Enhance sustainable productivity and quality

BST iPQ-Center: Modular Quality Assurance
Competition under pressure:
In recent years, print producers face significant challenges due to soaring quality expectations, higher costs for materials and energy, intensified competition and a stronger emphasis on sustainability. Achieving the perfect balance of flawless, eco-friendly printing at a cost-effective price necessitates the seamless operation of the production process at all times.

Assured quality throughout the entire process:
Integrated inline quality assurance is vital for achieving peak standards in quality, efficiency and sustainability. Automation and digitization streamline functions and optimize processes, bolstering the value chain’s reliability and productivity. Integrated inline quality assurance is vital for achieving peak standards in quality, efficiency and sustainability. Automation and digitization streamline functions and optimize processes, bolstering the value chain’s reliability and productivity.

Perfecting your performance:
With BST, print providers experience outcome-driven, modular quality assurance to optimize production efficiency. Decreased rejects, higher production speeds, increased production speeds, and improved cost-effectiveness: as a prominent supplier of quality assurance systems for web processing industries, we understand your priorities.
The BST iPQ-Center enhances production efficiency and result quality in a sustainable manner, embodying its added value in its name. As a premium quality assurance system for the printing industry, the iPQ-Center doesn’t target individual stages but the entirety of the printing process. Our modular product line intelligently integrates, among other Systems for …

**Increased productivity.**

**Enhanced sustainability. Greater precision.**

Path observation (iPQ-View), 100 % inspection (iPQ-Check), Spectral measurement (iPQ-Spectral) and also provides additional opportunities for enhancing prepress and postpress through the SMARTData connection.

**Your advantage:**
Functionalities that used to operate separately are now centrally managed through the iPQ-Center. You can customize your quality monitoring modules according to the modular principle. Achieve intelligent quality assurance tailored to your needs.

**Designed for you:**
We have perfectly adapted the features of the iPQ Center to the requirements of the web processing industries.

**Compelling factors:** The iPQ-Center establishes the foundation to …

… Improve and document quality, Reduce scrap, Increase process and plant efficiency while reducing plant and production costs.

**Modular system design**

- **Web viewing:** BST iPQ-View
- **100 % print image inspection:** BST iPQ-Check
- **Spectral inline color measurement:** BST iPQ-Spectral
- **SMARTData connection for prepress and postpress processing**
Elevated Standard of Quality Assurance

Intelligent Integration – Distinct Design

Our product line’s modular design ensures maximum flexibility. With the iPQ Center, quality management is streamlined, enhancing print results. This adaptability caters to present and future needs, including system expansion. Integration of once-separate functions minimizes time and cost, spanning hardware acquisition to simplified operation through a single monitor.

Quality management with the iPQ-Center

Options for print results in perfection.

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Quality management with the iPQ-Center

Options for print results in perfection.
Good reasons for a strong system

BST iPQ-Center – Your Advantages:

- **integrated functions**
  web inspection, 100% inspection, spectral measurement and other functions in one operating system

- **modular structure**
  for individual system selection and future-expandability assurance

- **central control**
  of once-autonomous powerful systems with unified function access

- **improved clarity**
  through a uniform & intuitive user-interface for all systems

- **comfortable operation**
  short set-up times and automatic control of the components

- **optimized workflow**
  with BST SMARTData as software Basis for system and sensor integration (more: p. 20)

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Our modules. Your decision.

We configure the iPQ-Center to align perfectly with your needs. **Explore our modules on the next pages or contact us directly:**

**T +49 521 40070-0**
With BST iPQ-View, you maintain complete oversight throughout the print process. Our powerful digital web monitoring tool delivers high-quality print image previews. This empowers your operator to make informed decisions for optical quality assurance with confidence. Benefit from increased production speed and consistently superior print quality every time.

