



ALPHA7

Product presentation

ENTRY LEVEL PARAGLIDER



ALPHA 7

Refined to perfection

The new ALPHA 7 is ready. Its predecessor has been one of the most successful beginner paragliders of all time. As a result, many of you flying instructors hoped for as few alterations as possible; some others have suggested definite ideas for improvements - all in all a demanding starting position for our development team. For this reason the ALPHA 6 consistently remained the benchmark during the exhaustive development process. We set the bar high, and required that the ALPHA 7 show improvement in several areas and should guarantee to score better or at least as well as the ALPHA 6 in all evaluation criteria. It should represent an even better, rounded package, so that the flying instructor spends a stress-free day at the training field, and his/her students have even more fun in the air.

Many of the improvements are not evident at a first look. Optically the ALPHA 7 is very similar to its forerunner, so we've put together the novelties for you in this document, explained in detail.



ALPHA 7

Come fly with me





ADVANCE

Pioneering spirit and Swiss precision.
Our story.

Enable our ideas to fly, that's what we do. Since our beginnings over 30 years ago, ADVANCE have kept the needs, wishes and experiences of our pilots at the forefront. With Swiss precision we refine model after model. The highest quality and absolute reliability are part of the experience, in the air and in our customer service. So from pioneers we have become perfectionists, and a leading worldwide comprehensive service provider.





ALPHA 7

Come fly with me



EASY



SAFE



LONG LASTING



ALPHA 7

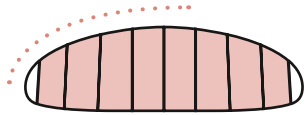
Quick facts

- Lively and fun handling like the ALPHA 6
- More inherently stable in roll
- Canopy is a little softer, giving a more damped feedback
- High turbulence absorption provides a more comfortable feeling in flight
- Even more passive safety due to improved extreme flight characteristics



ALPHA 7

Technical features and comparison with the ALPHA 6



ONE CELL LESS

CELL TOTAL

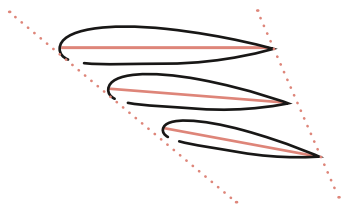
This makes another central support possible, which compensates for inconvenient asymmetric weight shift and so improves rolling characteristics.



CHANGED

CURVATURE

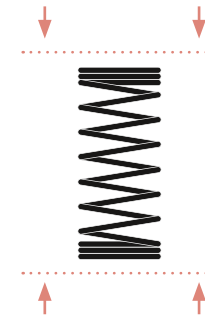
Better roll behaviour, more stable, slightly more performance.



ALTERED

TWIST

The result is more balanced handling with somewhat less brake pressure.



SOFTER

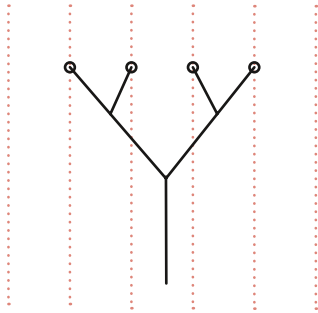
CANOPY TENSION

Damped canopy feedback and improved absorption of turbulence.



ALPHA 7

Technical features and comparison with the ALPHA 6



OPTIMISED C SUPPORT

SUSPENSION

This modification leads to even better extreme flight behaviour and therefore enhanced passive safety.

Unchanged from the ALPHA 6

Aspect ratio	moderate AR of 4.8 for maximal compactness
Profile	established profile
Plan outline	previous wing shape
Brake set up	lively fun handling



ALPHA 7

ADVANCE Brandfaces



IT WILL BE EVEN EASIER
FOR STUDENT PILOTS TO FLY
THROUGH BUMPY AIR
WITH DIRECTIONAL
STABILITY AND CONTROL.

