



# ALPHA SERIES

Product presentation

ENTRY LEVEL PARAGLIDER



# ALPHA SERIES

Come fly with me

The latest generation of our entry-level glider meets the requirements of flying schools and customers better than ever. The eighth generation of the ALPHA is now available in two versions: the robust Classic version for flying schools and a light and compact DLS version for weight-conscious beginners and occasional pilots.

The proven ALPHA concept is highly trusted by our dealers worldwide, which is why we have retained the basic concept. However, the product has been fundamentally revised. The latest developments have enabled us to make significant progress in key features for beginners. This strengthens the ALPHA's position as the benchmark among entry-level gliders. In this presentation you will find an overview of the ALPHA's unique selling propositions.



# ADVANCE

Pioneering spirit and Swiss precision  
Our story

Enable our ideas to fly, that's what we do. For more than 30 years, ADVANCE have kept the needs and wishes of our pilots at the forefront. With Swiss precision we refine model after model. Highest quality and absolute reliability have our top priority, in the air and in our customer service. So from pioneers we have become perfectionists, and a leading worldwide comprehensive service provider.



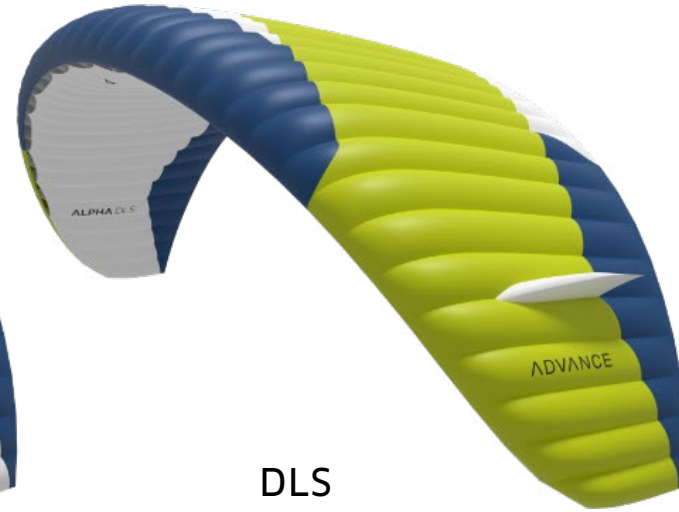


# ALPHA SERIES

Come fly with me



CLASSIC



DLS



EASY



SAFE



RELIABLE





# ALPHA SERIES

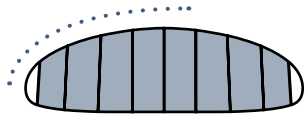
## Quick facts

- **New lightweight version in DLS quality from 3.6 kg**, up to 800 g lighter than the Classic version
- **New generation of entry level gliders with increased performance**, the DLS version has even more glide performance
- **Lower stall point** and therefore even longer brake travel **for more passive safety**
- **Increased roll stability**, especially in the upper weight range
- **New sizing**, the smaller sizes are up to 0.5 m<sup>2</sup> smaller
- **New brake handle** with side markings and 40% stronger magnets



# ALPHA SERIES

## Technical features and comparison with the ALPHA 7



### OPTIMISED

#### PLANFORM

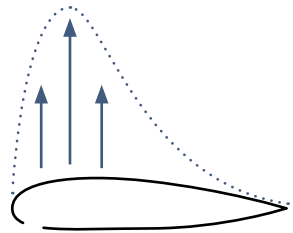
More wing depth on the outer wing leads to a lower stall point and longer brake travel.



### NEW

#### 3D SHAPING

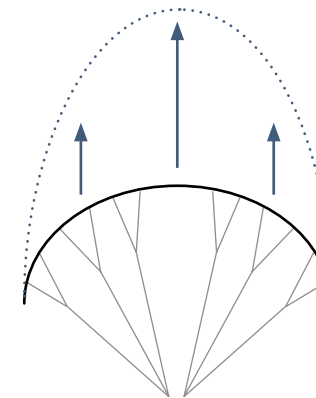
The design of the leading edge has been completely renewed, resulting in even fewer creases and therefore more performance.



