

UNITECH Textile Machinery

Unitech Textile Machinery based in Italy is active in sale and manufacture of textile finishing machines and formed as a merger between Comet and Santalucia, two textile engineering companies also from Italy.

Unitech offer single or combined machines as well as a complete range of machinery with following products lines:

- ❖ Dry finishing process: raising, shearing, tigering, sueding, brushing and polishing machines
- ❖ Wet finishing process: single and multi layer stenter, relax dryers, equalizing and stabilizing tenter frames, coating heads and complete coating lines, bonding dryers.

RED EVO 6

Unitech presented RED Evo 6 single layer stenter with dual flow air-circulation system. The DOUBLE DECK RED Evo 6 offer outstanding floor saving with identical technical characteristics of a single layer stenter, as there is no hot air crossing between upper and lower chambers. The differentiated exhaust air extraction for upper and lower chambers further enhances the efficiency of the stenter.

SMART – RC is new heat recovery system

The SMART – RC is new heat recovery system, which does not cause oil or wax condensation and uses water to air heat the exchangers inserted in a close loop system. This heat recovery system is compatible with any type of dryers, ovens and stenter frames.

Rainbow dryers

The Rainbow dryers for digital printers are available in three configurations:

- ❖ **Rainbow DK:** Hot air dryer with dual flow technology (independent airflow on the fabric face and reverse).
- ❖ **Rainbow SK:** Hot air dryer with equal airflow on the fabric face and reverse.
- ❖ **Rainbow 3P:** Multi-pass hot air dryer with dual flow technology (independent airflow on the fabric face and reverse).
- ❖ **Rainbow IR:** with high power IR heaters and integrated fumes extraction system.



Daniel Magnani, Sales Department, Unitech Textile Machinery SpA.

X3 brushing machine

The X3 brushing machine is equipped with the innovative Multi-touch brushing system – Unitech patented – which gives better brushing effect with much faster production speed in comparison with conventional brushing machines.

The Multi-touch brushing system advances the fabric against the brushing rollers, thus producing fabrics with bulky handle, reduced fabric elongation and at the same time increased operation speed of the machine. These brushing rollers have increased diameter as well as bristle length for longer life.

X6 Double Drum Raising machine

The X6 Double Drum Raising machine, previously from Comet was presented at ITMA Barcelona. The Pegasus X 6 double drum raising machine is now available with a large series of additional components and raising wires to find the best configuration for processing knitted fabrics (open width and tubular), woven fabrics, warp knits, technical textiles, upholstery fabrics, velvet, as well as other fabrics or materials subject to the raising treatment.



Rainbow dryers for digital printers.

ITA highlights at ITMA

Institut fur Textiltechnik of RWTH Aachen University from Germany presented Smart textiles for vital sign monitoring, multiaxial warp-knitted non-crimp fabrics, braided ceramic composites and innovative medical textiles.

The novel 3D braiding approach highlights a hexagonal braiding concept. ITA and partners developed and built this new machine, which was exhibited on ITA's booth for the first time. This system is capable of manufacturing complex 3D-shaped products with variable cross-sections and able to process very delicate micro-filaments for medical applications.

Another highlight is the presentation of a weft bar for a crochet machine. It is a unique carbon reinforced weft guide bar and therefore half the weight of traditional weft bars. In addition, a self optimized drafting allows the improved collection of both materials and 3D flexible structures.

Valvole Hofmann by Bonino Engineering

Valvole Hofmann by Bonino Engineering is dynamic and flexible business established in 1989. The company has become one of the well-known and appreciated valves' producer not only in textile field, but in process industry, too.

In addition to the well-known on-off angle seat valves series 01FP94 and control valves series 11M9, Valvole Hofmann by Bonino Engineering presented at ITMA 2011 the new 3-ways control valve series 12M6.

Totally designed by the staff of the company, this valve meets the requirements to have a compact and economic valve suitable for oil up to 300°C temperature. Body is flanged, in nodular cast iron EN-GJS-400-18-LT (GGG4-.3); castings are made by reliable partners through company's own moulds. Seat is stainless steel, seal is metal to metal, with linear plug. Extension, bellows and shaft are stainless steel. All the internal parts are totally worked in the workshop through own machinery; so the technical features of the complete valve are under direct control of the company. Valve can be pneumatically or electrically actuated. ATEX certification is available.

The company has recently renovated its buildings and photovoltaic arrays have been mounted on the roof as ancillary source of energy: working process inside the company will use clean energy making valves a low impact product. ♦