Christian Proschek

Lead Designer R&D Team ADVANCE and Flying instructor



ALPHA 7

Features



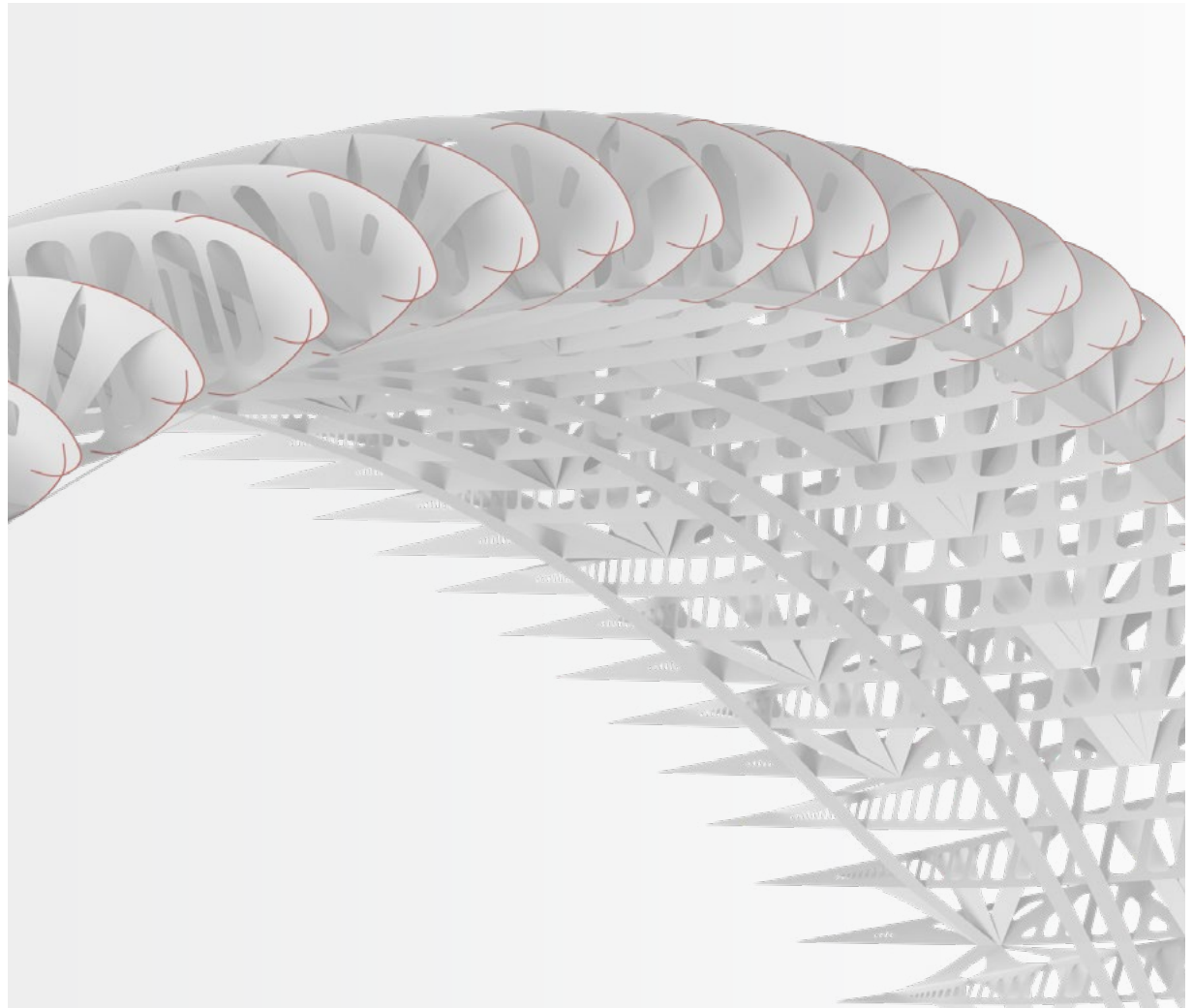


ALPHA 7

Features

UNCOMPROMISINGLY SAFE DUE TO LONG STALL POINT

Well-proven “Air Scoop Technology” at the leading edge combined with typical ADVANCE semi-circular air intakes achieve a significantly lower stall point, with clearly progressive brake loading. Long brake travel raises passive safety, especially for the inexperienced beginner.



