

KOENIG & BAUER

Innovative Solutions to exceed Customer Expectations

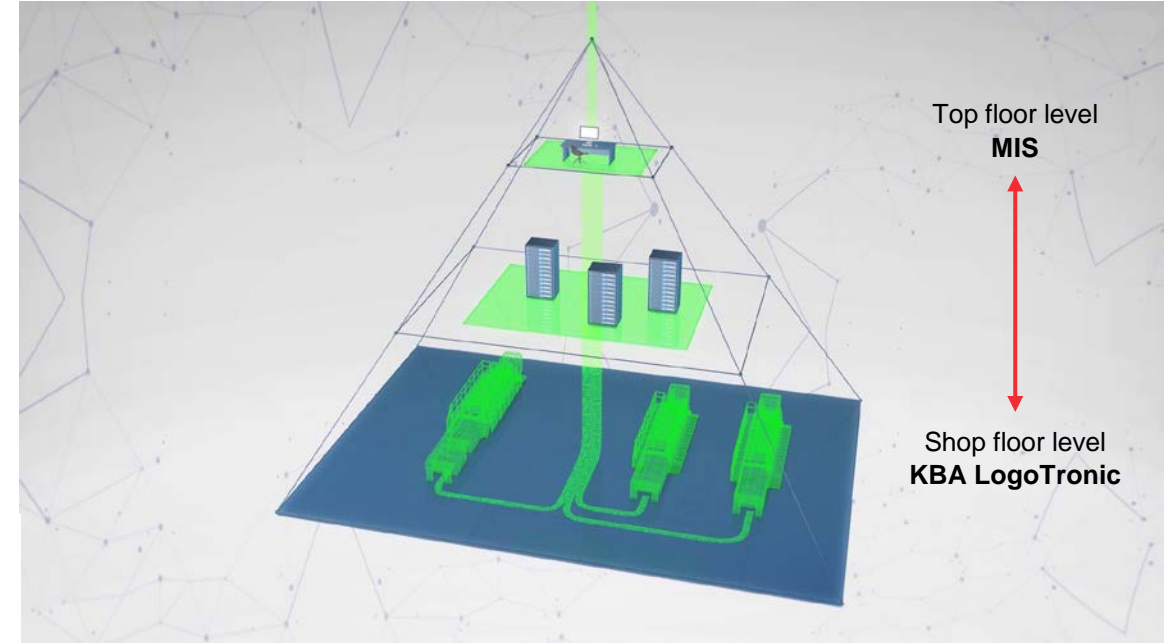
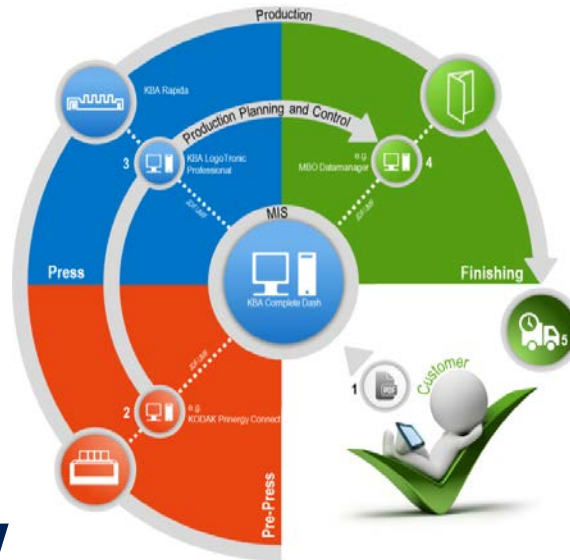
Sascha Fischer, Head of Product Management KBA-Sheetfed Solutions

we're on it.

Today's Closed-Loop Operation

- Together with a **CIP4/JDF-capable** MIS, the LogoTronic interfaces enable closed-loop JDF workflow between shop floor and top floor
- LogoTronic receives process data from the MIS and passes them on to the connected presses
- Press and production data are collected and sent back to the MIS in the form of JMF status messages
- Production becomes transparent – a decisive advantage both for the operator, the production manager and the controller

KBA Complete Production Workflow



- + Open architecture based on industry standard
- + Reduction of errors by automation & standardization of process
- + User-specific transfer of information to the key points in the process chain
- + Reducing the time for the non value-added processes
- + Avoidance of workflow inefficiencies overall

More Performance in Commercial and Label Printing

Automation

Simultaneous processes
and autonomous printing

< 2 min

Shortest make-ready
time in between jobs

≤ 50 sheets

Before good sheets start

Process

Automated processes
from pre- press to press
and post-press

AutoRun



AutoPrint



Printing Plates without Bending



Optimized Plate Changing

Medium format

Machine	Time previously	New time / time savings
FAPC		
RA106-6+L	2:28 min	1:44 min -30%
RA106-8SW4	4:00 min	3:08 min -22%
SPC		
RA106-8SW4	0:59 min	0:40 min -42% -62%

Available as of now and possible retrofit with ErgoTronic TT presses.

Optimized Plate Changing

Large format

Machine	Time previously	New time / time savings
FAPC		
RA145-6+L	3:20 min	2:18 min -26%
RA145-8SW4	5:48 min	4:20 min* -22%
SPC		
RA145-8SW4	1:40 min	0:51 min -49% -49%

Available as of now and possible retrofit with ErgoTronic TT presses.