BST iPQ-View – Your Advantages:
» First-class image quality ensures confident decision making
» Fast commissioning (plug and play)
» Compact design
» Intuitive operation via gesture control
» Flexible expandability - modulares system

» Less waste due to shortened response times
» High economic efficiency
» Enhanced result quality - increased sustainability and greater customer satisfaction
» Extensive standard functions and equipment options

BST iPQ-View
Digital Web Inspection: Ensuring Quality to the Finest Detail
BST iPQ-View

Standard Equipment and Functions

Camera equipment at choice
» Industrial-grade and high-resolution 1-chip or 3-chip digital cameras for reliable first-class image quality
» Various optical zoom options for field of view adjustment without compromising quality
» Electromotor-driven crosshead for high-precision camera positioning

High power flash
» Ensuring consistent and optimal print area illumination
» Compatible with common materials

Intuitive user interface
» 16:9 multi-touch monitor
» Simple handling
» Modern design

Sharp image reproduction
» Low-reflection 23-inch TFT-Operating monitor (16:9)
» True color live displays

Clear print format preview
» Camera scan of the entire print format
» Programmable camera positions for detailed view

Efficient automatic benefit system
» Transfer of stored positions of the print formats
» Different patterns for approach of the benefit selectable

Convenient automatic functions
» Definition of order-specific automatic runs as any sequence of stored positions and dwell times

Responsive remote maintenance
» For simple, immediate fault diagnosis

Selectable split screen function
» Display and directly compare live images with reference images (approved patterns) for additional live images from a second camera simultaneously: screen display in horizontal or vertical division

Individual scan mode
» Full print format monitoring
» Customizable step widths
» Minimum setup time

Position memory
» User-defined storage of positions including zoom, iris and flash settings
» Position representations as miniaturbild
» Easy selection of positions with a tap of the finger
» Assignment of monitoring tasks such as optional barcode checking or color measurement

The iPQ-View split-screen function allows reliable and fast quality assessment by comparing the live image and the reference image.

All stored camera positions are clearly displayed in the system's position memory.
BST iPQ-View

Customized Options for Hardware and Software

With our extensive portfolio of hardware and software options, you can flexibly and uniquely expand iPQ-View’s performance profile.

**Hardware options:**
- **Additional monitor**
  - 23 inch TFT monitor
  - 23 inch monitor (color corrected)
  - 43 inch TFT monitor
  - 55 inch TFT monitor

**Housing and operating options**
- Ergonomic control panel integrating the processing unit and all electrical components
- Joystick as operating alternative (also for remote control of the camera)
- Monitor cable extensions > 5 m

**Lighting options**
- Shadow reducing background plate
- Homogeneous backside illumination
- Special flashes for: Cold seal, varnish, UV, fluorescent inks, holograms, embossing, front-to-back register comparison (power flash) and shadow-free illumination of the print on transparent materials

**Second matrix camera**
- Reduction of response times
- Backside monitoring
- Parallel operation of visual inspection and automatic defect detection, barcode inspection or inline color measurement

**Options for second traversable camera**
- 1-chip 10x zoom
- 1-chip 16x zoom
- 3-chip 16x zoom
- 3-chip HD camera 16x zoom

**Software options:**
- **Screenshot gallery**
  - Remote monitoring of production
  - Store and capture up to 50 images per job
  - Access via your corporate network - anytime and from anywhere

**Barcode check**
- Verification of all common oneand two-dimensional codes (e.g. QR codes)
- Reliable detection of the slightest deviations
- Quality assurance in accordance with ISO 15416 and ISO 15420
- Real-time classification and control of the status light for an optimal overview

**Digimarc™ testing**
- Visualization of areas in which the code is printed
- Visualization of the code content

With the screenshot gallery function, you can keep an eye on your production at any time and from anywhere.

