

General hints:

A. Surfacing requirements

This equipment should be installed on an impact absorbing surfacing / loose fill material that accords with EN 1177 and is adequate for a maximum free height of fall of 1.00 m.

B. Foundations

Please see detailed instructions at the end of this document, especially depths of foundations for steel feet.

C. Prior to assembly of the equipments, the ground relief on site must match the required ground relief shown on page 2. If not, it must be shaped and tamped at the hills accordingly.

Special information:

Tested by TÜV Product Service GmbH.

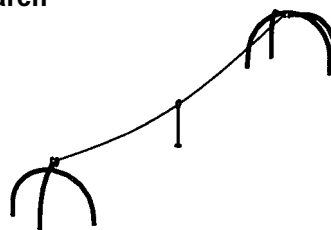
Please do not alter any parts of the equipment or the construction itself since this may affect the safety standards and your guarantee.

We reserve the right to make technical alterations!
For further information please call your local agent.

Cableway with big arch

up to 30 m

Order no. 6.01110



Data for shipment:

Number of parts: 8

- 7 tubular arches parts
- 1 palett with
 - 1 carrying cable with cable clamps and buffer
 - 1 travelling crab
 - 1 pendulum seat with chain
 - 1 stopper spring with rope clamp
 - 1 tube for tensioning, diameter 20 mm

Total weight: 760 kg
Largest single part: 130 kg
0.25 x 2.10 x 3.50 m

En-EN 08.06.2005

Copyright © Richter Spielgeräte GmbH * 83112 Frasdorf * Germany

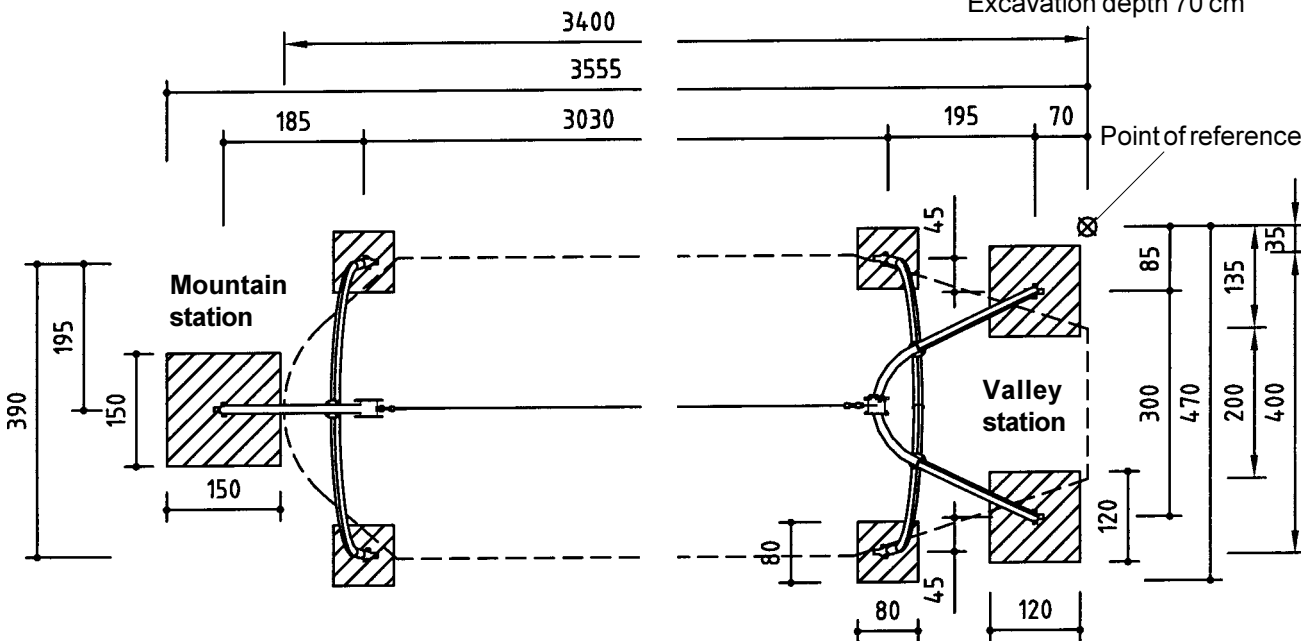
**Required space including safety distances (EN 1176):
3555 x 470 cm**

