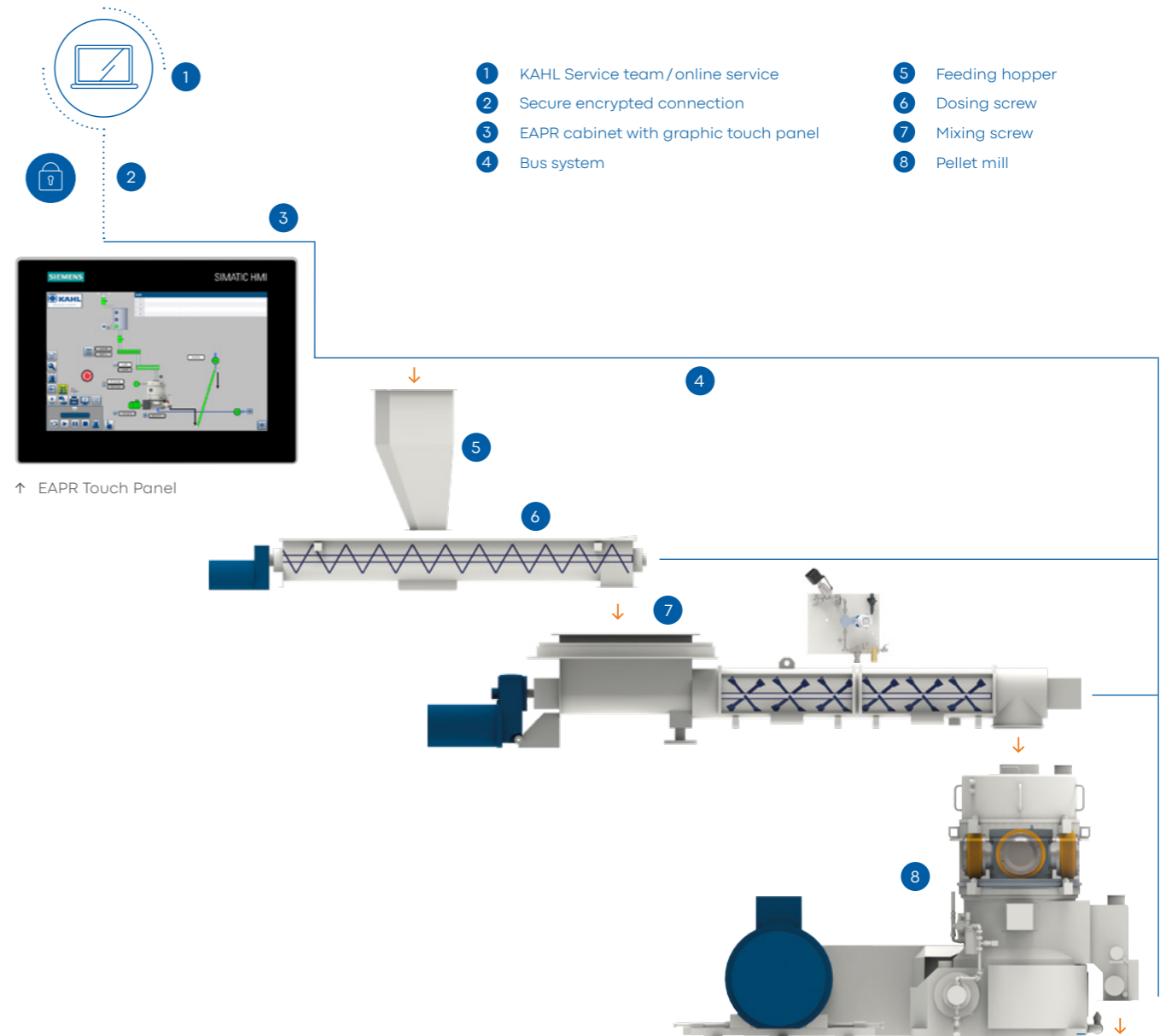


EAPR AND DISTAMAT – AUTOMATIC PELLET MILL CONTROL

Control, regulation, visualisation and operation of KAHL flat die pellet mills



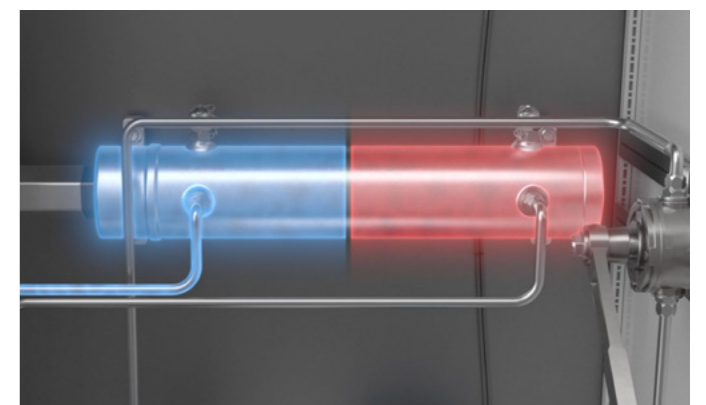
The EAPR is the pellet mill control system for optimum, automatic operation of the flat die pellet mills made by KAHL. It consists of a local control cabinet with touch panel (TP) and a PLC with CPU as central components.



