

User Manual Rescue System

ALFAcross*100



EP 218.2018
LTF / EN 100 kg

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Foreword

Congratulations on buying your
ALFAcross*100 rescue system

Before you get to know your system please read the
manual which includes important information.

This manual gives you information on the entire specific and general characteristics of the rescue **ALFAcross*100**.

All technical data and instructions in this manual were drawn up with great care. FLUGGERÄTE GmbH cannot be made responsible for any possible errors in this manual.

Should you decide to sell this rescue system at a later date, please pass on this manual to the new owner.

No guarantee of any kind can be made against accidents, injury, equipment failure, and/or death. It is assumed that the pilot is in possession of the necessary qualifications and provisions of any relevant laws are observed.

The use of this rescue system is entirely at your own risk.

Every pilot bears the responsibility of his/her own safety. The manufacturer or distributor assumes no responsibility for accidents occurring while using it.

It is strictly prohibited to use the ALFAcross*100

- **beyond the maximum recommended weight**
- **for skydiving**
- **with damaged canopy, lines, connection belt or seams or**
- **without regular check (check interval).**

WARNING:

**The rescue system is not suitable for speeds
in excess of 32 m/s (115 km/h).**

Important information in this manual is written in **bold font**.

Any important changes to this manual will be published on our website
www.gleitschirn-retter.at

Every pilot must ensure that the rescue system is properly checked at regular intervals.

Get to know your ALFAcross*100

Technical data	
Area (m ²)	32,20
Number of cells	20
Weight including container	0,985kg
Weight without container)	0,939kg
Maximum Volume packed (cm ³)	3500
Maximum load weight (kg)	100kg
Middle line	1
Sinkrate with max. weight (m/sec)	5,20m/sec

TEST AND HOMOLOGATE : EP 218 2018 LTF/EN

AIR TOURQUOISE SA CH-1844 VILLENUEVE

The **ALFAcross*100** is a manually deployable rescue system it is for suitable paragliding pilots in an emergency situation and is made by high quality light materials and has a quadratic canopy with one middle line which pull down apex.

Rescue systems from **FLUGGERÄTE GmbH** are characterized by a high level of reliability and maximum material strength. Fastest inflation while maintaining moderate sink rates are features of these systems.

The material is air permeable, strong nylon. There are bands sewn into the main seams to strengthen the canopy. The base and side edges are reinforced with bands. The apex is pulled. The lines are grouped into a strap. This strap generates the connection between rescue system and harness.

The rescue system is sewn to NATO standards which means that all rescue systems are sewn by professionals and delivered only after inspection and approvals.

The specially designed inner container prevents the lines cannot get caught up in the cap and the opening speed is accelerated with this inner container.

When using a different inner container, it is important to ensure that the rescue system can be thrown without problem.

What to do when it happens?

If you find yourself in an uncontrollable situation in the air, pull hard on the deployment handle. This will open the outer reserve container and release the reserve parachute. Then throw the reserve package forcefully away from you. As the suspension lines become tight, the container will fall away and the reserve will open.

If your glider is rotating it pays to throw the reserve against the rotation as this will speed up the inflating process. If you have had a collision and find yourself entangled with someone else's glider tries to make sure you don't throw the canopy into the entanglement, as this will delay the opening.