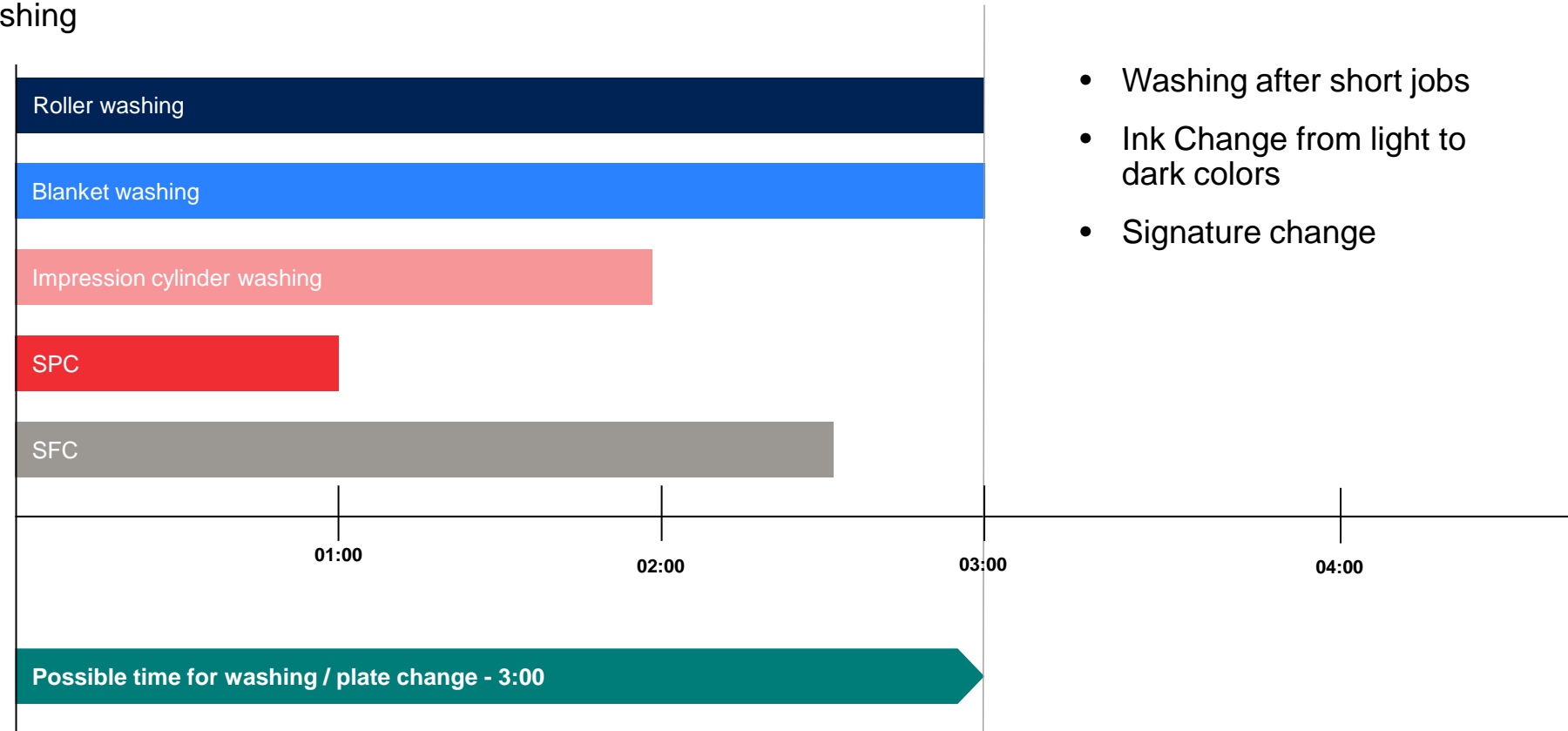
* Estimate, to be verified.