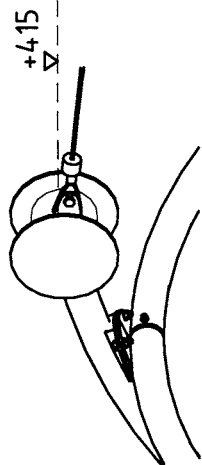
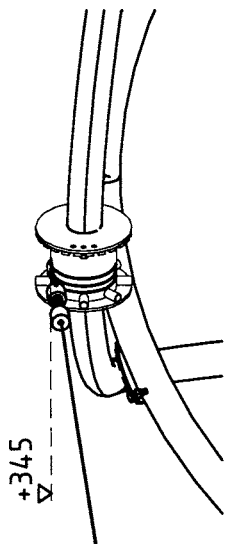
Ground elevation

Scale 1:100
all dimensions in cm

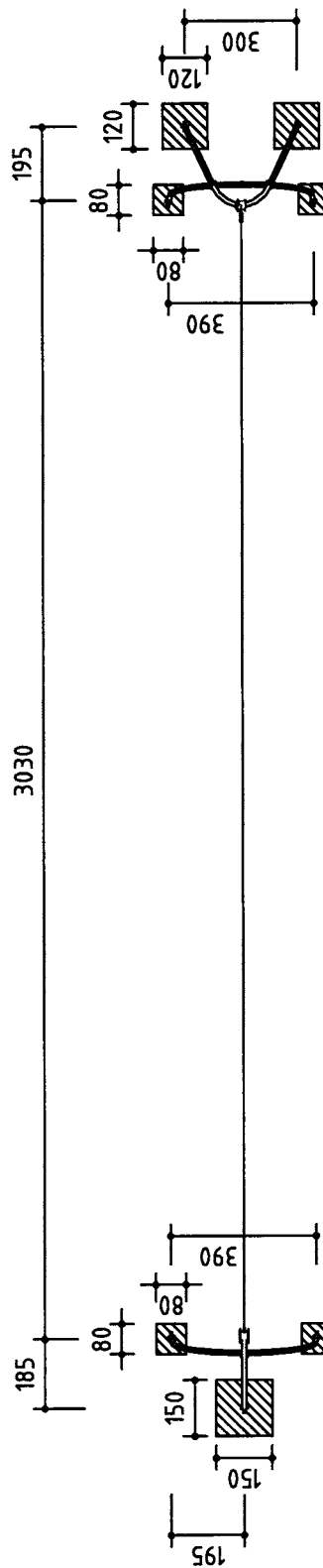
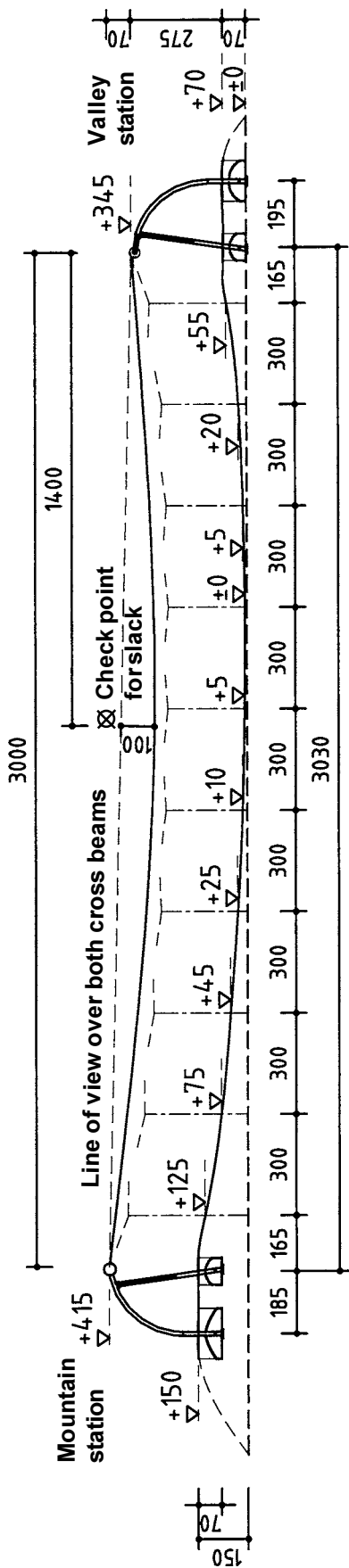
Foundation blocks

- 4 pieces 80 x 80 x 50 cm
- 2 pieces 120 x 120 x 50 cm
- 1 piece 150 x 150 x 50 cm
- Excavation depth 70 cm





Attention! For safety reasons the slack of the carrying cable must be at least 1.00 m.