↑ EAPR Touch Panel



↑ Interior of the pellet mill with product



↑ Hydraulic cylinder of the Distamat – Automatic gap control through separate oil circuits

EAPR: Control and regulation of all relevant process parameters. Influence on the entire process through versatile range of functions

Advantages

- Optimum pellet mill operation
- Low manpower requirements
- High availability due to the use of proven quality components
- Optional fieldbus system saves installation work
- DISTAMAT for continuous adjustment and control of the roller gap (option)

Automation of the pelleting line

- Fully automatic operation according to preset process parameters
- Increased service lives
- Control and monitoring of
 - pellet mill
 - dosing screw
 - mixer
 - cooler (option)
 - upstream and downstream conveying elements (option)
 - auxiliary units
- Regulations
 - load-dependent regulation of the pellet mill
 - throughput regulation t/h
 - regulation of steam or a liquid (e.g. water, molasses)
 - up to two more liquids in the mixer (option)

Operation

- Visualisation on the touch panel (TP) provides a quick overview of the operating state of the pelleting line
- Presetting of the process parameters on the TP
- Simple adjustment and optimisation of control parameters and timers

Alarm processing

- Error and alarm messages on the TP
- Logging of alarms and faults

Service and hotline (option)

- Remote maintenance of the PLC control
- Fast assistance in case of process and automation-related problems by the KAHL service team

Further options

- Operating unit for the control station
- Process visualisation and operating station on PC basis
- Integration into existing automation and process control systems
- Process data recording via bus system
- Supplementation by cooler control, supply and discharge systems up to complete factory automation
- DISTAMAT

DISTAMAT: The automatic distance control for a constant roller gap provides optimum pellet quality and increases the service lives of pan grinder rollers and die

Good pellet quality requires a constant roller gap (distance between die and pan grinder rollers), which the DISTAMAT ensures. It allows continuous presetting of the roller gap. Depending on the setpoint deviations, the pressure of the hydraulic system of the pellet mill is controlled in such a way that the roller gap is kept constant. Apart from the higher, constant pellet quality thus reached, direct contact between the die and the pan grinder rollers, which is common when there is a product shortage, is also prevented. The optional unblocking programme provides automatic unblocking in the event of overfilling of the pellet mill by alternately moving the rollers up and down.

Automatic distance control

- Continuous adjustment and control of the roller gap
- Higher, constant pellet quality
- Simple retrofitting for existing pellet mill control
- Automatic unblocking of the pellet mill (option)

Operation

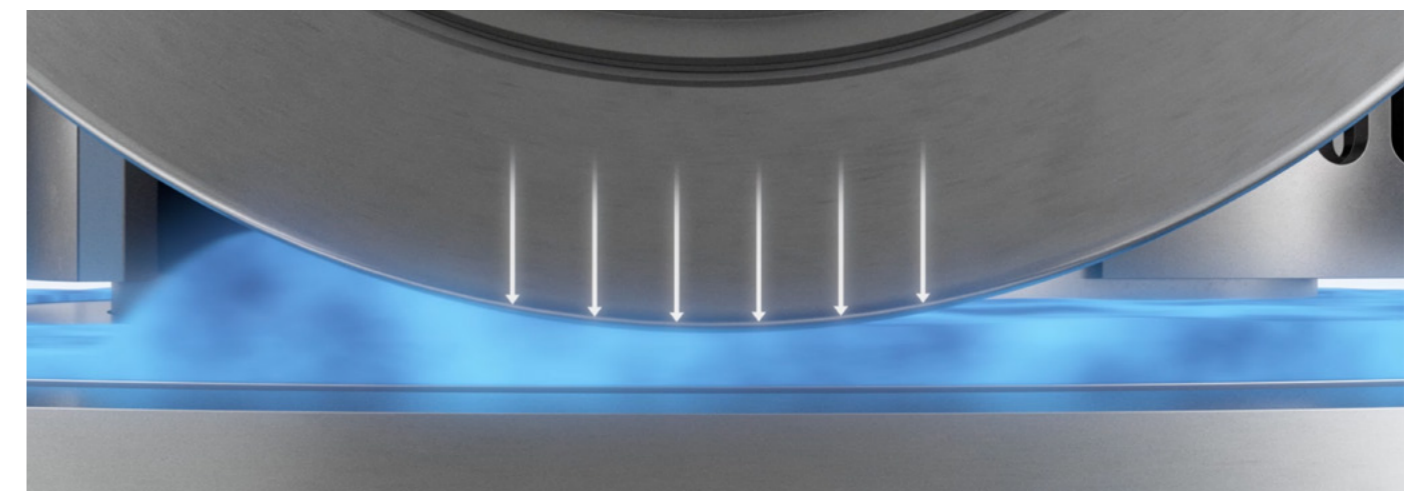
- Presetting of the process parameters on the TP
- Simple adjustment and optimisation of control parameters and timers
- Readjustment and calibration of the measuring system directly from the TP

Alarm processing

- Error and alarm messages on the TP
- Logging of alarms and faults

Remote service and hotline (option)

- Remote maintenance of the PLC control
- Fast, cost-effective assistance in case of process and automation-related problems by the KAHL service team



↑ Gap with product layer



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