

A Assembly Instructions

Witch's Carousel

Art. 20.06.150



Revision history

Revision 0 – 2004-09-15

The first released version

Assembly instructions

Revision 3 – 2010-04-08 Tabelle

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Contents

A	Assembly Instructions	1
1	Introduction Assembling	4
2	Datasheet.....	5
3	Delivery contents (parts list with part numbers).....	8
4	Erection instructions.....	10
5	Post installation checks.....	15
B	Maintenance Instructions	17
6	Introduction Maintenance	19
7	General maintenance information	20
8	Specific maintenance advice.....	22
9	Maintenance timetable	24
10	Monthly maintenance	25
11	Quarterly maintenance	25
12	Annual maintenance.....	26
13	Maintenance printout	27
14	Hand over document.....	27

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 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 1176-1.

2 Datasheet: Mushroom Carousel, Art. 20.06.150

1. Space requirement: Ø 2.00 m
urgent recommended safety zone: Ø 9.00 m
lawful required safety zone: 6.00 m
height of fall 1.00 m



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	<= 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 3.00m, Ø 159 mm
4. Name and weight of the heaviest component:
Steel post (1 item), 78 kg
5. Intended age group: 3 years and over

6. **Attention! Dig-in system, no concrete necessary**
Excavation:
1 x 0.80 m long x 0.80 m wide, total depth 1.00 m including 10 cm drainage
The measure for soft ground calculate spacious!
7. Assembly time, once foundations complete: approx. 1,5 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 1176-1.**

10.

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)










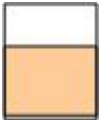



3.1 In words

Table 3-1: Delivery contents, in words

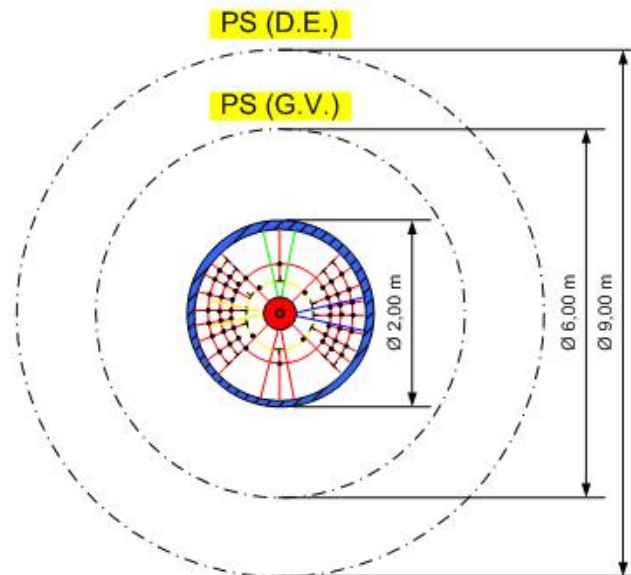
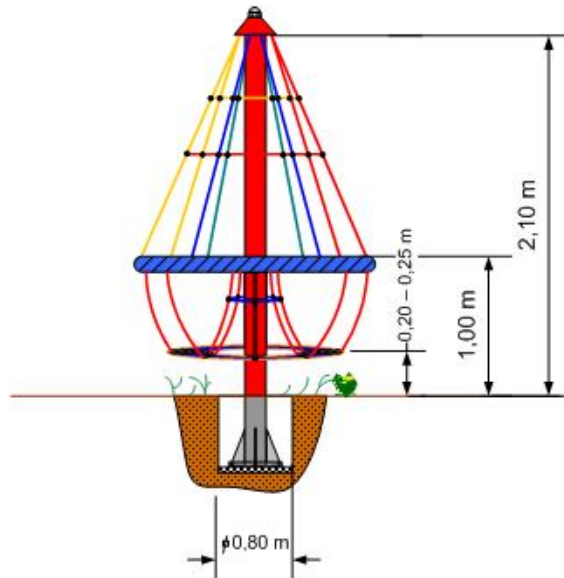
Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Steel post	Ø 159 mm, 3.00 m		
2	1	Gnome tree cap	Ø 37.5 cm		
3	1	Green sliding disc			
4	1	Preassembled netting			
100	1	Stop nut, VA, DIN 985	M16		
101	1	Threaded rod, VA, DIN 975	M16		
102	1	Hexagon nut, VA, DIN 934	M16		
103	8	Self-tapping PIAS screws (for protective clamping rings)	6 x 38 mm		
104	2	Protective clamping rings	for post Ø 159 mm		
105	1	Bag of grease			
106	1	Loctite (bolt lock)	3 ml		
107	1	Washer, VA, DIN 9021	for M16		
108	1	Black cap	for M16		

