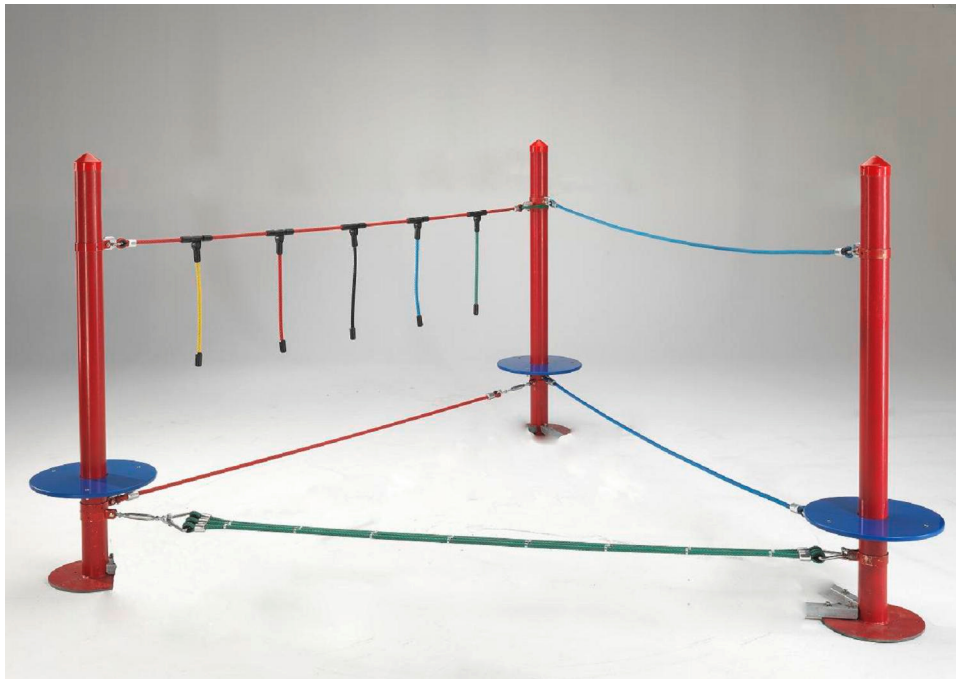


A Installation Instructions Slackmaster

Art-No. 4591-70-k



Operator:

Location:

Revision 0 – 2009-05-28

Erste freigegebene Version
Montageanleitung FH

Revision 3 2011-09-12 Stückliste FH

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Contents

A	Assembly Instructions	1
1	Introduction Assembly	4
2	Datasheet.....	6
3	Delivery Contents (parts list with numbers)	8
4	Erection Instructions	13
5	Post Installation Checks.....	17
B	Maintenance Instructions	19
6	Introduction Maintenance.....	21
7	General Maintenance Information.....	22
8	Maintenance Timetable.....	24
9	Regular Maintenance	25
10	Monthly Maintenance.....	26
11	Quarterly Maintenance	26
12	Half Yearly Maintenance	27
13	Annual Maintenance	27
14	Maintenance Printout.....	29
15	Hand Over Document	30

List of Tables

Table 1: Delivery Contents, in words.....	8
Tables 3-2: Delivery Contents, in symbols	9

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 fixing 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 contact your supplier if you have any problems during installation or in case of any other questions.



Attention

Following the installation: complete assembly instructions, maintenance instructions and maintenance record must be sent to the operator who must confirm receipt in writing. See 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.

Drawings / Views

All optical drawings are showing only the measurements/dimensions and are not mandatory technical views of the complete items.

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.

Measurements / 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 measurement resp. Measurements below upper edges ground level/play area.

2 Datasheet: Slackmaster

1. Space Requirement: 3.55m x 4.10m and 6.10m x 6.50m including safety zone.
Height of fall: 0.40m

[The images \(individual drawings\) are not to scale!!](#)

2. Required Safety Surface:

Surface Material	Description in mm	Minimum thickness of layer in mm	Maximum height of fall in mm
Topsoil/Grass			<= 1000*
Chipped Bark	20 – 80 Grain Size	300/400	<= 2000/3000
Wood Chippings	5 – 30 Grain Size	300/400	<= 2000/3000
Sand	0,2 – 2 Grain Size	300/400	<= 2000/3000
Gravel	2 – 8 Grain Size	300/400	<= 2000/3000
Other Ground Materials	As recommended by manufacturer		Critical fall height as checked

*Appropriate ground material, prepared for use at playgrounds

* In case of loose fill material, 100mm has to be added onto the minimum layer thickness to compensate the falling away effect.