### NEW

#### PROFILE

A new-generation profile gives a better longitudinal pressure distribution for optimal pitch behaviour and improved performance.



### CENTRED

#### LIFT DISTRIBUTION

The wing tips now generate less lift, and therefore transfer fewer lateral disturbances to the pilot. This provides a smoother, more pleasant flight behaviour.

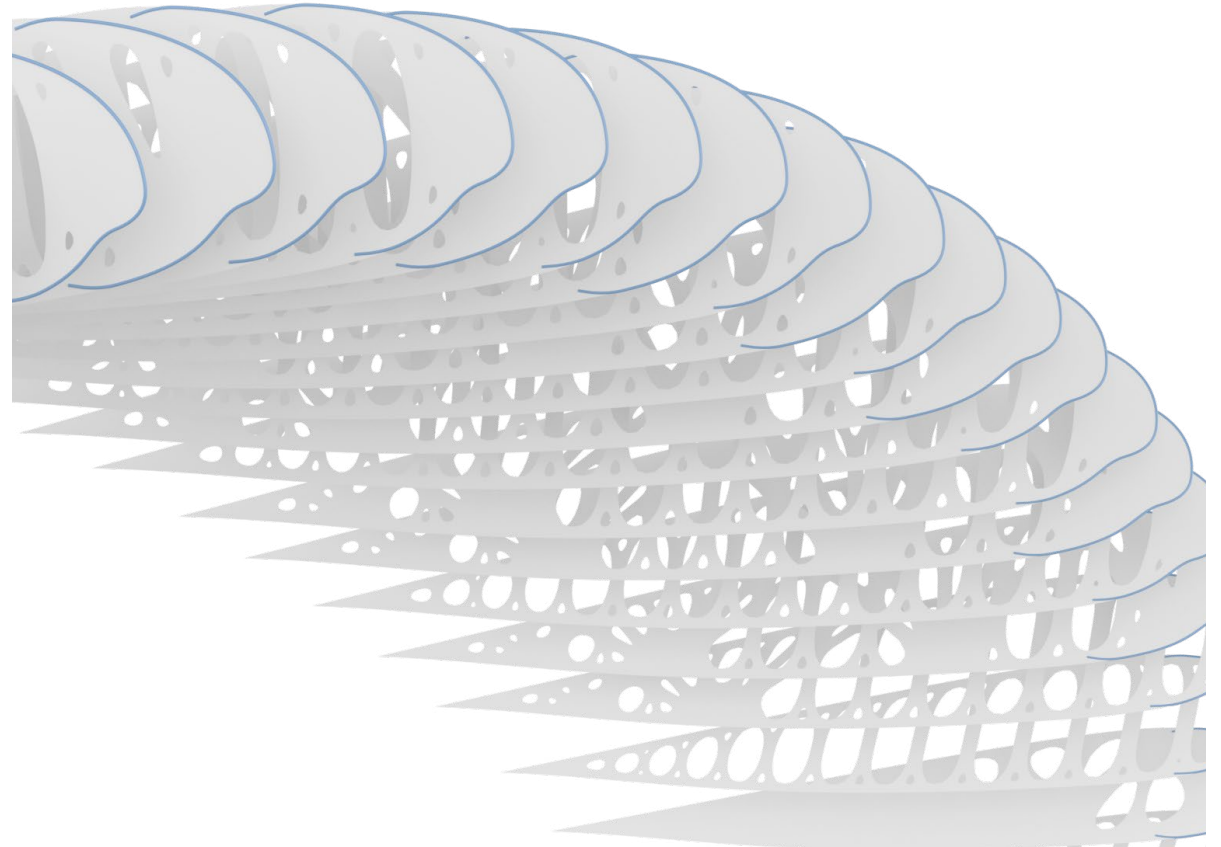


# ALPHA SERIES

## Features

### UNCOMPROMISINGLY SAFE DUE TO LOW STALL POINT

The well-proven “Air Scoop Technology” at the leading edge, combined with the new planform, achieve a significantly lower stall point, with clearly progressive brake loading. Long brake travel raises passive safety, especially for inexperienced beginners.





