

## INSTALLATION- AND MAINTENANCE GUIDE

“Original HUCK bird's nest”®, art.no.4650 (1.20m diam.)

“HUCK honeycomb nest”, art.no. 4550 (1.00m diam.)

“Original HUCK Mini bird's nest”®, art.no.4650-85 (0.90m diam.)

Dear customers,  
dear operators,

with this playground equipment you have purchased a high quality product from company *HUCK Seiltechnik* which is used Europe-wide by many well-known playground manufacturers.

If you assess defects at the swing basket, please contact your supplier or manufacturer immediately (phone: 0049 6443 8311-81 or -68, Fax: 0049 6443 8311-79 or e-mail: [seiltechnik@huck.net](mailto:seiltechnik@huck.net)).

**Please always keep ready and specify: 1) serial number, 2) production date** (month and year on green HUCK-seal at upper end of suspension chains) and **3) control number** (white number at black cover tube of rope wrapped ring).

If the swing basket will be installed at an existing swing frame, please pay attention to the utmost stability of the frame and the swing joints. The frame has to bear up against extreme strains (centrifugal load approx. 1.5t). In case of doubt, consult a competent person. Regarding installation and maintenance, basically the specifications of EN 1176 have to be considered. In case of complete installation incl. swing frame, the installation- and maintenance-guides (incl. this supplement) have to be taken into account.

### Drilling holes for “bird's nest”, art.no. 4650 at crossbeam:

clear distance for the outer swing joints **1.90m** (drilling hole diam. 19mm)

clear distance for the inner safety joints **1.54m** (drilling hole diam. 17mm)

### Drilling holes for “honeycomb nest”, art.no. 4550 at crossbeam and

### Drilling holes for “Original-Mini-bird's nest”, art.no. 4650-85 at crossbeam

clear distance for the inner swing joints **1.54m** (drilling hole diam. 19mm)

clear distance for the outer safety joints **1.90m** (drilling hole diam. 17mm)

*In case of wooden swing frames, the joints will be additionally fixed with the spiked washer from the underside.*

*If using a metal swing frame, remove the spiked washer. Also the drilling holes at the underside have to be expanded to take up the squared sockets of the bolts.*

### Checkup of swing joints during installation:

The free rotation of all swing joints is very important and has to be considered before installation on site. After assembly of the swing basket, check if the bearing axis (main swing joint) is turning in case of minor swing movement. If this is not the case, short and intensive circular translation can cause the failure of the suspension chains (wear through).

That problem can be avoided if the last upper chain link is fixed at first as tight as possible with the cross screw. ATTENTION: this is the last cross screw which is carrying the chain (see drawing – pos.9). Never tighten or loose both screws of the bearing axis – they are factory-aligned!

After that, the above stated checkup (only light swing movement of basket) has to be done. If the required effect is not obtained, the hexagon screw has to be unscrewed for a ¼ rotation. The end of the screw has to be at least even with the locking nut and additionally locked with a center punch.

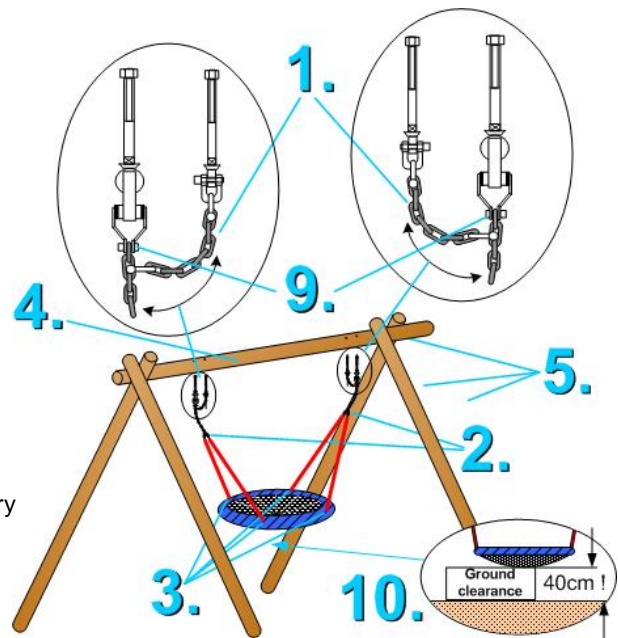
The safety joints have to be checked regarding the free rotation, too. The adjusting has to be done in the same way: unscrew the cross screw of the special steel shackle until the bow can rotate free and lock it with the pre-assembled locking nut. The locking nut is used here as a counternut. The end of the screw must not be reached by the blue circlip (ring) of the nut. Attention: the motion of rotation has to be in swing direction, too!