* Without silty or clayey proportions. Grain size can be determined by a sieve test according to EN 933.1

3. Name and Overall dimension of the largest component:
Steel posts (3 pieces) Length 2,40 m, Ø 102 mm
4. Name and weight of heaviest component:
Steel posts (1 pack) ~ 18 kg
5. Intended age group: 3 years of age – upwards
6. **Attention: Please note that this equipment is set into concrete**
Concrete: C25/30
Required Concrete: ~ 1 m³
Excavation Site:
3 x 0,80 m long x 0.80m wide, total depth 0.90m inc. 10cm drainage layer.
Needed: any small excavator, standard tools



Attention!

Round off Foundation Edges (min.R=100mm)! Sizes of foundations are designed for soil classes 4-5 (natural ground).

Soil Class 4: soft to medium plasticity, interleave bound with minor portion of stone (portion <30% with bigger diameter of 63mm grain size).

Soil Class 5: Ground with soil class 3 and 4 with big portion of stones (portion >30% with bigger diameter of 63mm grain size).

In case of sandy or soft soils, the surface measure of foundations have to be enlarged for about 50%!

7. Assembly time, once foundations completed:
45 Minutes – Required Persons: 1
Not Included: 2 concrete slabs
(Concrete slabs 250 x 250 x 40mm) and support battens) for supporting the poles.
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 standards EN 1176.**

3 Delivery Contents (parts list with part numbers)



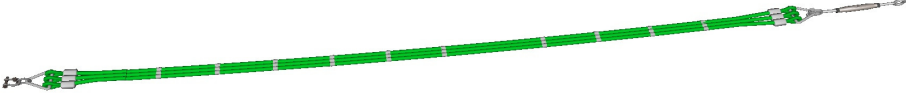



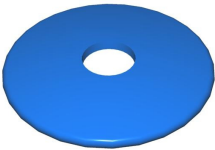
3.1 In Words



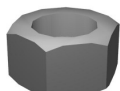

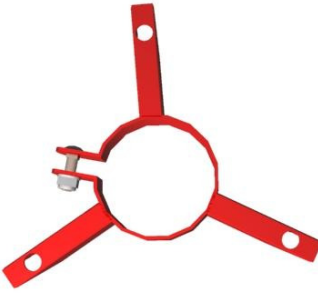
Table 3.1: Delivery Contents, in words





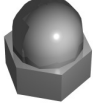

Pos.	Quantity	Description	Size	O.K	Missing
1	3	Steel Post	Ø 102 mm, 2.40m Long		
2	3	Post Caps	for Ø 102mm		
3	1	Slackline	Rope Ø 16mm		
4	2	Balance Rope	Rope Ø 18mm		
5	1	Blue Handrail	Rope Ø 16mm		
6	1	Hanging Rope	Rope Ø 16mm		
7	3	HDPE Blue Podum Plate	Ø 49cm		
100	11	Post Clamps with Stop Nut	For Ø 102mm		
101	4	Black Plastic Clamp Adapter			
102	6	Hex Nut M10, Galvanised			
103	3	Threaded Bar	M10 x 150mm		
104	3	Clamps for HDPE Plate			
105	3	Post Clamps without Stop Nut	For 102mm		
106	9	Self-Tapping Screws	3.5mm x 19mm		
107	9	Carriage Bolts	M8 x 35mm VA		
108	9	Washers	8 x 25mm VA		
109	9	Nut	M8 VA		
	0.5 ltr.	<u>Paint and Brush for painting</u>			

