



# COLARIS VAT printing

# VAT printing



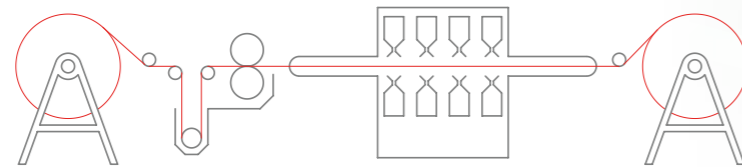
VAT printing is based on INDANTHRENE® dyes which are known for unsurpassed fastness properties on any kind of cellulosic and regenerated cellulose fibers. Prints with VAT dyes easily withstand natural UV light exposure, boil washing and even resist chlorine bleach to a great extent.

VAT printing is more complex compared to other direct-to-fabric printing solutions, but the achieved properties of end products are paying well for the additional steps in processing.

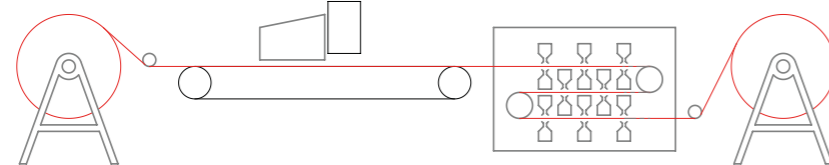


Due to its high performance, VAT INDANTHRENE® prints are ideal for heavy duty environments and are also used for clothing in the security and special forces segment incl. camouflage fabrics.

**1**

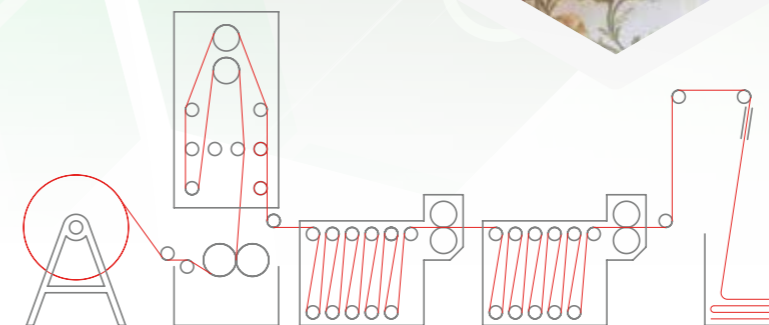


**INKJET PRE-TREATMENT APPLICATION:**  
padder application followed by stenter drying



**DIGITAL PRINTING:**  
digital printing followed by IR, or hot air drying

**2**



**POST-PRINT PROCESSING:**  
padding, steam fixation, oxidation, washing

After printing and drying the substrate needs to undergo a padding process where a reducing agent is applied to solubilize the dye. Through a steam fixation the dye develops on the substrate and is permanently fixed by undergoing an oxidation process when retracting from the steamer.

**3**



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