



THE CUBITEX SYSTEM

Reco K.K., 2006

The Cubitex Technology

Cubitex is an entirely new design technology for the creation of 3D surfaces on fabric surfaces. Unlike conventional mechanical or chemical fabric embossers, Cubitex utilizes state-of-the-art irradiation with near-infrared light technology to engrave special thickeners into the surface of the fabric, without physically influencing the strength or fastness of the fabric. The pattern and depth of engraving can be controlled to a high degree of accuracy. Through its low cost, flexibility and precision compared to its counterparts, Cubitex technology opens doors of possibility and allows you to simply do more.



Cubitex machines are capable of creating 3D patterns on fabric surface.



Supported Materials

The Cubitex Machine supports the processing of a variety of materials:

Opal Processing	=	Polyester
Embossing	=	Polyester, Polyester/Cotton, Polyester/Rayon, Wool
Perforating	=	Polyester
Ripple Processing	=	Polyester, Nylon
Sanding	=	Polyester/Cotton, Polyester/Rayon

Opal Processing

- Opal processing of polyester fabrics can be completed without the deterioration of patterns.
- Processing is more stable than conventional chemical treatments and does not influence the strength or fastness of the patterns or fabric.



**Opal processing
performed by a Cubitex
machine**

Embossing



Photographs of products embossed with a Cubitex machine. Engraving with 3D effect on patterns is possible.

- With Cubitex, high precision and long-lasting unique embossing becomes possible.
- Operational costs are lower than with conventional methods.
- 9 kinds of processing can be carried out, allowing complete control of delicate patterns and depth of engraving.
- Cubitex also supports simultaneous colouring of sculpted patterns.
- Embossing can be applied to polyester and polyester/cotton fabric and results in outstanding washing and rubbing fastness.

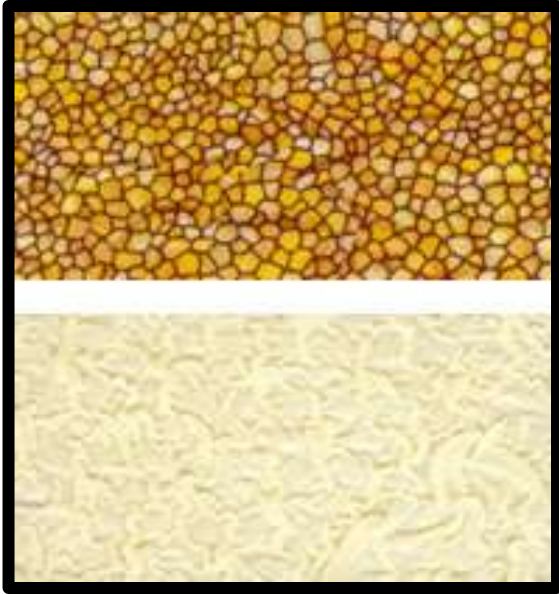
Perforating

- Cubitex allows the perforation of polyester to any desired size and at any particular point, setting it above conventional mechanical treatments which are limited in hole size.



A photograph of fabric perforated by a Cubitex machine.

Ripple Processing



**Thermal shrinkages
produce crease and ripple
effects as shown.**

- Cubitex ripple processing is accurate and versatile.
- Can be applied to polyester or nylon fabric.
- 3D effects can be printed on fabrics.
- Any desired crease pattern can be printed and duplicated if additional orders are made.

Special Finishing

- Cubitex technology allows 3 further kinds of processing:
 - Sanding
 - Acceleration of resin-finishing
 - Acceleration of cross-linking of binder on pigment printing

Basic Operation

Print with recommended thickeners.

Irradiation with near-infrared light (patented design) on printed fabric surface.

Steaming

Relaxing

Soaping

Complete drying

