BIBETA 6 – More fun at work

Flying ought to be fun. For the professional tandem pilot, making maybe ten flights a day where efficiency, economy and passenger safety share priority, this can often be hard work. We took account of these strenuous demands when creating the BIBETA 6, and have packed the best features of current tandems into this one product, without compromise, so as to make a working wing that is also fun. The following pages describe how we did it.
We engaged a number of current commercial tandem pilots to work closely with us in the design and development of a BIBETA, for the first time. Together with several professional tandem businesses from the tandem Mecca of Interlaken, we identified some present day tandem models as setting the benchmark for each of takeoff, handling and landing characteristics. In a long test programme the BIBETA 6 prototypes were then extensively tried out in commercial use, and continually refined by our development team until each and every desired criterion had been exceeded. At the end the professionals had only one question: when can we get the serial version?

BIBETA 6: more fun at work.

The BIBETA 6 inflates very well, comes up well, doesn’t overshoot and, above all, lifts off early.

Dominik Wicki, Interlaken
Extreme sportsman & professional tandem pilot
600 tandem flights/year
8,000 total

Fun at work is important. With the BIBETA 6 I have it!

Stefan Wyss, Interlaken
World Cup Superfinal winner 2015 & professional tandem pilot
500 tandem flights/year
5,000 total
The BIBETA 6 is a completely new design and now comes in two sizes - 38 (100 to 180 kg) and 41 (120 to 225 kg). Line sorting is a breeze. A brief shake has the few lines from the three riser levels separating and sorting themselves out quickly. At takeoff the canopy rises smoothly without overshooting, and passenger and pilot are quickly airborne. In flight the BIBETA 6 responds directly and precisely to the smallest steering input. Comfortable brake loading and perfect flare behaviour make landing a reassuring delight. Reinforced diagonals, crossed rods in the intakes, oversized lines and reinforced support points all contribute to this professional tandem’s especially long life. Considering its robust build, the BIBETA 6 packs up impressively small, and the light weight is sensational – 6.95 kg for the 41.

"All in all it’s my opinion that the design of the BIBETA 6 represents a new generation of tandems for both hobby and commercial use.
Dino Scheidegger, Interlaken
Cross country crack & professional tandem pilot
400 tandem flights/year
6,000–7,000 total"

"The BIBETA 6 is impressive because of its precise and comfortably-loaded handling – even in turbulent conditions in turbulence – and definitely makes light work of centering a thermal.
Marcel Schmid, Luzern
Tandem cross country champion & professional tandem pilot
300 tandem flights/year
4,000 total"
BIBETA 6 compared to BIBETA 5

- 16% less line metres
- 15% less packed volume
- 3-way 3D-panel shaping
- 1.2 kg lighter
- 2 sizes
- New brake handle magnets
- 3 riser-levels
- High quality Aramid-lines
As well as at light weight the BIBETA 6 is also very manoeuvrable at the top of its weight range, and, with careful braking, can be circled very flat just as well in a thermal.

Dino Scheidegger, Interlaken Streckenflugcrrack & professioneller Tandempilot
400 Tandemflüge/Jahr
6,000-7,000 total
Reduced line set up

Only 3 risers and 16% less line: the BIBETA 6 scores when it comes to takeoff preparation due to a completely revised line plan. Substantial line simplification and clearly arranged risers make sorting simple and fast. On takeoff the canopy rises easily but doesn’t overshoot. Passenger and pilot are quickly in the air. Naturally, the reduced line set up also has a positive effect on BIBETA 6 performance and weight.
100 percent High Quality Aramid Lines

Yes, you read it right! The BIBETA 6 has 100 percent low stretch, uncovered Aramid lines from German high quality maker Edelrid. There are no Dyneema lines fitted. And no! We didn’t do this to improve performance because the old lines were too thick. In fact the new lines are no thinner than those of the BIBETA 5.

