

# A Assembly Instructions for Mini Birds Nest Carousel Art. 20.06.130





Revision history Revision 0 – 2003-09-25 First approved version Assembly instructions Revision 1 – 2009-01-03 All rights reserved. © Copyright 2003 Spogg Sport-Güter GmbH



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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).

# 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 your supplier 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.



## 2 Datasheet: Mini Bird's Nest Carousel, Art. 20.06.130

 Space requirement: Ø 1.40 m urgent recommended safety zone Ø 8.00 m lawful required safety zone: 5.50 m height of fall 0.80 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!

The images (individual drawings) are not to scale !!

Required safety surface:

2.

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 (1 item) length 3.00m, Ø 159 mm
- 4. Name and weight of the heaviest component: Steel post (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
- Assembly time, once excavations complete: approx. 1 hour. 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.

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#### **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	Elements / Description	Size	0.K.	Missing
1	1	Сар	$\varnothing$ 375 mm, 140 mm high		
2	1	Rotating cover for post, $\varnothing$ 16 cm			
3	1	Green sliding disc			
4	1	Handwheel	$\varnothing$ 200 mm, 140 mm long		
5	1	Steel post with anchor plate	$\varnothing$ 159 mm, 3 m long		
6	1	Ring, $\varnothing$ 1.40 m (with premounted suspension ropes)	Ø 1.40 m		
100	8	Bolts	M10 x 20 mm		
101	4	Self-cutting screws	M6.3 x 38 mm		
102	1	Washers	Ø 17 mm		
103	1	Nuts	M16		
104	1	Lock Nuts	M16		
105	1	Caps	For M16		
106	8	Internal tooth lock washer	For M10		
107	1	Threaded rod	For M16		
108	1	Tin of red paint			
109	1	Loctite			
110	1	Bag of grease			



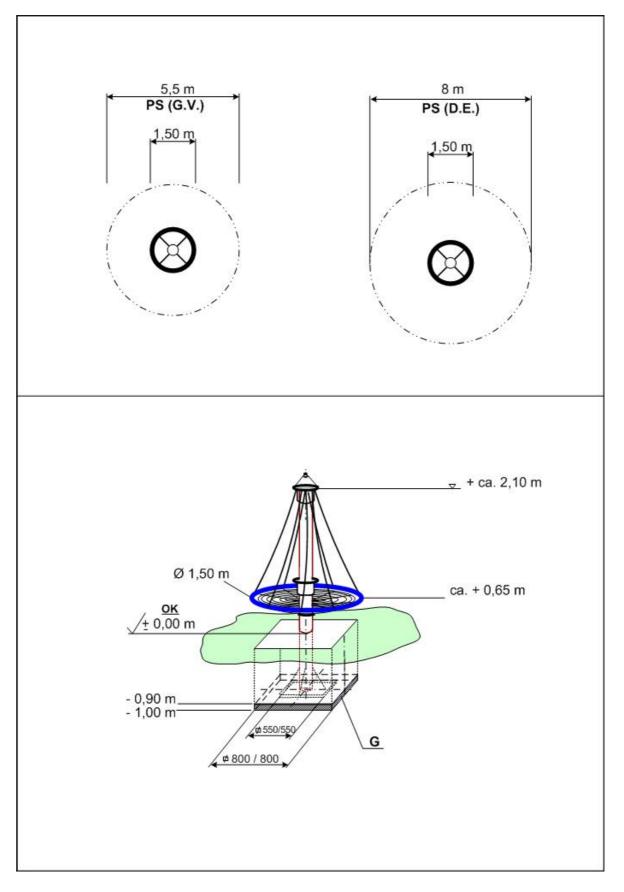
#### 3.2 In symbols

Pos.	Quantity	Symbol
1	1	Ø 375 mm, 140 mm high
2	1	
3	1	
4	1	Ø 200 mm, 140 mm long
5	1	Ø 159 mm, 3 m long
6	1	$\square$
100	8	M10 x 20 mm
101	4	M6.3 x 38 mm
102	1	Ø 17 mm
103	1	[] () M16
104	1	[] () M16
105	1	For M16
106	1	For M10
107	1	For M16
108	8	
109	1	
110	1	