Optimized Plate Changing

Simultaneous processes

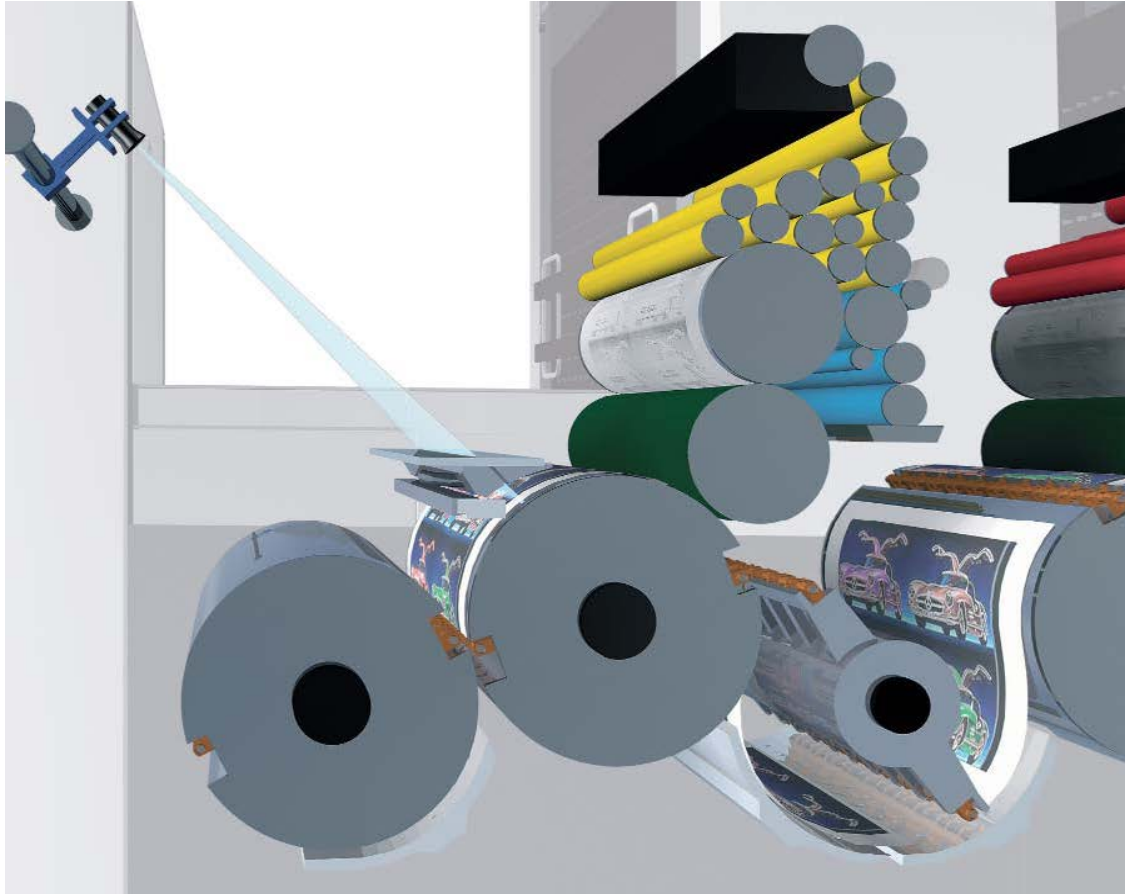
Roller Washing parallel to

- Blanket and Impression Cylinder Washing
- Plate Change with SPC
- Coating form change with SFC



QualiTronic ColorControl

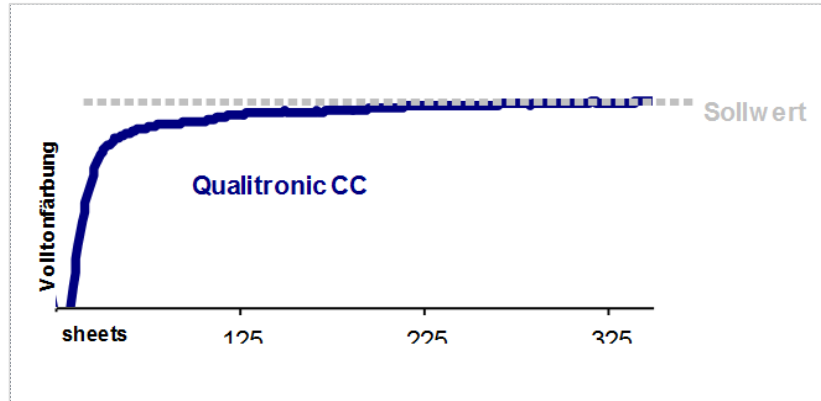
Key features



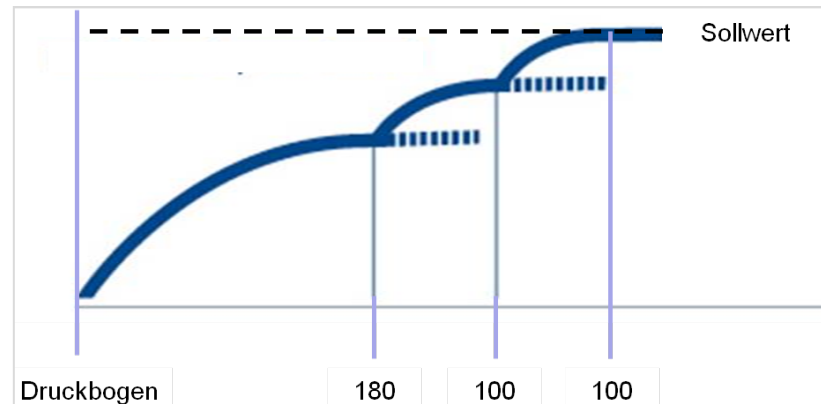
- **Fastest system on the market** in terms of speed of measuring and adjustment
- Best possible results by **measuring every single patch** on every sheet
- **Closed-loop color control** developed specifically for inline measurement
- **Implementation of Lab workflows** without increasing makeready times or waste
- Referencing enables ultimate flexibility and measurement accuracy
- Only solution on the market for a **minimal control strip height** of 3 mm (medium format)
- Common hardware permits combination with sheet inspection, also as a retrofit upgrade

QualiTronic ColorControl

Speed of color regulation



- Control developed specifically for inline measurement
- Continuously and extremely dynamic
- Very fast reactions to makeready adjustments, changes in production speed, modification of target densities, etc.



