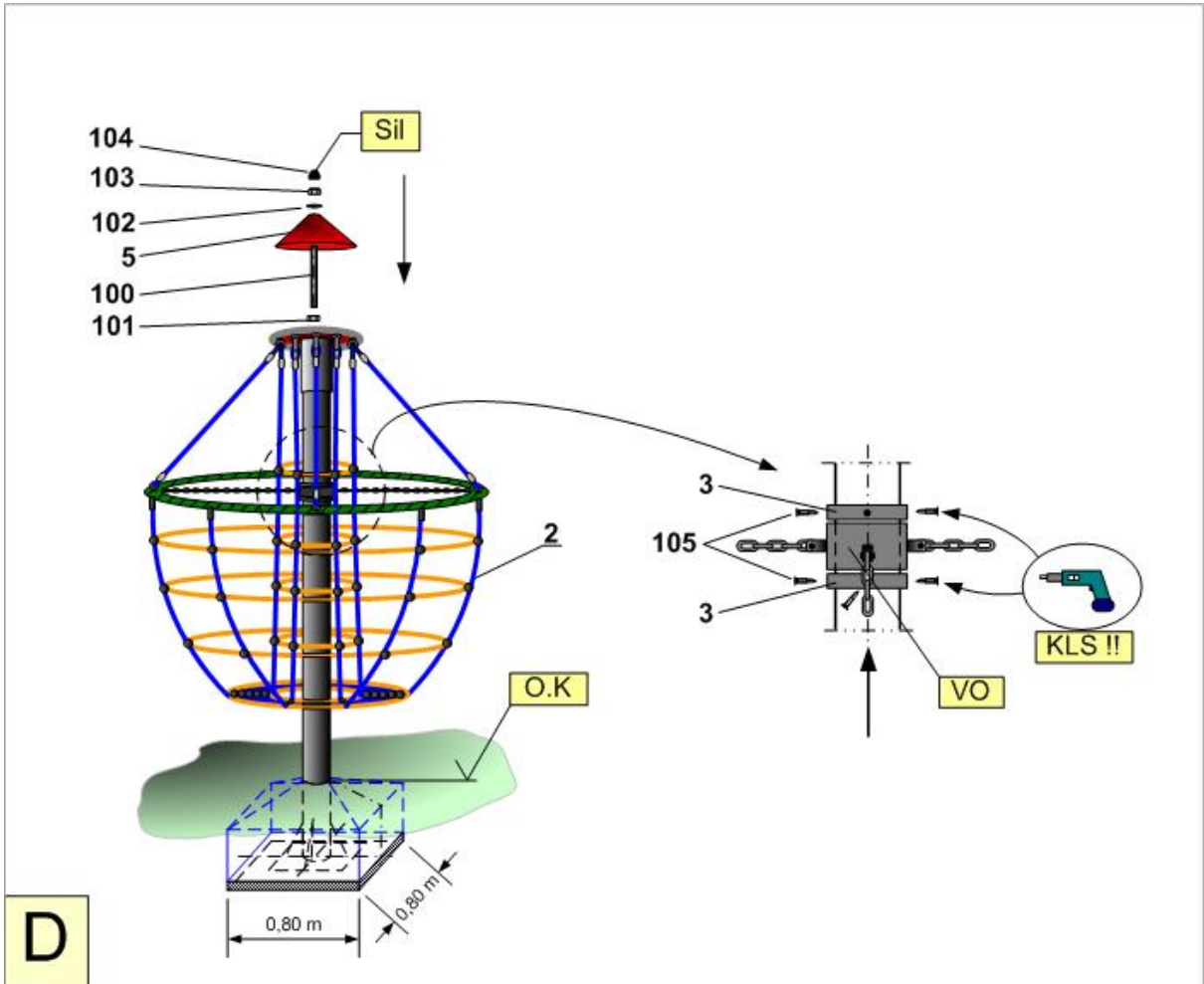
4 Erection Instructions



M:\Spogg\Deutsch\2005120df\Montageanleitung\dot\Bilder\B11.vsd Montag, 14. Juni 2004



