



ADVANCE ALPHA⁶

Getting started

Welcome to ADVANCE

Many thanks for choosing an ADVANCE product. We wish you a lot of fun with it, and many rewarding hours in the air.

This guide gives you a brief look at using your ALPHA 6, but it does not replace the manual, which you can download from www.advanced.ch/alpha.

Register your ALPHA 6 online at www.advanced.ch/warranty, so that you will receive product updates and safety-related advice about the ALPHA6 direct from us.

This information is always available to download from our website on www.advanced.ch/safety.



You as pilot

The ALPHA 6 has an A classification and is suitable for beginners and recreational pilots, and is excellent for schools. This wing demonstrates straightforward takeoff handling, high passive safety and simple landing qualities. In addition strong brake steering demands build little energy. All these characteristics make the ALPHA 6 your safe companion in the skies.

Delivery and initial settings

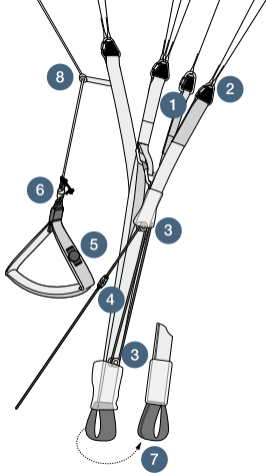
Every ADVANCE paraglider has to be flown by the dealer before delivery to check for correct basic settings. Any personal alteration you make to the paraglider will result in it losing its certification. The brake line lengths should not be altered. They are set at the factory so that, with brakes fully released, the trailing edge remains unbraked in accelerated flight

ALPHA 6 delivery includes:

- Compression strap
- Inner bag
- COMFORTPACK 2 rucksack
- Repair kit
- Mini windsock

The risers

1. Big ears system with 'Quick Snap System'
2. Quicklinks and clips
3. Speed system pulleys
4. Brummel hooks
5. Magnet clips
6. Swivel
7. Suspension loop with 'Easy Connect System' marks
8. Brake ring



Adjusting the speed system

The ALPHA 6 has a speed system which provides a speed increase of 10 km/h above trim speed. The ALPHA 6 speed system is designed so that the wing profile shape remains completely unchanged in accelerated flight. This means that the profile's good qualities are maintained at high speed.

Before your first flight adjust the ALPHA 6 speed system correctly, and check that:

- The speed lines run freely through all their pulleys on the harness.
- The speed lines are connected to the risers by Brummel hooks.
- Your final setting allows the full travel of the speed system to be used.
- You particularly make sure that the speed lines are not so short that the wing would be permanently accelerated in flight.

Easy Connect

The ALPHA 6 has an 'Easy Connect System' on the risers, to simplify connecting. Each riser has coloured sewing running up the back of the C-riser, red for left and blue for right, in the direction of flight. The coloured sewing facing the pilot, and the riser running cleanly upward to the lines confirm that the riser has not been connected with an 180 degree twist. For additional assistance all ADVANCE harnesses will, in future, have the same marking on their suspension loops (red to red, blue to blue).



Easy lift off

To prepare for takeoff arrange the wing in the correct arc shape. Taking off is very straightforward: take the A-risers in the hands – the two each side will be connected by their magnets - and give the ALPHA 6 just a light initial pull. Lead the glider up with the body leaning forward, but without pulling too hard on the A-risers, until the wing is correctly above you. After a look-up check a few quick steps will have you in the air.

Active flying

The ALPHA 6 has a very taut and stable canopy. In normal flying conditions collapses will be almost completely avoided if an active flying style is employed. This means always keeping the glider above the pilot - in other words countering pitch and roll disturbances.

- If the angle of attack increases (e.g. wing goes back when entering a thermal) the brakes should be briefly released completely, until the glider returns to and remains over you.
- If the angle of attack reduces (e.g. wing dives forward) the wing should be briefly and strongly braked. Always make sure that the airspeed does not fall below a safe minimum, and avoid overreacting with the brakes.
- If the paraglider collapses on one side it can be kept flying straight, without problem, by light opposing brake.