The optional Haze Guard makes color haze visible on transparent material (left: normal view, right: view with activated Haze Guard).
**Spot inspection**
» Entry into automated print image inspection
» Comparison of current print with automatically stored reference image - reliable detection, display and logging of errors
» Optimized image stabilization (Image Lock)
» Improvement of image stability already during setup

**Display of weak contrasts (Haze Guard)**
» Even the slightest contrasts are made visible by powerful special flashes
» Visualization of hard-to-detect defects such as color fogging and missing varnish
» Display of improved contrast views at the touch of a button

**Relative color measurement (Color Monitoring)**
» Detection of color deviations in comparison with predefined color values
» Freely selectable measuring points

**Semi-automatic CI register control (Smart Register)**
» Fast and precise support for register setting in case of machine downtime
» Assignment of the stationary color and all other colors to printing units via the monitor
» No additional register marks
» Fully automatic register insertion at machine start

**More options**
» Error log (Event Logger, more: p. 20)
» Status display error messages
### BST iPQ-View

#### Technical Data at a Glance

### Application area

<table>
<thead>
<tr>
<th><strong>Printing method</strong></th>
<th>Gravure printing, flexo printing, web offset printing, digital printing, screen printing, converting machines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Materials</strong></td>
<td>Paper, aluminum, plastic film (transparent, translucent, opaque, reflective)</td>
</tr>
</tbody>
</table>

### System Performance

<table>
<thead>
<tr>
<th><strong>Max. Web speed</strong></th>
<th>1.200 m/min</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. Web width</strong></td>
<td>2.850 mm, wider webs on request</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>0-40 °C (higher temperatures possible with air conditioning unit)</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>10-90% (non-condensed)</td>
</tr>
</tbody>
</table>

### Camera

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>1-chip, 3-chip or 3-chip HD camera</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lens</strong></td>
<td>10x zoom, max. FOV 175 x 140 / 16x zoom, max. FOV 220 x 176 HD 16x zoom FOV 220 x 148 or FOV 330 x 228</td>
</tr>
<tr>
<td><strong>Quantity cameras</strong></td>
<td>1-2 (depending on the application)</td>
</tr>
<tr>
<td><strong>Camera resolution</strong></td>
<td>1280 x 1024 pixel, 3x 1280 x 1024 pixel or HD 3x 1600 x 1200 pixel</td>
</tr>
<tr>
<td><strong>Max. Image resolution</strong></td>
<td>0,012 mm/pixel</td>
</tr>
<tr>
<td><strong>Traverse</strong></td>
<td>motorized, speed up to 250 mm/s</td>
</tr>
</tbody>
</table>

### Lighting options

| **Type** | Main illumination, back illumination*, coating flash*, UV flash*, illumination for embossing*, hologram flash*, power flash for register comparison front to back* |

### Operating monitor

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>23 inch TFT multitouch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resolution</strong></td>
<td>1920 x 1080 pixel</td>
</tr>
<tr>
<td><strong>Signal input</strong></td>
<td>DVI</td>
</tr>
</tbody>
</table>

### Supply voltage

<table>
<thead>
<tr>
<th><strong>Voltage</strong></th>
<th>115 / 230 V AC / 50-60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current consumption</strong></td>
<td>application-dependent</td>
</tr>
<tr>
<td><strong>Fuse</strong></td>
<td>6 A</td>
</tr>
</tbody>
</table>

### Inputs / Outputs

<table>
<thead>
<tr>
<th><strong>Input / Output</strong></th>
<th>Alarm signal (error, warning, good) / roll change</th>
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</thead>
<tbody>
<tr>
<td><strong>Voltage</strong></td>
<td>24 V DC</td>
</tr>
<tr>
<td><strong>Input current / max. output current</strong></td>
<td>7 mA / 100 mA per output, short-circuit protected</td>
</tr>
</tbody>
</table>

*optional
BST iPQ-Check

100 % Inspection: Delivering Exceptional Results Every Time

Sustainably improve print quality: BST iPQ-Check combines reliable 100% print image inspection with powerful web monitoring across the entire print format.