M:\Spogg\Deutsch\2005120 Bienenkorb-Kanussellaktuelle Montageanleitung\dotr\Bilder\BI2.vsd\Donnerstag, 12. Juni 2008



F	Fall protection (40 cm thick)
G	Drainage layer (10 cm thick)
If	Grease lightly
O.K	Upper edge of playing level
KLS	The protective clamping rings are screwed on when the chain of the 4-lug ring is taut (the lower clamping ring first.)
PS	Space requirement including safety zone
Sil	Affix with silicone
sw	In layers
VO	Preassembled
Wa	Water

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

Beehive Carousel, Art. 20.05.120



Revision history

Revision 0 – 2004-06-08

First approved version

Maintenance instructions

Revision 1 – 2008-06-12

Fallschutz 400 mm

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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 1176-1:1998”.**

7 General Maintenance Information

7.1 Maintenance intervals

Maintenance intervals are based on average use. Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

7.2 Inspection frequency

The frequency of inspections must be based on actual use. Factors that affect frequency include vandalism, location (e.g. coastal proximity), air pollution and the age of the equipment.

7.3 Maintenance products and procedures

All nuts and bolts are hot-dip galvanised or stainless steel. One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

7.4 Spare parts

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

7.5 Identifying spare parts

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

7.6 Special instructions for the disposal of individual equipment components

No special instructions are necessary for the disposal of individual equipment components.

7.7 Special measures during the break-in period

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

7.8 Drainage holes

All drainage holes should be kept clear.

7.9 Maintenance of protective surfaces

Surfaces providing fall protection must also be maintained regularly. It is particularly important to maintain the correct level of loose surface material and add more if necessary.

7.10 Faults



Attention

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.

7.11 Loose screws



Attention

Loose screws always cause quality problems and put safety at risk. Therefore, loose screws should always be tightened and checks carried out to ensure that there are no missing screws (e.g. look out for holes you can see through).

7.12 Preventing equipment use

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

7.13 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.

8 Specific maintenance advice

None

9 Maintenance Timetable

9.1 Special advices

9.1.1 Maintenance interval

We strongly advise you to carry out inspections and maintenance work within the specified periods as use of the equipment, the weather and malicious vandalism cause wear and tear that compromises the safety and function of the equipment.

9.1.2 Maintenance intervals in the event of intensive use

Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

9.1.3 Faults that compromise safety



Notice

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

9.1.4 Faults that compromise function



Notice

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 Quaterly 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



Annual Maintenance

12 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.
- Stability (check posts, bracing, foundations, etc.).
- 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 SPOGG Sportgüter GmbH

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

Periodic Maintenance Instructions

Beehive roundabout Art.-No. 20.05.120
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w = weekly m = monthly y = yearly

w m 1/4y 1/2y

1. Check the area where persons using the equipment might fall or slip for hard objects or foundations which have worn free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Check stability of the uprights.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Check all connection components and fittings for wear and see that they fit firmly, tighten up if necessary. Exchange damaged parts.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Check moving metal parts for easy movement and wear; exchange if necessary. There is no need to lubricate joints since only maintenance-free joints are used.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Check all attachments, such as chains, ropes, nets, etc. for damage and renew if necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Check rubber parts, sleeves, etc. for wear or damage and exchange if necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Check the surface quality of plastic and metal components for damage and exchange if necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Check the surface quality of wooden parts for damage caused by weathering or other external factors and rectify, exchanging if necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

It is recommended that the **checking and maintenance work** is carried out at the intervals shown, since wear and tear, which reduces safety and the equipment's ability to function properly, will be caused by normal play use, the effects of the weather and also by malicious damage.

Where faults adversely affect safety, urgent action is required either by immediate repair work or by dismantling the equipment or taking it out of use.