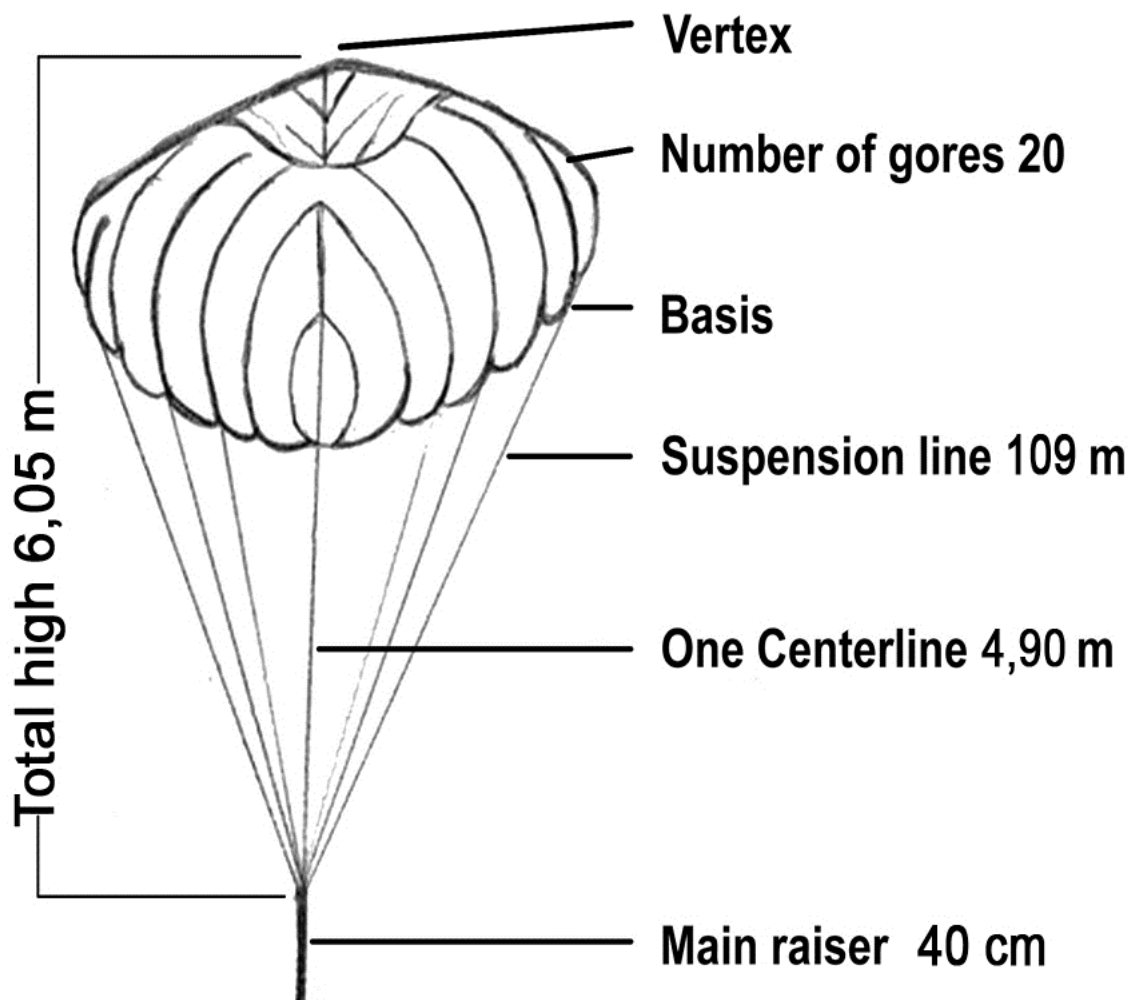
When you are flying recurrently grab the position of the handle so you can find it in an emergency!!

If you have enough height, first try to resolve the problem and stabilize the rescue as far as possible (danger of screwing of the bailout).

If you have not enough height don't hesitate for pulling the rescue.

Do not forget to unhand the rescue handle!

Technical Data / Material List



MATERIAL LIST:

FABRIC	UTT USKY212
LINE	LIROS DC-PRO 505-225
CENTER LINE	AURA R 400
	AURA R 270
MAIN RAISER	LIROS 1505-500-205
WEBBING	GÜTH & WOLF 12,50mm + 9,50mm

PRODUCING:

CONDOR SA BUKAREST ROMANIA

Packing Instructions

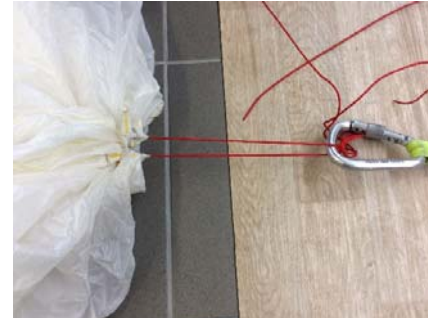
Packing preparations

Before you pack the rescue system it is important that the canopy is spread out on the ground for about six hours.

If possible, it would be even better to air it one night long by hanging it up by the top lines. Before the rescue system gets packed, a release control must be carried out. The release force should be between 50 and 80 N.

Pulling the packing line trough the fixing loops

To help you pack the rescue system, use a short piece of old paraglider line and thread it through all the apex fixing loops. The fixing loops are sewn on the canopy.



Attach the line to a stable fixed point. Sort out the suspension lines.

Take line 1 and the last one (20) stretch the lines so they are running parallel to the main strap and make sure that the middle line is in the middle and the other lines to the side.

**There should not be any tangles or knots in the lines.
All lines must have a straight course and may not have any twists.**

Sorting the panels

Take the lines in your hand as shown on the photo and fold over each panel from the left side on to right side like turning the pages in a book and pull the top of the opening outward.

Start with panel 1, the last one is panel 20.



Now you can see the opening of panel 1.
Fold the opening like a triangle.