3.2 In Symbols

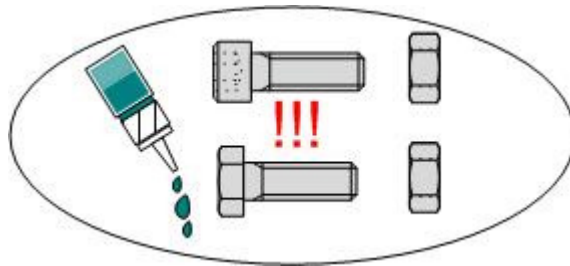
Table 3.1: Delivery Contents, In Symbols

Pos.	Quantity	Symbol
1	3	 Ø 102 mm, 2.40m Long
2	3	 for Ø 102 mm
3	1	 Slackline 3m Long
4	2	 Balancing Rope 3m Long
5	1	 Blue Handrail 3m Long
6	1	 Hanging Ropes 3m Long
7	3	 HDPE Plate Ø 49 cm

Pos.	Quantity	Symbol
100	11	 <p>for Ø 102 mm</p>
101	4	 <p>Black Clamp Adapter</p>
102	6	 <p>M10 Hex Nut</p>
103	3	 <p>M10 x 150 Threaded Bar</p>
104	3	 <p>Clamp for Ø 102 mm</p>

Pos.	Quantity	Symbol
105	3	 for Ø 102 mm
106	9	 3.5 x 19 mm
107	9	 M8 x 35 VA
108	9	 8 x 25mm
109	9	 M8 VA
110	0.5 ltr	

Screw Locking Device !