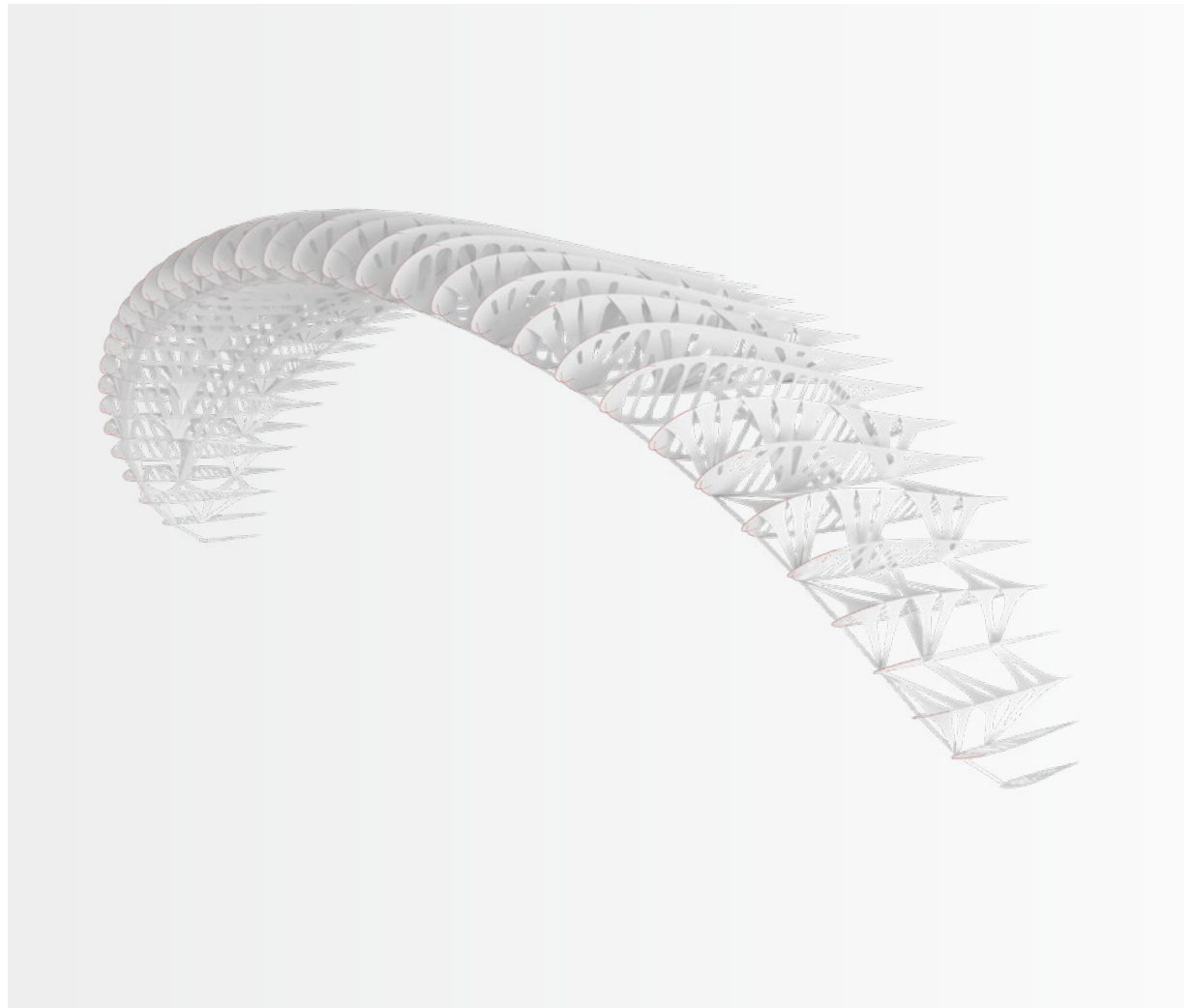


ALPHA 7

Features

ADVANCE QUALITY LIGHTBUILD

The trend towards as light a product as possible has now reached the beginner wing. The ALPHA 7 low weight (4.7 kg for the 26 size) is primarily achieved by a sophisticated interior structure, without sacrifice in quality – the outer surface is made from robust 38 gm fabric. High quality cloth from European manufacturer Porcher is exclusively used in the ALPHA 7.