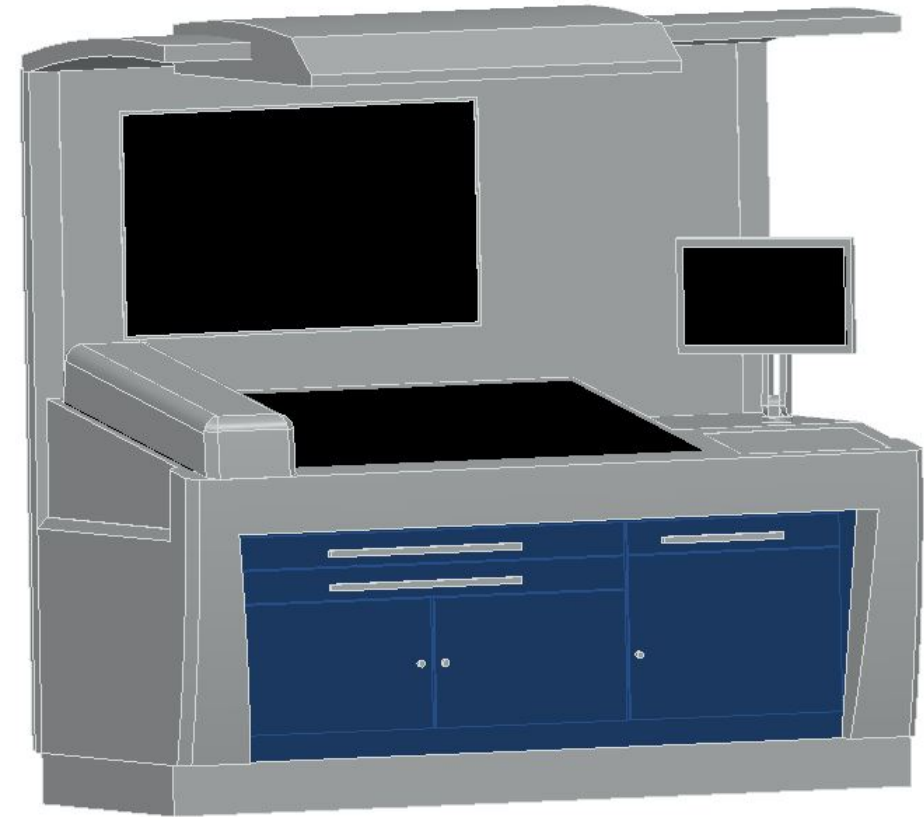
While others still measure, we are in control already!

Next Generation of QualiTronic ColorControl

Differences to the existing QualiTronic ColorControl:

- **New hardware platform**
- Elimination of the electrical cabinet
- Integration of all electrical components into the ErgoTronic desk
- **Integration of measuring technology operation in the user interface of the press**
- New control concept for the measurement technology based on the ErgoTronic Touchtronic
- **Autonomous setting of the color bar**
- Wall screen is a must

Available as of Q2 2018



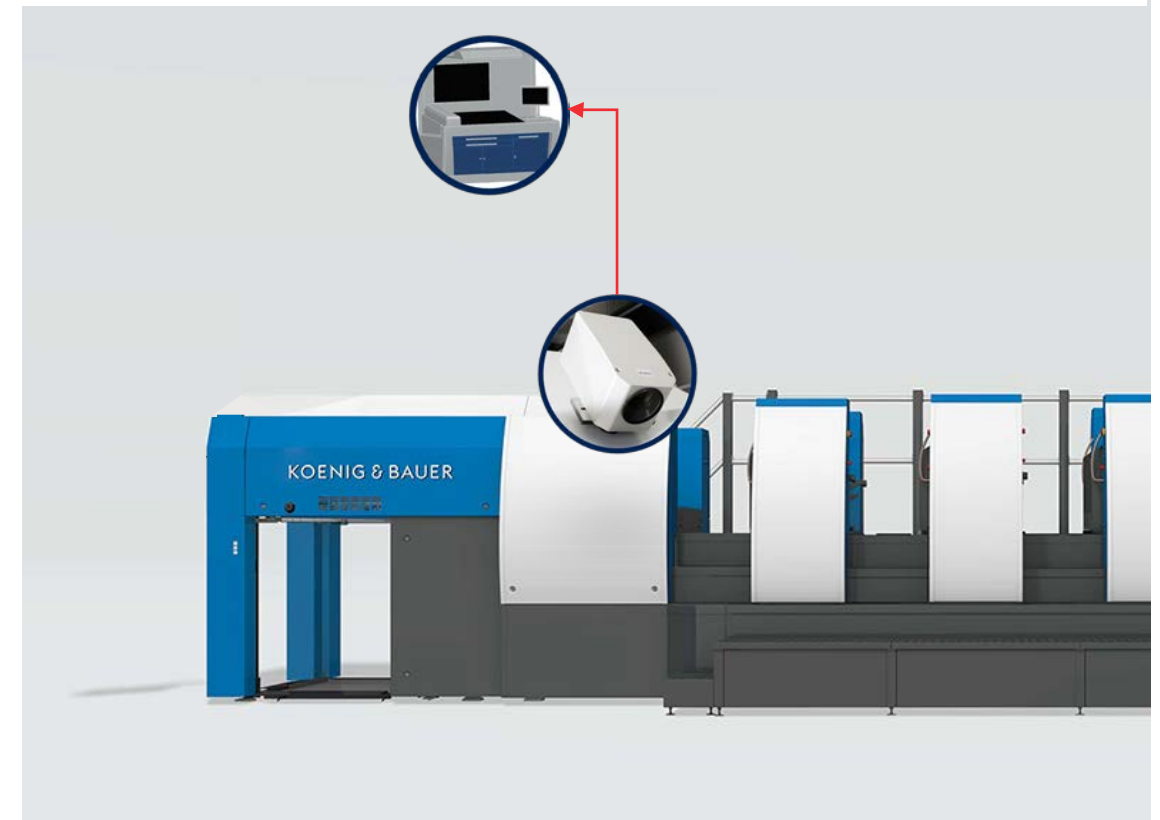
New Sheet Inspection

QualiTronic PrintCheck – option of QualiTronic ColorControl

- **Autonomous Learning** – no need for any operator intervention
- **Automatic parameterization** – no need to define parameter sets
- Only 10 sheets are necessary after the good sheet production is started for setup
- No need for a prepress connection
- **Resolution twice as high** as with QualiTronic Professional
- Same functionality like QualiTronic PDF HighRes
- Standardized parameter sets are pre-installed
- Detailed protocols with each failure are delivered with the job
- No need to teach in

