

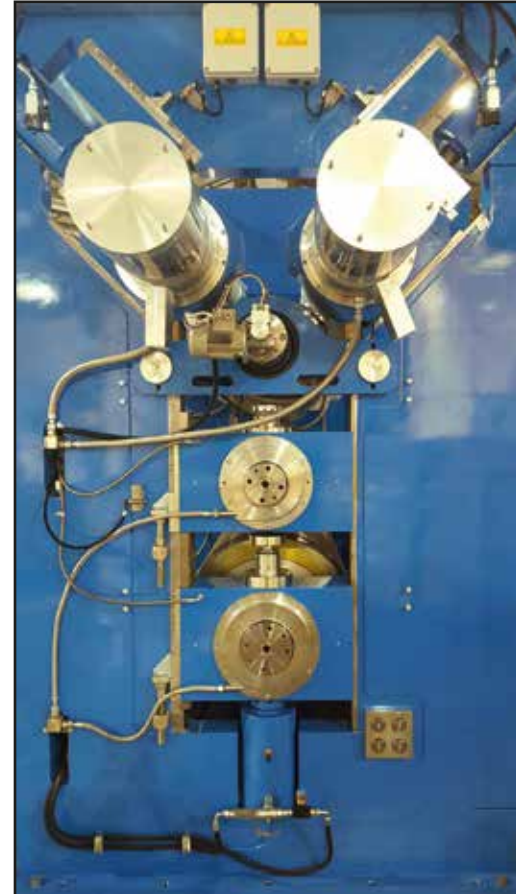
3 pressure levels 1 working process

Guarneri Technology

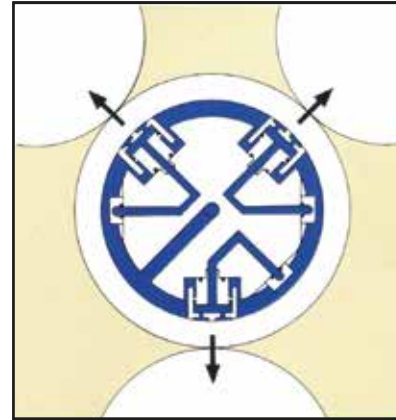
in cooperation with VOITH



Drive side



Lateral view



3 pressure levels

The 5 bowls of this new generation of Guarneri Technology™

Nipco™ MULTIFLEX calender offers the possibility to select the most suitable fabric passage among several combinations.

By using the **Nipco™** Technology, in its defined nip configuration for embossing effects, the calender offers the possibility to select, by means of a 'revolving system', one of 3 different designs without changing the bowls.

