

ITMA Barcelona Press Release

Thies GmbH & Co.KG will show to the international textile industry at the ITMA International Textile Machinery Exhibition, Barcelona, in Hall 4, Stand H4 – D 110 its most recent developments.

Under the registered slogan “Go Green with Thies” the Coesfelder firm will exhibit innovations in the area of Textile Finishing which using the latest environmental and economic studies, concentrate on process sustainability and the conservation of resources.

The Thies textile machinery exhibits will include:

“iMaster H2O”

A completely new design of rope dyeing machine for the processing of knit and woven goods. By installing the transport winch inside the kier, cotton, synthetic fibres and their blends, including articles with a high elastane content are processed with significantly reduced elongation, resulting in fabrics of improved stability and surface appearance while offering increased flexibility in the processing of a wide range of products.

An additional focus has been on the significant reduction of water consumption and with it a decrease in the consumption of chemicals, dye stuff and energy. In practise it is possible using conventional techniques, without the need for air technology, to work comfortably with a liquor ratio of 1:4. Complex rinsing systems combined with “intelligent functions” for the pre and post treatment of the fabric helping to further reduce the total water and energy consumption.



“miniMaster”

Complementing the “iMaster H₂O” and its ultra-low liquor ratio, is this new laboratory/small scale production machine. Designed to provide a link between the laboratory bench and production, at the same time improving the level of “Right First Time” dyeing’s.



“mini-bloc”

The well-known “eco bloc quattro” is now complemented by the “**mini-bloc**”, which focuses on the production of yarn in quantities as small as 50 grms.

AAP - “Advanced After-treatment Process”

Thies are continuously working on new technologies aimed at reducing plant and CO₂ emission from discontinuous dye houses.

A new mile stone has now been reached with the “AAP” system. Designed to treat rinsing liquor in a separate reactor vessel, by using active Oxygen to destroy the molecular structure of the dye stuff and remove the colour. The system is operated during the rinsing and post treatment stages of the dyeing process. By carrying out the process in the dyeing machine, the cycle time and the amount of effluent are dramatically reduced.

“hankMaster”

Flexible loading, reduced water and lower energy consumption are the hallmarks of the Thies “hankMaster”. Designed for the dyeing of speciality and high end yarns in hank form, the system provides optimal treatment combined with ease of handling.