Ground - and side elevation
Scale 1:200
all dimensions in cm

Recommended assembly aids:

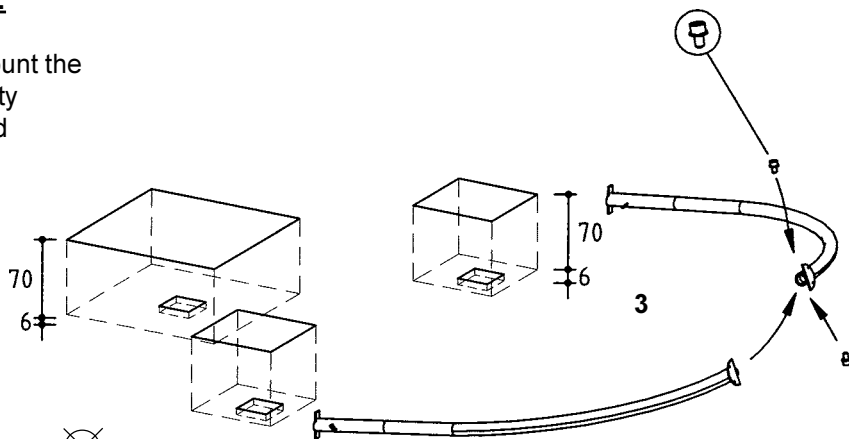
- Set of carpenter's tools
- Set of ratchets
- Allen key 10 mm
- Rubber mallet
- Pipe level or levelling instrument
- Lifting equipment at least 4 m lifting height
- Ladder
- 7 concrete slabs, 30 x 30 x 6 cm

Attention!

During the assembly period (including the setting of the concrete) it is not allowed to play on or put any weight on the equipment in order to secure stability during use after the assembly. Standard concrete requires at least 2 weeks to set.

Sequence of assembly operations:

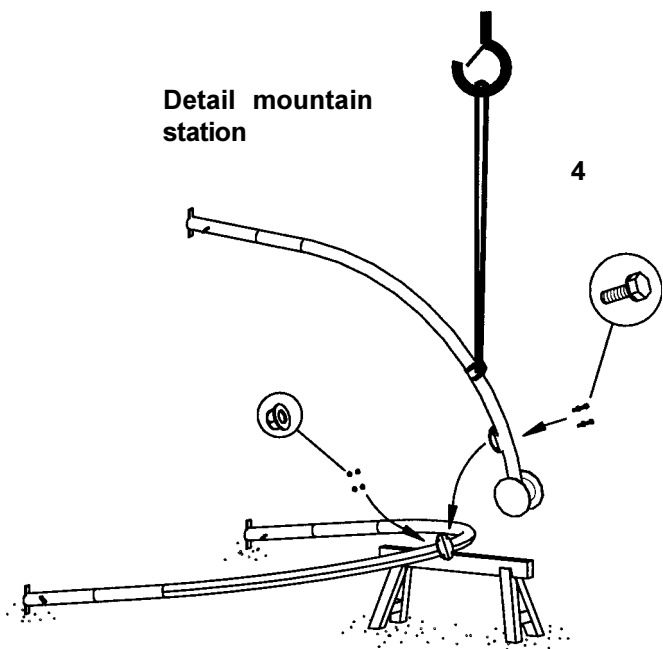
1. Locate the site and take into account the space required, including the safety distances, according to the ground elevation on page 2.



2. Start surveying at the point of reference and dig out the foundation holes. Place the concrete slabs into the foundation holes and level with respect to each other.