Sort the next panels to the left side until you see the opening of panel 16. Fold it like panel 1.

Do the same up to panel 11.



Now fold all panels from the right side to the left. Put the first five panels to the right side until you can see the opening of panel 6. Fold the opening like a triangle.

Afterwards fold the following panels to panel 10 on the right side. When you see panel 11 fold the last of 4 triangles.

Afterwards check both sides.

On each side there must be 10 panels.

Check the lines. You can divide the lines in to three parts on the left, one to the right and the middle line.

All lines must have a straight course and may not have any twists.



Remove the line from the fixing loops!

Folding the canopy into thirds

The left third is folded onto the middle and then the right third is folded under the middle. Do the same on top of the canopy.

Fold the protruded triangles and pay attention to the size of the container!



S-folding canopy to fit into inner container

Fold the canopy in “S” folds from the top right down to the base, so that it fits into the inner container.



Now is the last time to remove the helping line from the fixing loops!

Now put the canopy into the inner container. Close both sides of the inner container with the white rubber band and pull the suspension lines through the rubber band for closing.

Fold the suspension lines using two fingers in “S” bundles and fix with special rubber bands.

These are special rubber bands which you can buy from the manufacturer and you must novate it after each time you repack.

Use the last 50 cm of the suspension lines for the final closing of the inner container.



Place the folded suspension lines into the pocket as shown.

With the rest of the suspension lines you finalize the closing of the inner container by pulling the suspension lines through the black rubber loop. Now the packing is finished.



Make a note of the date of packing in the pack control booklet.

Installing your rescue handle

Most harnesses have a handle for the harness containers. This handle must be connected to the inner container.

The inner container of **ALFAcross*100** rescue systems has two loops, in which the handle of the harness can be attached (center, side).

Handles for front and back containers are generally suspended in the central loop, container on side or under the seat, the side strap used.

Note the instructions for the rescue unit in the operating instructions of your harness.

If there is no handle of the harness or it does not fit with your inner container, please ask the dealer of your harness or your paragliding school.

The handle must be firmly connected to the loop on the inner container (opening strength < 70 N).

Connection the ALFAcross*100 with the harness

When fitting the ALFAcross*100 in the harness/front container, make sure you follow the harness manufacturers instructions. Perform a complete system compatibility test. This test must be undertaken by a suitable qualified person.

PRE FLIGHT CHECK: In addition to the normal pre-flight check(see operating instructions of the harness) the proper closure of the rescue container and the correct location of the deployment handle must be checked before each take off. If the bridle is disconnected after every flight (for example, on a front-mounted container system) the pre-flight check must also include the correct attachment of the bridle.

Parts and items

The elastic bands (gummi) you can get them free from the Fluggeräte G.m.b.H

Compatibility- check

A control of every new combination of rescue system and harness/outer container has to be carried out by either the producer of the harness or the rescue system or an authorized person (dealer or flight instructor). The activation of the rescue system in flight position has to be correct and in conformity to the construction guidelines.

The check has to be recorded in the documentation of the rescue system. The throwing movement should be practiced every time the rescue system is repacked.

IMPORTANT POINTS TO LOOK OUT FOR:

☞ Check (regularly)

- connection of the rescue system to your harness
- connection of the harness and deployment handle

helping line from the fixing loops is removed (after each packing)

☞ Check compatibility of rescue system and harness

☞ Before each start with your paraglider you have to check the container is closed!!

Care, maintenance and repair

Care Instructions

- Please do not store your rescue system in the vicinity of acids, grease, oils or paint. To ensure safe operation, the system needs proper maintenance and care.
- Do not store your rescue system in extreme temperatures or humidity (more than 30°C Or 55-65% humidity).
- A humid or wet canopy needs repacking.
- Exposure to UV-rays causes deterioration of the fabric.
- Please only use clean and fresh water to clean your rescue system or container.
- Wet cloth stored in warm conditions will begin to mould and significantly lose structural strength. Rescue systems in this condition must be brought to the manufacturer to be checked.

It may take several days to dry out the rescue completely especially the lines of the rescue system, which take longer than the fabric.

Do not fold and store your rescue system prematurely if it not completely dry. Mildew may damage your harness and your rescue system.

Repairs

The seal of approval can only be preserved if original parts are used. If you discover any damaged parts to the rescue system which might impede deployment, please end it back to the manufacturer to get repaired.

Repairs can only be carried out by the manufacturer or from the manufacturer authorized persons.