Your advantage: Errors can be detected in the initial print image, enabling prompt elimination of error sources.

Job changes can be carried out immediately at any time during the printing process. For maximum process efficiency, the system can be fully integrated into your digital workflow using SMARTData (see p. 20). Good to know: iPQ-Check not only reduces scrap and costs, but also makes a significant sustainability contribution.

BST iPQ-Check – Your Advantages:
» Complete quality control
» Reliable error detection
» Fast error correction
» Reliable inspection on all Materials
» Higher productivity through automated pressure monitoring
» Effective error prevention based on production protocols
» Intuitive operation
» Flexible expandability - modular system
» High economic efficiency
» Less waste - more sustainability and higher customer satisfaction
» Extensive standard functions and equipment options

Quality management with iPQ-Check

From prepress to postpress
BST iPQ-Check

Strong Performance is the Standard

High-speed image capture
» up to 16K RGB resolution
» Detailed image data for web widths up to 2,850 mm and machine speeds up to 1,000 m/min

Intuitive user interface
» 16:9 multitouch monitor
» Simple handling
» Modern design
» Setup times < 30 sec

Comfortable web monitoring functions
» Effective reduction of waste paper
» Increase in process reliability, e.g. by comparing live image and reference image (good pattern) on the split screen

Live view of the entire print image
» Visualization immediately after machine start
» Live view even with inspection activated
» High image resolution
» Zoom via gesture control
» Enhanced decision-making certainty during setup

Inspection on all materials
» Reliable inspection and brilliant images on all common materials
» Complete print image illumination via power LEDs
» Also for highly reflective materials and holograms
» More lighting option for transparent materials
» Special algorithms for materials with high flexibility such as PE, BOPP, OPP and LDPE

Flexible setting of sensitivities
» Intuitive masking functions for inspecting print image areas with different sensitivities
» Adjustable inspection level according to area relevance:
  » Thoroughly inspect critical areas, ignore unimportant areas
  » No false alarms

Responsive remote maintenance
» For simple, immediate fault diagnosis

iPQ-Check: User interface
1 Camera and image menu: direct access to main controls such as camera selection and settings
2 Live image
3 Print format preview
4 Display of the last error image
BST iPQ-Check

Customized Options for Hardware and Software

The extensive standard functions of iPQ-Check can be expanded by a multitude of valuable options.

Hardware options:

Additional monitor
- 23 inch TFT monitor
- 23 inch monitor (color corrected)
- 40 inch TFT monitor
- 55 inch TFT monitor

Housing and operating options
- Ergonomic control panel for integration of the processing unit and all other electrical components
- Joystick as operating alternative (also for remote control of the camera)
- Monitor cable extensions > 5 m

Lighting options
- Backlight for transparent materials
- Shadow reducing background plate

Software options:

Screenshot gallery
- Remote monitoring of production
- Store and capture up to 50 images per job

PDF Plate Auditor
- Compare PDF from prepress with plate in PDF Plate Auditor tab

Waste Indicator
- Pinpoint output of 24 V error signals, optionally for the entire web or track-related

Workflow solution
- Evaluation of defects and production quality according to harmonized criteria, at choice at central workstation or rewinder
- Time-saving rewinder control through error log, which precisely displays errors to be eliminated on the splice table placed

Relative color measurement (Color Monitoring)
- Detection of color deviations in comparison with predefined color values
- Freely selectable measuring points

Display of weak contrasts (Haze Guard)
- Even the slightest contrasts are made visible by powerful special flashes
- Visualization of hard-to-detect defects such as color fogging and missing varnish
- Display of improved contrast views at the touch of a button

Intelligent error classification
- Distinction between process-related and sporadic errors
- Support of the operator during error analysis
- Option for suppression of sporadic errors