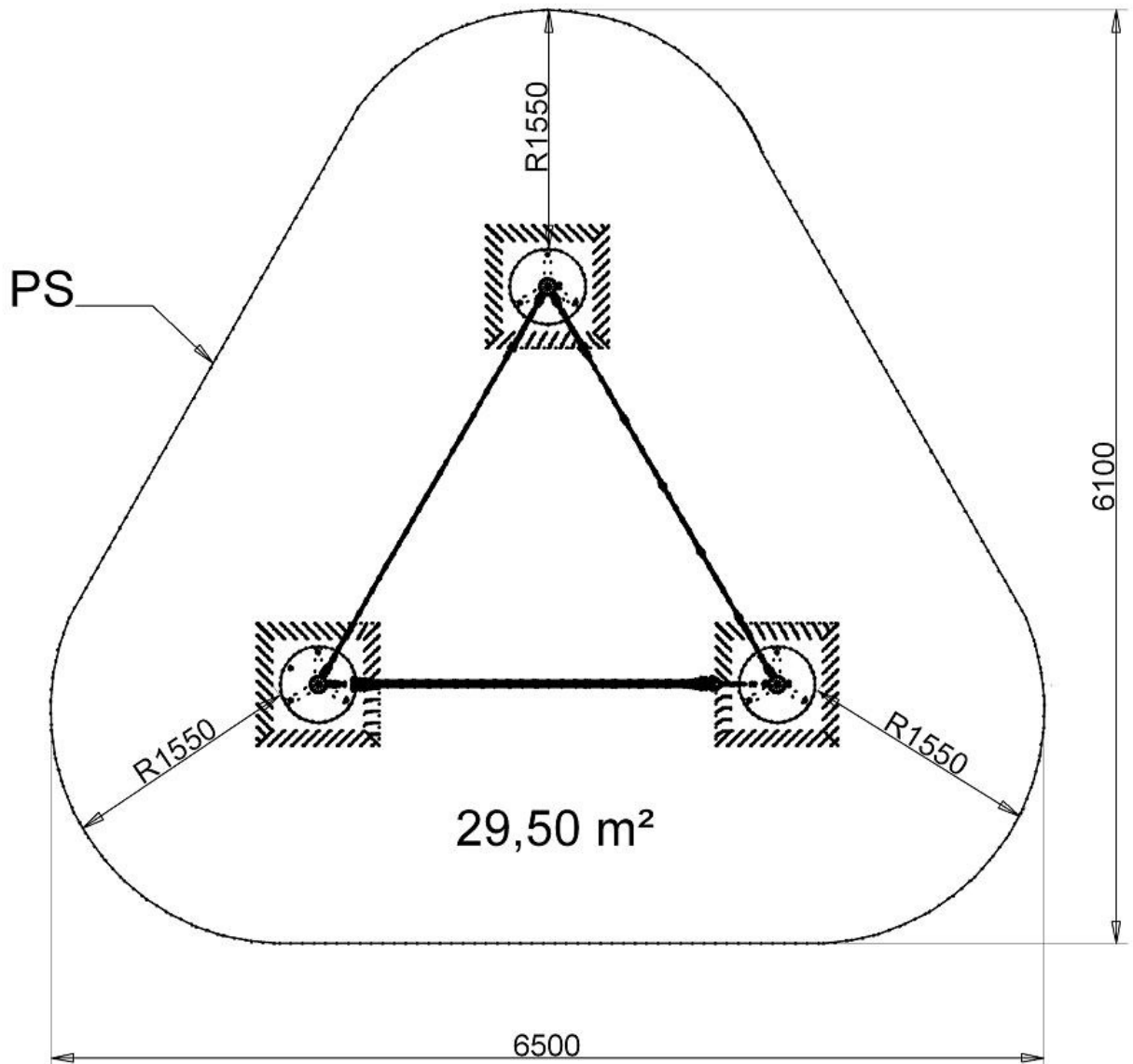


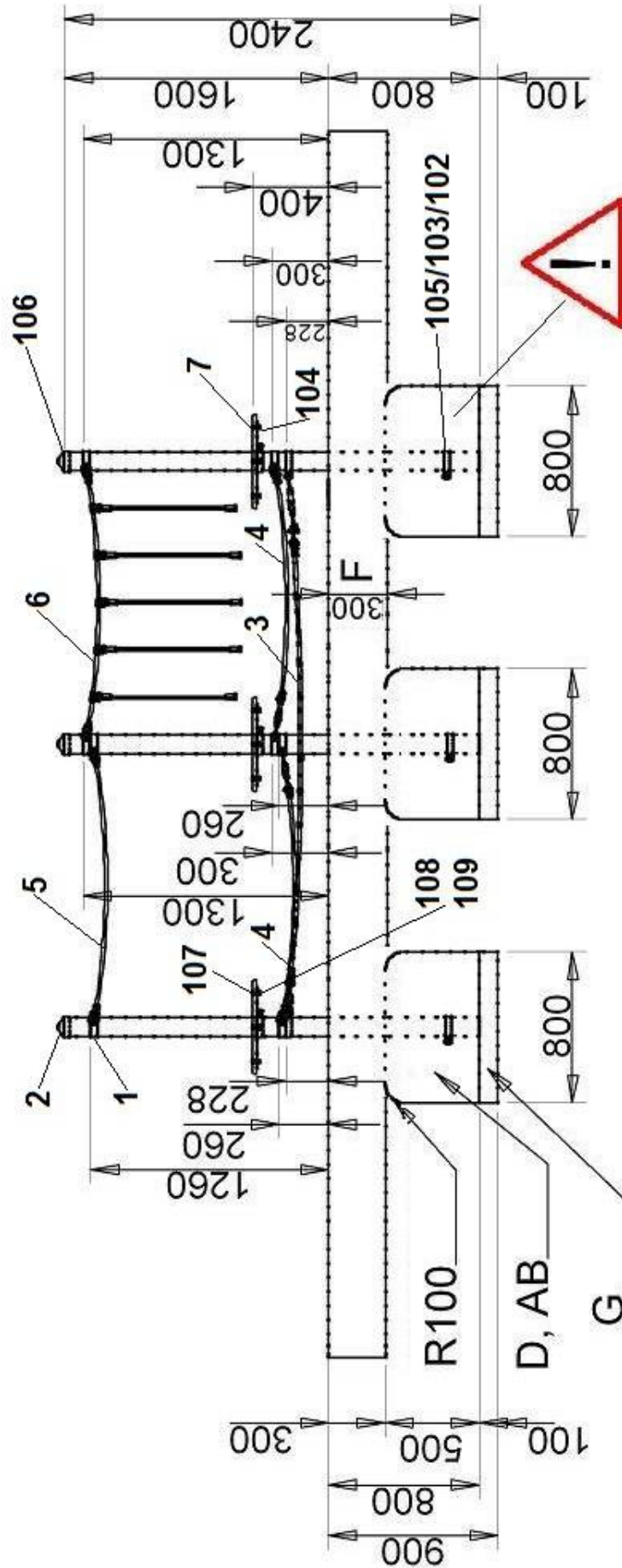
Glue all screws, nuts and sleeves with loctite

