

1. Assign a location for the equipment considering the space requirements (impact area).
2. Excavate soil for foundations of starting point and terminus, according to drawing (with level ground, provide additional formwork for all foundations).  
Please note: To achieve maximum stability and safe installation, a moderate level of soil solubility is indispensable.
3. Due to the danger of overstraining the tube bends of the posts, we recommend to begin with mounting two posts to each crossbeam (see figure "Installation of supports"). Raise the unit by using an appropriate lifting gear and put assembly into foundation holes (respectively into formwork) after mounting the reinforcement cages. Support temporarily, in accordance with all security-relevant rules. Afterwards mount the remaining two posts as well as the reinforcement cages to the crossbeam.
4. Align starting point and terminus and grout foundations (according to drawing) with compressed concrete C20/25. Lift up reinforcement and ensure a concrete covering of at least 5 cm.
5. Mould a suitable hill course for starting station and terminus, according to drawing.  
The impact attenuating surface within the impact area (see ground view) shall at least conform to the minimum values for a critical fall height of 1000 mm (see EN 1176-4).
6. For wire cable forwarding, please complete attached form "Measurement on site" and return sheet to your distributor or to K&K Freizeitgeräte.

After setting of concrete foundations: (see figure "Installation of wire cable")

7. For cable assembly, the tensioning devices mounted to the crossbeam of the terminus must be relaxed as follows: remove protective caps from tensioning devices by loosening the set screws by an Allen key 6 mm across-flats.  
Extend the tensioning devices to the stop by a spanner jaw size 36 mm.
8. Hang up both cables with traveller: Remove hexagon head screw from cable socket (24 mm across-flats), match ends of cable socket with fixing hole at end of tensioning device, reinsert screw and fix it with a prevailing torque type nut.  
Attention: Tighten the screw such that the cable socket barely remains flexible.  
Perform that procedure both at the starting point and at the terminus.
9. Tension the cables equally at both ends such that the pendulum seat (with a load of 69,5 kg) keeps ground clearance of at least 0,35 m (according to EN 1176-4). If necessary, shorten length of seat chain above the handle. Do not fall below the minimum length of 1,80 m for chain including handle.
10. To make sure a proper course of the traveller on the cable, the lateral impact plates of the traveller are vertically adjustable to avoid tilting or abrasion of the cable.
11. Check all screw connections and cable tension according to maintenance instructions after 4-5 weeks and retighten, if necessary. Afterwards, cover the screw heads with protective caps (included in delivery).

Tools: lifting gear (for approx. 0,5 t)  
ladder, spanner, Allen key

Maximum/minimum deviation (sag) of cable:

sag = maximum vertical distance between

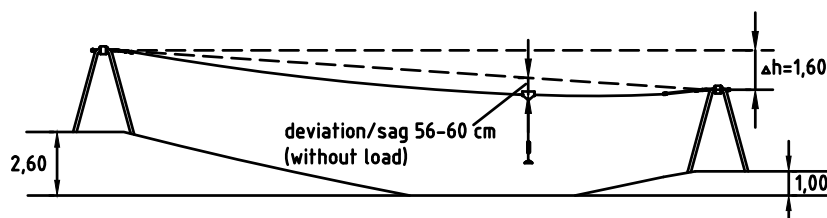
- imaginary direct line between suspension point of rope (K&K: middle of rope socket to middle of rope socket) and
- middle of rope measured at low point

Minimum deviation: 56 cm (without load)

Maximum deviation: 60 cm (without load)

Figures for allowance of descending gradient:

$\Delta h = 1,60$  m

Impact area:

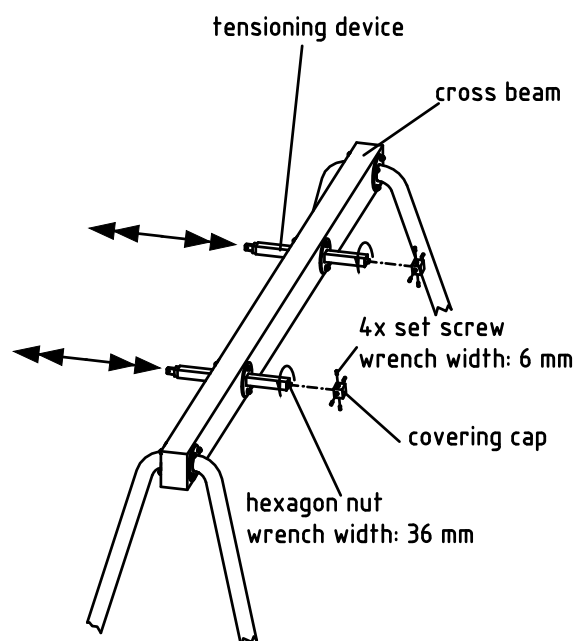
(area marked by dashed line acc. to drawing page 3)