After start of operation, the maintenance work has to be done daily during the first week - afterwards once a week. Attention should be paid especially to the bolted connection of swing frame and the solid fitting of the swing joints.

Depending on the utilization rate (latest every three months) all suspension points directly at the basket have to be checked for chafe marks.

The given time intervals in our maintenance guide are classified for a 'normal' operating range. In schools or highly visited playgrounds a shorter time interval is strictly recommended.

1. Check connection swing joint to suspension chains
2. Check connection of suspension chains among themselves
3. Check the 4 connecting points of suspension chains at the basket **(see notes to 3. below!)**
4. Check solid fitting of the swing joints at the crossbeam
5. Check stability of complete supporting structure, particularly the weathering of wood (**biannual**) resp. beginning of rust formation at steel frames (**annual**). The stand poles have to be uncovered and checked at the foundation area.
6. Check subsoil for hard and sharp objects and uncovered foundations (**weekly**)
7. Check solid fitting of all connections and if necessary re-tighten screwed connections and replace damaged parts (see sketch pos. 1 - 4) (**weekly to monthly**)
8. Check solid fitting of all add-on pieces (chains, ropes, nets, rubberparts, collars) for wear and damage and if necessary replace damaged parts (see sketch pos. 1 - 4) (**monthly**).



**Consider direction of rotation and installation according to sketch!**  
***(sketch is showing "bird's nest"! In case of "honeycomb nest" the swing joints have to be at the inside!)***

Regarding 3.

Pull up covering tube of suspension chains until the first chain link at the shackle is visible. Check abrasion protection between chain and shackle for wear and replace if necessary. If the chain link has visible, serious chafe marks, hang in the following chain link as follows:

shorten covering tube for approx. 6cm, release the shackle at the bearing bush, remove chain link and hang in the following link. Fix and secure the bolt of the shackle with safety glue (LOCTITE).

Hand out this installation- and maintenance guide to competent maintenance personnel - this process has to be done only by competent personal. Because of legally reasons, all check-ups reg. EN 1176 have to be logged!

We recommend to carry out the maintenance work at least in the given intervals, because a loss of safety and function can result from overload during operation, atmospheric influence or vandalism.

In case of defects which impair the safety of the swing, a fast and immediate reaction is necessary - immediate repair work or dismantling/blocking of the complete item.

Defects which impair the function are reducing the play-worthiness and affect vandalism which can cause a loss of safety - in that case a immediate reaction is necessary.

In case of difficulties during installation or further questions please contact us by the given numbers or e-mail.

#### **General comment:**

regular checked playground equipments will not have serious damages. But it is a precondition that immediate repair work is done if necessary.

**INSTALLATION GUIDE**

Version 12.05.03

**Jumbo swing frame art.4578-1-250 (suspension height 2.5m)  
for concrete installation**

**Required space:** 5,00 m x 4,00 m  
**Safety area:** 5,00 m x 8,00 m  
**Required fall protection:** Bark mulch, sand

**Required tools:**

crane, wheel loader or excavator (with stroke 3.0m - 4.0m)  
ladder, length 3.0m - 4.0m  
level/water level  
several spanners  
several screw drivers  
laths for supporting

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**PLEASE SEE ENCLOSED FOUNDATION PLAN!****INSTALLATION:**

Appoint installation location according to required safety area

Dig out foundation ditches according to plan (no.1-no.4):  
depth 0.9m / width 0.9 x 0.9m and set in additional 10cm of drainage layer

Concrete-foundation size: 0.9 x 0.9m x 0.6m

Suspension tube no.2 has to be fixed at the standpoles no.1 (see sketch) Attention!  
Pipe sockets and standpoles are marked at the top with a dot or the Letter "R" and  
"L". Please consider that they have to match to each other during installation!

When fixing the standpoles, consider that the plates at the bottom are sitting  
solidly on ground (according to angular brackets)!

Lift assembled tube frame no.1 and no.2 (see 3) with a crane or similar on one side  
and fix standpole no.1 with fixation elemnts Pos. SB.

Now fix the other side similar at the standpoles according to the markings and  
align the frame according to the foundation ditches (see sketch).

When the swing frame is assembled completely and aligned in the foundation  
ditches, paint it with the delivered paint down to 10cm below marking (tape) at the  
standpoles.

Fill in concrete C20/25 (B25) according to sketch up to 20cm below surface and keep  
setting time of 4 - 5 days for concrete. Attention! Upper edges of concrete  
foundations have to be rounded off extremely!