# DLS

## DURABLE LIGHTWEIGHT STRUCTURE

DLS COMBINES STRUCTURAL INVENTIVENESS WITH A UNIQUE COMBINATION OF FABRICS. THIS FORWARD-LOOKING DEVELOPMENT PHILOSOPHY INCLUDES A WHOLE HOST OF SMALL BUT EFFECTIVE DECISIONS, WHICH TOGETHER RESULT IN SIGNIFICANT WEIGHT REDUCTION. ROBUSTNESS AND DURABILITY REMAIN AT THE USUAL HIGH LEVEL.

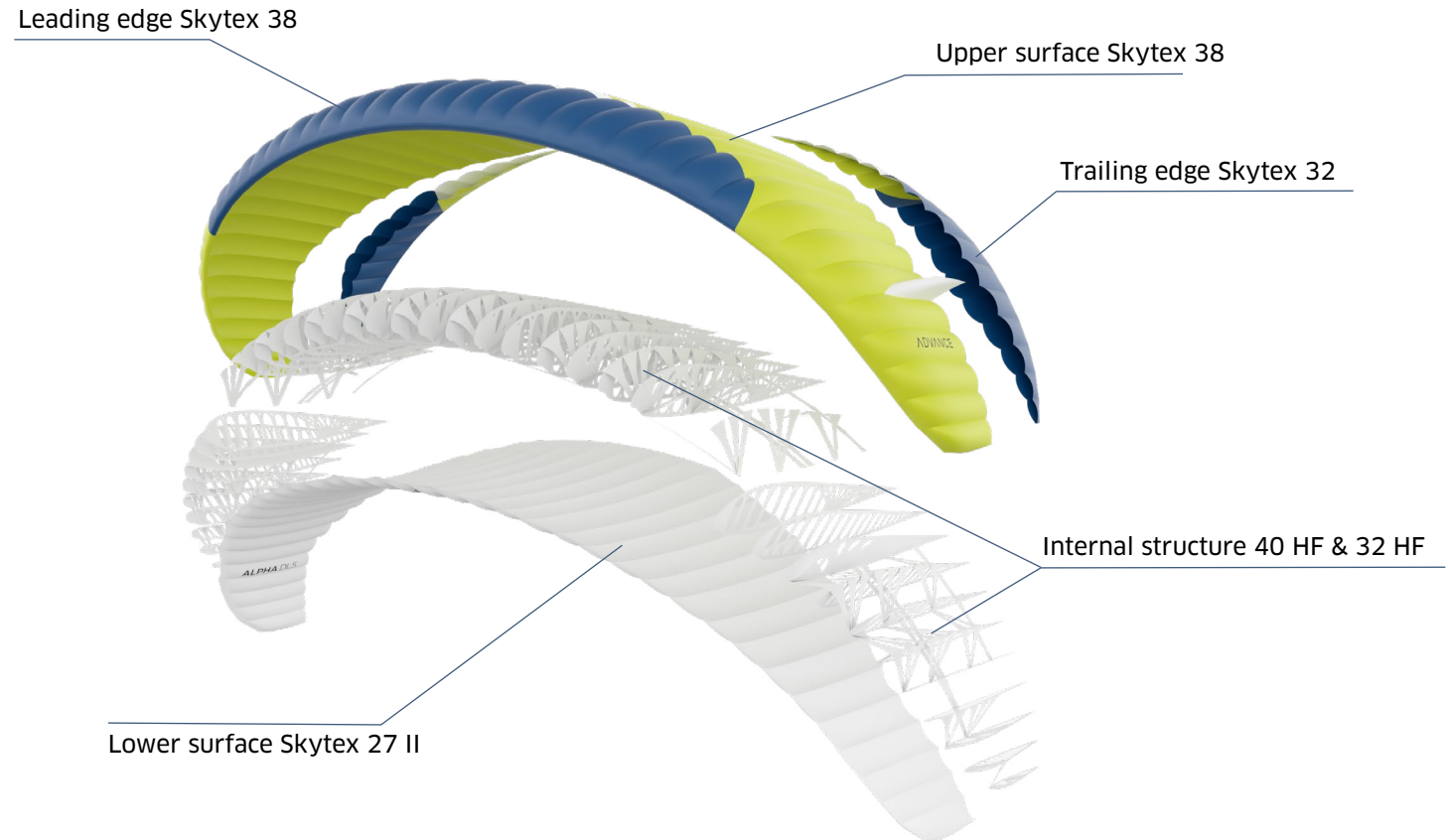


# ALPHA DLS

## DLS Philosophy

### A SMART MIXTURE OF FABRICS

Highly stressed components such as the leading edge, wing upper surface and more stressed profiles are made of a robust, low-stretch material mix. A relatively lighter material is used for less stressed areas, such as the wing's lower surface.





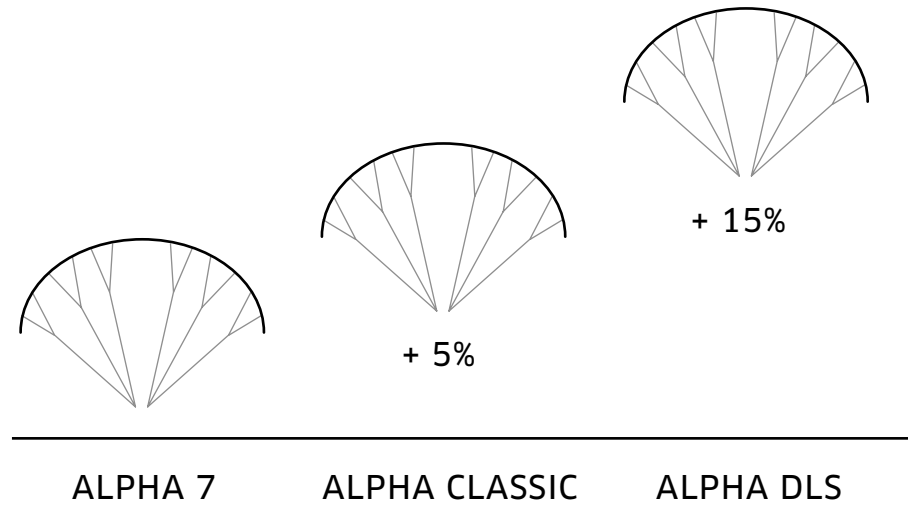