Available as of Q2 2018

Print control immediately starting with the first good sheet



New Sheet Inspection

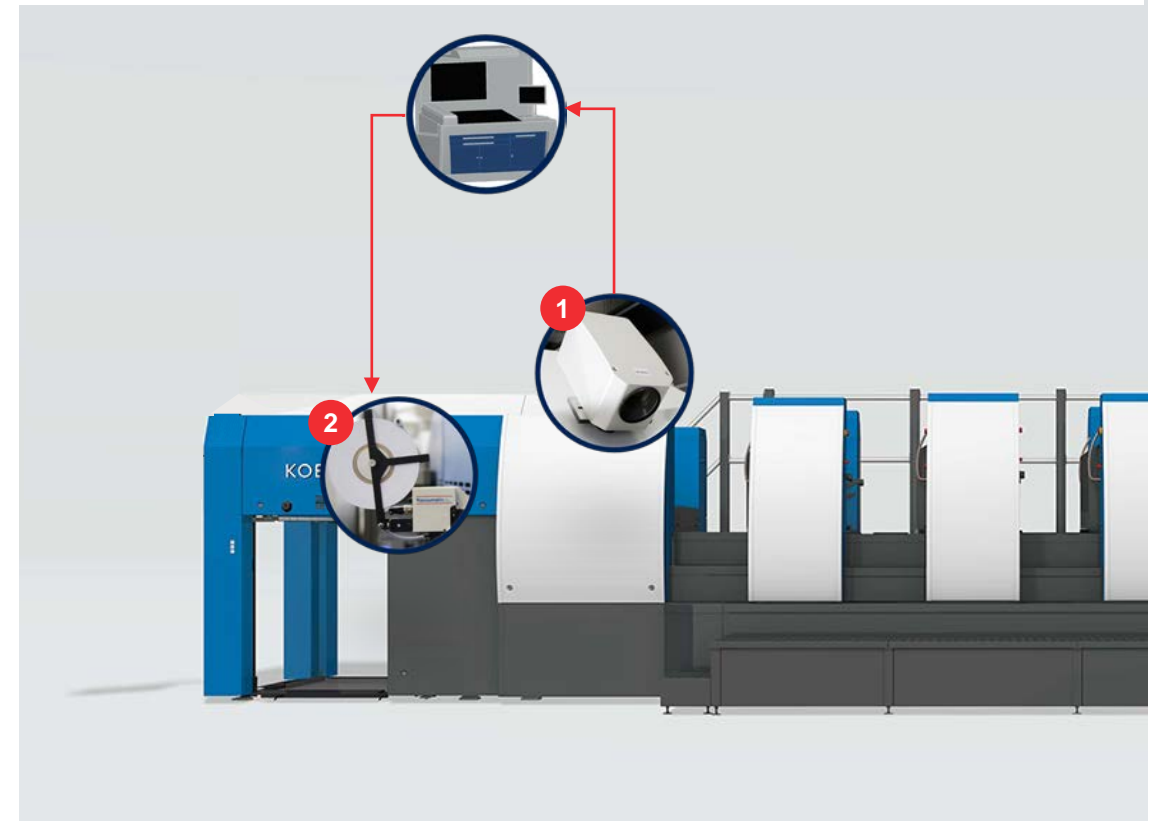
QualiTronic PDFCheck – option of QualiTronic ColorControl