Error log (Event Logger)
- Track-related logging of all relevant defects including defect classes, running meter positions and defect images as well as reference images
- For front and back inspection, displaying errors on both sides
- Complete documentation as proof of quality and for process optimization
- SMARTData API and XML formats enable exchange with other applications
- Barcode reading enables the verification of all common one and two-dimensional codes (e.g. QR codes).
- Digimarc™ visualizes the areas and the contents of different codes
- Repeat Length Monitor

Clear error displays
- Error images overlay live images
- Error area is saved in print format preview
- Quality assurance view: documentation of each defect with first and last defect image as well as image of the most severe defect
- Quick and informed decisions to avoid waste

More options
- Separate print format preview
- Status display error messages
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<td>paper, plastic film (PE, BOPP, OPP, LDPE and more; transparent, translucent, opaque, reflective), aluminum</td>
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<td>2,850 mm</td>
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<tr>
<td>Ambient temperature</td>
<td>0-42 °C</td>
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<tr>
<td>Min. error size</td>
<td>0,01 mm² at 3% gray value deviation</td>
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### Camera

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<tr>
<th>Type</th>
<th>RGB color line scan camera</th>
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<tbody>
<tr>
<td>Quantity</td>
<td>1-4</td>
</tr>
<tr>
<td>System resolution</td>
<td>3*16K RGB</td>
</tr>
<tr>
<td>Camera resolution</td>
<td>3 x 4096 pixel</td>
</tr>
<tr>
<td>Max. Image resolution</td>
<td>0,1 mm/pixel</td>
</tr>
<tr>
<td>Interface</td>
<td>Camera Link with 85 MHz</td>
</tr>
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### Lighting options

<table>
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<tr>
<th>Type</th>
<th>LED</th>
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<tr>
<td>Type</td>
<td>Main illumination for all opaque materials incl. reflective materials, backlight for transparent materials*</td>
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<td>7 mA / 100 mA per output, short-circuit protected</td>
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BST iPQ-Spectral

Inline Spectral Measurement: Ensuring Brilliant & Precise Colors

With BST iPQ-Spectral, you reliably comply with specified color standards and impress your customers with impressively brilliant color results. Our system for fully automatic inline spectral measurement records the color data already within the press and thus eliminates the need for color matching after reel changes. This enables you to shorten production cycles, optimize workflows, and score points with perfect print products even for color-sensitive projects.

BST iPQ-Spectral – Your Advantages:
» Early detection of color deviations
» Shorter response times for color corrections
» Complete documentation of color quality
» Effective error prevention based on production protocols
» Effective process optimization
» Intuitive operation
» Reduced waste from the set-up stage

» Immediate provision of color values from the inline process for color management and quality assurance
» Reduced waste, more sustainability and greater customer satisfaction
» Extensive standard functions and equipment options

Inline color measurement with iPQ-Spectral

Inline color measurement for your continuous improvement process
The world’s only inline spectral measurement system that works within the XRGA standard

Stable measuring conditions for reliable analyses
» Conformity with ISO 13655:2009
» Absolute color measurement with respect to 45°/0° measuring geometry
» Standard-compliant measurement on white or black specially coated rollers
» optional: standard-compliant measurement on ceramic-coated, traversing backing wheel, where measurements can be made on black and/or white as required (option for opacity measurement)
» Cyclic calibration to white-nortimes to maintain the highest measurement accuracy
» optional: automatic compensation of temperature influences on the sensor

Even in its fundamental version, iPQ-Spectral offers an impressive range of functions that consistently demonstrate their value in daily web processing.