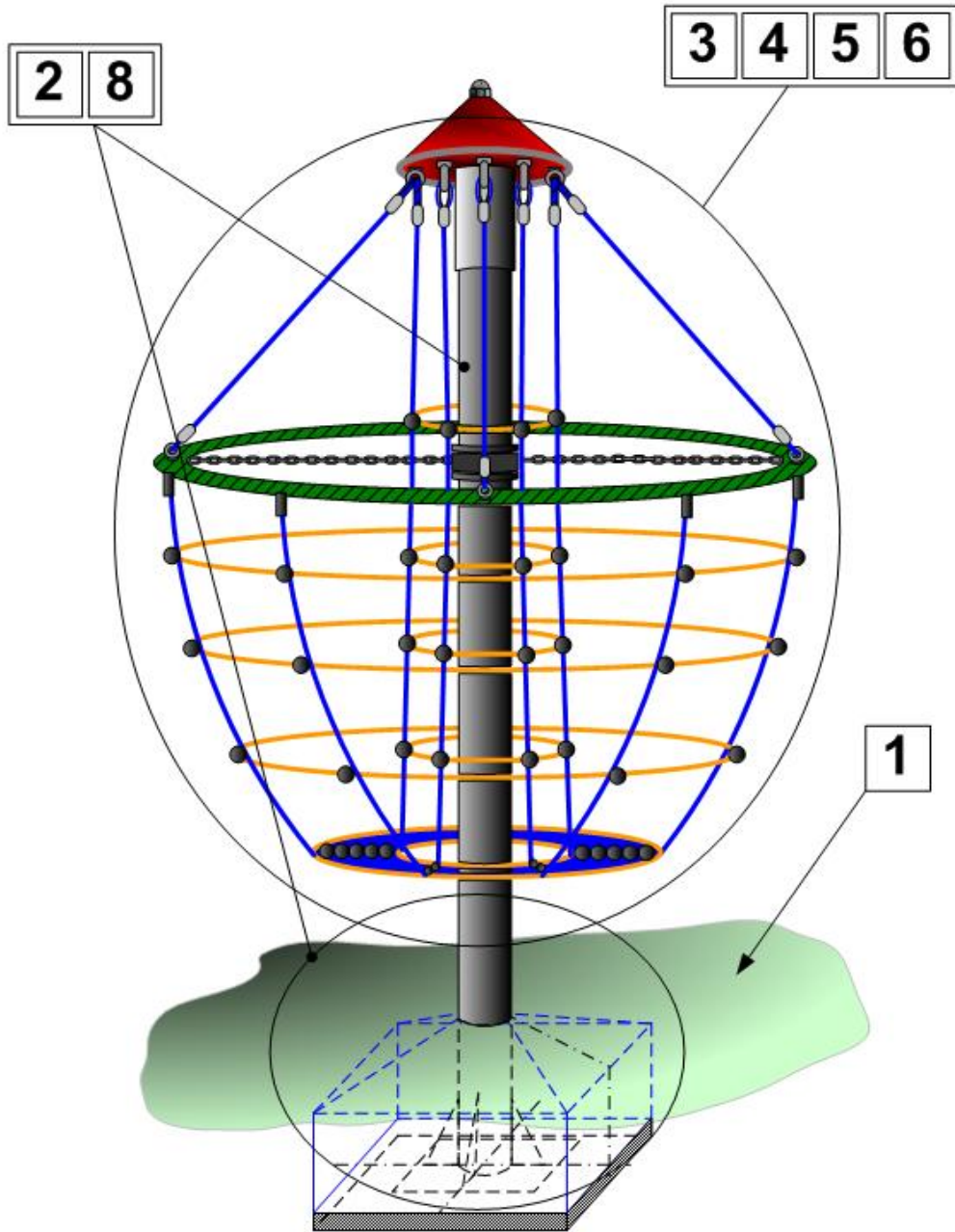
Those faults which affect the way the equipment functions reduce its play value and incite malicious damage, possibly rendering it unsafe. Here, too, immediate repairs should be undertaken.

Maintenance and repairs should only be carried out by trained personnel.

General Any item of play equipment which is regularly checked cannot become so damaged as to be dangerous. This presumes, of course, that regular checks are followed, where necessary, by repair work.

Periodic Maintenance Instructions

Behive roundabout, Art.-No. 20.05.120



13 Maintenance printout

Name of item: Beehive Carousel _____ / Art. No. 20.05.120 _____

Location: _____

Customer or operator: _____
(Local Authority, School, etc.)

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

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.: 20.05.120

Type of item: Beehive Carousel

Serial number: _____

Customer or operator (Local Authority, School, 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: _____