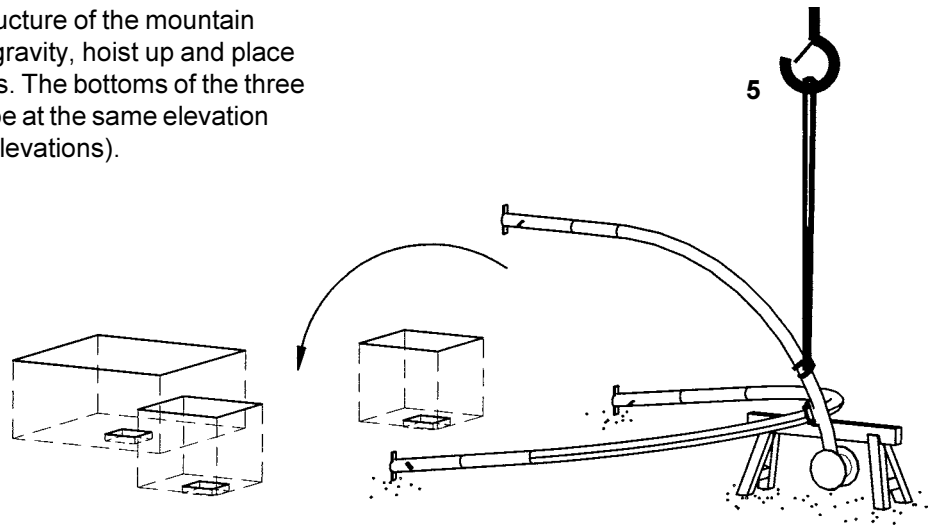
3. Place the tubular arches of the mountain station in front of the foundation holes, (marks "V" at the bottom), push together and tighten the allen screws M 12.

Detail mountain station

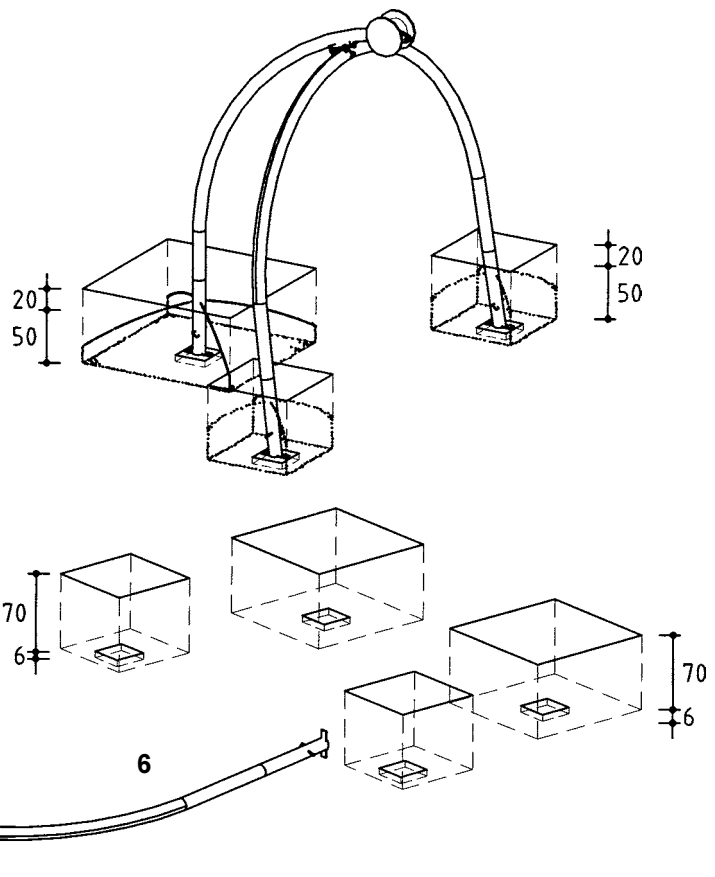


4. Hoist the tensioning arch at the centre of gravity and screw together at the flange plate with screws M 16 x 50.

5. Attach the complete structure of the mountain station at the centre of gravity, hoist up and place into the foundation holes. The bottoms of the three foundation holes must be at the same elevation (see ground - and side elevations).

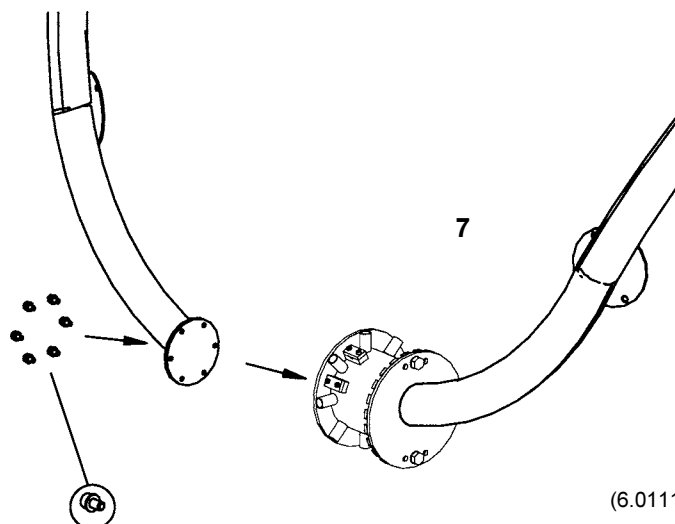


6. Place the tubular arches of the valley station in front of the foundation holes (marks "V" at the bottom), push together and tighten the allen screws M 12.

