



## Dornier weaving machines for technical textiles and deco fabrics in Asia

From aircraft to weaving machine: Engineering expertise with passion. The world wide renowned company Dornier started to produce textile machines in 1950. Nowadays Lindauer Dornier exports 90% of its products world wide and has around 1000 staff members. With optimistic expectations Lindauer Dornier GmbH looks ahead towards the upcoming ITMA Asia + CITME 2010 taking place from June 22 – 26, 2010 for the second time in Shanghai. Expectations are very optimistic thanks to the worldwide recovery of the economic situation. Represented by Al Ameen Trading Corporation in Pakistan, the visitors from Pakistan are advised learn more about the latest Dornier technology at Hall E4 Stand B01 during the exhibition.

In Hall E4 Stand No. B01 Dornier will present a PS rapier weaving machine, proving once again their expertise for the production of technical textiles. During the exhibition different versions of conveyor belt fabrics will be woven on this extremely sturdy machine with heavy reed beat up and positive controlled center transfer.

### The versatile system family

The Dornier weaving machine system family, composed of rapier and air-jet weaving machines, offers all necessary requirements for the production of technical textiles.

The gentle filling process with very low tension peaks enables the processing of extremely subtle yarns. During open shed insertion the yarn is tightly held by the positively controlled rapier head and

gently inserted into the shed without any guiding elements.

Both machines can hold an extremely high or low warp tension which enables to weave very dense fabrics such as conveyor belts or aramid fabrics as well as open mesh structures of glass or also carbon.

### Dornier PX – the lean machine

The weaver of apparel fabrics or home textiles will be informed about a very advantageous solution: the PX rapier weaving machine.

Especially in the area of decorative and upholstery fabrics, the PX serves the market requirements in the best possible way.

It is an all-round machine with standardized Dornier technology. With the PX, the versatile possibilities of the Dornier rapier weaving machine have been refined



Positive controlled Dornier rapier head.

down to the essential requirements of the apparel and home textiles weaver: the established machine widths of 190 and 220 cm are available in dobby and Jacquard version.

Fabrics from dobby machines as well as multicolor patterned Jacquard fabrics with filling variations of nep yarn, chenille or i.e. lurex can be easily woven on PX weaving machines. ♦

## Karl Mayer: Main focus on lightweight machines

Karl Mayer will be displaying its products in Hall E1, Stand A 54 and the main focus will be on light weight machines unaffected by heat and cold, such as the RSE 4-1 – the first Raschel machine with CFRP components, and a two-bar high-performance tricot machine with CFRP equipment belonging to the second generation. Moreover, the company will also be featuring a machine type JL 59/1 B and a DJ 4/2 EL.

The first port of call for all those interested in warp-knitting machines and warp preparation equipment at the ITMA ASIA + CITME 2010 will be hall E1, stand A54 – the Karl Mayer exhibition stand. As one of the highlights, this global player with its headquarters in Obertshausen will be featuring the production increases which can be achieved through the appropriate integration of carbon fibre components and

the correspondingly adaptation of the machine concept. The RSE 4-1 – the first lightweight raschel machine – will be seen under continuous production conditions at ITMA ASIA + CITME, and will reach speeds which have previously not been achieved.

The increase in efficiency will be achieved by using lighter and more stable carbon fibre components in the bar area. A further advantage of the lightweight materials is that, they are unaffected by heat and cold – an important attribute with regard to increasing the tolerance range when configuring the production environment.

Thus it was possible to widen the window of climactic specifications from +/-2°C to +/-7°C for trouble-free operation. The first Karl Mayer machines to profit from the advantages of integrating

carbon fibre components were high-production tricot machines. A model of the carbon fibre component generation from this production sector will also feature at ITMA ASIA + CITME. Further novelties on the Karl Mayer stand will come from the Jaquardtronic® Lace and seamless production sectors – a cavalcade of innovations which is by no means exhausted.

Parallel to the mega machine show in Shanghai this manufacturer, which abounds in innovative ideas, will be staging an in-house exhibition in the customer centre at its subsidiary in Wujin, showing the new RD 6/1-12. This extension to the double raschel machine series will be described in greater detail in this issue. In addition Karl Mayer will be featuring another novel company product and a new Warp knitting machine with parallel weft insertion. ♦



The RSE 4-1 with bars made of carbon fiber reinforced plastic (CFRP).