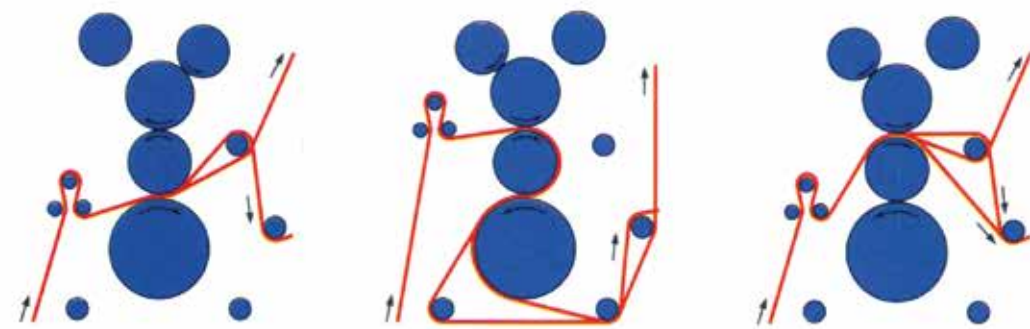
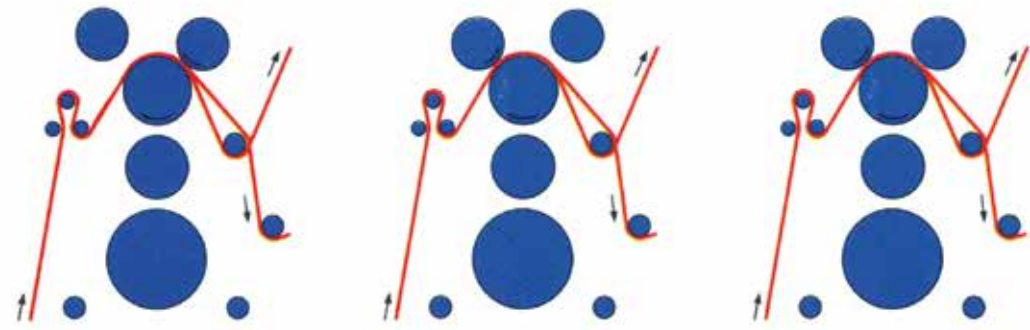
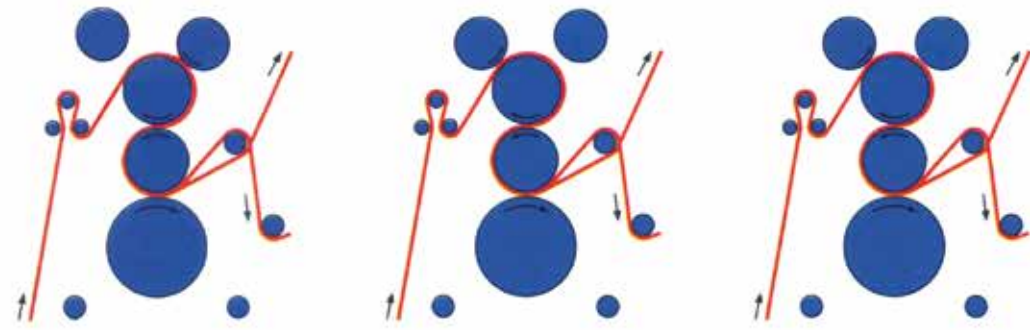
All nips are controlled by this well known **Nipco™** system combined with one soft nip, cotton/cotton, as to where a small diameter cotton bowl is acting on an enlarged cotton bowl, reaching a result close to frictioning. This means highest density and most softened touch.