# ALPHA SERIES

## Features

### INCREASED GLIDE PERFORMANCE

The ALPHA belongs to a new generation of entry-level gliders with an increased performance level. The better glide performance has been achieved primarily due to the new profile and drag reduction.



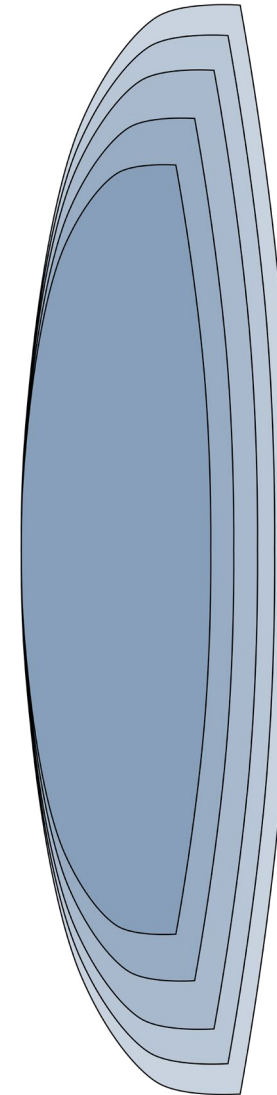


# ALPHA SERIES

## Features

### NEW SIZING

The various wing sizes of the ALPHA have been revised. The size 22 is half a square metre smaller, which means that even lighter pilots are in the ideal weight range from a take-off weight of 58 kg. The weight ranges are now consistently defined as seamless weight ranges, whereby the extended weight range of up to 15 kg is retained. This increases the range of use in flying schools. The wing can also be flown in a dynamic range within the LTF/EN A classification, e.g. for freestyle beginners.







