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Centrum Transferu Technologii
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# BOSS 2010

## Jig system controlling


Maximising production of concentrate with a limit of carbon loses in waste

- possibility to develop of system structure on the basis of compartmental or through controls
- adapt visualisation of working machine to object
- cooperation with hydraulic and pneumatic drive positioners, ash meters, conveyor scales, flow meters ang jig MPN meters to control upper product quality
- the ability to implement steering algoritms to the most known hardware platforms, such as SIEMENS, WAGO, GE Automation & Controls, Horner

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# BOSS 2010

## Jig System Controlling

# TECHNICAL DATA

| | |
|---|---|
| ✓ Working conditions | |
| - ambient temperature | 5°C-40°C |
| - relative humidity at 40°C | max. 90% |
| - atmospheric pressure | 700-1060 hPa |
| ✓ Scope of application | pulverized fine and grain jiggers |
| ✓ Operating elements supply | compressed air in class 5.4.3 according to PN-ISO 8573-1 or hydraulic oil |
| ✓ Method of control reception products | mechanically independent positioned drives |
| ✓ Adjustment of saddle loosening | automatic |
| ✓ Controlling the width of the waste bleeding gap | automatic |
| ✓ Threshold slide position control (optional) | automatic |
| ✓ Lower water quantity control | automatic, individually for each of working compartments or jointly for troughs |
| ✓ Control of the amount of working air | automatically, individually for everyone from working compartments |
| ✓ Prevention of bed rinsing after loss of feed | automatic |
| ✓ Monitoring the process status and signaling emergency states | superior control system, computer supervisory stand, control panel, controllers compartments |
| ✓ Synchronization of air pulsations | for one or two machine troughs |
| ✓ Cooperation with external devices | digital connections for ash meters, flow meters, analogue inputs for working pressure sensors, control pressure sensors, analog signals up to blower and coal feeder efficiency control, bucket conveyor efficiency, cooperation with superior control system |
| ✓ Casing protection degree: | |
| - the control cabinet | IP 54 |
| - technological controller of the jig node | IP 65 |
| - compartment controller (troughs) | IP 65 |
| ✓ Upper product quality stabilization | regulators adapted to cooperate with MPN meter |

The BOSS 2010 system is designed to control the operation of the pulse jiger. The control applies to both enrichment products collection systems and other devices included in the jig node.
It is adapted to the executive elements both pneumatic and hydraulic.

Three-compartment trough with hydraulic control


Two-compartment trough with pneumatic control