**Set main joints of swing joint art.4608-1 into the outer boreholes of cross bar no.2 and fix them with washers, hexagon nut and black covering cap. The safety joints have to be set similar into the inner boreholes.**

**Hang up swinging device (Original HUCK bird's nest or swing seat) and pay attention to the required space of at least 40cm from upper edge of surface to underside of swing. Maybe it is necessary to shorten the chains.**

### **Maintenance**

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At least after all three days all screwed connections have to be checked for solid fixation. Eventually retighten screwed connections.

The swing joints are maintenance-free but they have to be checked for solid fixation and eventually be retightened. We recommend to spray the plastic bushes of the swing joints occasionally.

In case of a high using of the equipment, we recommend to intensify the checks and inspections.

In case of an incomplete installing or during repair work or inspection, we recommend to block the complete item.

In case of any problems occurring installation please contact your dealer.

## Datasheet Jumbo - swing frame

### suspension height 2,50 m (Art.-No. 4578-1-250) for concrete installation

1. Space required: 5.00 x 4.00 m, safety area: 5.00 x 8.00m  
Height of fall 1.60 m

2.	Surface material	Description	Minimum thickness	Maxim height og drop
		mm	of layer (mm)	mm
	Grass / topsoil			<= 1000*
	Chipped bark	granular size 20 to 80	300	<= 3000
	Wood chippings	granular size 5 to 30	300	<= 3000
	Sand	granular size 0.2 to 2	300	<= 3000
	Gravel	granular size 2 to 8	300	<= 3000
	other surface materials	as tested in accordance with HIC		critical drop height as tested

3. Name and overall dimension of the largest item of equipment:

4 Steel post, Length 3,85 m, 140/140 cm

4. Weight of the heaviest item of equipment:

1 pack steel posts; 230 kg

5. Attention! System for concrete foundation !

Concrete: B25

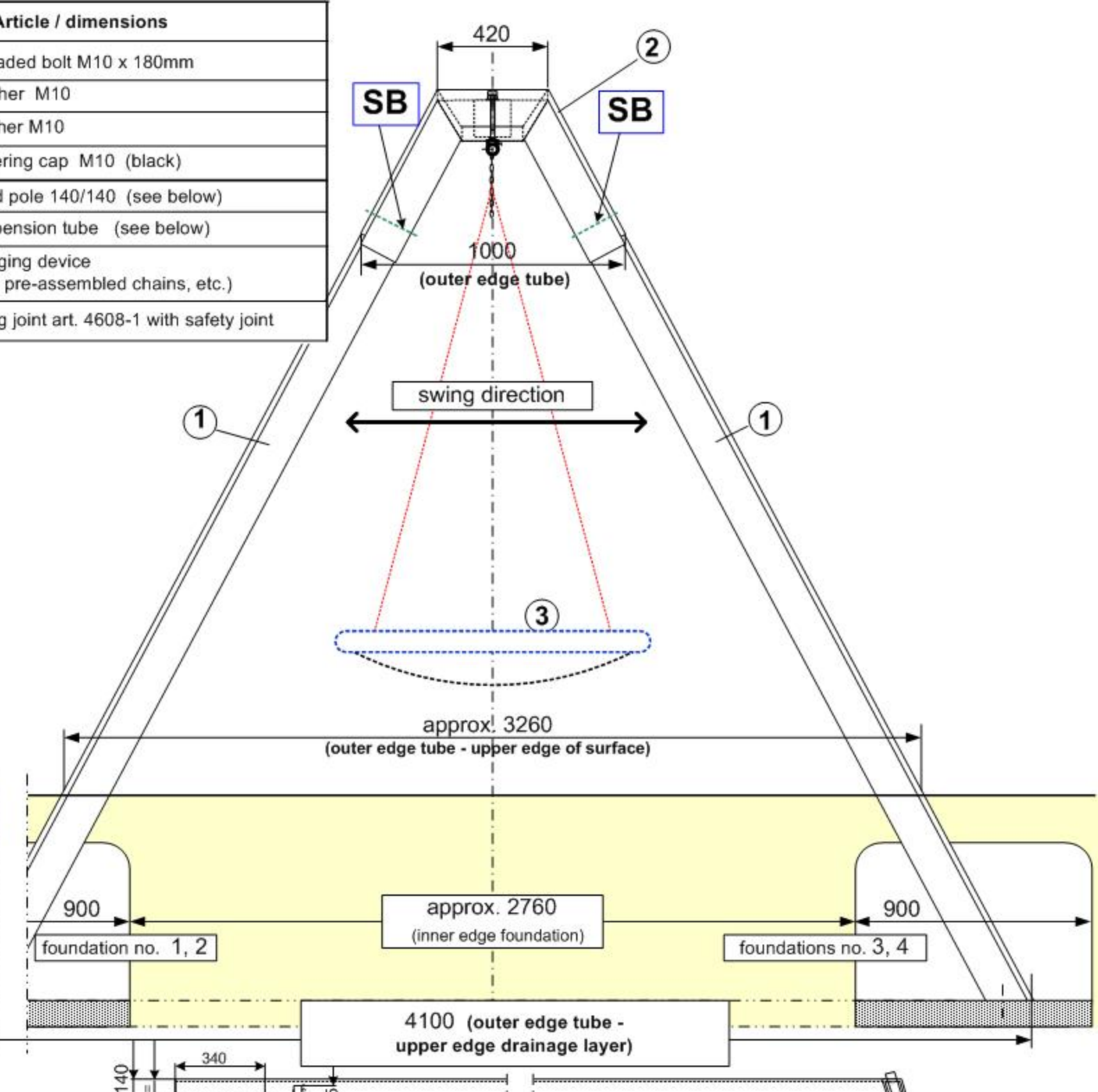
6. Size of foundations: depth 0.90m, width 90 cm x 90 cm (incl. Drainage layer of 0.10m height)  
concrete foundation block of 20 cm