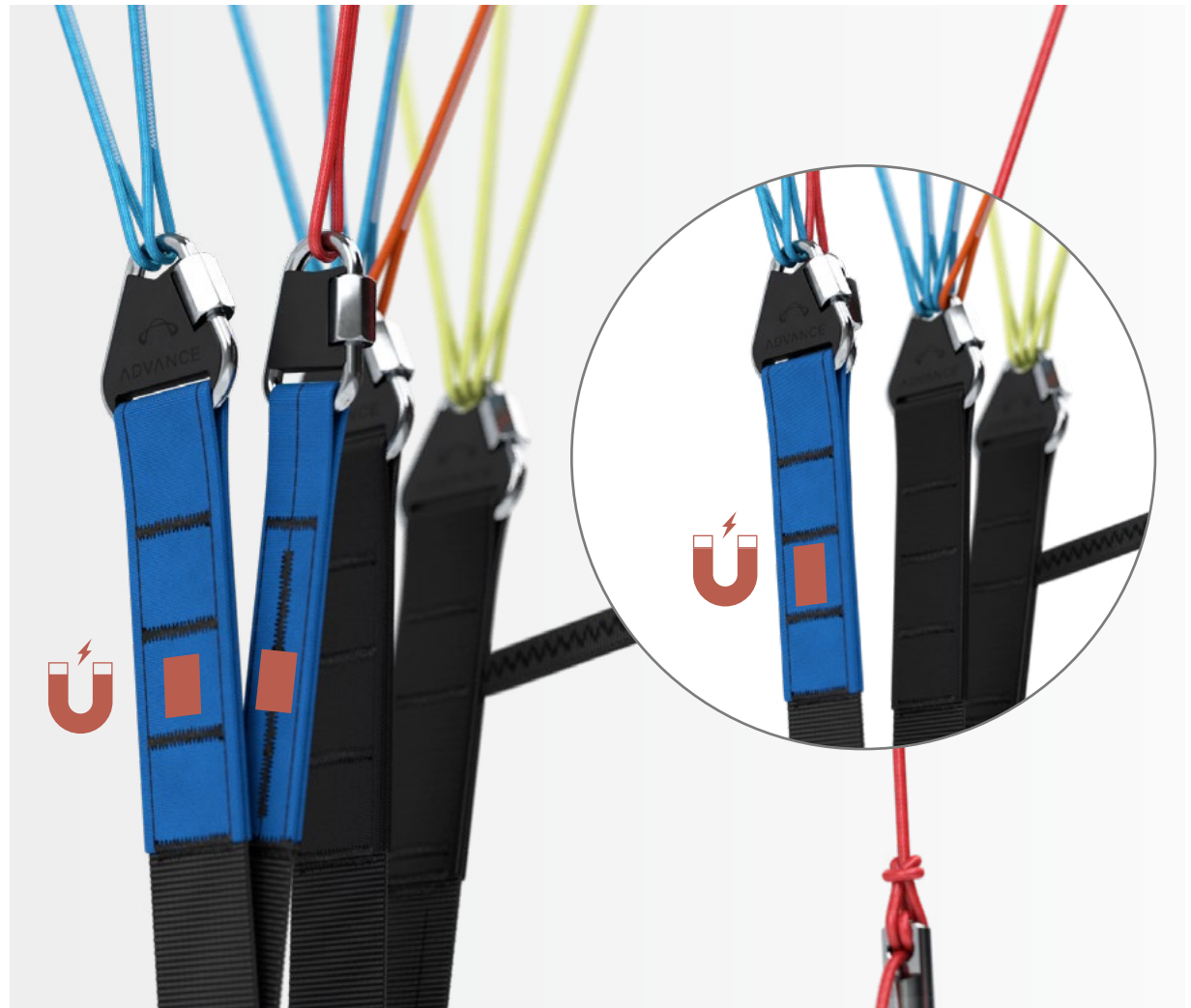


ALPHA 7

Features

RISERS WITH SPLIT A RISERS (QUICK SNAP SYSTEM)

Big ears made ears. A separated, easy to reach A riser make for easy and efficient ALPHA 7 big ears. The ALPHA 7 is easiest to take off using all A lines, and a “Quick-Snap” magnet system connects both A risers each side on the ground. Line sorting is child’s play. After takeoff the risers automatically separate and assume their normal position under flying loads.



