DMT-9

FINISHING, DRYER DWELLING TIME & TEMPERATURE CONTROL

- Optimal Surface Control
- Temperature Control
- Machine Speed Control

METHOD : The optimum temperature for heat treatment processes as they are encountered in finishing is of great impact for the product quality. The system DMT-9 enables the entire finishing to be controlled.. The operator enters a specification for time in seconds and a temperature. The system constantly reads the real web temperature with at least 3 pyrometers. The distance between each measurement position ant the exit from the machine is known.There is also an accurate data of the machine speed. The system therefore which uses a microprocessor can compute the processing time with great easy. and thus to determine which sensors meet the specification entered and adjust the machine speed accordingly. All heat treatments may therefore be performed automatically assuring optimal capacity of each machine, reducing process duration by 10 to 20%, stabilization of heat processing and absolute guarantee of reliable repeatability of desired quality.

APPLICATIONS: Thermofixing, Prefixing, Drying , Carbonizing Polymerizing or Condensing Dye Fixing or Painting Treatment, Gelification, Vulcanizing etc.

TECHNICAL SPECIFICATIONS:

Signal-processing: Measurment of web temperature at different positions along the dryer/tender.
Measuring ranges :
Time (dwelling time): 0-100.0 sec
Temperature: 0-3000 oC
System enclosure (PC):
(WxHxD) = 2000x600x600 [mm]
Measuring sensors :
Radiation pyrometers in special enclosure with cross air purging, ambient temperature max. 60 oC
Controll automatic : digital PID-controller for speed adjustment
Power Supply: 220V/50Hz ±10%
Enviromental PC-Conditions: Up to 35 oC (no cooling), 0-95% r.H.

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