



ALEXANDER AERIAL ACROBATICS

# MANUAL

## AERIAL STRAPS

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### INTRODUCTION

I am very glad you have chosen for one of our products.

**Alexander Aerial Acrobatics®** stands for quality; all products are designed to meet your requirements and are offered with a very fair price – performance ratio.

With the decision to buy an aerial device you are absolutely in vogue.

Studies in the past years have shown that (aerial) acrobatics for children, youth and adults is an excellent recreational sport and helps to develop self-confidence, coordination, strength and increases your own well-being. And, its great fun!

My products design is inspired by daily training of artists and is continuously in development.

All the materials used are of high quality and ensure a long life of the device.

The breaking load of the material is tested (you can find the results in appendix A).

If you have any suggestions or critics, please do not hesitate to contact us.



## SAFETY

Always check the rigging material and the straps for any damage before training and inspect them deeply all half year.

When the seams seem to let go or if there are any rips in the material, don't use the straps anymore until they are repaired. Same goes for all other accessory!

Please retire your Equipment at the end of the specified Time of Usage!

## PRODUCT INFORMATION

### MATERIALS AND PROPERTIES OF AERIAL STRAPS

All straps are built with three ply. The two outer layers of cotton have a pleasant and non-slip grip while the middle layer of polyamide guarantees to hold a massive tensile strength and offers longer endurance.

The aerial straps are always supplied with two mount points with triangular elements. For those elements are safety descriptions provided as well.

The breaking load of the straps is set at 1150 kilogram.  
The maximum weight of the user must not be over 95 kilogram.

The breaking load of the Twin Straps is set at 1650 kilogram.  
The maximum weight of the user must not be over 137,5 kilogram.

The breaking load of the heavy duty straps is set at 1900 kilogram.  
The maximum weight of the user must not be over 158 kilogram.

The breaking load of the Twin Straps - heavy duty is set at 2700 kilogram.  
The maximum weight of the user must not be over 225 kilogram.

Recommended Time of Usage: 3 years / 500 hours

### RIGGING OF THE STRAPS

The suspension point should have at least the same strength as the carabiner used for the rigging. Please use carabiners with a minimum strength of 22 KN vertical ( about 2200 kg). Connect the triangular elements directly to the swivel and screw them tight by hand. Then use a wrench to turn it a quarter more and I advise to use loctite glue for the most ideal security. If you wish to open them again, always do this with the whole rigging set attached because when you open the triangular elements too often the screw gets too smooth and it can open by itself, which leads to danger of serious accidents.

For the correct and most ideal rigging of your aerial straps you need 4 (additional) carabiners, 3 swivels and a



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rigging plate (all offered on our website). First attached to the suspension point is a carabiner. Then a (central) swivel with another carabiner to attach the swivel to the rigging plate. In the 2 lower (outer) holes of the plate are again 2 carabiners with 2 swivels.

The triangular elements provided with the straps are supposed to be attached to these swivels.

Never let the carabiners hanging horizontally, vertically is the tensile strength a lot higher. And there is no risk of sliding down during the use of the straps.

Make sure that when you have carabiners with screws, the side that can open is facing down (this is called gravity-safe).

(See picture below)



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## USER INSTRUCTIONS

If you ordered your straps with twisted loops, put your hands in through the smallest side of the loop. For safety we recommend you to always use a mat when training.

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## TERMS

1. Tensile strength: Results from the breaking load of an object divided by a corresponding Safety factor. With ropes and carabiners factor of 12 is assumed. This provides a sufficient safety buffer zone for people's safety.
2. Breaking load: The minimum weight that must prevail in order to break an object.

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## IMPRESSUM

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## ATTACHMENTS

1. Breaking Load Test - Straps

## Prüfbericht

Prüfer : Schwawuski

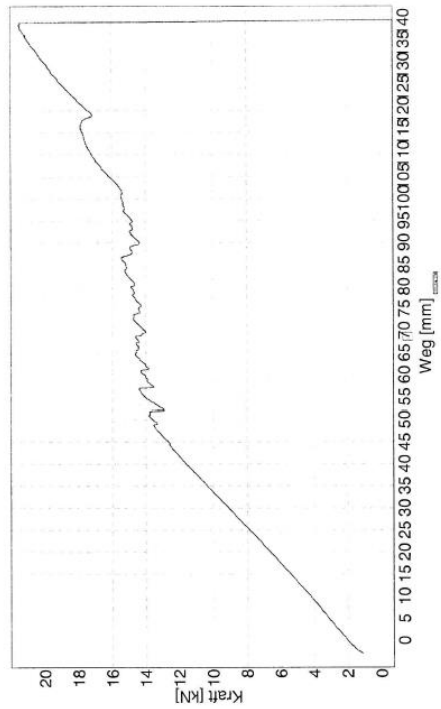
Auftragsnummer : ATRK-20009864

Fmax = Maximalkraft (global)  
sE = Weg bei Testende  
tH = Haltezeit  
Pos = Position

P Nr. = Prüfnummer  
Datum = Prüfdatum  
Bemerkung = Bemerkung  
M 400 kN = Maschine 400 kN

Resultate 9:

|           |  |
|-----------|--|
| P Nr.     |  |
| Fmax [kN] | 21,55  |
| sE [mm]   | 140,430  |
| tH [s]    | n.a.   |
| Datum     | 10.11.2020 09:43:53  |
| Bemerkung | Zwillingsstrapaten mit 2x Triangel. (Schlaufe, BolzenØ 42mm) |
| Pos [mm]  | n.a.   |
| M 400 kN  | n.a.   |



Das Protokoll ist auch ohne Unterschrift gültig!

## Prüfbericht

Prüfer : Schwawuski

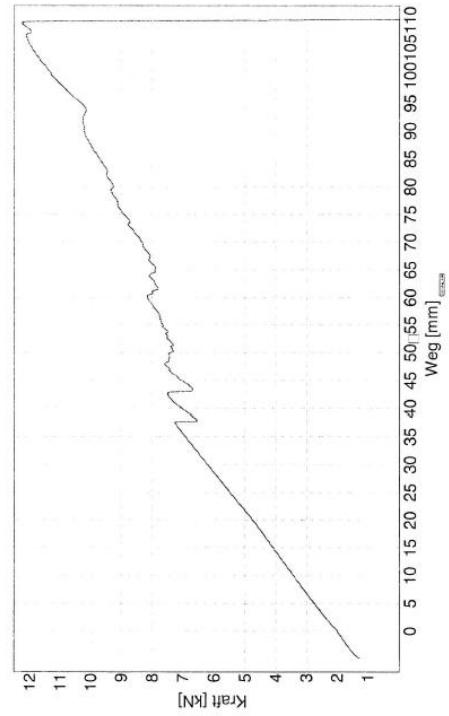
Auftragsnummer : ATRK-20009864

Fmax = Maximalkraft (global)  
sE = Weg bei Testende  
tH = Haltezeit  
Pos = Position

P Nr. = Prüfnummer  
Datum = Prüfdatum  
Bemerkung = Bemerkung  
M 400 kN = Maschine 400 kN

Resultate 6:

|           |  |
|-----------|--|
| P Nr.     |  |
| Fmax [kN] | 12,23  |
| sE [mm]   | 110,072  |
| tH [s]    | n.a.   |
| Datum     | 10.11.2020 09:08:36  |
| Bemerkung | Strapaten, klassisch mit 1x Triangel. (Schlaufe, BolzenØ 42mm) |
| Pos [mm]  | n.a.   |
| M 400 kN  | n.a.   |



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