

## NOVA BANTAM X – LAUNCH ANYWHERE

# Minimum line length for maximum flexibility

There are various concepts of Hike & Fly paragliders: single skins are uncompromisingly weight-reduced, and lightweight XC wings are optimized for performance. However, none of these concepts have consistently prioritised launch characteristics. That's why NOVA developed the BANTAM X. With its extremely short lines, the BANTAM X opens up new launch possibilities - every peak becomes a take off!

**Radical design approach:** Both BANTAM 1 and BANTAM 2 are known for their short lines. For both, the distance from the main suspension to the canopy is only 4.3 metres (in size 12). In developing the BANTAM X, further reducing the line length was a top priority. Through many simulation series, we managed to reduce the lines to an impressive 3.2 metres and an 11 m<sup>2</sup> projected area - with only minor compromises in glide performance.

**Why such short lines?** In alpine terrain, the challenge is often to find enough space to lay out and inflate the wing. The shorter the lines, the less space is required and the lower the risk of lines snagging on rocky ground. When laying out the BANTAM X for launch, the pilot stands just over a meter from the trailing edge with taut lines. Except for the brake lines, hardly any line touches the ground. "Throw & Go"-take offs are easier than with any other wing, making it a logical and effective launch method in some wind. The BANTAM X excels in any launch situation and significantly expands the range of possible take offs.



### NOVA BANTAM X - Facts

- A miniwing three-liner with 33 cells in ultra-lightweight design
- Size: 11
- Certification: -
- Load test: 90 kg
- Aspect ratio: 4.5 flat, 3.2 projected
- Area projected: 11.0 m<sup>2</sup>
- Area flat: 13.1 m<sup>2</sup>
- Distance pilot - canopy: 3.2 m
- Canopy weight: 1.5 kg
- NOVA 3D-Shaping: for even fewer creases on the leading edge
- Upper surface vector tape: nicer handling
- Mini-Ribs for more performance
- NOVA Air Scoop: optimised air intake that increases the internal pressure
- Risers: Light-Riser, 7 mm wide, Kevlar reinforced
- Nitinol rods for better profile shape in accelerated flight and easier packing
- Mid Cell Links: improved leading edge profile shape
- Fabrics: upper and undersurface Dominico 10D (26 g/m<sup>2</sup>), profile ribs Porcher Skytex 27 hard (27g/m<sup>2</sup>)
- Sheathed lines (except the gallery lines)
- Holding pins for take off on very steep and slippery terrain (snow, grass) and Mini-Staffsack included

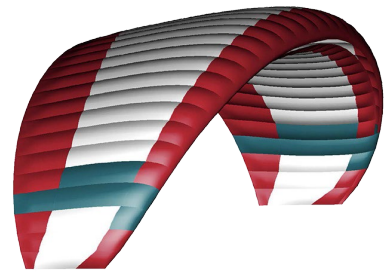
How does the BANTAM X fly? In flight, the stability is noticeable. Especially the roll stability is exceptionally high, allowing the BANTAM X to glide smoothly and steadily through turbulent air. The response to brake inputs is much more dampened than with the BANTAM 2 (and BANTAM 1). So, if effortless barrel rolls are more important to you than exposed launch sites, we recommend the BANTAM 2. During landing, the BANTAM X is easy to handle and stands out with an excellent flare. The stabilo gets so close to the ground during landing that the BANTAM X even benefits slightly from the ground effect. The glide performance is on par with the BANTAM 1, allowing for long glides, with high speed enabling efficient gliding even in headwinds.

**Why doesn't the BANTAM X have a certification?** A wing with an 11 m<sup>2</sup> projected area is generally on the edge of what can be certified as EN-D. Often, certification is only possible with adapted (e.g., very slow) trim. The extremely short lines of the BANTAM X would have been an additional handicap, especially during the exit from a full stall, which is why we decided against the certification process.

**What requirements does the BANTAM X place on the pilot?** Despite its high damping, the BANTAM X requires a high level of piloting skill given its small area (11 m<sup>2</sup> projected). Essentially, we classify the requirements as similar to those of the BANTAM 2 with the same respective wing loading.

**Quote from NOVA team pilot Aaron Durogati:** 'The BANTAM X is unlike any wing I have flown before. It is very track-stable in flight and I have the feeling that I have more wing area above me than is actually the case. Of course, the super-short lines make it very easy to launch in any terrain. And this simplicity continues through to landing, where the wing flares incredibly well for its small size, which is a safety plus in less than ideal conditions. Last but not least: Stabi-touches are child's play thanks to the short lines.'

**Optionally available** (not included in the scope of delivery): **The Concertina Bag Mini** is an exceptionally lightweight bag for small mountain wings with an extremely small pack volume. Weighing only 110 grams, the Concertina Bag Mini is the perfect addition to your ultra-lightweight gear.



The Concertina Bag Mini is 205 cm long and 30 cm wide. The BANTAM 2 and BANTAM X can be perfectly stored in it. The pack size is significantly smaller than that of a regular pack bag. Since the BANTAM 2 and X have nitinol rods in the leading edge, it is worth packing the wing cell to cell to extend its lifespan.

The BANTAM X is now available in a limited quantity in the colour Red, and the Concertina Bag Mini is also available from now.

The links to the products are:

[www.nova.eu/bantam-x](http://www.nova.eu/bantam-x)

[www.nova.eu/en/accessories/concertina-bag-mini/](http://www.nova.eu/en/accessories/concertina-bag-mini/)

Product and image photos can be downloaded at [www.nova.eu/de/dealer/support/](http://www.nova.eu/de/dealer/support/).

**NOVA** was founded in 1989 and since then has been an innovative and well-respected paraglider manufacturer with a focus on the highest quality, safety and the excitement of flying. NOVA develops and manufactures paragliders and accessories for beginners, advanced and ambitious pilots - with a focus on cross-country flying and hike & fly. The company is employee owned and has a very healthy equity base. The headquarters are in Terfens (Tyrol), while production takes place in Vietnam in a manufacturing facility complying the highest social and environmental standards. NOVA has a worldwide distribution network and is one of the market leaders in paragliding.