Exit view

Nipco™ MULTI FLEX

Different fabric passages



Guarneri Technology

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Nipco™ MULTIFLEX

CALENDER

THE FIRST TEXTILE CALENDER WITH 5 BOWLS
AND 3 INDEPENDENT PRESSURE LINES



in cooperation with VOITH

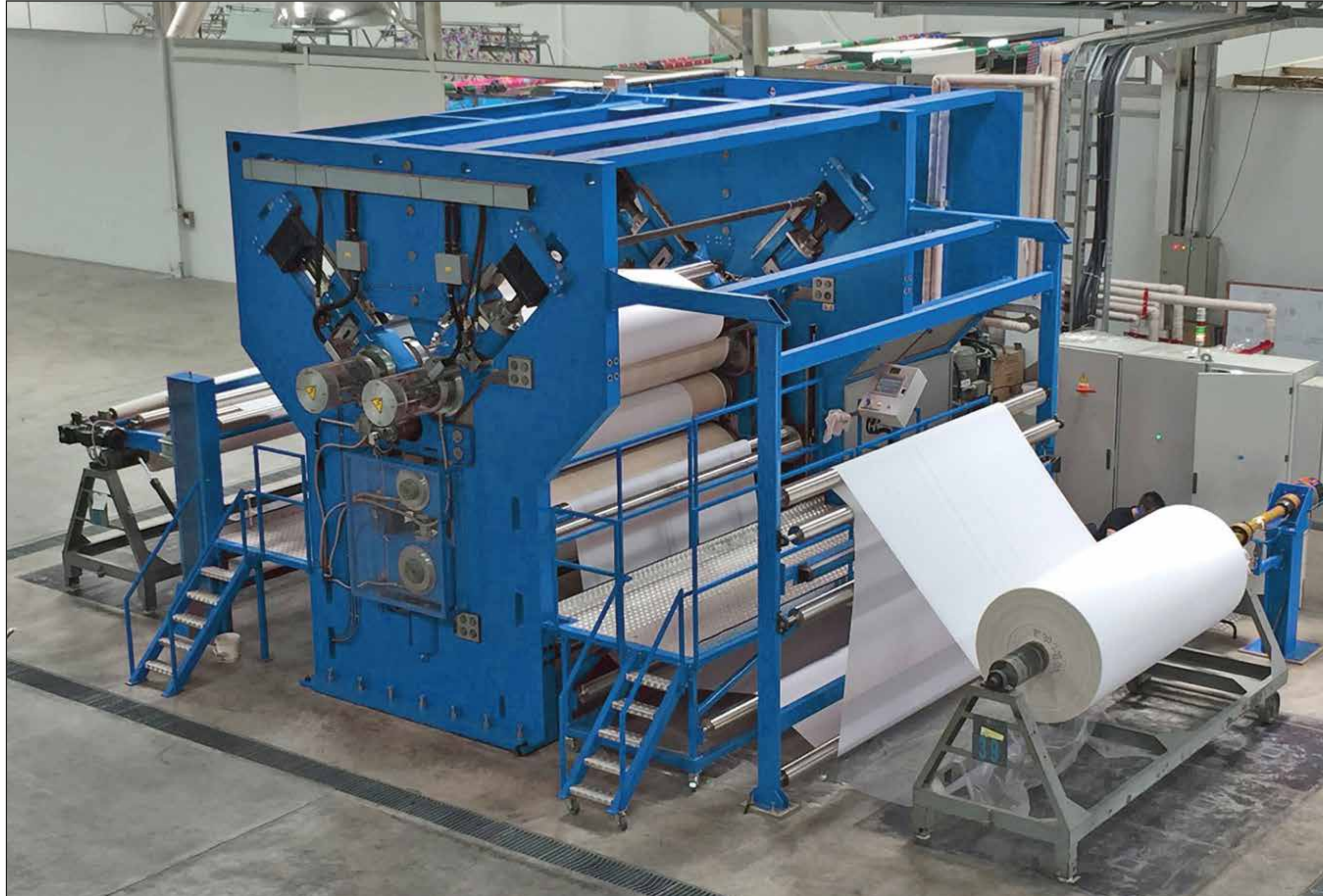
Guarneri Technology

More glaze, more density, softer touch, more flexible embossing and area controlled pressure lines

Guarneri  Technology

in cooperation with **VOITH**

Optimal effects through 3 separate operated pressure levels in one single working process



Rollers front view

Our development has been the so called **Nipco™ HT**, a **Nipco™** bowl with flexible pressure setting across the width, for finishing of technical textiles, the most important development over the last years and the **Nipco™** covered with cotton or paper.

Now, we are presenting one step further: a new **Nipco™** system bowl with three independent pressure lines, each pressure line individually controlled and area controlled, if requested.

This **Nipco™ MULTIFLEX** calender to be used as embossing machine, e.g. for automotives, for highest lustre and soft touch in many textile applications. The so called CHINTZ effect has now been optimized. Two steel bowls acting against either **PGT6** or **TopTec3** sleeve, give a magnificent result. The centre **Nipco™** system bowl has 3 independent pressure lines and at any time two of them can be combined to reach your targets, the third pressure line is then acting as stabilizing retracting line.

Optimal effects through 3 separate operated pressure levels in one single working process.

Nipco™ MULTIFLEX the first 5 bowls calender with two hard nips Steel/**PGT6**/Steel and two soft nips combined between **PGT6**/Cotton and Cotton/Cotton. Same basic equipment to be used as **MULTIFLEX** embossing calender by replacing both steel bowls by two engraved bowls with individual design. Most interesting for automotive applications, e.g. for seat cover embossing, even with 3 embossed bowls to be combined instead of the cotton bowl underneath.



Exit side

YOUR ADVANTAGES

- Universal calender with high production speeds.
- Up to 5 bowls, composed by max 3 pressure lines. Each pressure line individually and independently controlled across the width.
- No more pre-calendering operations, as all requested results are now combined in one machine.
- More shine, more lustre, more textile touch and more softness than ever obtained with a calender.
- Different fabric passages, each pressure line individually controlled by means of proportional valves.
- All functions are controlled and reselectable by 'Siemens S7' software.
- Multi-purpose embossing unit with 3 embossed steel bowls, each one individually selectable.
- 3 pressure levels, 1 working process.