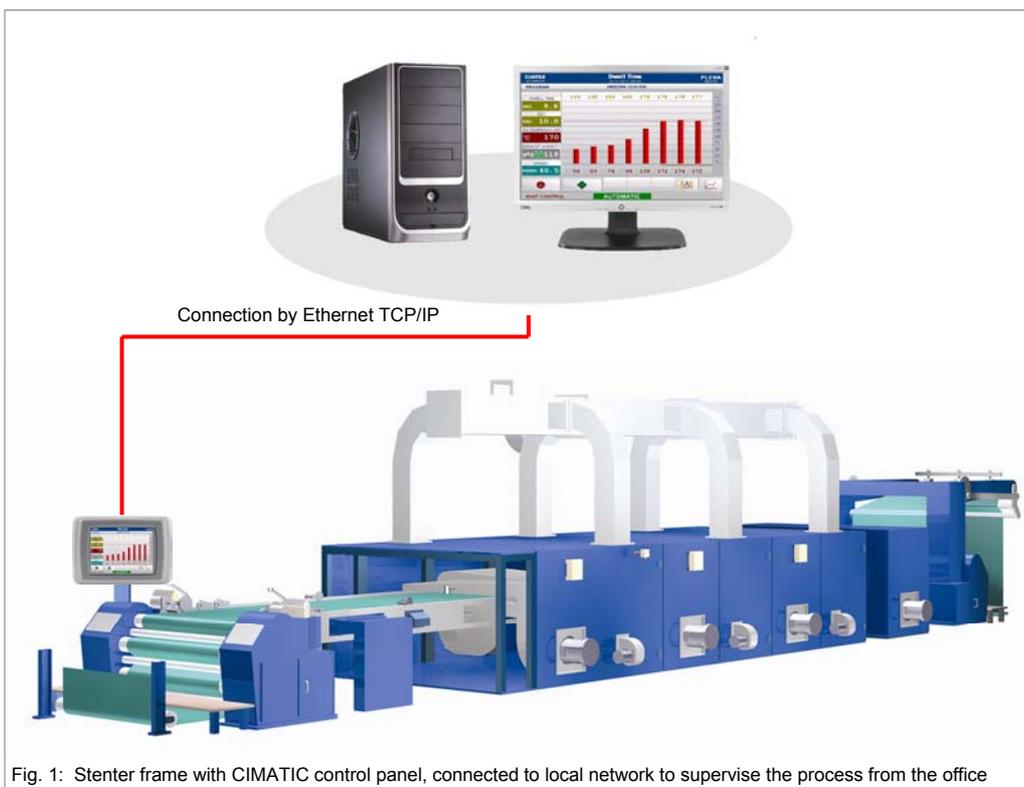


## Monitoring and Remote Control on desktop A new feature of the CIMATIC panels

The extremely cost efficient control concept for dryers and stenters is based on the well proven PLEVA sensors TDS 95 for fabric temperature, RR1 for residual moisture and FS 91 for exhaust humidity with the advanced CINTEX control system with the software OPTIDRY.

The new generation of control panels CIMATIC is designed to monitor the actual datas direct on a local desktop computer over the local network in the office.



*Monitoring process data from the office*

*Energy Saving  
(gas / electricity)*

*Higher Productivity*

Fig. 1: Stenter frame with CIMATIC control panel, connected to local network to supervise the process from the office

The CIMATIC control panel is standardwise equipped with web functionality. It's possible to monitor the data in the panel PP70/PP100/PP150 via a web browser through Intranet or Internet by Ethernet.

This features allows the production manager to supervise the production direct from the desktop computer in the office. In addition he can send data and recipes or read trend data.

For this web function is no additional hardware required, only a connection to the lokal network by Ethernet TCP/IP is used.

### Advantages and benefits of the new control concept

- ◆ Monitoring of actual process data from office without additional equipments
- ◆ Transparency and recording of the process data
- ◆ Optimised drying and heatsetting process with automatic control
- ◆ Significant energy saving of **up to 30 %**
- ◆ Increase of productivity **up to 40 %**