We took this step after many years experience with Aramid lines. Thousands of line snapping checks have shown that the Edelrid High Quality Aramid lines age substantially better than conventional covered lines and thus have a longer life. There is no cover to trap invisible dust and grit between cover and core, abrading and weakening the core material, and the line. Of course all uncovered lines are not equal. Important manufacturing details contribute significantly to this impressive longevity. We present them on the following pages.

Low stretch Aramid lines vs. Dyneema
The BIBETA 6 only has low stretch Aramid lines. Dyneema is not used. As well as the wing’s long life, the BIBETA 6 stays in trim.
Why is the BIBETA 6 so robust

Comprehensive yarn coating
The individual strands of the Edelrid Aramid lines have been specially coated before the weaving process. This means that every single fibre is individually protected and the line, as a whole, remains more resistant to abrasion, water and UV radiation.

Same diameter, covered or uncovered
The Edelrid Aramid Lines on the BIBETA 6 are high gauge examples – with the same overall diameter as the BIBETA 5’s, which included the cover. The working part of the BIBETA 6 uncovered line is therefore thicker and tougher.
Interior and exterior loop reinforcement
Each BIBETA line loop has internal reinforcement. To do this a short length of similar line is spliced inside the loop, here thickening the line – doubling its diameter. This increases the contact area of a loop in loop connection, and avoids one loop cutting into the other. Loops at a quicklink are additionally strengthened by an exterior sleeve (blue colour, top).

Coloured identification
The BIBETA 6 A- and brake lines have different colours to simplify line sorting for takeoff preparation. The quicklink loops have different coloured sleeves. Big ears, stabilo and higher duty brake lines also have a section with coloured cover.

How we prepare them in practice
The exceptional performance of this wing allows me to dream of new XC adventures with my passenger.

Marcel Schmid, Luzern
Tandem cross country champion
& professional tandem pilot
300 tandems/year
4,000 total
3 Riser levels

Easy to see, easy to handle

The BIBETA 6 has only 3 riser levels. The risers are clearly recognisable, and preparation for take off is easier: a simple shaking and the lines separate themselves – sorting is almost done. Three risers and fewer lines also contribute to BIBETA 6 weight reduction.
Big ears with Vary-Grip-System

Small detail with large effect
The BIBETA 6 has split A-risers for easy big ears. The big ear outer A-line can be held in a jam cleat on the rear riser. Big ears can be maintained for as long as you like without pilot input, saving the pilot’s biceps. The wing can also be steered normally by the brakes, with big ears applied; another bonus – or your hands can be free for more photographing.
Practical help for everyday tandem work

These make you a better photographer: the new plastic mouldings for the magnets hold the brakes in the right place on the riser if you clip them up in flight; perhaps for filming or photographing. They remain ready for the professional to grab immediately – if need be.
Colours & Delivery

Included
Inner bag

Optional
Comfortpack 2: 130 ltrs. or 145 ltrs.
4 types of tandem spreaders (hard, soft, soft trim, soft trim/quick out)

White
Red
## Technical Data

<table>
<thead>
<tr>
<th><strong>BIBETA 6</strong></th>
<th><strong>38</strong></th>
<th><strong>41</strong></th>
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<tr>
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<td>Other adjustable/removable devices</td>
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<td>Vary-Grip</td>
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Materials

Fabric
Upper surface
Skytex 38, 9017 E25

Lower surface
Domenico Docdo-20DMF

Lines: Edelrid/Liros
Main lines
A800U-360/230: unsheathed 1.7 mm/1.4 mm
6843-240: sheathed 2.1 mm

Gallery lines
A-8000U-190/130/090/070/050: unsheathed
1.1 mm/0.9 mm/0.8 mm/0.7 mm/0.5 mm

Brake lines
A-8000U-190/130/090: unsheathed: 1.1 mm/0.9 mm/0.8 mm
A-7850-240 sheathed: 1.9 mm