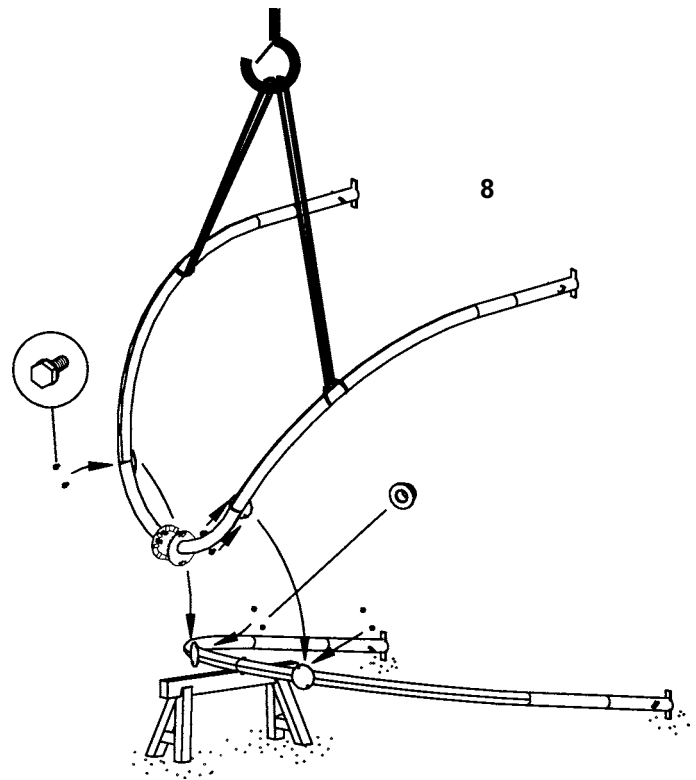


7. Assemble the tensioning arches of the valley station and screw together with allen screws M 12.

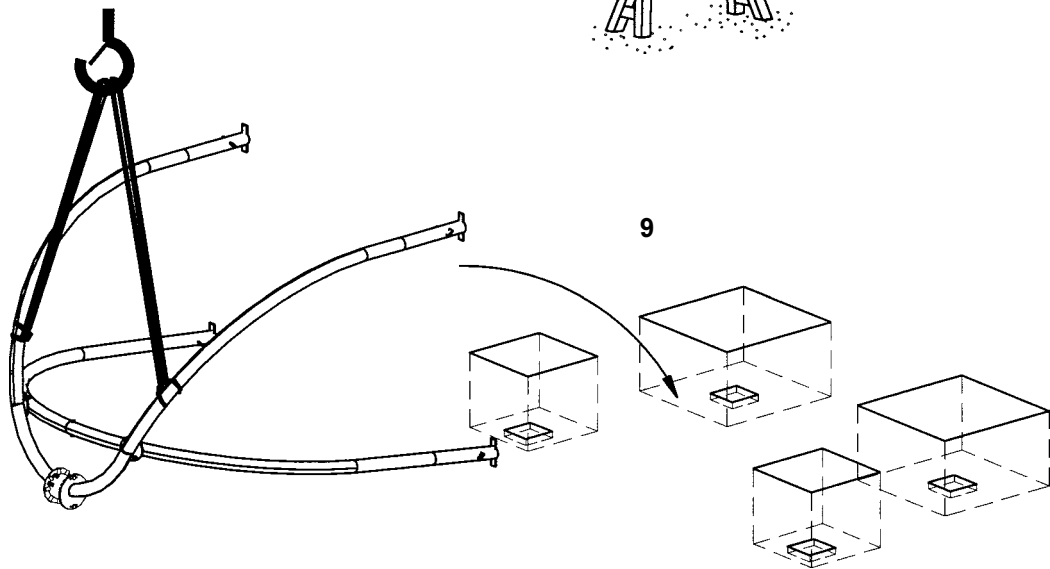
Important! The cable drum must be installed, assembly at a later stage is not possible.