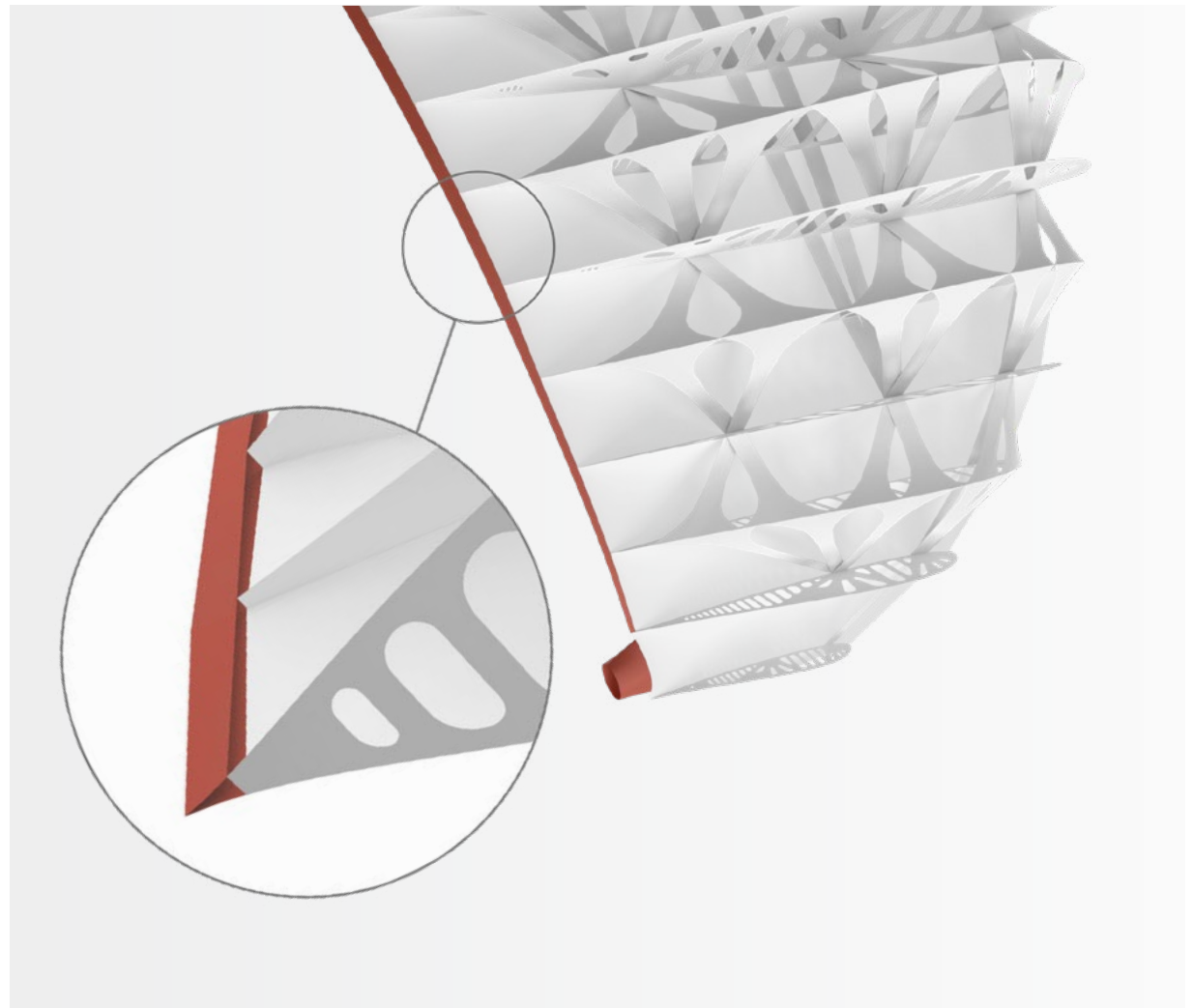


ALPHA 7

Features

AUTOMATIC DUST REMOVER

The ALPHA 7 has a straight-through trans-cellular cleaning channel along the trailing edge. Foreign objects that might have collected there, such as dust, sand and melting snow can be removed as required. Open the Velcro on the stabilos to provide an exit. Dirt and dust can either shaken out on the ground, or self-removed during flight. After removal the Velcro exits are stowed again.





ALPHA 7

Colours



royal



spectra



fire



grey



sangria



ALPHA 7

ADVANCE Brandfaces

THE ALPHA 7 HAS THE SAME
LIVELY HANDLING AS ITS
PREDECESSOR, BUT RETURNS
TO ITS BASIC POSITION EVEN
FASTER AFTER CONTROL
INPUTS.

