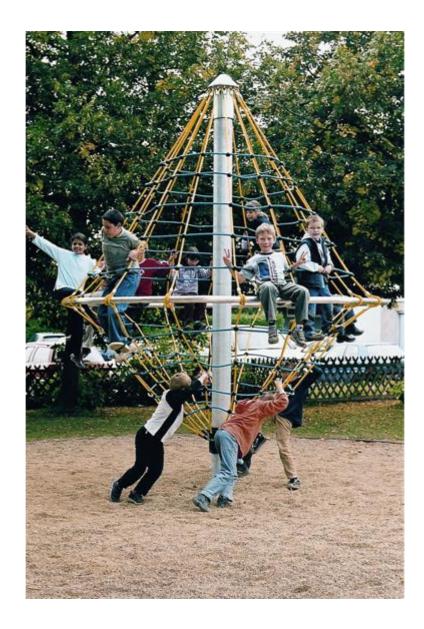


A Assembly Instructions Climbing Whirl Art-No. 20.01.130



Operator:

Location:



Revision history Revision 0 – 2003-09-18

First approved version

Assembly instructions Revision 7 – 2011-11-15 Zusatztext Bremsscheibe FH

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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).

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.



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

 Space requirement: Ø 3.50 m Urgent recommended safety zone Ø 11.00 m Lawful required safety zone: 8.00 m Height of fall 2.50 m



Attention!

According to EN 1176-5 (paragraph 5.3) the statutory fall protection area has to be an additional 2m diameter in relation to the space requirement.

We strictly recommend keeping 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.) are to be installed within the specified, increased safety area!

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		

2. Required Safety Surface:

- 3. Name and overall dimension of the largest component: Steel post (1 item) length 5.00m, Ø 193 mm
- 4. Name and weight of the heaviest component: Steel post (1 item), 127 kg
- 5. Intended age group: 6 years and over
- 6. Please note that this equipment is set in concrete. Concrete: C25/30 Foundations/area to be excavated: 1 x 1.20 m long x 1.20 m wide, total depth 1.10 m including 10 cm drainage Top edge of concrete 40 cm below ground level.



Attention! 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: 2 3 hours. Required assistance: 2 - 3 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.



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.

Carousels with Optional Breaking Disk

Please consider that the installation of the optional breaking disk is not mandatory according the regulations of the EN 1176. It is only an additional option to reduce the rotational speed.

We recommend to install this disk in case of any tight dimensioned fall areas (please see general note regarding fall areas below) resp. sorrounding and adjoining solid objects like fences, palisades, benches, etc.

By the installation of the disk the rotational speed and the resulting centrifugal force will be reduced extremely but we would like to consider that the general play value of the article will also be impaired.

Note regarding fall areas / safety zones

Statutory safety zone

- has to be provided with the prescribed fall protection

Recommended safety zone

- an additional area with fall protection as per EN 1176

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, bolards, dustbins, fences etc.) have to be installed within the specified, **increased safety area**.

3 Delivery Contents (parts list with part numbers)

3.1 In Words

Table 3-1: Delivery Contents, in words

Pos.	Pos. Quantity Elements / Description		Size	0.K.	Missing	
1	1	Сар	Ø 375 mm, 140 mm high			
2	1	Rotation element				
4	1	16-lug ring				
5	1	Steel post	Ø 193 mm, 5.00 m long			
6	1	Net – upper section				
7	1	Net – lower section				
8	1	Octagonal ring (in two parts)				
100	16	Bolt	M10 x 25 mm			
101	10	Self-cutting screws	M6.3 x 45 mm			
102	1	Washers	Ø 17 mm			
103	1	Nuts	M16			
104	1	Lock nuts	M16			
105	1	Caps	For M16			
106	16	Internal tooth lock washer	For M10			
107	1	Threaded rod	M16			
108	2	2 protecting ring Ø 200				
109	1	Loctite				
110	1	Green sliding ring premounted on Pos.5				
111	16	Bolts	M8 x 25			
112	16 Lock nuts M8					
113	2	Cover ring				
114			Ø 199 mm,500 mm lg., 2 mm, VA			
115	15 8 (2x4) Self-cutting screw 5,5 x 25 mm long (for Pos.114)					
116	1	Brake disc	Ø 125 mm/18 mm thick			
	1	Concrete slab	By the customer		1	