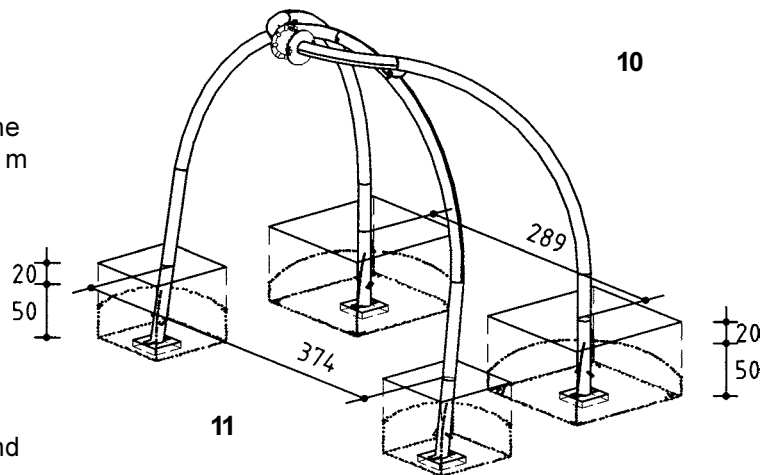
8. Attach the assembled tensioning arches of the valley station at the centre of gravity, hoist up and screw together at the flange plate using screws M 16 x 50.



9. Attach the complete structure of the valley station at the point of gravity, hoist up and place into the foundation holes. The bottoms of the four foundation holes must be at the same elevation (see ground - and side elevations).

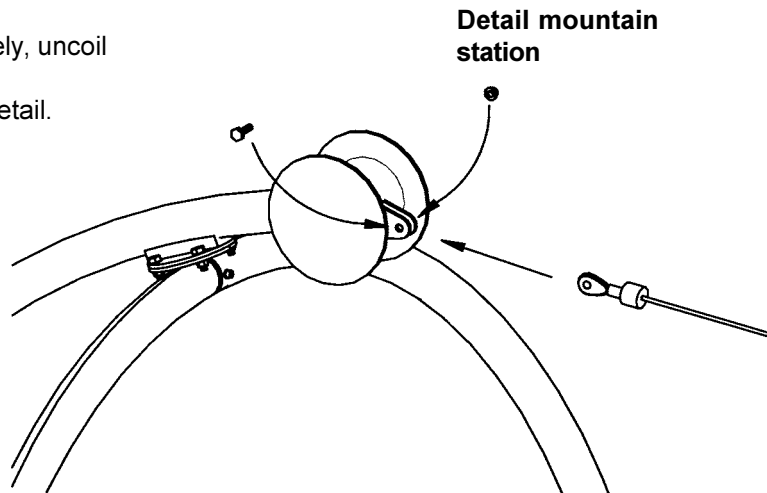


10. Prior to casting the concrete align the two support frames (positioning and elevation as shown in ground - and side elevation). Check the distance between the arches at the valley station (distances at ground level 3.74 m and/or 2.89 m).

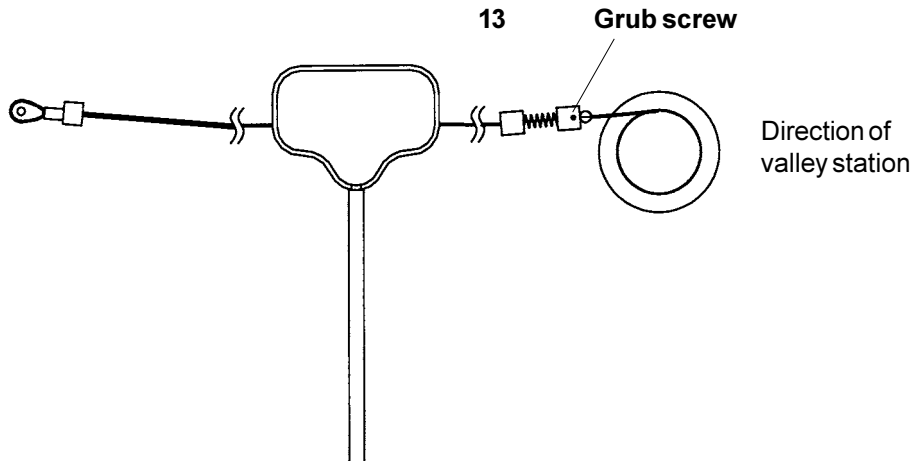


11. Fill the foundation holes with concrete B 25 (earth damp), largest grain size 16 mm and tamp. Round the edges of the foundations and cover with ground material.