 Table 3-2: Delivery contents, in symbols

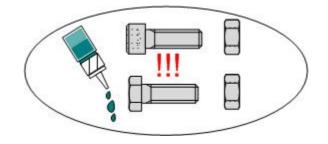


# **4** Erection Instructions

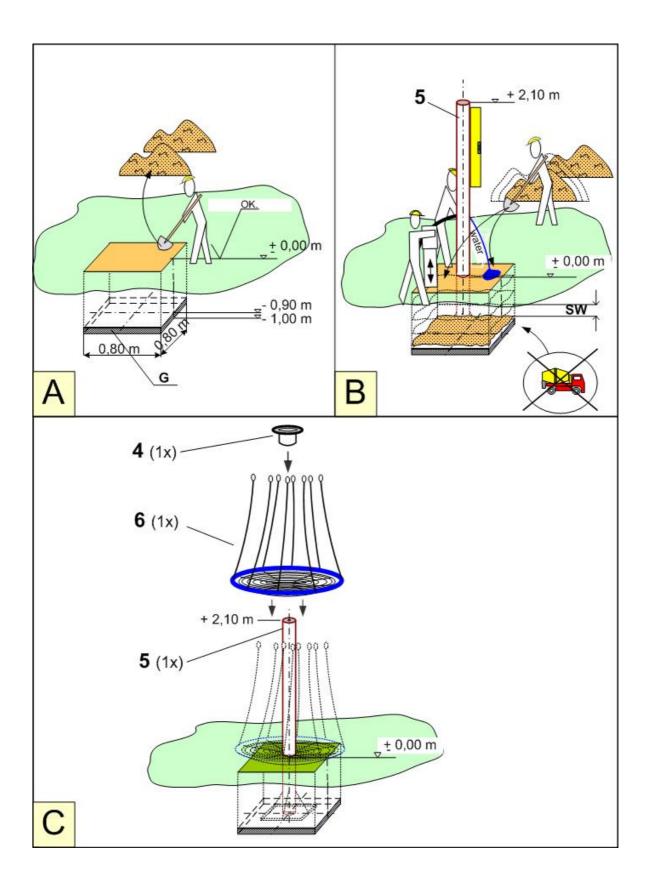




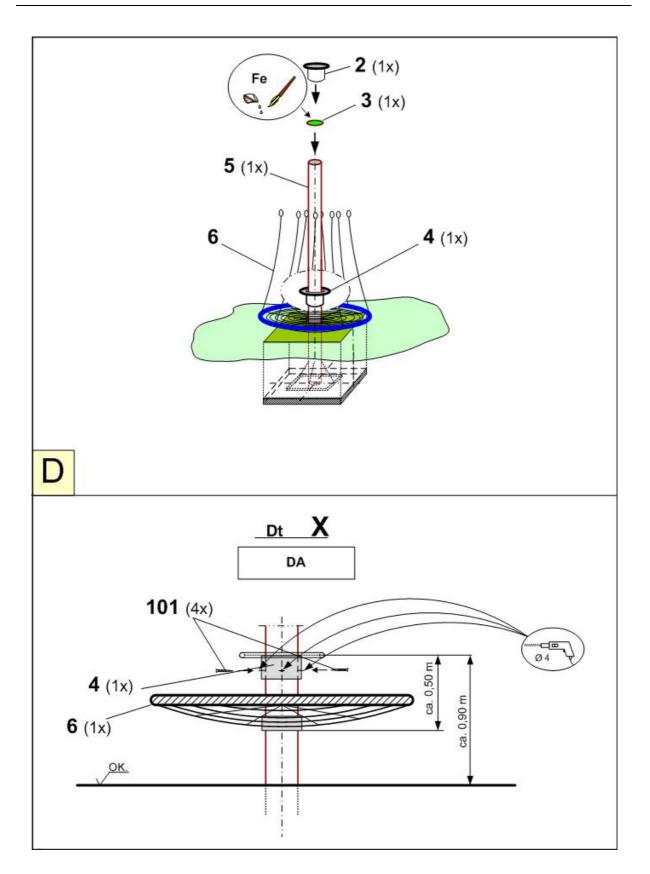
# Screw locking device !



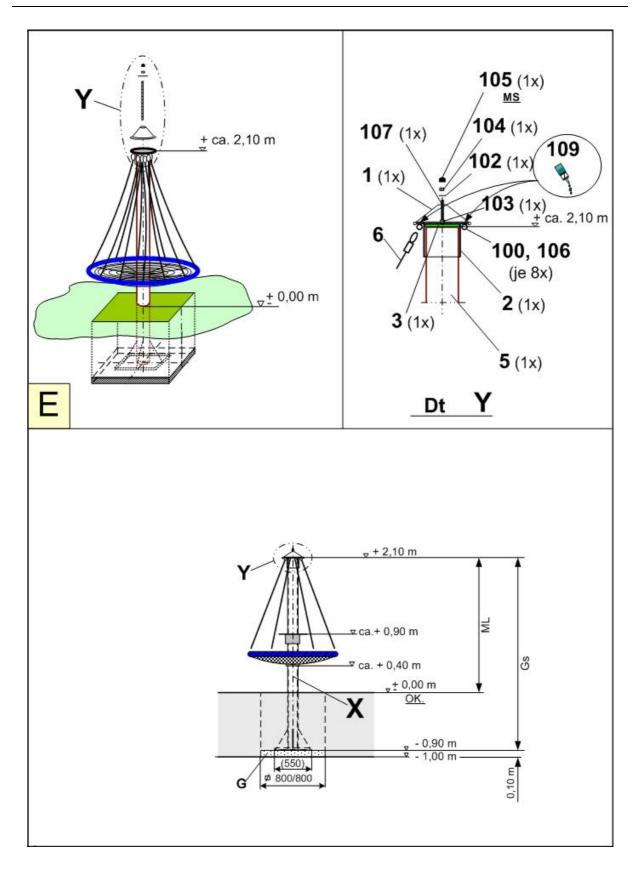
# glue all screws, nuts and sleeves with loctite. (not less than 5 drops !) (except for lock nut)