High-resolution spectral photometer
» Spectral measuring range: 380 to 730 nm
» Result resolution: 10 nm
» Minimum measuring field size 5 x 5 mm at any position in the print image
» Maximum measuring frequency: 30 measurements/sec
» Solid and half-tone colors measurable
» Maximum web speed: 1.000 m/min
» Real-time measurements as a basis for fast and accurate correction of color deviations

Highest data compatibility with offline measuring devices
» Development partnership with X-Rite®, the market leader for offline measurement systems
» Ideal comparability with offline handheld devices due to XRGA standard
» The world’s only inline spectral measurement system that works within the XRGA standard

Intuitive menu structure
» Simple operation
» Short training periods
» Optimized function access for short reaction times

Definition of the measurement specifications
» Assignment of color setpoints manually, by taking over measured values or by reading in CxF3 files.
» Measurement in color bars or in homogeneous color areas within the print image

Interface to X-Rite® color management systems
» Communication via CxF3 or Color-Cert® interface
» Transfer of current color values via CxF3 or CGATS.17
» Support in error analysis and recommendations for action

BST iPQ-Spectral
Effectively Safeguard Color Quality
Output formats of the color information
» CIE L*a*b* and all other relevant color value formats such as Munsell color system [L, C, h].
» Result output of spectral data as well as color valences with respect to all common standard illuminants [D50, D65, A, C etc.] and standard observer types. [2°, 10°]
» Density, color distance formulas DEab, DE2000, DEcmc

Measurement in solid fields
» Provision of all information for formulation in the color kitchen
» For perfect matching with reference shades and reduction of machine stoppages
» For precise measurement of ink density

Measurement of semitone fields
» For objective assessment of other machine parameters such as printing pressure and squeegee condition
» Display of dot gain (dot gain)

Measurement in the range of overpressure
» Information about color interplay

Clear error displays
» quick assessment of the color quality
» Representation in L*a*b*- space
» Display of reference value and Measured value course
» History of measurement results enables avoidance of maculature

iPQ-Spectral: Detailed view of color measurement including group selection and summary, group and individual position evaluation

iPQ-Spectral: Dialog box for saving a color position in the image
iPQ-Spectral offers versatile use and can be seamlessly integrated with other iPQ-Center modules. The system’s standard functions can be supplemented, such as through the integration of a spot camera.

**Integrable spot camera**
- Enables automatic plausibility check and fine positioning of the spectral measuring head in difficult web running conditions and critical materials
- Direct feedback to machine operators on the quality and validity of the measurements.
- Increase in measurement reliability
### BST iPQ-Spectral

#### Technical Data at a Glance

### Application area

<table>
<thead>
<tr>
<th>Printing method</th>
<th>all types of web presses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>all types of materials (foil, paper and metallized surfaces on request)</td>
</tr>
</tbody>
</table>

### System Performance

<table>
<thead>
<tr>
<th>Max. Web speed</th>
<th>1.000 m/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Web width</td>
<td>2.500 mm, wider webs on request</td>
</tr>
</tbody>
</table>

### Measuring sensor

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>Spectrophotometer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectral range</td>
<td>380 - 730 nm</td>
</tr>
<tr>
<td>Result resolution</td>
<td>10 nm steps</td>
</tr>
<tr>
<td>Light source</td>
<td>Xenon flash</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>Typically &lt;1 Eab (D50, 2°) to an X-Rite® XRGA-compliant gauge</td>
</tr>
<tr>
<td>Short-term repeatability</td>
<td>Typ. &lt;0,1 E<em>CI</em>LAB (50, 2°) on white</td>
</tr>
<tr>
<td>Calibration</td>
<td>automatic, calibration to white normal</td>
</tr>
<tr>
<td>Measuring field size</td>
<td>min. 5 x 5 mm, depending on the material dynamics in the pressure control strip or on homogeneous surfaces</td>
</tr>
</tbody>
</table>

### Measuring conditions

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement background</td>
<td>White or black according to ISO 13655:2009</td>
</tr>
<tr>
<td>Measuring distance</td>
<td>20 mm</td>
</tr>
<tr>
<td>Measuring geometry</td>
<td>45° / 0°, directional</td>
</tr>
</tbody>
</table>