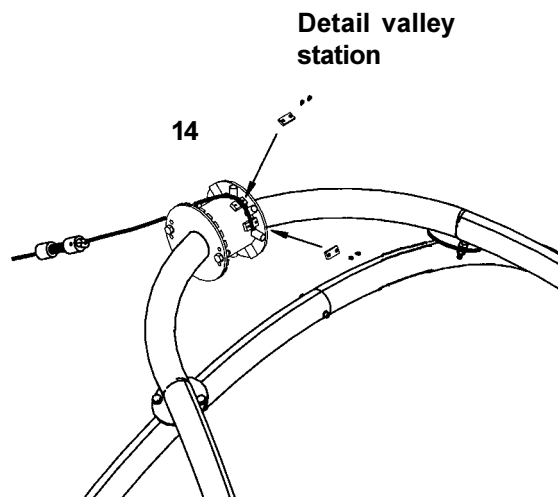
12. After the concrete has set completely, uncoil the carrying cable and attach to the mountain station according to the detail.



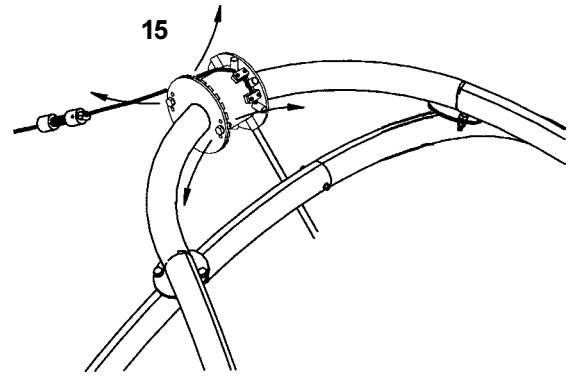
13. Thread the travelling crab with pendulum seat and stopper spring onto the carrying cable (see sketch). Pay particular attention to the position of the grub screw, it must be facing the valley station.



14. At the valley station fasten the carrying cable onto the tensioning roll with both rope clamps.



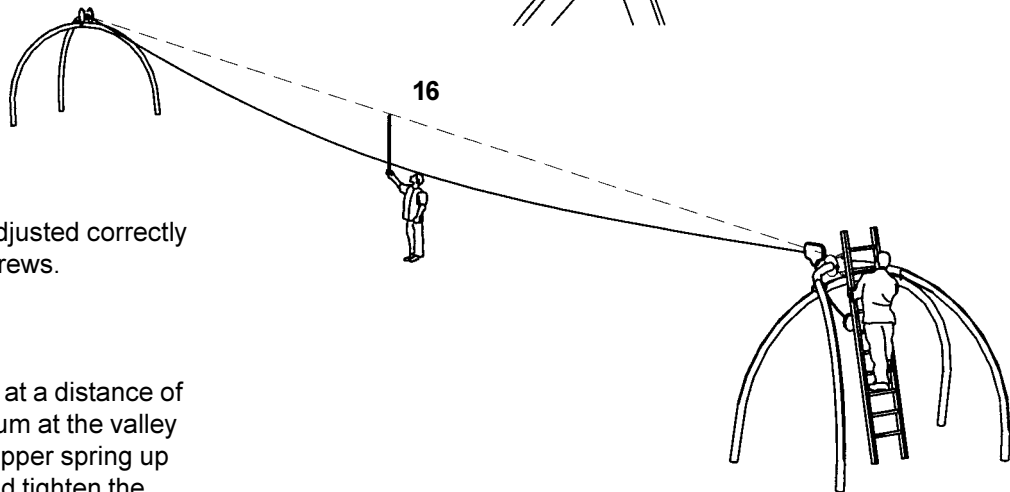
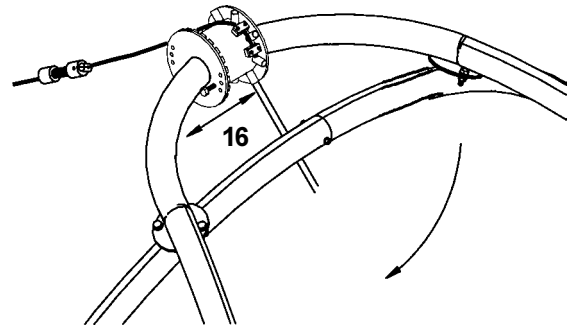
15. Engage the supplied tube and remove the safety screws.