area = 312 m<sup>2</sup>

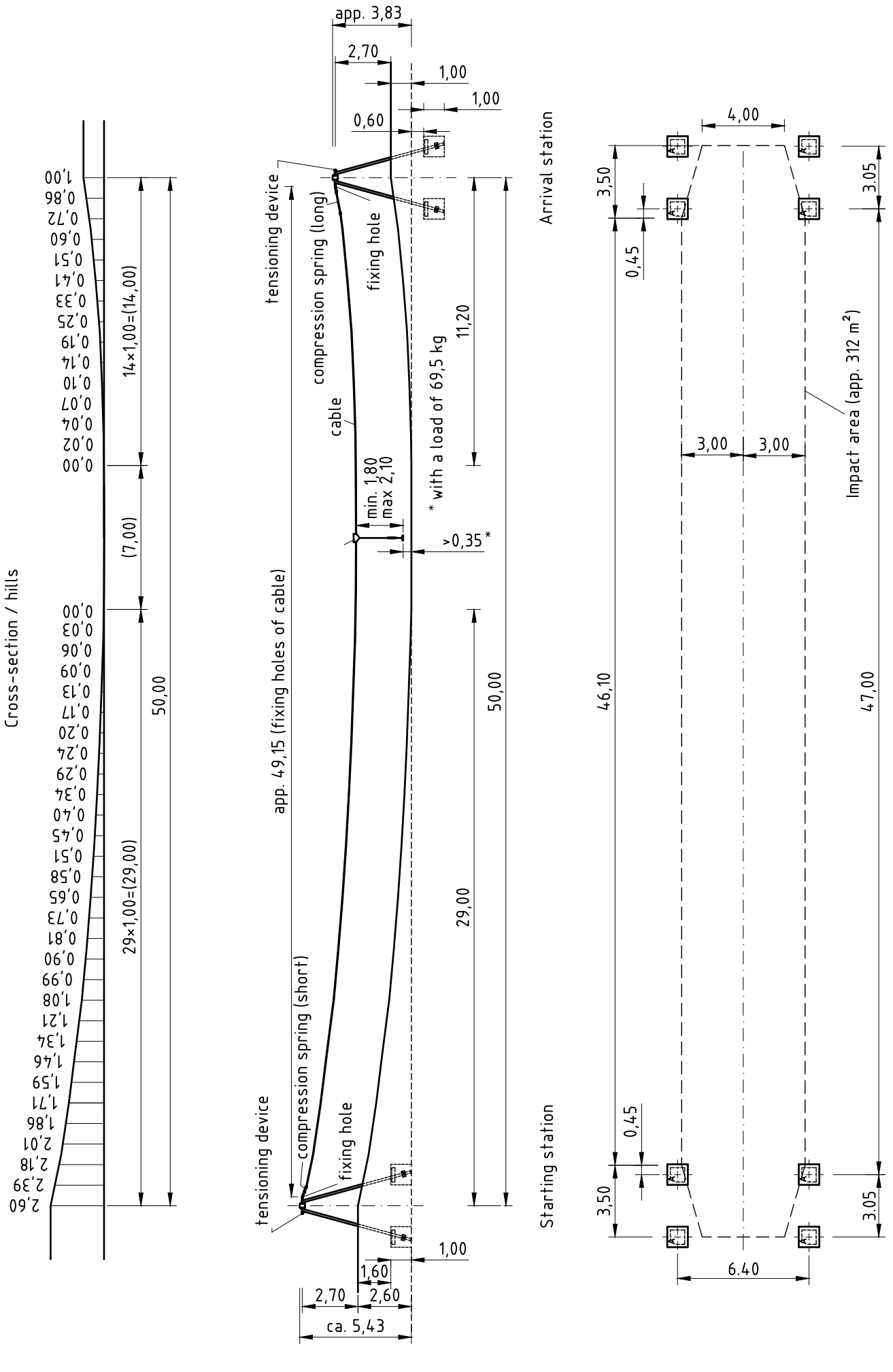
free height of fall = 1,00 m

Instruction for adjusting the tension of cable:

1. Remove covering cap of tensioning device by loosening hex-socket set screws using Allen key 6 mm.
2. Turn appearing hexagonal nut in one direction either for tightening or relaxing the cable using an open jawed spanner 36 mm.



Please take care that all special tools (e.g. special Allen key for secured Allen screws etc.) and all specific documents which are or may be useful for safety management acc. to EN 1176-7 (e.g. invoice, delivery note, order acknowledgement, installation instructions, maintenance instructions) are forwarded to the responsible persons.



# Installation

Item-No.  
0-42252-000  
0-42253-000

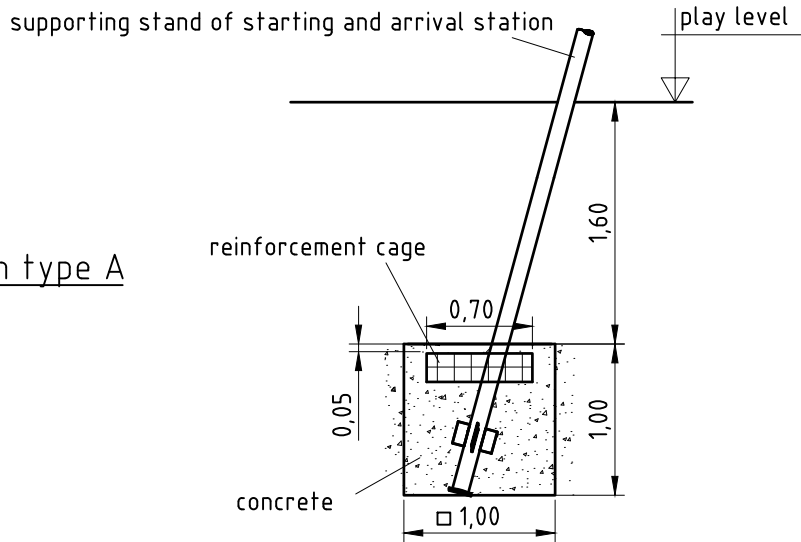
Description  
Cable ride (50,00)

Scale  
none

Date  
05/18 DW

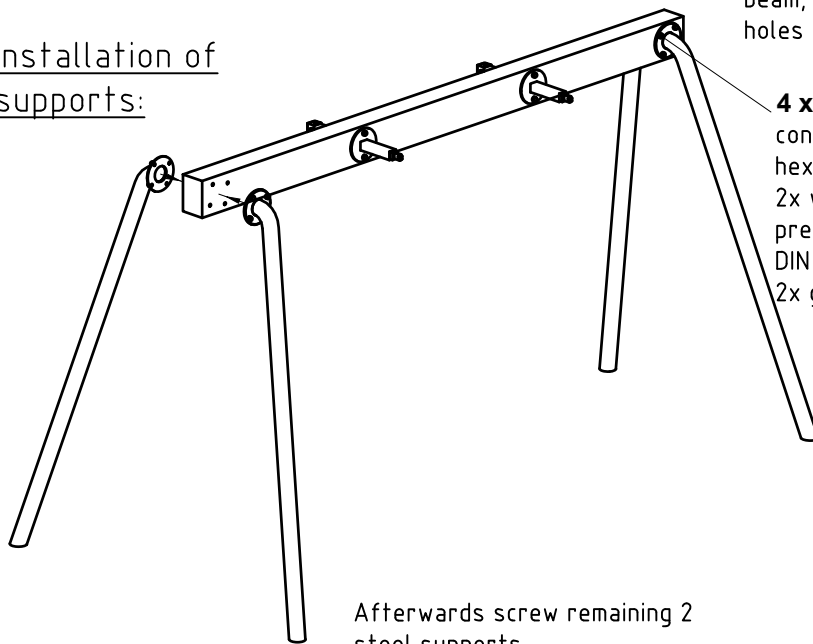
Page  
3

### Foundation type A



First screw 2 steel supports to cross beam, raise and put unit into foundation holes with placing reinforcement cage.