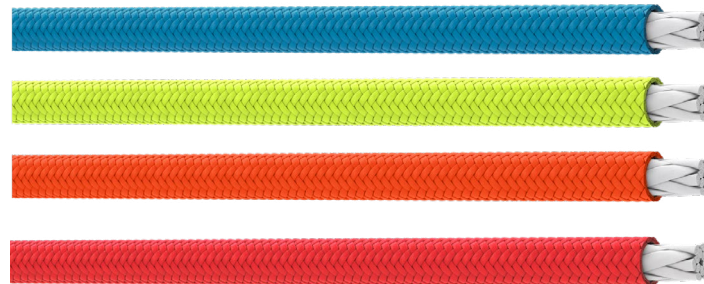
# ALPHA SERIES

## Features

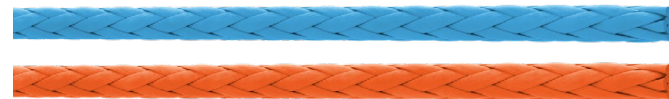
### MODERN LINE MIX

The two ALPHA versions have a differentiated line mix. The Classic version uses a new version of the Edelrid Aramid line series 7343. This line has the same core as the 6843 used by the ALPHA 7, but has a thinner sheath. The gallery of the DLS version is equipped with the unsheathed Edelrid Pro Dry 8001 series, which is extremely tear-resistant and water-repellent.

Edelrid 7343 Series (Classic & DLS)



Edelrid 8001 Pro Dry Series (DLS)







# ALPHA

## Developer's note



"THE NEW ALPHA SHOWS A GREAT STALL RESISTANCE WHILE MAKING LOW SPEED TURNS OR WHEN LANDING. THIS UNRIVALLED LEVEL OF PASSIVE SAFETY MIXED WITH A DIRECTER HANDLING WILL DELIGHT FLIGHT STUDENTS AND INSTRUCTORS."