16. Tighten the cable until the slack measures 1.00 m (see notes on page 2)

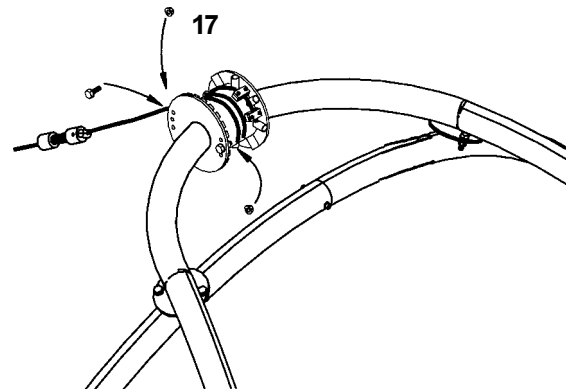
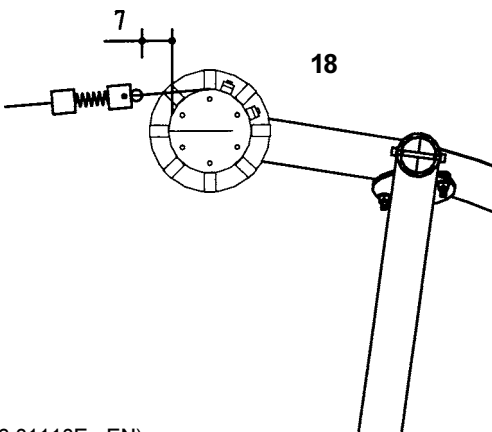
Attention! Adjust the slack in the unloaded condition of the cable, therefore keep the travelling crab at the valley station.

Check the slack by measuring the distance between the line of view and the cable with the assistance of a second person at the check point. See also the drawing on page 2.



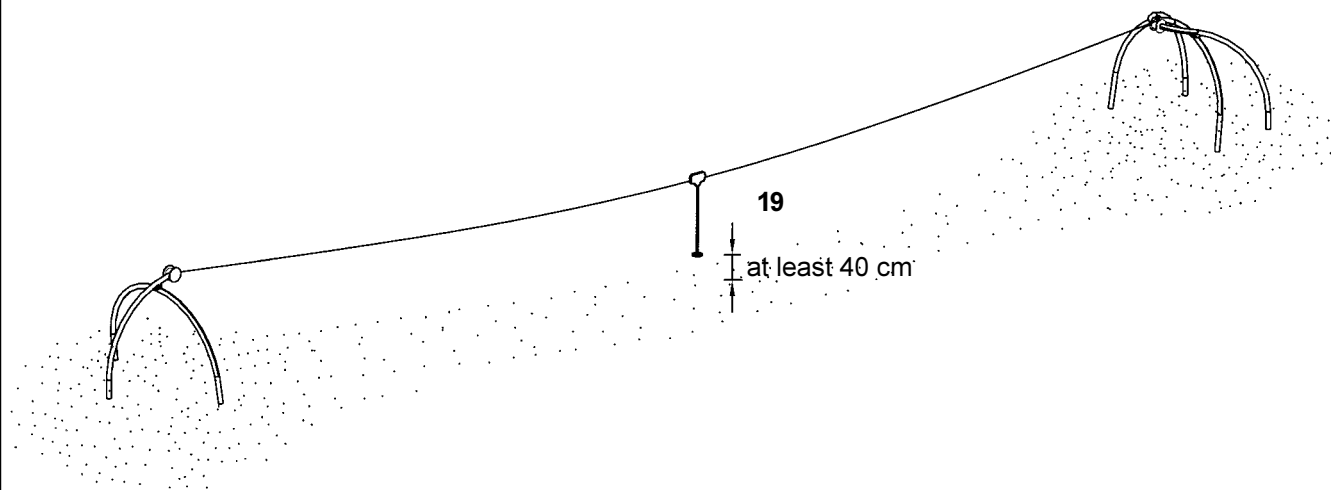
17. When the slack is adjusted correctly tighten the safety screws.

18. Attach a rope clamp at a distance of 7 cm to the cable drum at the valley station. Push this stopper spring up to the rope clamp and tighten the grub screw.



19. Procedure for checking the safety distance between pendulum seat and ground:

The clearance between ground and pendulum seat must measure at least 40 cm, when load is applied to the carrying cable (weight on pendulum seat approx. 130 kg). If required the ground relief **must** be adjusted accordingly.



20. Repair minor damages caused during assembly or transportation.

21. Please ensure that all assembly aids, e. g. excess bolts, assembly instructions, distance battens or tape are removed entirely from the play equipment and the playground after work is finished.

Please note that after about 6 weeks all screws and bolts need to be checked and, if necessary, retightened.