7. Any spare parts which may be needed can be obtained directly from your supplier or from

**manufacturer:** HUCK Seiltechnik GmbH  
Dillerberg 4  
35614 Asslar-Berghausen  
Germany  
Phone: 0049 - 64 43 / 83 11 0  
Fax: 0049 - 64 43 / 83 11 79  
e-mail: seiltechnik@huck.net

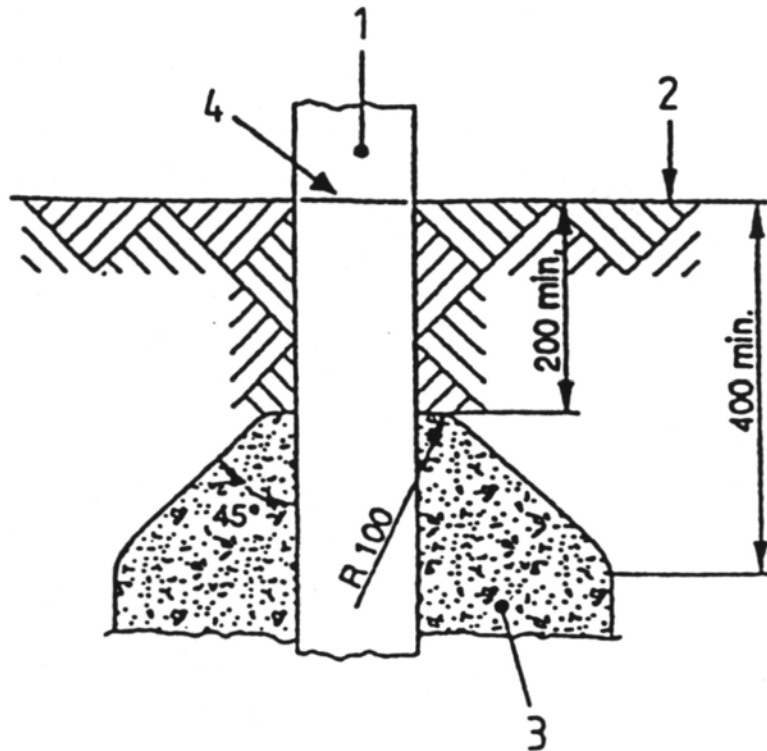
8. We hereby confirm that this item of play equipment has been tested and certified in accordance with the new play equipment standard EN 1176.





Technical drawing of the upper edge drainage layer (upper edge drainage layer) showing dimensions and components. The drawing includes a side view and a top view. The side view shows a cross-section of the drainage layer with a width of 340 mm and a height of 140 mm. The top view shows a rectangular area with a length of 440 mm and a width of 340 mm. A circular hole with a diameter of 13 mm is indicated. The total length (Gesamtlänge) is 3890 mm. A note indicates the bottom plate is approximately 220 x 100 x 10 mm. A circled number 1 is also present.





- 1.Post
- 2.Playing surface
- 3.Top of foundation
- 4.Basic level mark

If the background is sand you have to make the top of foundation round (as you see in the upper sketch), if you let in the foundation 20 cm deep under the upper edge of the playing surface.

In any case it is very important that you skew the top of foundation to prevent accumulation of water (rotteness danger).

# Maintenance Instructions

## Jumbo – swing frame Art.-No. 4578-1-250

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 checked="" type="checkbox"/>	<input 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.



## **Maintenance Record**

Day of Inspection	Inspector's Name	Equipment is			Faults	Faults recited by	Date
		OK	Useable	Out of order			

Tabelle1