Expanded weight range

During ALPHA 6 development the interests of budding acro pilots were considered:

The upper limit of the EN/LTF A classification for all sizes lies 15 kg above the recommended weight range. When the ALPHA 6 is flown at its upper weights the higher wing loading produces a higher trim speed, resulting in a more dynamic and agile flying behaviour. The ALPHA 6 still keeps its EN/LTF A rating at the higher wing loadings, confirming its high level of passive safety.

Wet glider

There's a risk of parachutal stall. Parachutal stall is often the result of a combination of factors. The water adds to the weight of the glider. The additional weight causes a higher angle of attack, putting the glider closer to the stall. Then again, water drops on the wing surface disturb the laminar airflow near the front of the wing, significantly reducing the maximum lift coefficient available.

In order to guard against the risk of parachutal stall with a wet wing the glider

should be braked as little as possible and big ears should not be used under any circumstances.

if the glider was still to go into parachutal stall recovery should be achieved by use of the accelerate system (speedbar) only.

Descent aids

For coming down quickly and efficiently the ADVANCE test team primarily recommend that you use big ears, to get away from a horizontal as well as a vertical problem.

The ALPHA 6 has split A-risers, which make applying big ears easy. The outer, narrower A-risers with a red covered line are separated specially for this. To do this manoeuvre pull both of these narrower, outer risers. This will fold the wingtips in, and you can hold them there easily.

Sink rate can be further increased by using the speedbar when the ears are folded.

To reopen release the risers; the ALPHA 6 wingtips then open themselves thanks to the high internal wing pressure. Depending on the situation the glider can be steered using weight shift.

Another descending aid is the spiral dive. When you are in the spiral keep your weight neutral. The ALPHA 6 comes out of a spiral by itself with a neutral sitting position. At

high sink rates of more than 14 m/s a steep spiral can become stable if weight is applied to the inside of the turn. Outside weight or outside brake are enough to recover from a high sink rate spiral.

More manoeuvres are described in detail in the manual on www.advance.ch



Packing and care

- Lay the ribs nose on nose when packing, so that the plastic rods lie flat on each other and all at the same height.
- Fold the wing to the width of the inner bag and pack it in.
- Lie the inner bag in the back of the rucksack, then put the folded harness on top.
- Kneel gently on the material and wing to compress them, then pull the rucksack flap over them.
- Zip up the rucksack then pull in the side straps.

Bad care shortens your ALPHA 6's life. Do not leave it in the sun more than necessary, do not subject it to large changes of temperature, and only store it in a dry place.

Service and Warranty

The ADVANCE warranty is valid for 3 years to cover defects that are attributable to manufacturing faults. Register your wing after purchase. More details online on www.advance.ch/warranty.

Your ALPHA 6 has to have a check every 24 months – or every 12 months if used a lot. You can find detailed information about the worldwide ADVANCE Service Network on www.advance.ch.

You can find the up-to-date version of the detailed official manual, more advice about safety, and current information including answers to frequently asked questions (FAQs) on www.advance.ch.

Technical Details

ALPHA 6		22	24	26	28	31
Flat surface area	m2	22.1	24	26.1	28.5	31.9
Aspect ratio				4.8		
Recommended take off weight **	kg	50-70	60-80	70-95	85-110	100-130
Increased weight range **	kg	70-85	80-95	95-110	110-125	130-145
Glider weight	kg	4.3	4.55	4.75	5.25	5.75
Trim speed *	km/h			38 +/-1		
Max. speed *	km/h			48 +/-1		
Certification				EN/LTF A		

* Values depend on wing loading, harness/pilot and glider size within the recommended take off weight ranges

** Pilot, wing, equipment

ADVANCE

advance thun ag
uttigenstrasse 87
ch 3600 thun

www.advance.ch
info@advance.ch

fon +41 33 225 70 10
fax +41 33 225 70 11