

iMaster H2O - a revolution in textile dyeing sector

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The new Thies iMaster H2O dyeing machine has been designed for all fabrics and knitted goods to ensure economic and environmental operation with advanced automation at low liquor levels.

A new dyeing machine for fabrics and knitted goods that offers ultra-low dye liquor levels with ratios as low as 1:3.7 for cottons has been introduced by Thies Textilmaschinen of Germany.

The iMaster H2O is based on 40 years' experience with this technology and is specifically engineered to ensure that textiles plant are able to adhere to the most stringent of international and local environmental protection regulations.

The machine has been developed to offer maximum flexibility in terms of materials usage, minimal use of dyes, and with advanced automation to ensure the greatest efficiency and cost-effectiveness possible.

Available with chamber widths of 525mm, 1050mm and 1300mm, the iMaster H2O has nominal loading capacities of 100kg, 200kg and 250kg and configurations of up to six chambers are available.

There is an adjustable J-box, making the machine suitable for light to heavy fabrics as well as full and reduced loads.

Minimal rope lifting results in better shrinkage control and less rope curling for elastic fabrics such as cotton and Lycra.

Running properties cover the range of 90 to 500 m/min, and the dyeing, bleaching and rinsing is carried out with extremely low nozzle pressure, thus giving excellent fabric surface.

An innovative system of kier pressure regulation reduces compressed air consumption, and there is no waiting time for venting the machine, which can be drained at temperatures starting from 92°C.

Fabric speeds, nozzle pressure and plaiter are all automatically synchronised, and a new 'smart dose' system has been developed for significant improvements on levelness and dosing time. A liquor turbulence protector allows further reduction of dye liquor.

The 'rinse tronic' system automates the rinsing procedure, and there is also an automated filter system.

For operator comfort and to meet noise pollution requirements, the sound level of this machine is extremely low.

Thies, founded more than a century ago, is one of the global leaders in fabric dyeing technology, with a global support network.

Thies GmbH & Co KG