1. Digital reference for PDF comparison
2. Printed sheet as reference for production monitoring

1 4k Color Camera

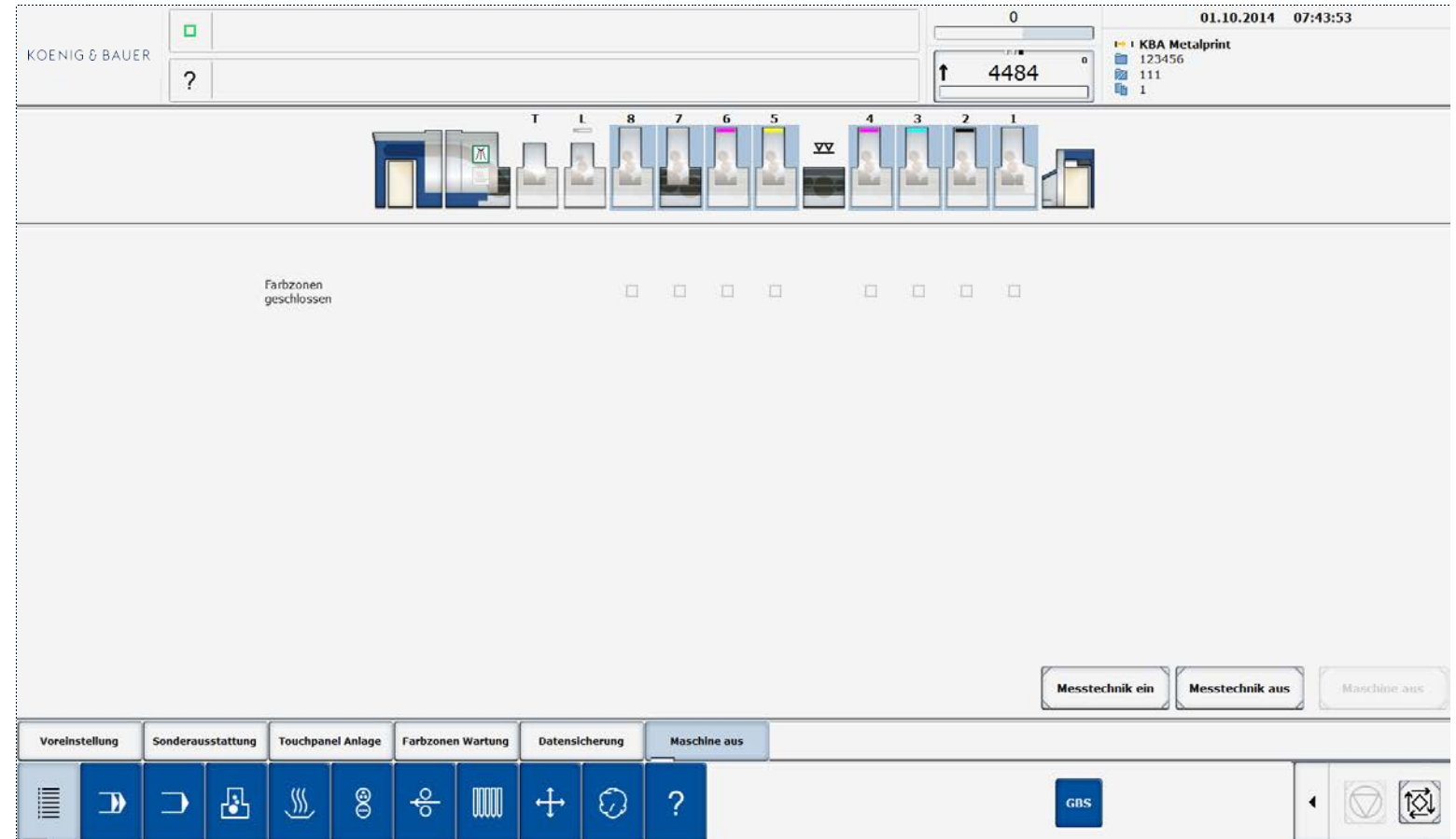
2 Tag inserter

Print control immediately starting with the first good sheet



ErgoTronic Console

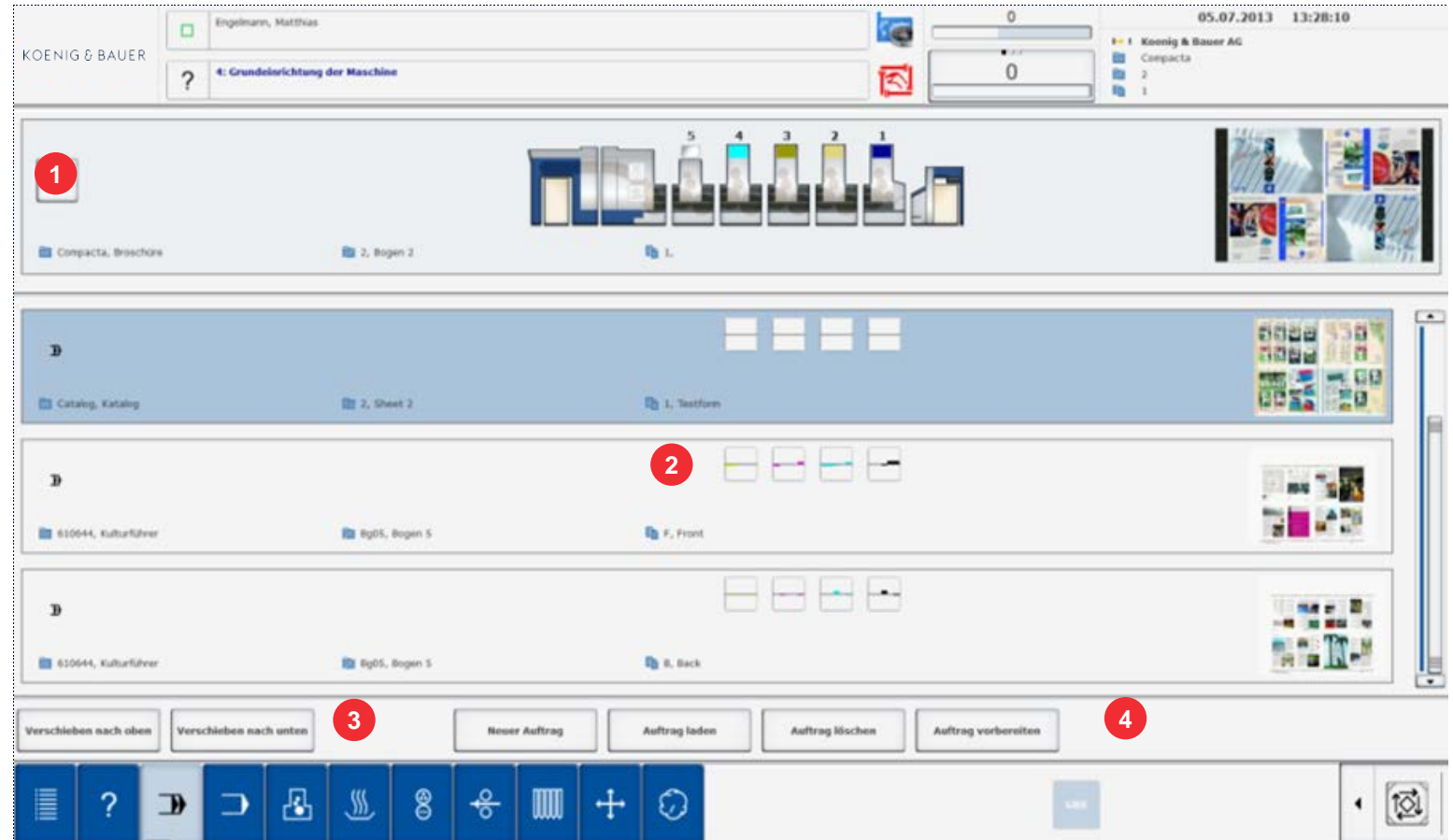
- **Intuitive and comprehensive graphical user interface**
- Cleanly designed and intuitive operating concept
- All functions can be selected with a maximum of two taps on the touchscreen buttons
- Larger monitor screen to display more information at a glance