Dt	Detail				
DA	Diagram without suspension rope (pos. 6)				
Fe	Grease				
Gs	(Total length)				
G	Drainage layer (10 cm thick)				
MS	Affix with silicone				
ML	(Post length above playing level)				
ОК	Upper edge ofo playing level				
PS	Space requirement including safety area				
PS	Urgent recommended safety zone: Ø 8.00 m (50.2 m <sup>2</sup> )				
(D.E.)					
PS	Lawful required safety zone: Ø 5.50 m (23.8 m <sup>2</sup> )				
(G.V.)					
SW	In layers				

## 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:

- Installation of equipment is not complete.
- The protective surface has not been installed.
- 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 carried out.

#### 5.4 Information about inspection of the equipment before first use

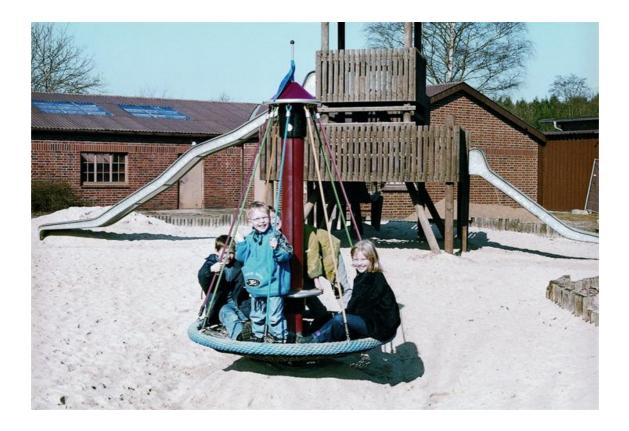
• no special inspection required.

#### 5.5 Retighten bolts

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



# B Maintenance Instructions for Mini Birds Nest Carousel Art. 20.06.130





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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.

#### 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.

# Hally-Gally®

### 7.9 Faults



Dameges must be repaired as soon as they are detected. If serious defects that affect the safetyness cannot be repaired straight away, the playground item must be blocked with immediate effect.

#### 7.10 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.

#### 7.11 Preventing equipment use

The 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 poles)

Steel posts and footings are covered by our guarantee if regular maintenance is carried out and recorded in writing.

Our general terms and conditions apply. Maintenance of steel poles first takes place after 3 years. The steel posts must be excavated down to the concrete foundations and checked for corrosion.

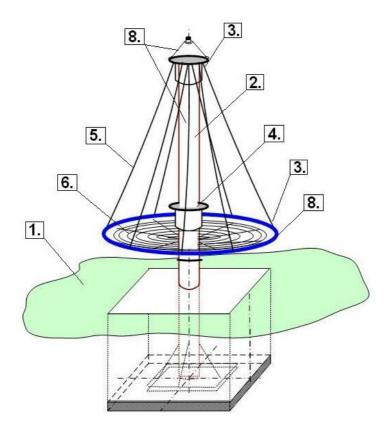
Zinc paint should be applied to any corroded areas and scratches.

Check ropes for abrasion, replace ropes where coating is damaged down to the steel inlet.



## 8.1 Image

Sally-Sally



and the second

#### 8.2 Regular maintenance (Text)

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

#### m ¼j ½j

		· · · ·	
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.	x	
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. the item has to be blocked immediately and repaired or dismanteled.

#### 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 be repaired immediately.



### **10** Monthly maintenance

- Check the spaces between the equipment and the ground (clearance and height of fall).
- Check the ground surface of 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 <u>metal parts</u>, 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 fall protection material and top up with loose filler if necessary. If the posts are labelled, top up as far as the mark.
- Retighten all bolts



### **12 Annual maintenance**

- Check if 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. Zinc paint should be applied to corroded areas and scratches.
- · Check complete 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.

### **13 Maintenance printout**

Name of item: Mini Birds Nest Carousel \_\_\_\_\_ / Art. No. 20.06.130\_\_\_\_\_

Location: \_\_\_\_\_

Customer or operator: \_\_\_\_\_

(Town, Town council, Kindergarten)

Date of inspection	Inspector	0.K.	Accessible	Blocked	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 your existing 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.: 20.06.130 Type of item: Mini Birds Nest Carousel 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) (Stamp)	(Signature of Installation Company)
Date:	