

MACHINERY MANUFACTURER

Zimmer
AUSTRIA




© Additive Tectonics



PIONNERING INNOVATIONS
150 YEARS

KUFSTEIN special solutions

DIGITAL PRINTING SYSTEMS

 04/2024

special solutions



3D PRINTING

The most spectacular but not much known use of ZIMMER AUSTRIA CHROMOJET valve technology is for an additive manufacturing process. A selective application of specific chemicals is used to activate a binder. This process allows to fabricate solid bricks from wood chips or other granulates. It is even possible to produce complex structures by a method called selective cement activation. A nice example is a 3D Logo from ZIMMER AUSTRIA. The fancy building facade on the cover page, fabricated by Additive Tectonics, a subsidiary of FIT AG, Germany, demonstrates the capability of a CHROMOJET valve technology-based 3D printer.



HYDROPHOBIC PATTERNS

Selective application of a hydrophobic chemical by a COLARIS printer is another example. The image demonstrates that the chemically treated area remains dry whereas the untreated area of the fabric absorbs the water and appears darker. For better visibility we have printed an inverse image of a Dalmatian dog.



FUNCTIONALIZATION

The CHROMOJET technology offers a multifaceted field of use. From printing of electro conductive paths on elastic fabrics, via application of 3D structures on shoe inlays for a massaging effect, or printing of invisible cutting marks to avoid fringing of sensitive fabrics, the CHROMOJET technology is a great support to the manufacturing industry.

Numerous chemicals can be applied for full or partial functionalization of textile and non-textile based substrates.



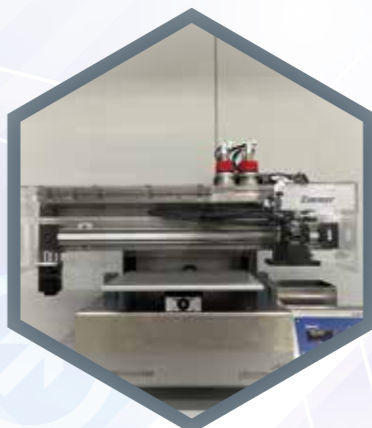
WHITE LABEL MACHINES

Besides direct supply to our own customers, we manufacture various machines under white label. Such machinery may find its way into different industries incl. leather and fur processing.



VERSATILE LAB PRINTER

For exploration of possible use of the valve based-technology in the industries, we have developed a small printer at table top size. The CHROMOJET-TT is a laboratory printer to test and develop ideas for full coverage as well as selective application of various chemicals.



COLARIS



**MACHINERY
MANUFACTURER**



chromoJET



**DIGITAL PRINTING
SYSTEMS**




INNOVATION | QUALITY | SERVICE


Zimmer
AUSTRIA

ZIMMER MASCHINENBAU GMBH
DIGITAL PRINTING SYSTEMS

www.zimmer-austria.com



 Eibergstrasse 2-8
6330 Kufstein | AUSTRIA

 +43 (5372) 64893-0
info@zimmer-austria.com

Your competent partner for process development, engineering, manufacturing and implementation of industrial printing and coating systems.

J. ZIMMER Maschinenbau GmbH, Kufstein reserves the right of technical and design modification of the equipment described within this brochure at any time without prior notice. This leaflet is for informative purposes only.