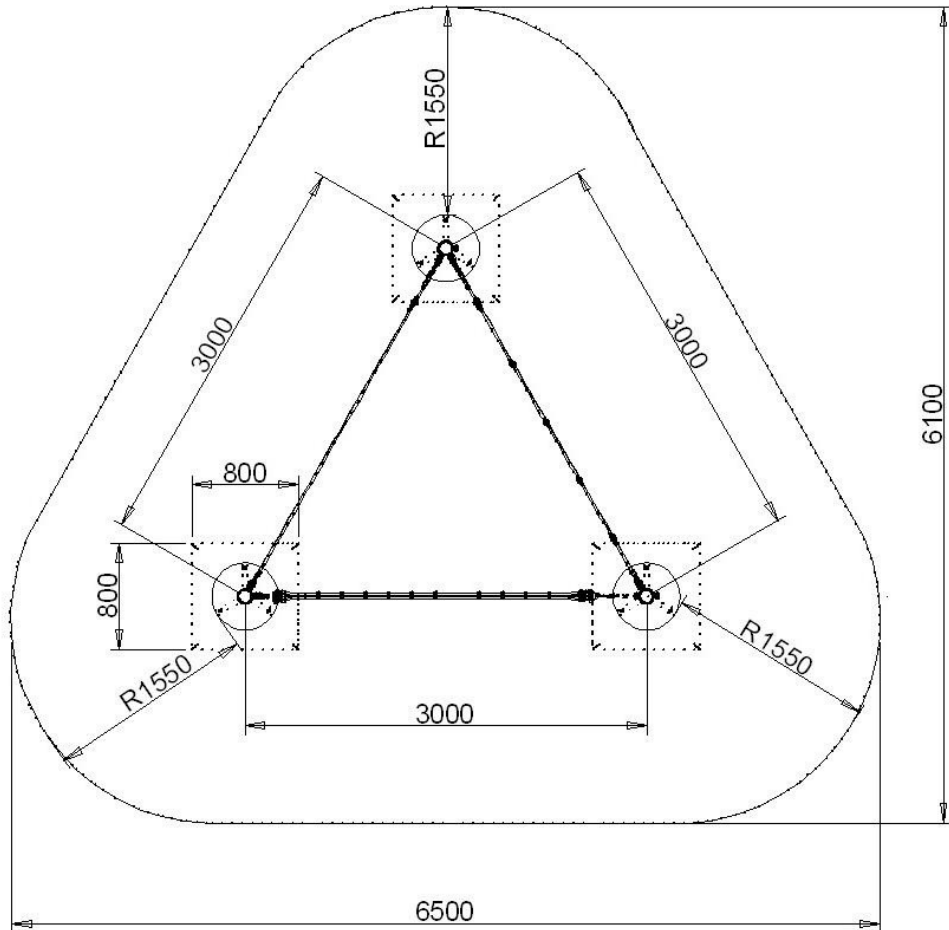
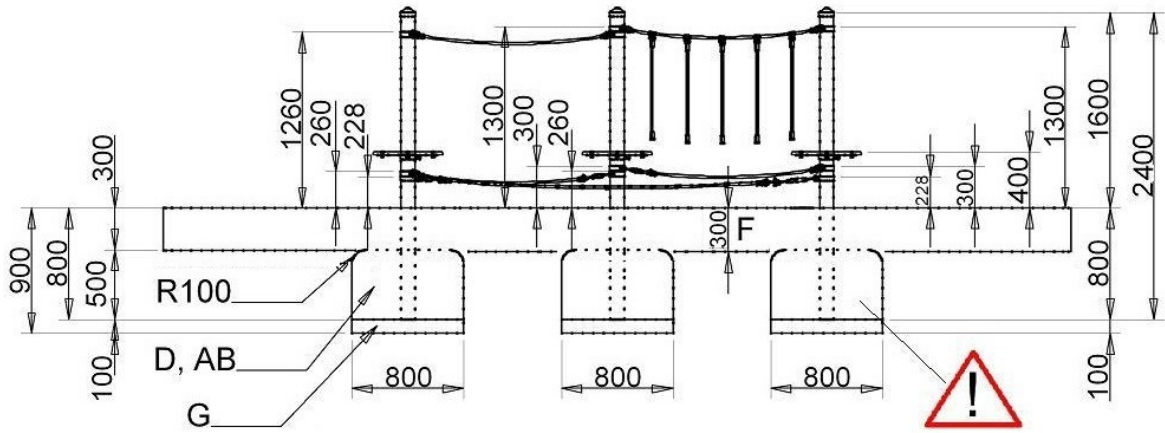
(no less than 5 drops!)