3.2 In symbols

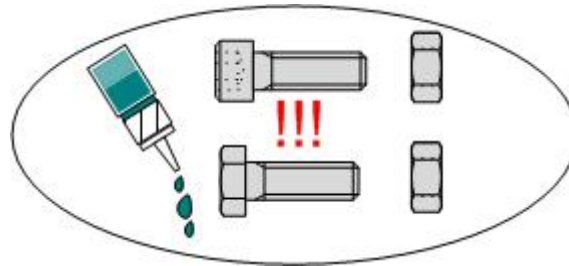
Table 3-2: Delivery contents, in symbols

Pos.	Quantity	Symbol
1	1	 Ø 159 mm, 3,00 m long
2	1	
3	1	
4	1	
100	1	 M16
101	1	 M16
102	1	 M16
103	8	 6 x 38 mm
104	2	 for post Ø 159 mm
105	1	
106	1	 Loctite (bolt lock) 3 ml
107	1	 for M16
108	1	 for M16

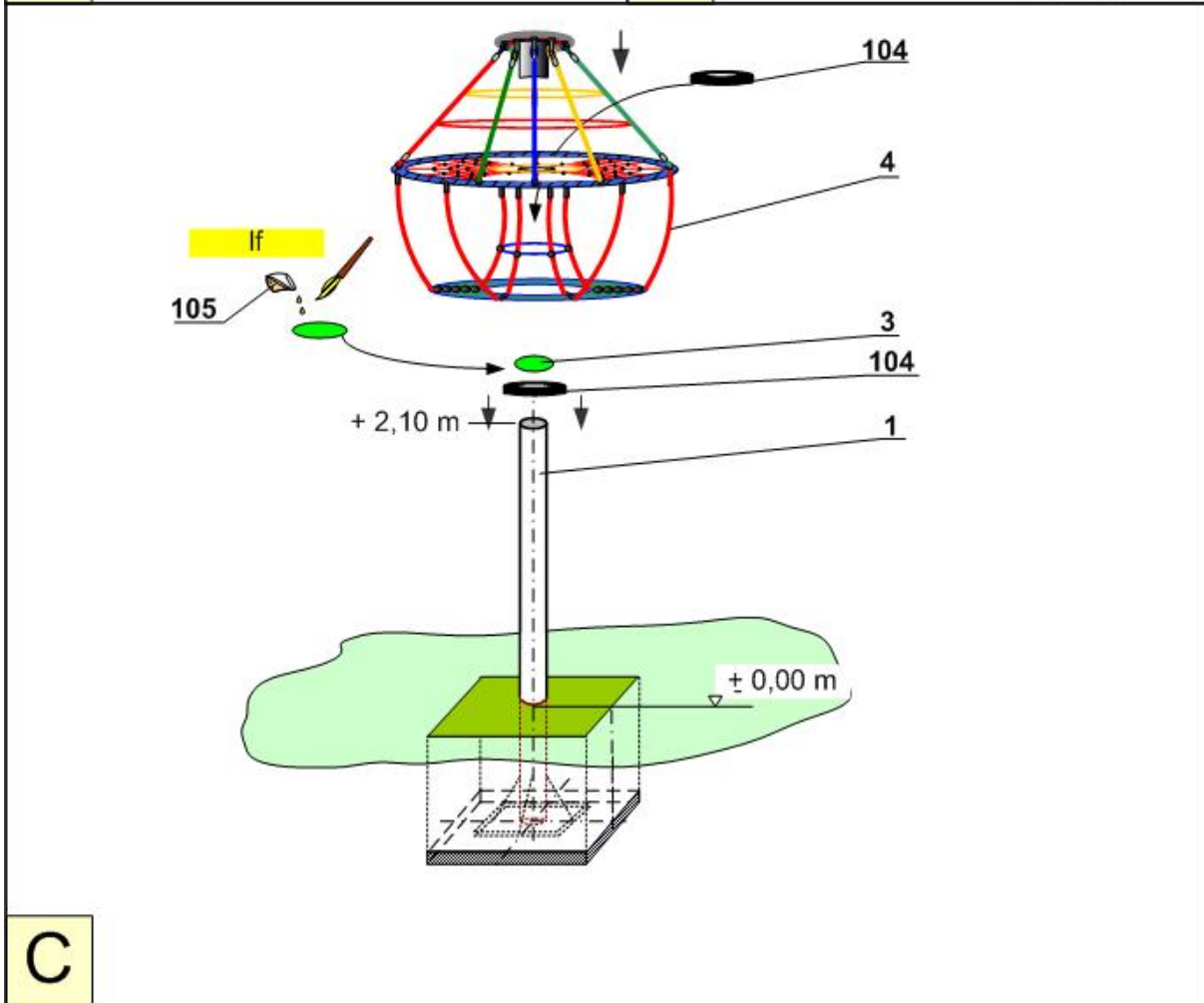
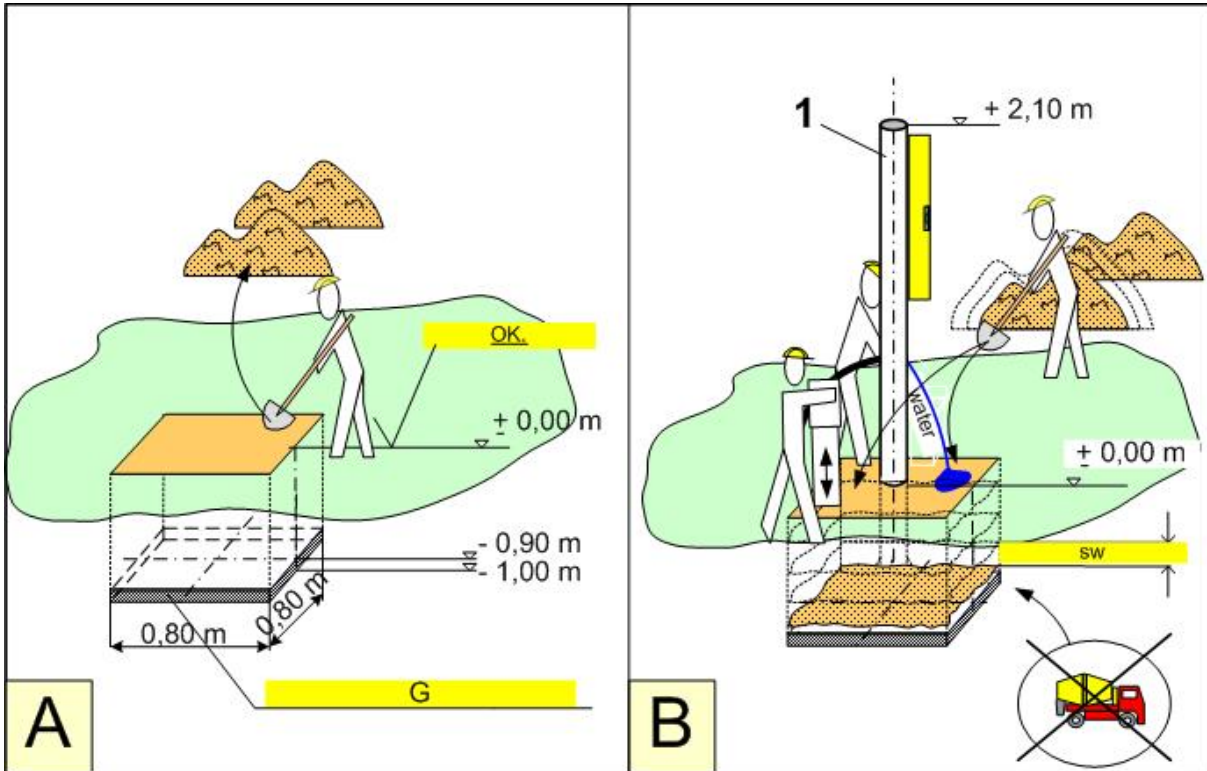
4 Erection Instructions