IDRIS BIRCH

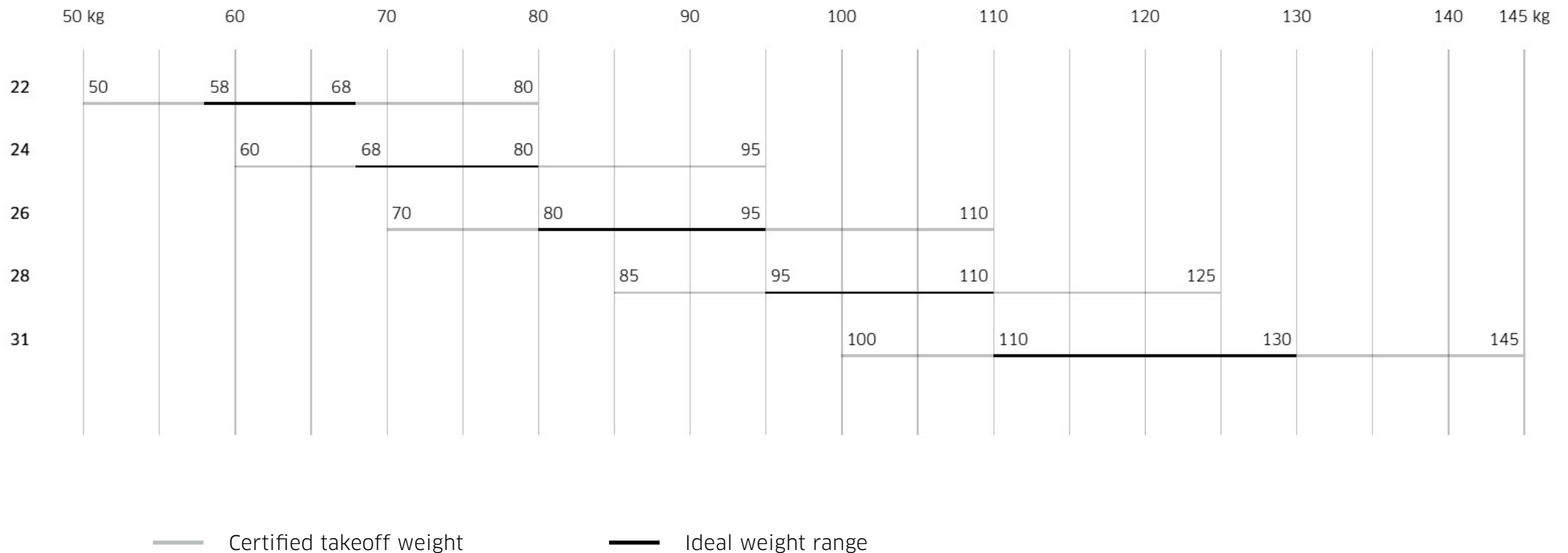
Test pilot ADVANCE R&D Team



# ALPHA SERIES

## Seamless Weight Ranges

The Seamless Weight Ranges of the ALPHA make a clear transition from one wing size to the next, so that any pilot suits only one ideal take-off weight range. In this way, the ALPHA guarantees the optimum balance of useful airspeed and climb performance in all flying conditions. Like its predecessor, the ALPHA Series also has an extended weight range of up to 15 kg in each size.





# ALPHA SERIES

## Scope of delivery

### Classic



COMFORTPACK



COMPRESSBAG



REPAIR KIT



MINI WINDSOCK

### DLS



COMPRESSBAG DLS

### Accessories



LIGHTPACK DLS



FLATBAG DLS



TUBEBAG



# ALPHA SERIES

## Colours

### Classic



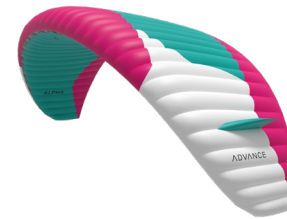
Lime



Fire



Petrol

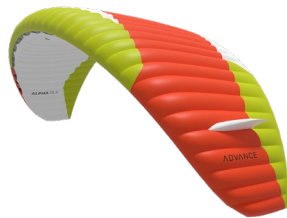


Spectra

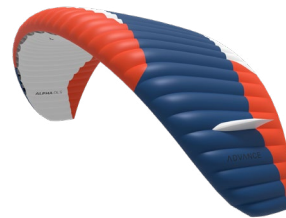
### DLS



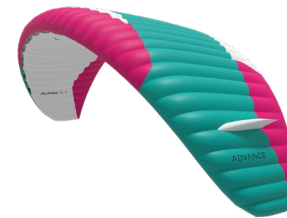
Lime



Fire



Petrol



Spectra



# ALPHA SERIES

## Technical data

		22	24	26	28	31
Flat surface	m <sup>2</sup>	21.57	23.66	25.86	28.36	31.85
Projected surface	m <sup>2</sup>	18.63	20.44	22.13	24.26	27.25
Certified takeoff weight	kg	50-80	60-95	70-110	85-125	100-145
Ideal weight range	kg	58-68	68-80	80-95	95-110	110-130
Weight Classic	kg	4.25	4.55	4.85	5.25	5.75
Weight DLS	kg	3.60	3.85	4.15	4.50	4.95
Flat span	m	10.26	10.75	11.23	11.76	12.47
Projected span	m	8.25	8.64	8.93	9.35	9.91
Aspect ratio		4.8	4.8	4.8	4.8	4.8
Projected aspect ratio		3.7	3.7	3.7	3.7	3.7
Max. chord	m	2.59	2.71	2.83	2.97	3.14
Number of cells		38	38	38	38	38
Certification		EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A



# ALPHA CLASSIC

## Materials

Leading edge	Skytex 38 universal
Upper surface	Skytex 38 universal
Lower surface	Skytex 40 Easyfly
Trailing edge	Skytex 38 universal Skytex 40 Easyfly
Profiles	Skytex 40 hard finish
Unsuspected profiles	Skytex 40 hard finish
Diagonals	Skytex 40 hard finish

Main lines	A-7343-340, -280, -230, -190, -140
Galery lines	A-7343-140, DSL 070
Brake lines	DSL 070, DFL 115
Steering lines	A-7850-240
Risers	Polyester 22mm
Quick links	MR Delta 3.5mm / S22