Michael Maurer
Lead Testpilot R&D Team ADVANCE

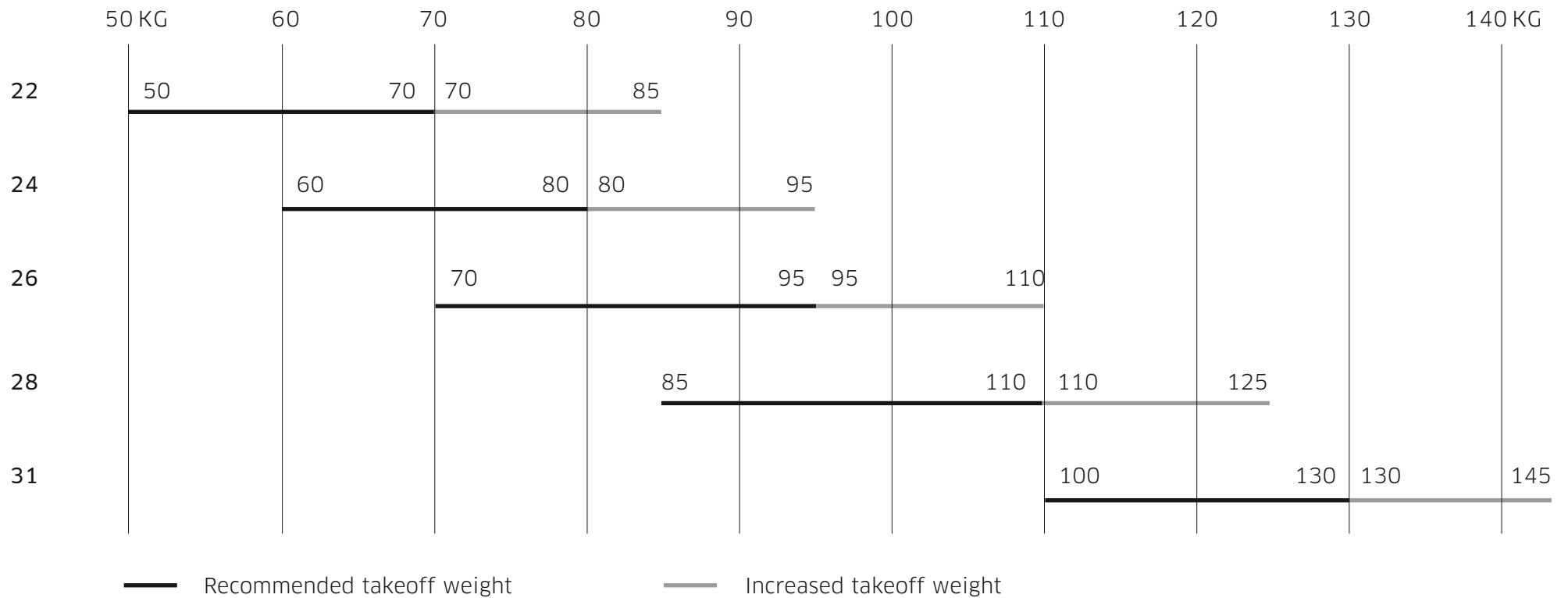




ALPHA 7

Weight ranges

The ALPHA 7 is available in five sizes 22, 24, 26, 28 and 31 and, like its predecessor, each size of the ALPHA 7 has an extended weight range of 15 kg. This increases the range of use in schools. The glider can also be flown in a dynamic range within the LTF/EN A classification, e.g. for acro affine beginners who want to get an early start on basic manoeuvres.





ALPHA 7

Technical data

ALPHA 7		22	24	26	28	31
Flat surface	m²	22,1	24,0	26,1	28,5	31,9
Projected surface	m²	19,2	20,8	22,4	24,4	27,4
Recommended takeoff weight	kg	50 - 70	60 - 80	70 - 95	85 - 110	100 - 130
Increased takeoff weight	kg	70 - 85	80 - 95	95 - 110	110 - 125	130 - 145
Glider weight	kg	4,2	4,5	4,75	5,15	5,7
Span	m	10,4	10,8	11,3	11,8	12,5
Projected span	m	8,4	8,7	9,0	9,4	9,9
Aspect ratio		4,8	4,8	4,8	4,8	4,8
Projected aspect ratio		3,6	3,6	3,6	3,6	3,6
Max. chord	m	2,66	2,77	2,89	3,02	3,19
Number of cells		38	38	38	38	38
Certification Recommended takeoff weight		EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A
Certification increased takeoff weight		EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A
Number of risers		3+1	3+1	3+1	3+1	3+1