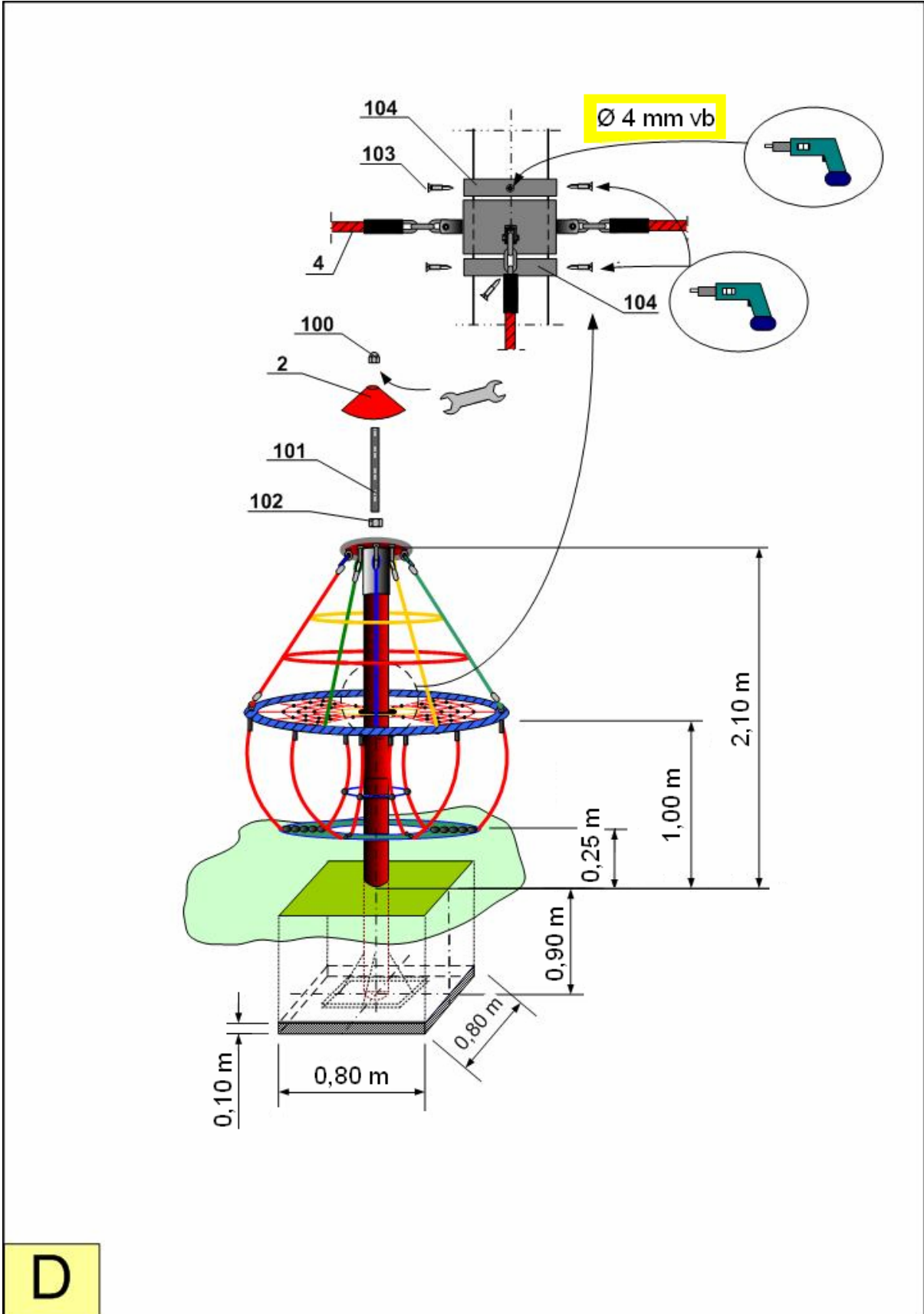


Screw locking device !



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





G	Drainage layer
If	Grease lightly
OK.	Upper edge of playing level
PS (G.V.)	lawful required safety zone: Ø 6.00 m / 28.3 m ²
PS (D.E.)	urgent recommended safety zone: Ø 9.00 m / 63.8 m ²
sw	In layers
vb	Predrill

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

Witch's Carousel

Art. 20.06.150



Revision history

Revision 0 – 2004-09-15

First approved version

Maintenance instructions

Revision 3 – 2010-04-08 Tabelle

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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 maintenance printout 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 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