### Installation of supports:



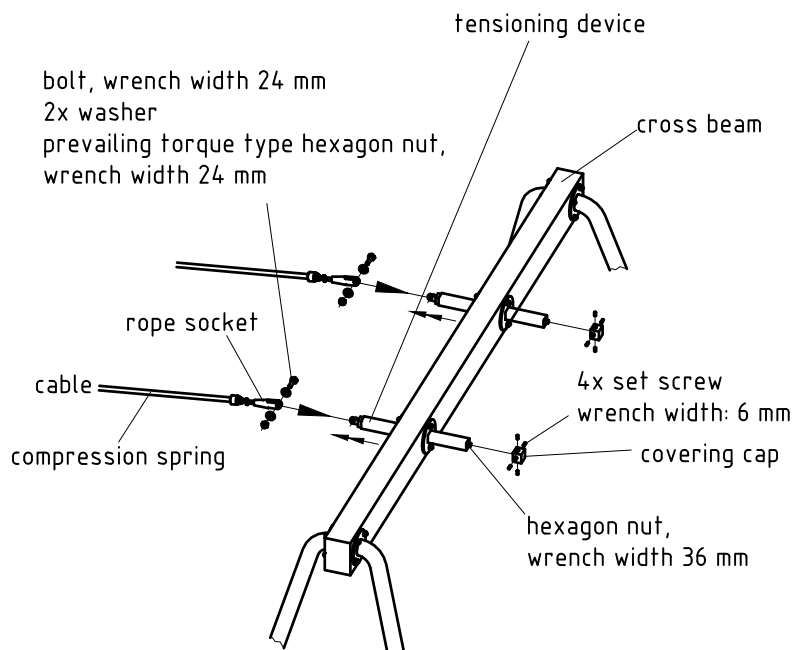
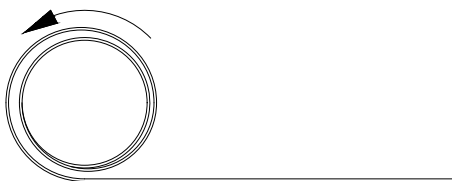
#### 4 x screw connection

consisting of:  
 hexagon head bolt DIN 931-M16x230-zinc-coated;  
 2x washer DIN 125-18-zinc-coated;  
 prevailing torque type hexagon domed cap nut DIN 986-M16-zinc-coated;  
 2x grey protecting cap SKS 16

Afterwards screw remaining 2 steel supports.

### Installation of cable

Uncoil cable free of twists!



# Measurement on-site

for cable length determination

Please fill in this form and return it to:  
**Kaiser & Kühne Freizeitgeräte GmbH**  
Im Südloh 5  
27324 Eystrup  
Fax +49(0)4254 / 93 15 24

## Address for delivery of the cable


Order No. K&K: **B/**

Building project: ..... Location: .....

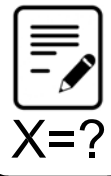
Installation enterprise:

1. →

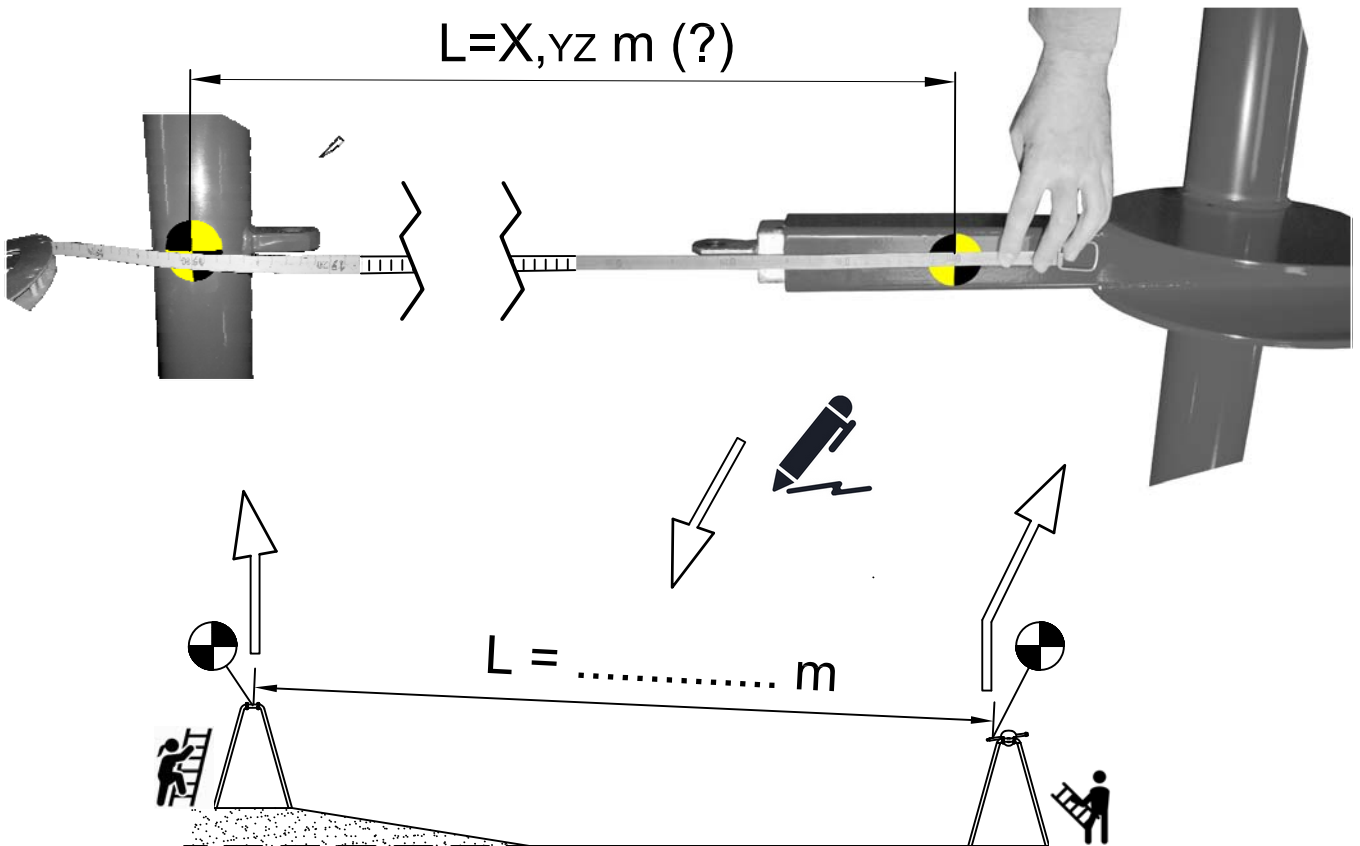

2x 2x 1x



2. →



3. →



.....  
Date

.....  
Signature / Company stamp

**Einstellbarkeit bzw.  
Optimierung des  
Seilwagenlaufs**



**Adjustment resp.  
improvement of the pulley  
course on the rope**

Für einen sauberen Lauf des Wagens, und um Verkanten oder Verletzung des Seils auszuschließen, können die seitlichen Anschlagplatten am Seilwagen mittels der Langlöcher in der Höhe verstellt werden.  
(im Lieferumfang enthalten: Schraubendreher Torx TX30 mit Bohrung für Pin – K&K Art.-Nr. 3490080)



For a proper course of the pulley and to avoid tilting or abrasion of the rope, the lateral impact plates of the pulley can be vertically adjusted ( included in delivery: screw driver Torx TX 30 with drill for pin – K&K item-Nr. 3490080)



**Kontrollmaß zur Überprüfung  
bei jedem Wartungsintervall**

**Specification to be checked  
on each service interval**

Rundstab  $\varnothing$  8 mm darf nicht  
durch die Öffnung passen!



The 8 mm finger rod must  
not fit into the notch!

Abstand < 7 mm: O.K.

Abstand  $\geq$  7 mm:  
AUSTAUSCH!!



Gap < 7 mm: O.K.

Gap  $\geq$  7 mm:  
REPLACEMENT!!