3.2 In Symbols

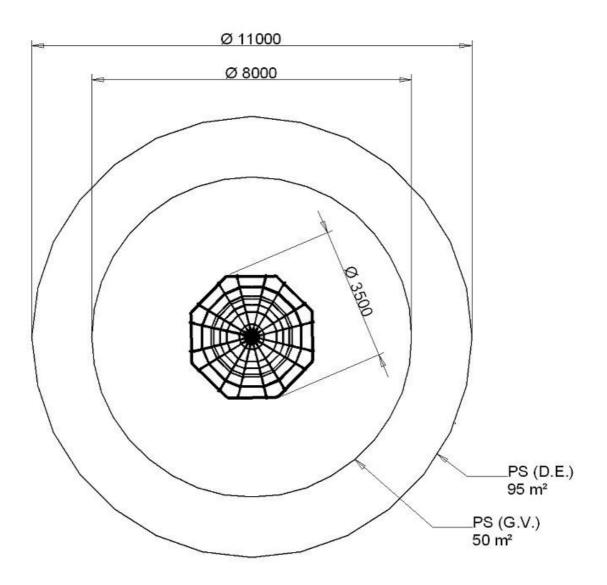
Pos.	Quantity	Symbol
1	1	
2	1	
4	1	
5	1	
6	1	
7	1	
8	1	
100	16	
101	10	
102	1	\bigcirc
103	1	
104	1	
105	1	
106	16	
107	1	



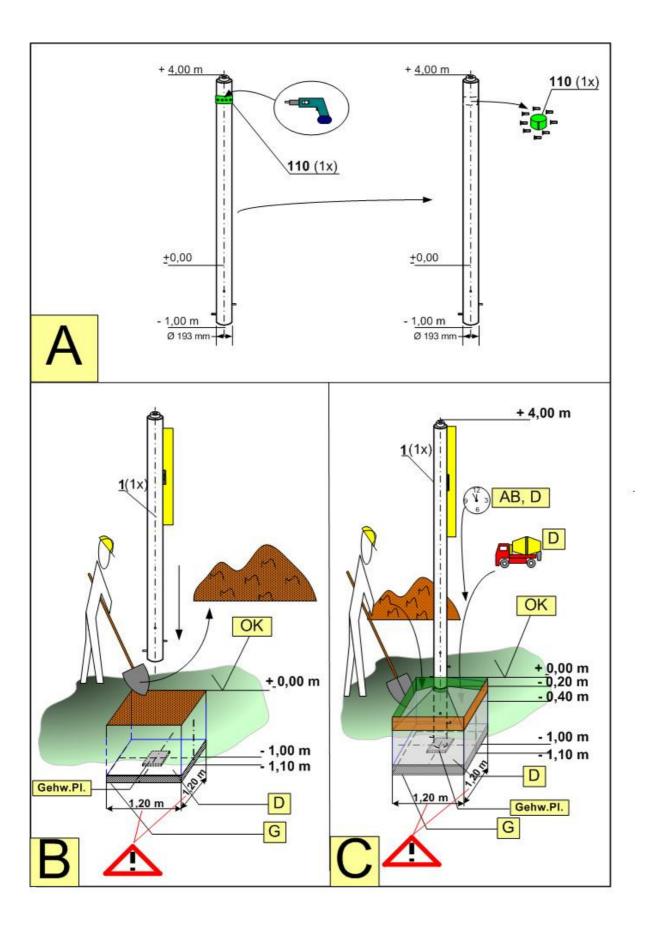
Pos.	Quantity	Symbol
108	2	0
109	1	
110	1	
111	16	
112	16	
113	2	0
114	1	Ø 199 mm , 500 mm lg., 2 mm VA
115	8 (2x4)	5,5 x 25 mm
116	1	$\mathbf{\Theta}$
	1	
		Concrete slab Supplied by Customer !!