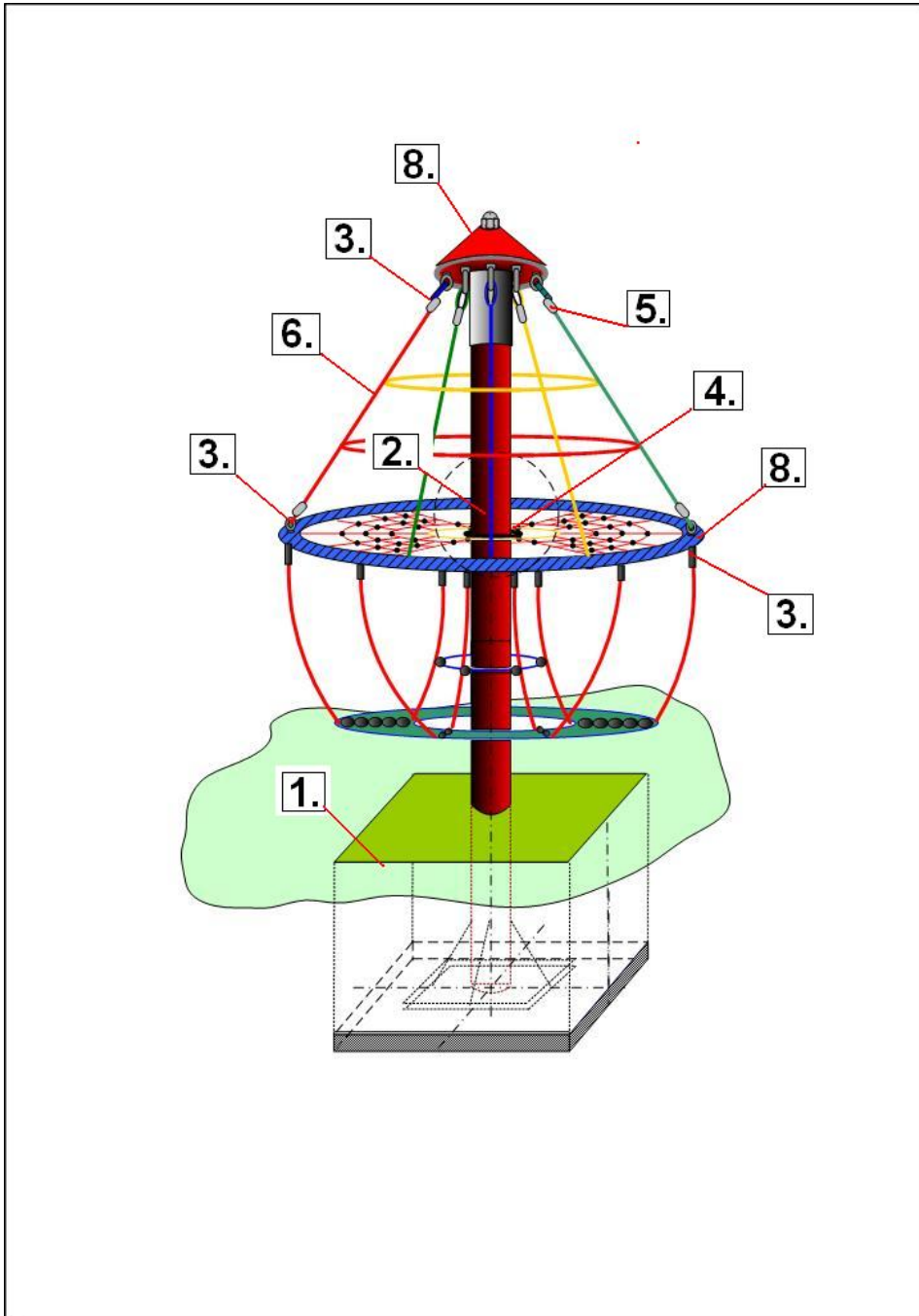
Use of the equipment should be prevented in the event of incomplete installation, disassembly, maintenance, repairs and faults.

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 Regular maintenance

8.1 Image



8.2 Regular Maintenance (Text)

m = monthly j = 1/4 quarterly j = 1/2 half-yearly

		m	¼ j	½ j
1.	Check ground in fall and protection area for hard objects and loose foundations.	X		
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.	X		
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.	X		
5.	Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary	X		
6.	Check rubber parts, sleeves, rings etc. for wear and tear or damage and replace if necessary.	X		
7.	Check the surface of wooden parts for damage caused by the weather or external influences and repair (Paint with glaze) or replace if necessary.	X		
8.	Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.	X		

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

9.1.1 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

12 Half yearly maintenance

- 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.



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.



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.

14 Maintenance Printout

Name of item: Witch's Carousel _____ / Art. No. 20.06.150 _____

Location: _____

Customer or operator: _____

(Town, Town council, School, etc)

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 (06443) 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.: 20.06.150

Type of item: Witch's Carousel

Serial number: _____

Customer or operator (Town, Town council, 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: _____