QUALITY CONTROL SYSTEM
Any enterprise is aimed at the production with minimal deviations from the specified quality parameters. This task can be solved only on the condition of the continuous control of the manufactured products.

The modern sensors used in the system provide the control over the parameters of the manufactured paper web with maximum frequency and precision. The application of CANOpen communications standards for sensors guarantee the highest speed of data transfer and interference insusceptibility.

The system sensors are designed according to modular principle, thus providing the necessary control for any machine and in any conditions.

The mechanical part of the quality control system provides maximum precision and synchronism for the movement of the sensors across the controlled web. The very structure of the scanner is designed in such a way as to compensate the exposure affecting the precision of measurement, at the same time the scanner is plain and simple.

The quality control system software provides all the necessary information to the staff with regard to quality parameters of the manufactured products in real time for the web’s full width in the machine direction and in the cross direction. Also the system includes the reporting software module (for statistical information): shift reports, daily reports, etc.

The quality control system software is based on standard databases. That allows QCS be easily built in the enterprise ACS and can be configured taking into account all wishes of the customer.
In the today world the control systems for paper machines that solve the tasks of quality control are becoming a must-have. The fifteen years of our experience of research and practical work in the sphere of quality control allowed us to create the compact control system capable of solving multiple tasks.

Each machine producing paper is unique the same as the technical solutions within the framework of various production activities. That's why control systems for different machines are unique, too. AQUAR-SYSTEM quality control system is a set of quality control tools that can be easily configured and individually adjusted for a certain production activity where the machine will be used.

In its basic configuration the quality control system is capable of implementing the main control algorithms, such as:

- machine tank concentration control;
- control of head boxes;
- efflux parameters control;
- basic weight control in the process of paper web forming on the wet part;
- weight adjustment at the reel according to scanner data;
- moisture control (preparation of a signals for steam control systems);
- moisture control on sizing press.

The application of such control system allows the significant reduction of the fluctuations of web quality parameters; reduce the time and losses during transition processes.
QUALITY CONTROL SYSTEM

Technical details

Scanning device specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlled web width</td>
<td>up to 6300 mm</td>
</tr>
<tr>
<td>Synchronous movement accuracy</td>
<td>±0.1 mm</td>
</tr>
<tr>
<td>Carriages coordinates accuracy</td>
<td>±0.5 mm</td>
</tr>
<tr>
<td>Carriages rotation angle</td>
<td>±30°</td>
</tr>
<tr>
<td>Working gap for measuring sensors</td>
<td>12 mm</td>
</tr>
<tr>
<td>Linear movement speed</td>
<td>up to 0.5 m/s</td>
</tr>
<tr>
<td>Power of induction motor</td>
<td>&lt;0.5 kW</td>
</tr>
<tr>
<td>Temperature working range</td>
<td>5-60°C</td>
</tr>
<tr>
<td>Ambient humidity</td>
<td>up to 100%</td>
</tr>
</tbody>
</table>

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