(Except for Lock Nuts)

4 Erection Instructions







	<u>Abbreviations:</u>
AB	Setting time at least 7-8 days
D	Concrete C25/30 for foundation
R100	Foundation edge radius at least 10cm
F	Fall protection 300mm
G	Drainage 10cm
Gehw.PI	Sidewalk flagstone (by the customer)!
	Upper edge – drainage (see drawing)
O.K	Top ground surface
VO	Pre-Assembled
PS	Space Requirement including safety surface 29.5m ²
	<p><u>Round off Foundation Edges (min.R=100mm)! Sizes of foundations are designed for soil classes 4-5 (natural ground).</u></p> <p><u>Soil Class 4:</u> soft to medium plasticity, interleave bound with minor portion of stone (portion <30% with bigger diameter of 63mm grain size.</p> <p><u>Soil Class 5:</u> Ground with soil class 3 and 4 with big portion of stones (portion >30% with bigger diameter of 63mm grain size.</p> <p>In case of sandy or soft soils, the surface measure of foundations have to be enlarged for about 50%!</p>

See drawings for details of shortcuts

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 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 carried out.

5.4 Information about inspection of the equipment before it is used for the first time

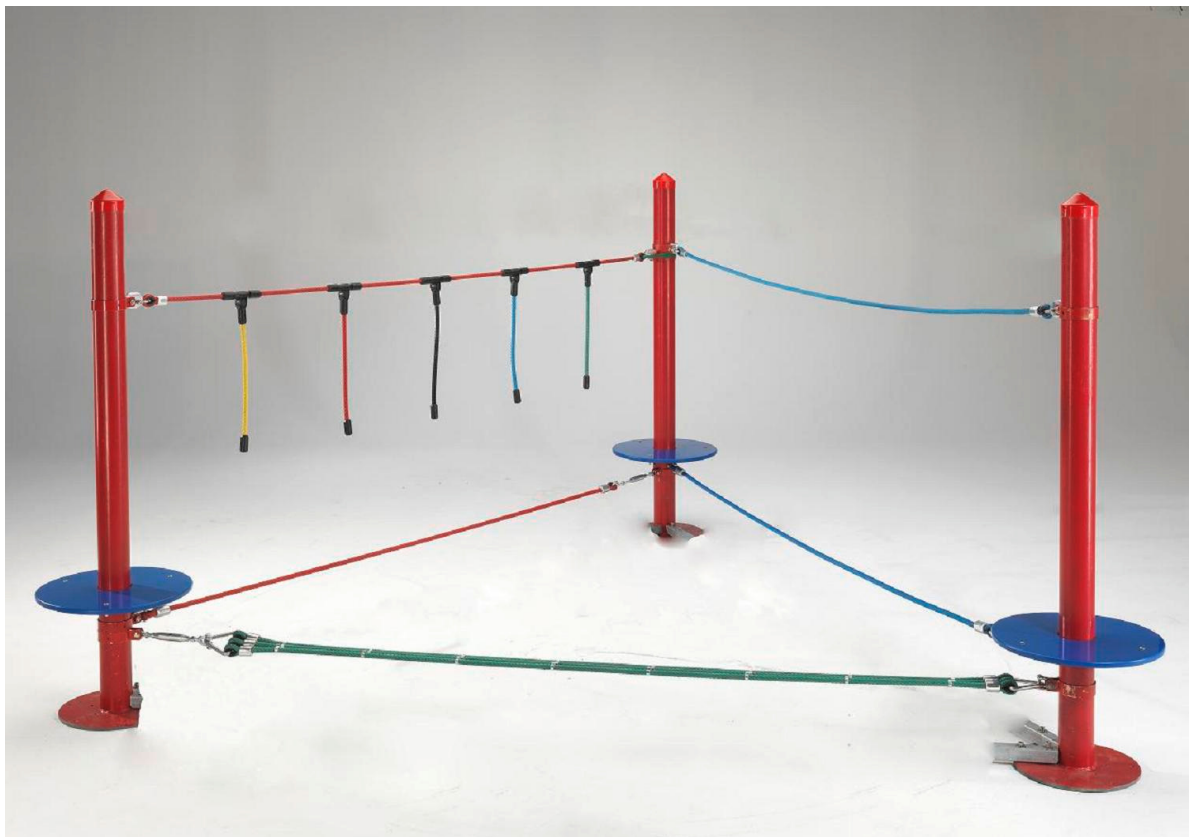
- There are no special inspection requirements to be met before the equipment is used for the first time.