4 Erection Instructions

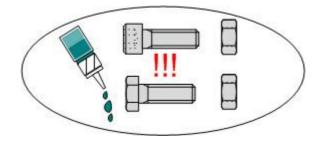






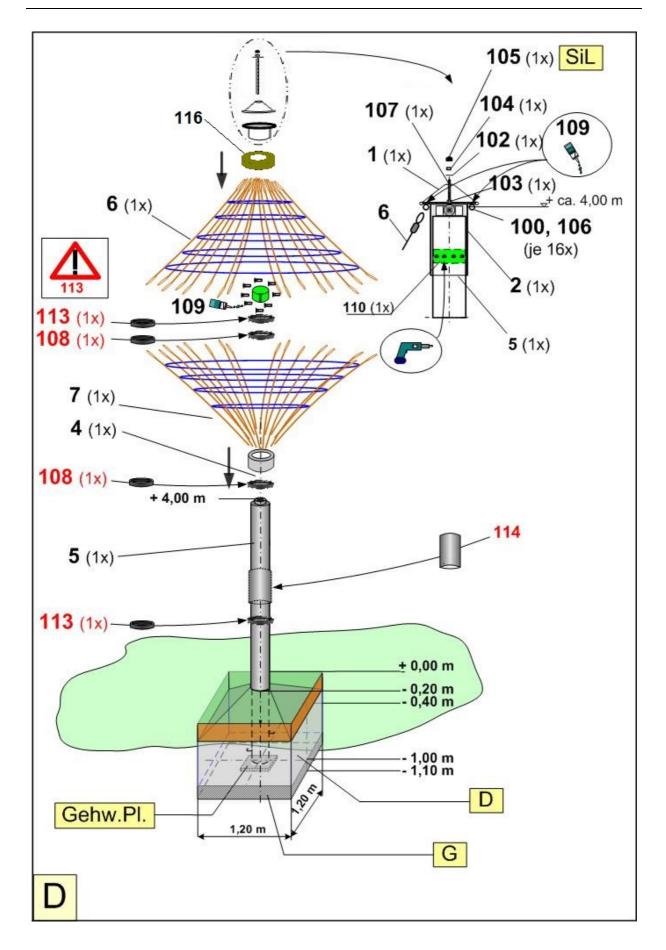
Sally-Sally

Screw locking device

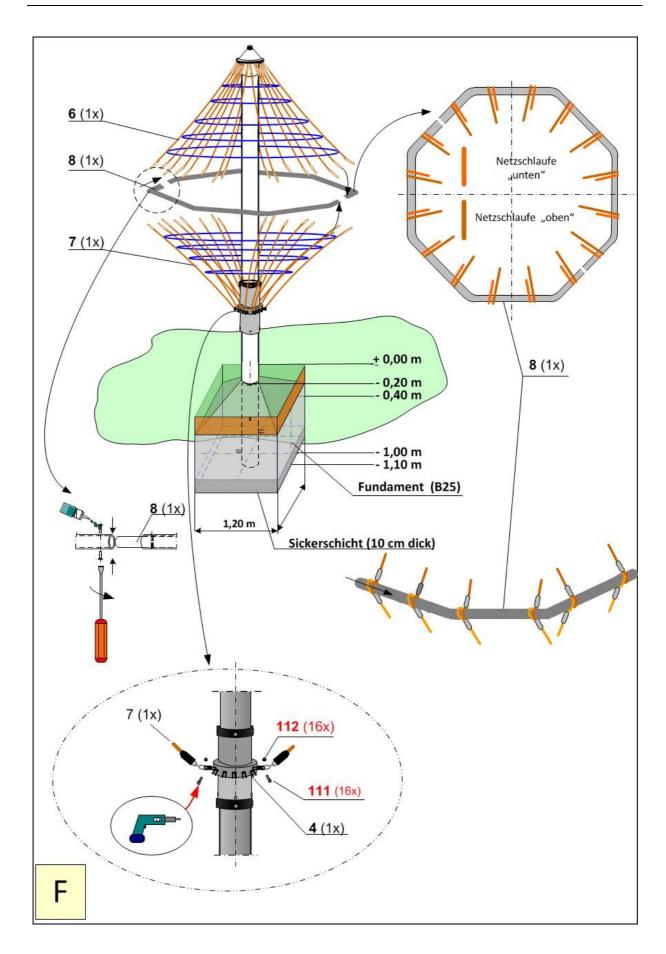


Glue all screws, nuts and sleeves with loctite. (not less than 5 drops !) (except for lock nut)