### Measurement results

<table>
<thead>
<tr>
<th>Output color values</th>
<th>CIE L<em>a</em>b<em>C</em>H*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output density values</td>
<td>D, optionally relative or absolute, status E/T/A/I</td>
</tr>
<tr>
<td>Color distances</td>
<td>Delta E Lab, Delta E CMC, Delta E 2000, Delta Euv</td>
</tr>
<tr>
<td>Density distances</td>
<td>D</td>
</tr>
<tr>
<td>Types of lighting</td>
<td>D50, D65, A, C, D75,F2, F7, F11</td>
</tr>
<tr>
<td>Standard Observer</td>
<td>2°, 10°</td>
</tr>
<tr>
<td>Data export / import</td>
<td>CxF3 and CGATS.17</td>
</tr>
</tbody>
</table>
Would you like to oversee and centrally control complex web processes? BST SMARTData establishes the ideal foundation for the digitalization of your production.

Enhance your competitiveness and process efficiency: SMARTData management, featuring open interfaces, enables seamless integration of different systems and sensors, including those from other suppliers. Comprehensive quality documentation and analyses are supported in this way, as is the operation and optimization of production processes.

**BST SMARTData – Your Advantages:**

- Fast cross-system and cross-process data exchange
- Process-specific data evaluation
- Bidirectional quality assurance - digital product twinning
- Continuous, position-accurate data documentation along the entire value chain
- Less scrap - optimized results
- Simple integration - independent of the machine manufacturer
- High usability
- Improved overall effectiveness of the equipment
- Simple retrofit
- Basis for predictive maintenance from a single source
BST service is dedicated to perfecting your performance. Across the globe and around the clock. Partnered and on equal footing. In partnership and at eye level. From initial consultation, installation, commissioning and maintenance to spare parts procurement, modernization and retrofitting. Our experts are always available, collaborating with you on solutions that put you ahead of the competition.

Please contact us: We are happy to be there for you.

BST Service – Advantages for You:

- competent support throughout the entire product life cycle
- global service network
- more than 60 years of experience
- more than 100 responsive experienced service technicians worldwide
- result-driven support: on-site and via BST Helpdesk, our remote maintenance support
- minimized machine downtime
- improved productivity
- seamless process efficiency
- upon request: personalized service packages
Our service modules for your success:

**BST Service:**
*Always the Best Advice*

**BST Helpdesk**
- Problem analysis and resolution
- Support for system operation and spare parts requirements
- Reconfiguration of attachments

**Spare parts**
- Commissioning, product and application advice
- Troubleshooting, maintenance and repairs
- Recommendations for process optimization

**Maintenance**
- Fast spare parts supply and worldwide express shipping
- Extensive testing and individual parts configuration
- Long-term spare parts availability

**Repair**
- Modernizations made to measure
- Component and device replacement
- Plant upgrade for optimized quality and more efficiency

**Installation & commissioning**
- Expert support on site during commissioning
- Operator training by our service technicians
- Production support during first use

**Service agreements**
- Software updates bring new functions
- Regular maintenance by our service technicians ensures high availability
- Reliable budget planning

**Troubleshooting & optimization**
- Fast support from global service teams
- Helpdesk pre-screening to identify required spare parts
- Process-related optimizations can be identified

**Training**
- Training without production pressure
- Training at your site or in our training center
- Instructions for different materials can be worked out
Your advantages

Why BST Quality Assurance for the Printing Industry

BST provides more than just first-class products. As a strong partner for reliable quality, we’re dedicated to helping you impress your customers with flawless performance. Achieving higher performance? It’s the norm for us!

Reasons to choose BST:

- **safe quality** through maximum precision in the entire production process
- **less scrap** for high-end production, benefiting the environment as well
- **more efficient processes** through consistent digitization and high-precision inline quality assurance
- **greater sustainability** thanks to consistently superior products with extended lifespan
- **lower costs** through modular systems and more economical production
- **proactive development** with innovative products that take tomorrow’s challenges into account today

Your contact

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