5.5 Retighten bolts

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

B Maintenance Instructions Slackmaster

Art-No. 4591-70-k



Revision 0 – 2009-05-28

Erste freigegebene Version

Montageanleitung FH
Revision 3 2011-09-12 Stückliste FH
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6 Introduction Maintenance

6.1 General Informations

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



Please Note: Providing any necessary repairs are carried out, a piece of play equipment that is inspected regularly cannot become so damaged it is dangerous.

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



The 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”

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 similiar lubricant.

7.4 Spare Parts

All spare parts must conform to the manufacturers 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.

7.9 Faults



Damages must be repaired as soon as they are detected. If serious defects that affect the safety 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

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 Maintenance Timetable

8.1 Special Advice

8.1.1 Maintenance Interval

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

8.1.2 Maintenance Intervals in the Event of Intensive Use

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

8.1.3 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.

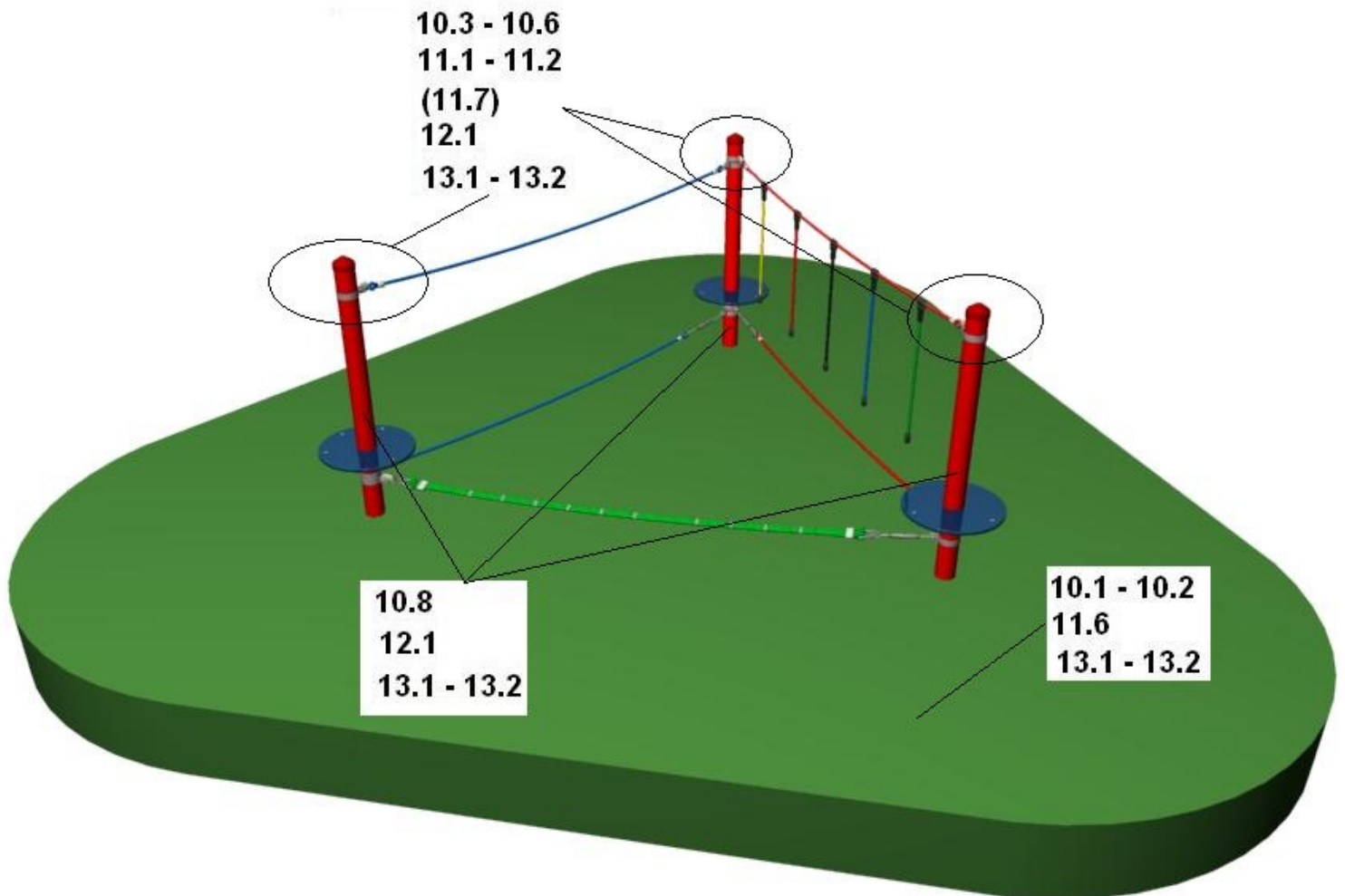
8.1.4 Faults that Compromise Safety



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.

9 Regular Maintenance



10 Monthly Maintenance

- 10.1 Check the spaces between the equipment and the ground (clearance and height of fall).**
- 10.2 Check for ground surface of fall protection for hard objects and loose foundations.**
- 10.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.**
- 10.4 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.**
- 10.5 Check all attachments such as chains, ropes, nets etc. For damage and replace if necessary.**
- 10.6 Check rubber parts, sleeves etc. For wear and tear or damage. Replace if necessary.**
- 10.7 If necessary remove access padding material from the post footings due to danger of rotting.**
- 10.8 Check the surface of the wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.**
- 10.9 Check the surface of plastic and metal parts, e.g. slides for damage and replace if necessary.**

11 Quarterly Maintenance

- 11.1 Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.**
- 11.2 Tighten all forms of attachments.**
- 11.3 Repaint and retreat surfaces.**
- 11.4 Maintenance of fall protection surfaces.**
- 11.5 Lubrication of joints.**
- 11.6 Check height of fall protection material and top up with loose filler if necessary. If the posts are labelled, top up to the mark.**
- 11.7 Retighten all bolts.**

12 Half Yearly Maintenance

12.1 The stability of supporting posts, supports, foundations etc. Has to be checked. The safety level of the entire system has to be checked after repairs have been carried out or additional system components have been installed or replaced.

 <p>Attention</p>	<h3>Annual Maintenance</h3>
--	-----------------------------

13 Annual Maintenance

13.1 Ascertaining that the equipment, foundations and surfaces are safe for operation.

13.2 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 installation instructions issued by the manufacturer.

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

14 Maintenance Printout

Name of Item: Slackmaster _____ / Art.-Nr. 4591-70-k _____

Location: _____

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

Date of Inspection	Inspector	O.K.	Accessible	Barriered	Defects	Repaired By	Date

B

15 Hand Over Document



After installation of the equipment, pass the installation and maintenance documents to the operator. The operator has to receive the hand over document. The complete, filled and signed hand over document should be sent to the supplier.

Art.-No: 4591-70-k

Name of Item: Slackmaster

Serial Number: _____

Customer or Operator (Local Authority, School, Trust 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: _____