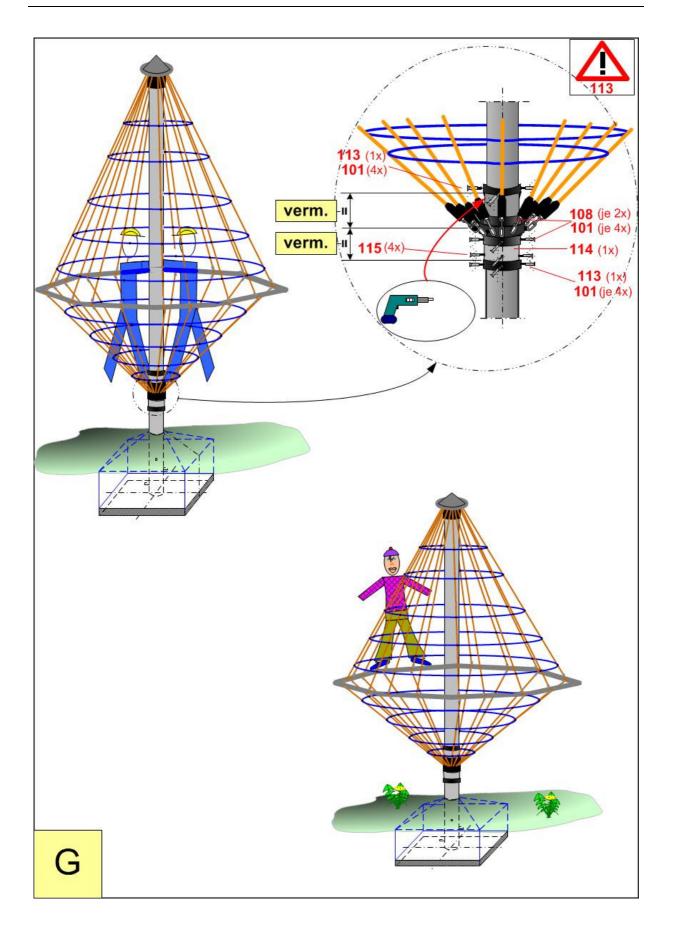
- 13 -



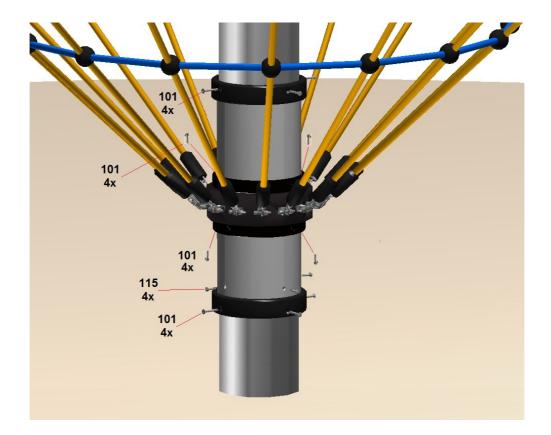


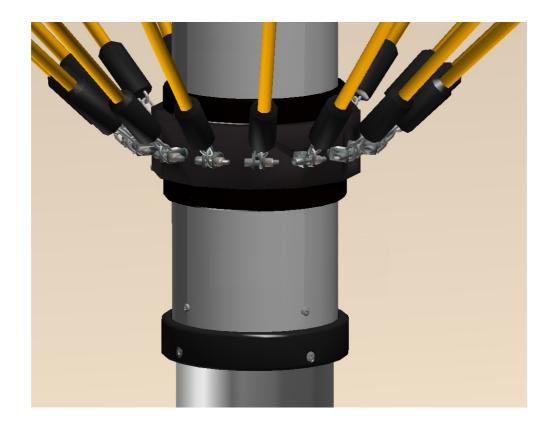














AB	A setting time of at least 7-8 days for C25/30			
D	Concrete C25/30			
DO The upper ring is secured first				
G	Drainage layer			
Gehw. Pl.	Concrete slab (Supplied by the customer!)			
NU	Net loop "bottom"			
NO	Net loop "top"			
OK.	Upper edge of playing level			
PS	urgent recommended safety zone: Ø 11.00 m / 95 m ²			
(D.E.)				
PS	lawful required safety zone: Ø 8.00 m / 50 m ²			
(G.V.)				
R 2mm	Ring bolted at a distance of 2 mm from the 16-lug ring			
Sil	Affix with silicone			
verm.	to arrange			
	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%!			

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

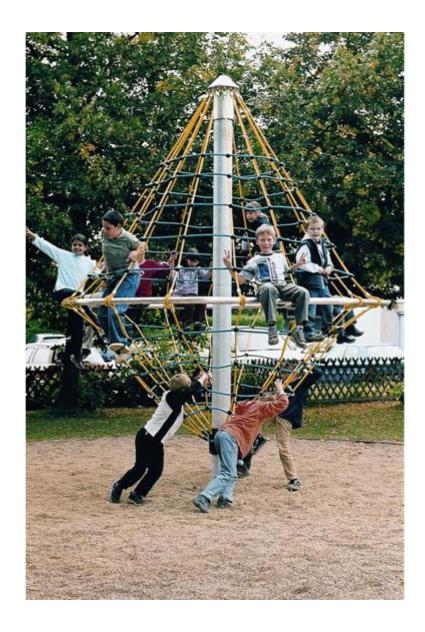
There are no special inspection requirements to be met before the equipment is used for the first time.

5.5 Retighten bolts

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



B Maintenance Instructions Climbing Whirl Art-No. 20.01.130





Revision history Revision 0 – 2003-09-18

First approved version

Maintenance instructions Revision 7 – 2011-11-15 Zusatztext Bremsscheibe FH

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6 Introduction Maintenance

6.1 General 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 1176-1:1998".

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.

Hally-Gally®

7.10 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.

7.11 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).

7.12 Preventing equipment use