ALPHA 7

Materials

Leading edge	Skytex 38 universal, 39 g/m ²
Designstripe	Skytex 38 universal, 39 g/m ²
Profiles	Skytex 40 hard finish, 40 g/m ²
Main lines	A-6843-370, -280, -230, -180, -140
Brake lines	DSL 070, DFL 115
Risers	Polyester 22mm, 1200daN

Upper surface	Skytex 38 universal, 39 g/m ²
Lower surface	Skytex Easyfly, 40 g/m ²
Unsuspended profiles	Skytex 40 hard finish, 40 g/m ²
Galery lines	A-6843-140, DSL 070
Steering lines	A-7850-240
Quick links	MR Delta 3.5mm / S22



ALPHA 7 PARAMOTOR Certification

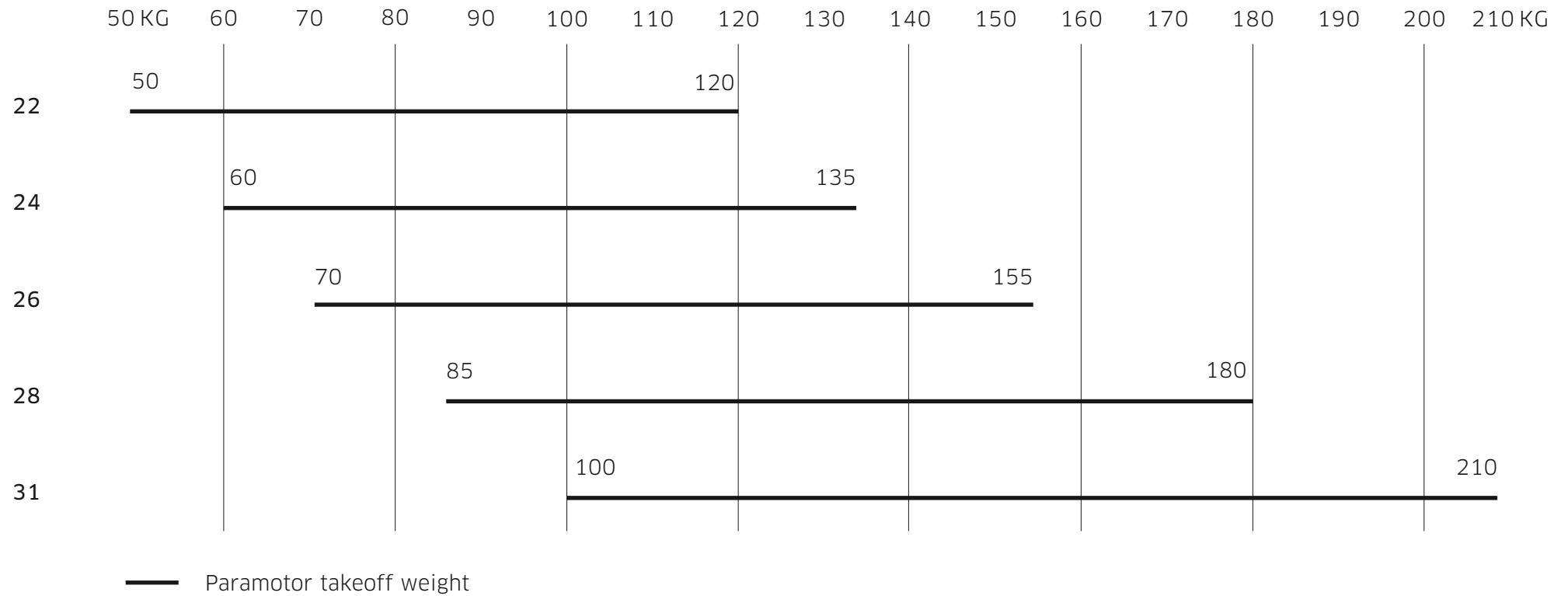
Its exceptional take off character and pronounced damping in all aces make the ALPHA 7 ideally suited to paramotor flying. All 5 sizes have DGAC paramotor certification. Paramotor risers with trimmers are available as an option, and the trimmers can be stowed away in the main carabiners for free flight.





ALPHA 7 PARAMOTOR

Weight ranges





advance.swiss