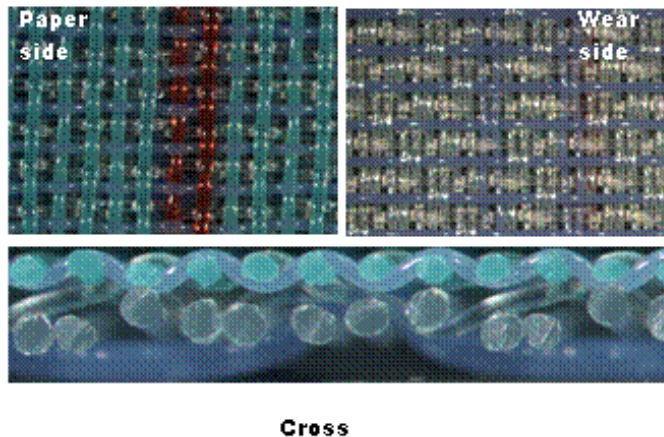


## CrossFlyer™

**CrossFlyer™** is the new, advanced evolution of the SSB concept, developed by the Cristini Research team. The paper side of **CrossFlyer™** offers the best "fabric" effect, with the highest FSI, for the best sheet planarity, retention and formation. **CrossFlyer™** optimizes all the fundamental characteristics of an SSB fabric, with this particular design reaching the best possible dewatering efficiency. The compact design guarantees the maximum planarity and absence of water and fibres carrying.



The three most frequent paper maker's demands are being:

- Planarity of the paper sheet,
- Homogeneity of the paper sheet,
- Cost reduction.

**Improved planarity of the paper sheet:** the binding of two longitudinal yarns and the gap of six produce the highest cross stiffness known today in the SSB approach, resulting in the best maintenance of paper sheet profiles for the entire life span of the fabric.

**CrossFlyer™** has been developed on a high-speed weaving loom using a reduced number of shafts, to afford the maximum pattern binding for the best dimensional stability, and thus excellent paper sheet planarity. The transversal stiffness value of the new concept is comparable to the best currently available on the market, normally found in triple weft designs. Additionally, the double longitudinal binding yarn considerably limits the stretching of the fabric under operating tension, to about 30% less than standard SSBs.

**CrossFlyer™** fabric has a naturally very small inner void volume, thus a natural and easy dewatering capability, very important on high speed machines.

**Improved homogeneity of the paper sheet:** thanks to an enhanced dewatering capacity and high FSI, a better fibre distribution and maximum sheet coating are obtained with an equal number of wefts.

**CrossFlyer™** also offers a true one-on-one fabric pattern, with all knuckles aligned on the same plane. This factor maximises the fibre support index, erasing any possible marking of the sheet. With a very even surface, fibre distribution is very regular, with a consequent high degree of homogeneity in paper sheet formation.

**CrossFlyer™**'s engineered easy dewatering system, combined with fabric transversal stiffness and limited empty volume, is one of the keys to its success.

**Cost reduction:** the reduced empty volume of the **CrossFlyer™** concept offers improved drying of the paper sheet and the reduction of energy costs typical of press and dryer sections. This characteristic translates to excellent dewatering capacity, with no water dragging issues, while the high surface FSI increases retention, resulting in a better coating of the paper sheet. A better paper sheet coating means reduced costs of pulp preparation (ex.: refining) and reduced consumption of chemical products (ex.: retention agents).

**CrossFlyer™**'s natural dewatering reduces vacuum requirements and drag power, therefore energy consumption.

**CrossFlyer™** is designed for Fourdrinier, hybrid machines with top former and gap formers; dedicated to fine grades (xerox, printing & writing, coating base...) whatever the speed of the machine.

Available on request: ultrasonic cut reinforced edges, ultra high wear resistance, nanotechnology lifelines.