Use limitations, packing- and check intervals

Packing interval

6 to 12 month; the rescue system also must be aired recurrent

Check interval

2 years. if the rescue system was opened after a flight accident, the rescue system must be checked.

Without regular certified inspections, your rescue will lose its pattern test result and guarantee.

Use limitation

Our rescue system **ALFAcross*100** has a life span of **15 Years** by observance of the regulations for packing and checking. Certification is no longer valid thereafter.

The certified life span can be extended by a further three years, if the rescue system is checked by the manufacturer..

Important: Packing and checks of the rescue system must be documented otherwise guarantee is cancelled.

Terms of the guarantee

Fluggeräte GmbH guarantees the proper processing, an operation within the allowable limits of proper operation and the fulfillment of the eligibility criteria of rescue.

What is **not** covered by the rescue guarantee ?

- which have been changed by yourself,
- that were not purchased from an authorized dealer / flight school,
- where the required inspection intervals were not met and the verification of the rescue system was not conducted by a Fluggeräte GmbH authorized operation / person
- which has occurred due to improper treatment (i.e. storage in humidity, heat or direct sunlight)
- caused by solvents, salt water, insects, sun, sand or humidity
- caused by force majeure.

Verification of Checks and Repairs

ALFAcross*100 Serial number: First check by Fluggeräte GmbH / date: Name/ Stamp
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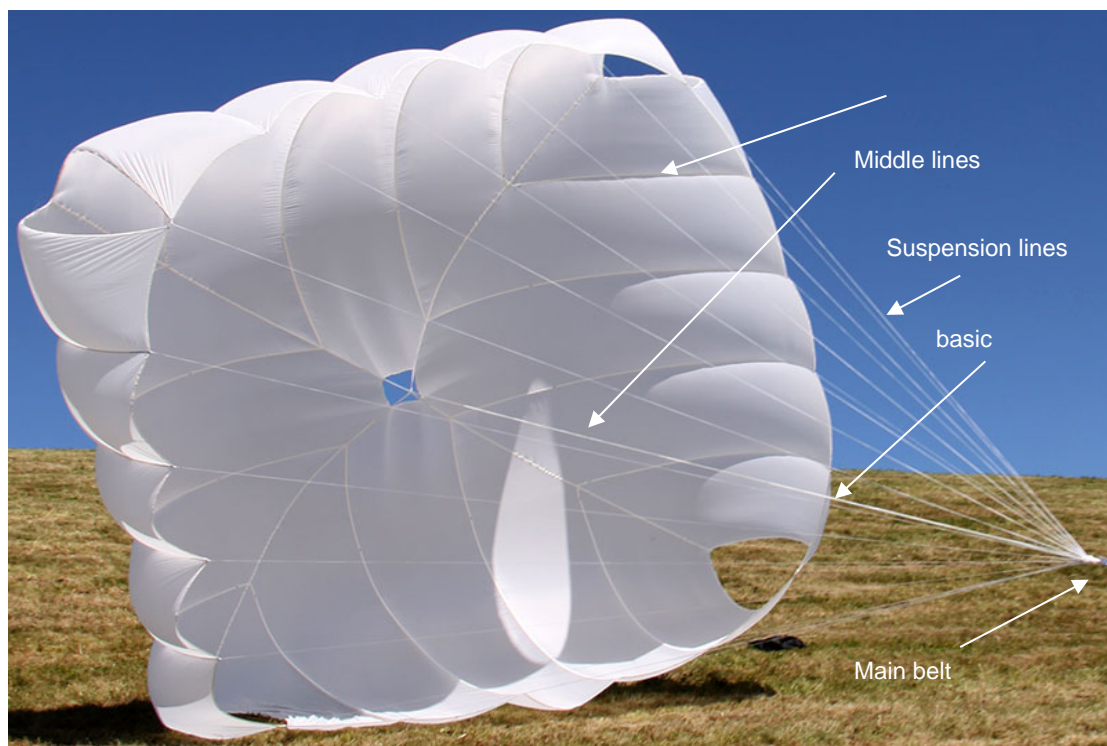
Check (C) Repair (R)	Which repair/ Check? Check valid until?	Performed by/ date

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Check (C) Repair (R)	Which repair/ Check? Check valid until?	Performed by/ date

Check (C) Repair (R)	Which repair/ Check? Check valid until?	Performed by/ date

Description of the rescue system



Maintaince and Pack-Interval Overview

DATE	WORK	USED OPEN	RESULTS	Signation by

**It is compelling advised to check and repack the rescue
ALFAcross*100 every 6 months.
In the case of ignoring this, there might be problems
with opening time of the rescue.**

Name and address of the manufacturer

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