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

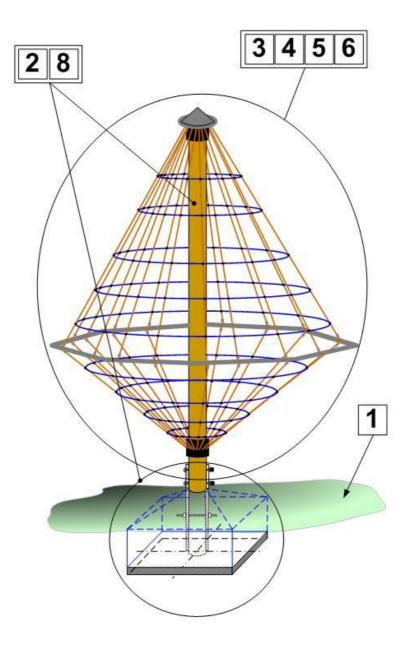
7.13 Safeguarding the guarantee

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

Scily-Sally®



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8.2 Regular Maintenance

M = monthly Y $\frac{1}{4}$ = 1/4 quarterly Y $\frac{1}{2}$ = 1/2 half-yearly

		М	Y	Ŷ	
1.	Check ground in fall and protection area for hard objects and loose foundations.	Х			
2.	Check stability (supporting posts, springs, supports, foundations etc.).			Х	
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 and 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

9.1.1 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



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



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 maaterial 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.



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.



Jan Stan

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: Climbing Whirl_____ / Art. No. 20.01.130 _____

Location:

Customer or Operator: _____

(Town/Parish Council, School, etc.)

Date of inspection	Inspector	0.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.

Art.-No.: 20.01.130 Type of Item: Climbing Whirl Serial Number:

Customer or Operator:

Competent Person in Charge:

Installation Company (Address):

Responsible Assistant (Assembler):

Received the complete assembly instructions, maintenance instructions and maintenance printout

(Signature of Operator) (Stamp)	(Signature of Installation Company)
Date:	