#### In this edition

Monitoring and remote control	1
Optimization Drying/Tumbling	2

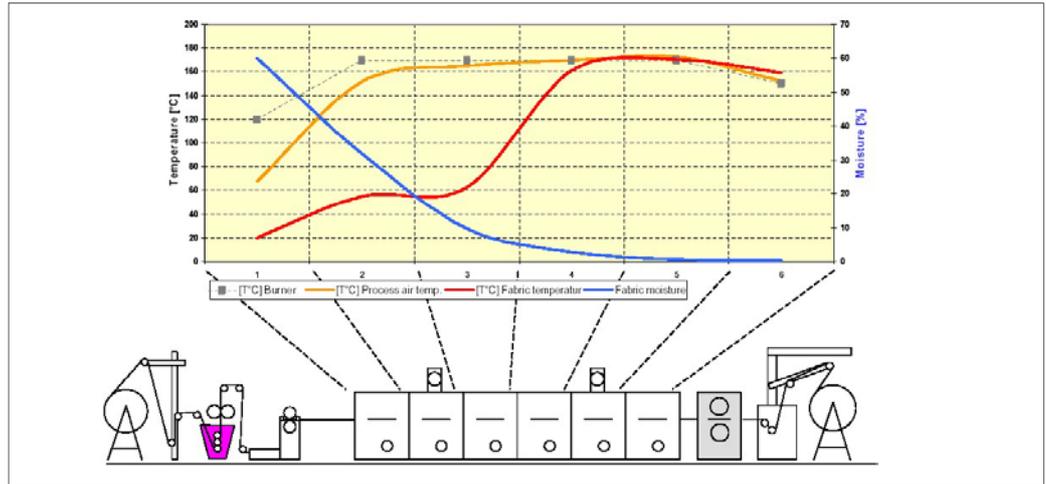
Control of Drying/Tumbling on Relax or Loop Dryers for Terry Cloth



Fig. 2: FS 91 Exhaust Humidity Sensor



Fig. 4: TDS 95 S measuring through the conveyor belt



Problems in drying/tumbling

Frequently arising problems which affect the drying and tumbling process:

- ◆ Uneven wet pick-up over length and width of the terry towels in the inlet of the dryer/tumbler
- ◆ Harsh handle due to over drying and flattened loops during the open width process

Components

The following parts are required to control the drying process on a relax dryer or conti tumbler with the new OPTIDRY control concept:

- COMPACT Controller CP35
- 3 x TDS 95 S Sensors with electronic box
- 1 x FS 91 S Sensor with electronic box

Concept of control

The basic information of the actual situation in the dryer is measured by three sets of PLEVA fabric temperature sensors TDS 95. They are installed inside the dryer above the conveyor belt (Fig. 4).

The TDS 95 sensors are measuring the air temperature inside the dryer as well as the surface temperature of the fabric and detect the temperature profile during production.

The setting is defined in:

- ◆ surface temperature of the terry towelling
- ◆ short dwell time in seconds (4 - 6 sec)

The short dwell time is used to level out the unevenness in drying over the width and / or to dry the different thickness of the towel due to the bordure as well.

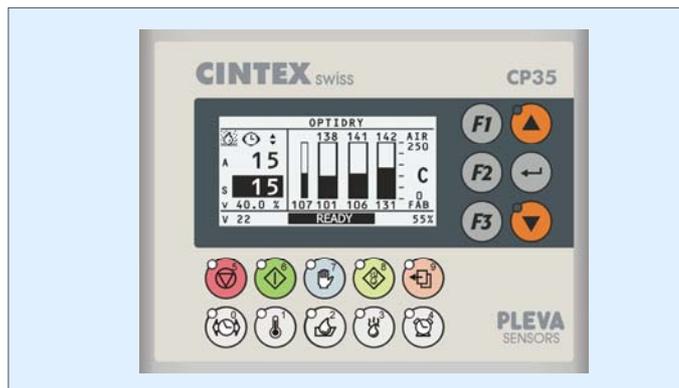


Fig. 5: COMPACT Controller CP35 with the new software OPTIDRY with "Auto-Setting" function.

COMPACT Controller CP35

The controller CP35 is equipped with a special software OPTIDRY to control the drying process on a relax or loop dryer for a perfect result. The controller is able to

detect the actual the situation in the dryer in connection with the PLEVA sensors. The drying process is then controlled by varying the speed of the dryer.



Fig. 6: Tumbled terry towelling

PLEVA Sales and Support in ASIA:



CINTEX AG Glaserstrasse 12  
8274 Tägerwilen-Switzerland  
E-mail: info@cintex.ch  
www.cintex.ch



Headquarter and Manufacturing:  
Rudolf-Diesel-Str. 2  
D-72186 Empfingen (Germany)  
E-mail: info@pleva-controls.de  
www.pleva-controls.de