

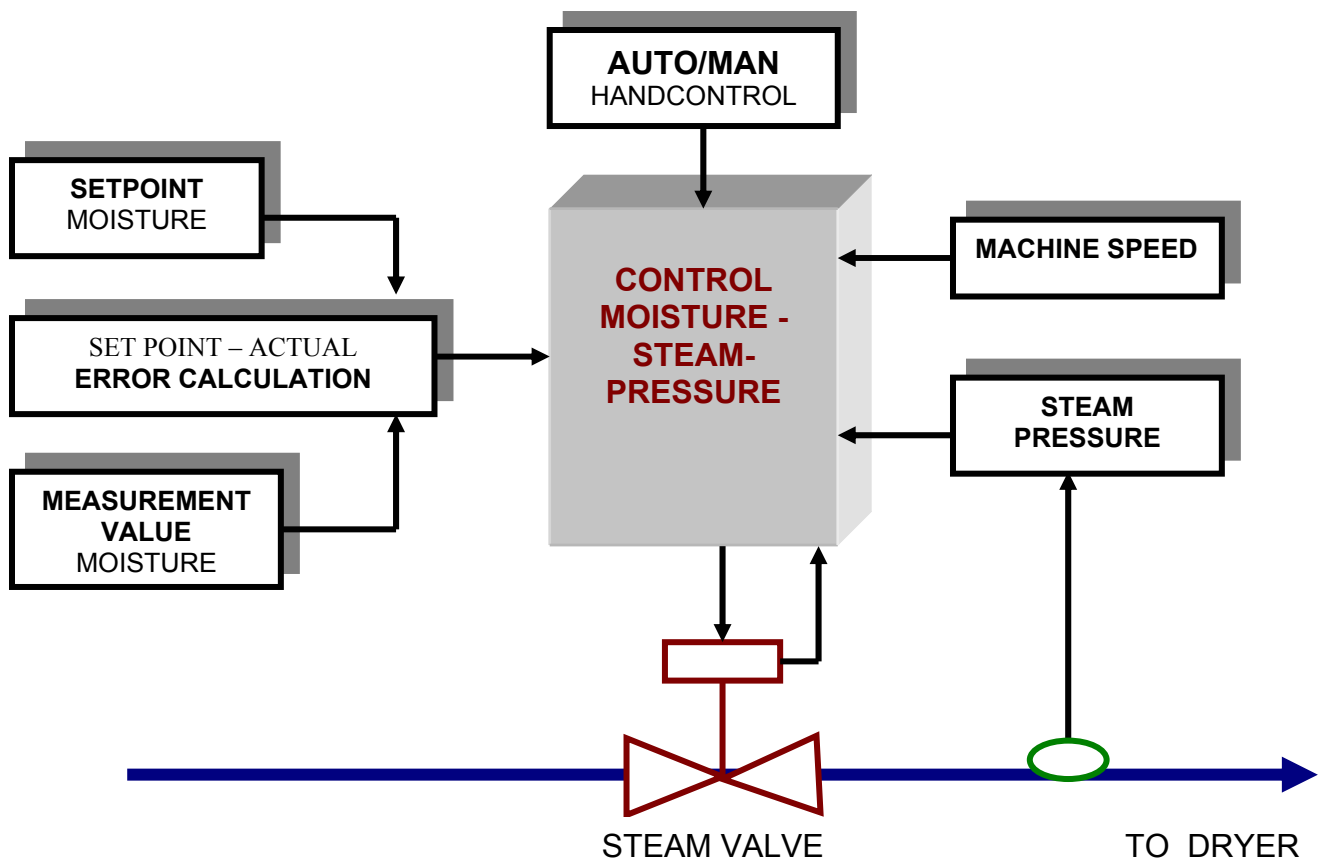
MOISTURE CONTROL VIA STEAM PRESSURE

METHOD OF OPERATION

For the moisture control the measuring values of moisture at machine end is used. That value is compared with the target moisture as it is inserted by the machine personel. The system converts the deviation of moisture from the target in control signals which operate in a proportional relationship the steam valves for the different dryer sections. The moisture is controlled to be constant via the regulated steam pressure.

Variations in machine speed are treated in the control strategy as disturbances and contribute in that manner in control optimization.

In case of web breaks a special program decreases the steam pressure to a certain minimum value preventing in that manner the dryer cylinder from overheating. After the reestablishment of the web flow the system increases in high speed mode the pressure again in accordance to the temperature dynamic of the dryer sections. Through this dynamic regulation the system achieves within minimum time the required quality.



CONTROL OF MOISTURE VIA STEAM PRESSURE