



Foto: HATEBUR

SK 800 HF

PROCESS MONITORING SYSTEMS for HATEBUR AMP warmformers

- monitors the forming forces in each station with individual sensors
- suitable for all machine sizes (AMP 20 - HM 75 XL)
- monitors for correct bar stock changes
- measures and monitors the total press load
- intelligent and adjustable sorting reaction
- Mandonic auto-enveloping technique
- large 15" colour touch screen with Cockpit operating surface
- Puzzlemaster with expert programs
- Mandon®-technology with M-Apps
- user access controllable by RFID key
- ready for production data networking with MES-software SK-go!
- optional OPC-UA data interface
- prepared for Machine Condition Monitoring
- prepared for PTO 4.0 providing full process data documentation

Monitoring Functions

- monitors bar stock transition with automatic learn of number of cut-offs and via an additional interface to the ESA-system of the machine
- monitors the forces in each station to detect bad forgings and problems during bar stock change
- Mandonic-auto-enveloping
- Foxmatic-technique with Auto-Drift-Compensation
- intelligent Auto-Start feature after machine stops
- automatic compensation of RPM variation
- indication of process stability (PQI-factor)
- Stop/Go-diagram with error memory
- calibrated total press load
- trend monitoring
- part data memory with target curves
- Mandon®-technology with M-Apps
- helpdesk for easy setting of sorting parameters

Technical Features

- large 15" colour touch screen
- fanless PC with Windows 10 IoT and SSD-Card
- Cockpit operating surface for simple operation
- EMR-proof ergonomic flat enclosure
- numerous mounting options (yoke, swivel arm, floor pedestal, panel mount)
- part counters for job size, tool life, unattended production with ECO-stop, and SPC-intervals
- sorting and batching logics

Ready for 4.0

- integrated data networking with MES SK-go!®
- optional OPC-UA data interface
- prepared for PTO 4.0 process data documentation
- prepared for Machine Condition Monitoring to plot temperatures, vibrations, flows, etc.

Technical Data

- powerful digital signal analysis processor
- up to 32 analog sensor inputs
- 5 digital outputs / 5 digital inputs (expandable with additional I/O-module)
- crank angle decoder option
- connection for servo module (SSI)
- data ports: RS-232, Ethernet, 2 x USB, Teleservice
- integrated RFID reader for user access control
- central data back-up (via network or USB)
- high output digital signal amplifiers
- multi-colour LED warning lamp
- dimensions: 398 W x 331H x 135D (mm)
- weight: 7 kg,
- power supply: 24 VDC/60W

Please note that some features listed above are optional even if not specifically mentioned. Technical modifications are possible without prior notice.



The cockpit operating surface provides quick access to all important functions: total press load, force curves of each forming station and the remaining cut-offs on the current bar. At bar end, an elaborate monitoring algorithm ensures that the transition to the next bar is performed accurately.



The Mandonic auto enveloping system adjusts the envelope limits perfectly according to the current variation of the process. The result: reliable detection of process errors with virtually no unnecessary machine stops. SKPuzzlemaster is provided for quick activation of additional expert monitoring routines.



Intelligent sorting algorithms ensure that defective and suspect parts are automatically sorted by a suitable device without stopping the machine. The press is only stopped when absolutely necessary. The informative helpdesk allows to set all relevant sort parameters easily and correctly.