# ALPHA DLS

## Materials

Leading edge	Skytex 38 universal
Upper surface	Skytex 38 universal
Lower surface	Skytex 27 classic II
Trailing edge	Skytex 32 universal
Profiles	Skytex 40 hard finish Skytex 32 hard finish
Unsuspected profiles	Skytex 40 hard finish Skytex 32 hard finish
Diagonals	Skytex 40 hard finish Skytex 32 hard finish

Main lines	A-7343-340, -280, -230, -190, -140
Galery lines	A-8001-190, -130, -090, -070, -050
Brake lines	DSL 070, DFL 115
Steering lines	A-7850-240
Risers	PES/Technora 12mm
Quick links	MR Delta 3.5mm / S12



# ALPHA PARAMOTOR

## Certification

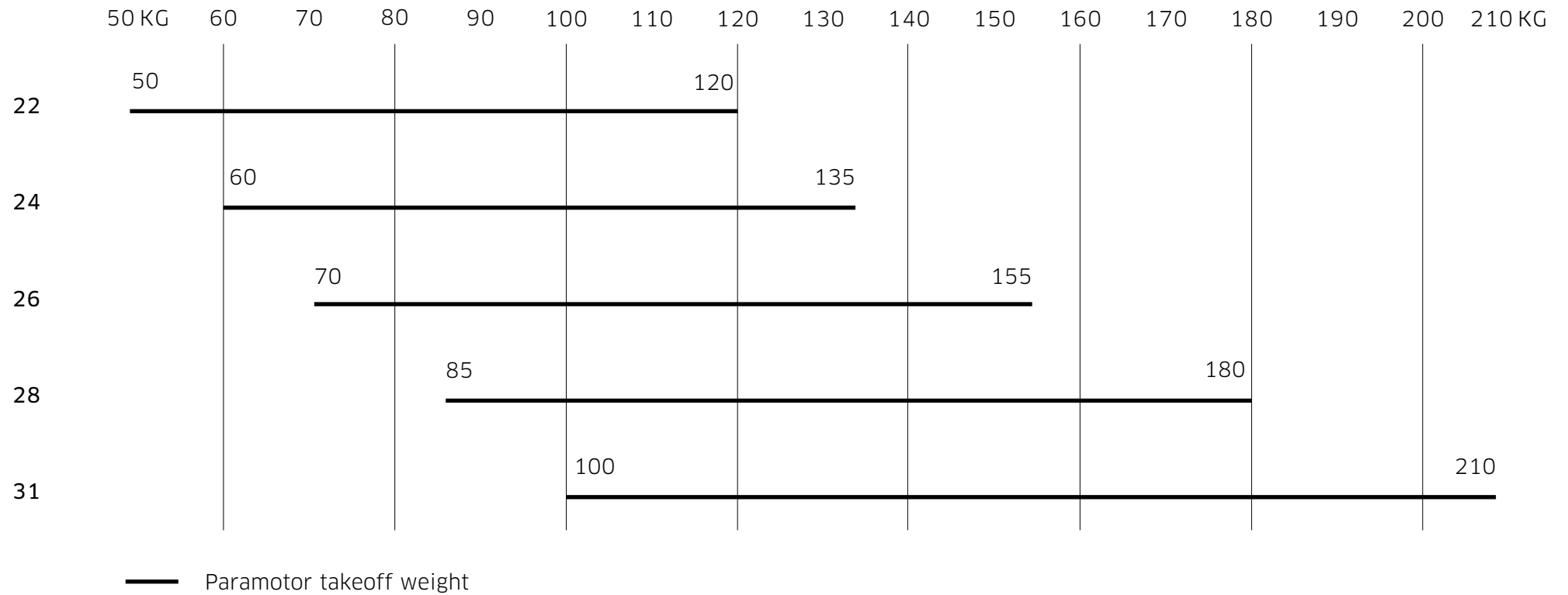
Its exceptional take off character and pronounced damping in all aces make the ALPHA ideally suited to paramotor flying. All 5 sizes have DGAC paramotor certification. Paramotor risers with trimmers are available as an option, and the trimmers can be stowed away in the main carabiners for free flight.





# ALPHA PARAMOTOR

## Weight ranges





advance.swiss