ErgoTronic Console

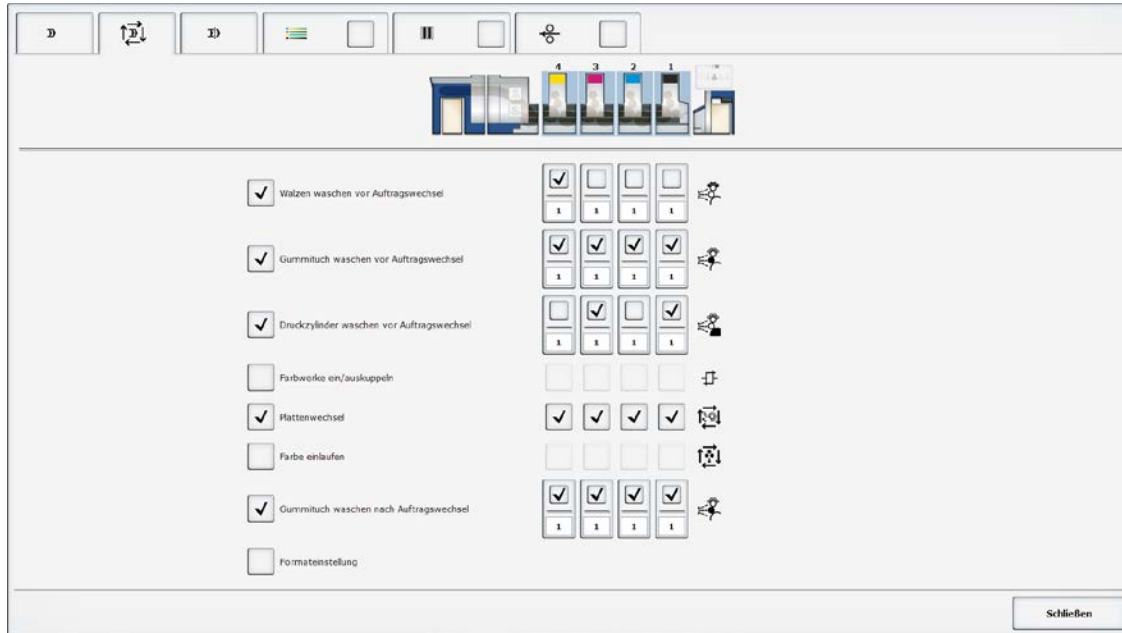
Job List

- 1 **Direct visualization of all planned jobs** including preview image from the CIP3 data
- 2 Information on the **ink coverage** of the individual jobs for the **optimum job sequence**
 - Minimized start-up waste
 - Minimized make-ready times
- 3 The **order of the jobs can be changed** at any time
- 4 **Job-specific settings** possible
 - Job data
 - Job specific ink data (Process & Pantone inks)
 - Pre-adjustment of ink zones and density
 - Substrate information (setting of air and format)



ErgoTronic AutoRun

Job Changeover Automation



Job Changeover Program

- All settings required for an automatic job change visible at a glance
- Faster job changeovers thanks to the clear and logical structure

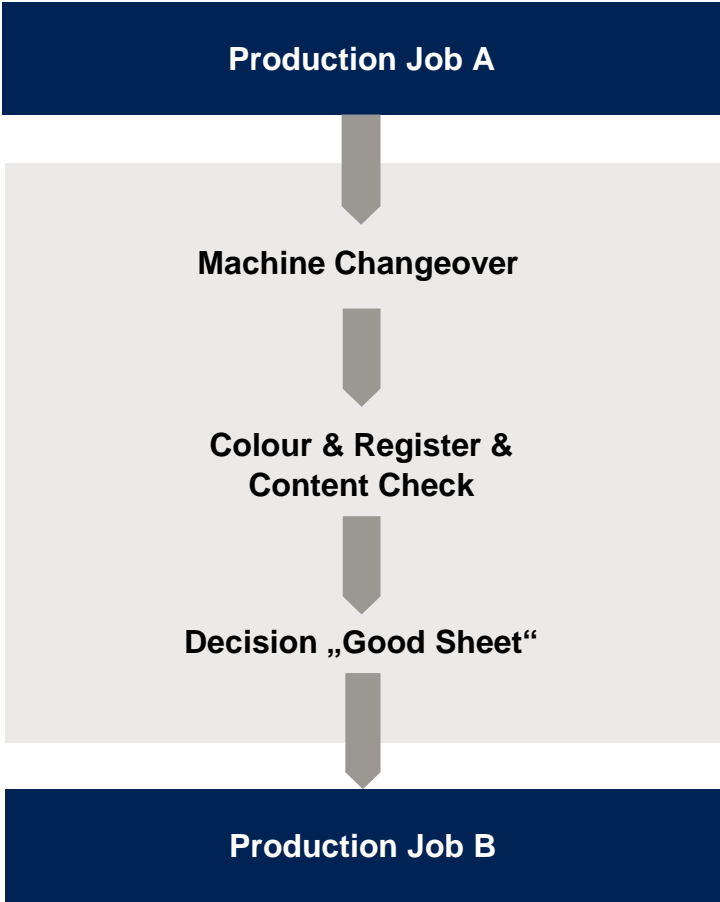
Job Changeover Automation

Autonomous processes:

- Automated start of makeready
- Automated return to production
- Automated ink/register settings

ErgoTronic AutoRun

Job Changeover Automation



Autonomous processes

Rapida in production		Configuration of makeready process*
Start makeready		Automated
Job changeover in progress		
Start production		Automated
In colour In register In content	QCC as Q1/2018 ICR planned PDFCheck Q1/2018	Automated
Rapida in production		

ErgoTronic AutoRun

For a fully automated pressroom

AutoRun

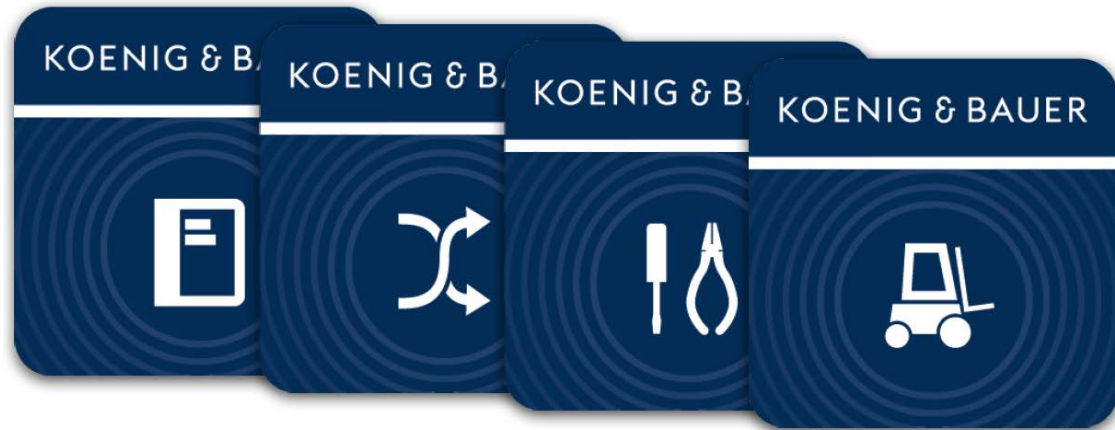


AutoPrint

- Fully automated workflow from Prepress to Press and Postpress
- Simultaneous processes and autonomous printing
- Shortest make-ready times in between jobs
- Minimum start-up sheets before good-sheet counter switched on

Rapida LiveApp

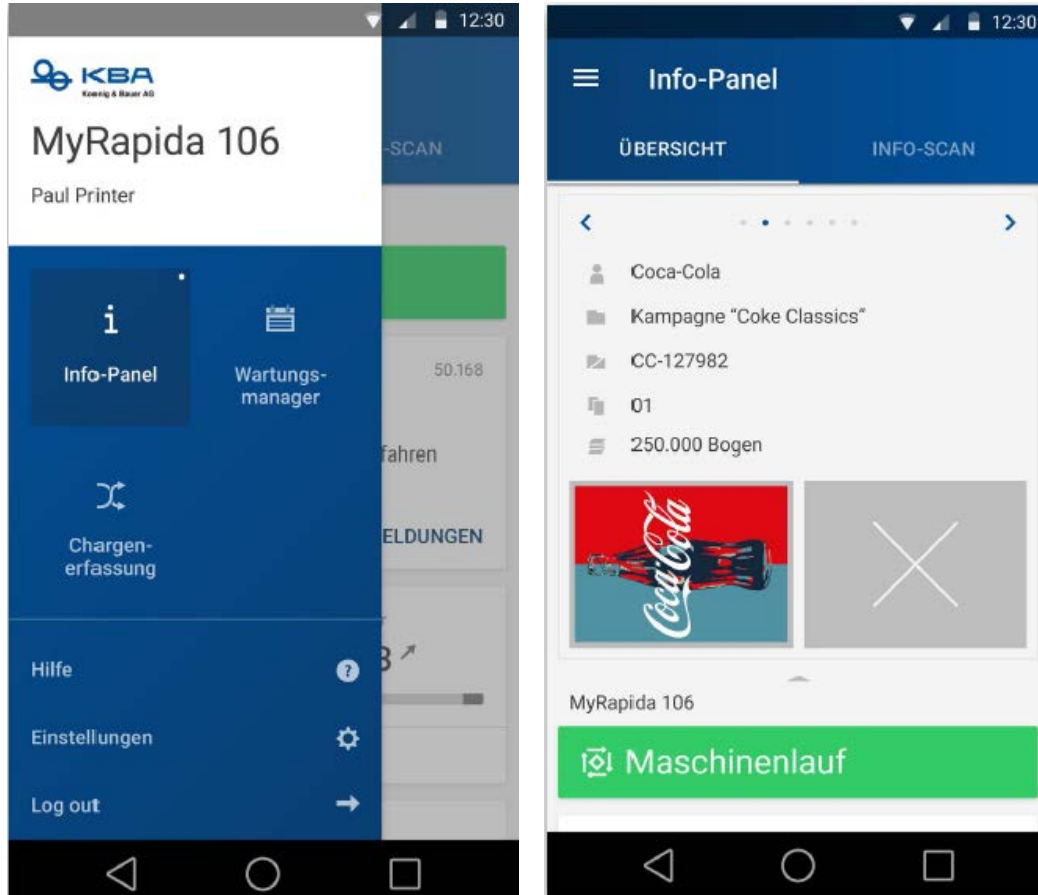
Extended production management



1. Info panel
2. Production App
3. Maintenance Manager
4. PressCall Mobile

Rapida LiveApp

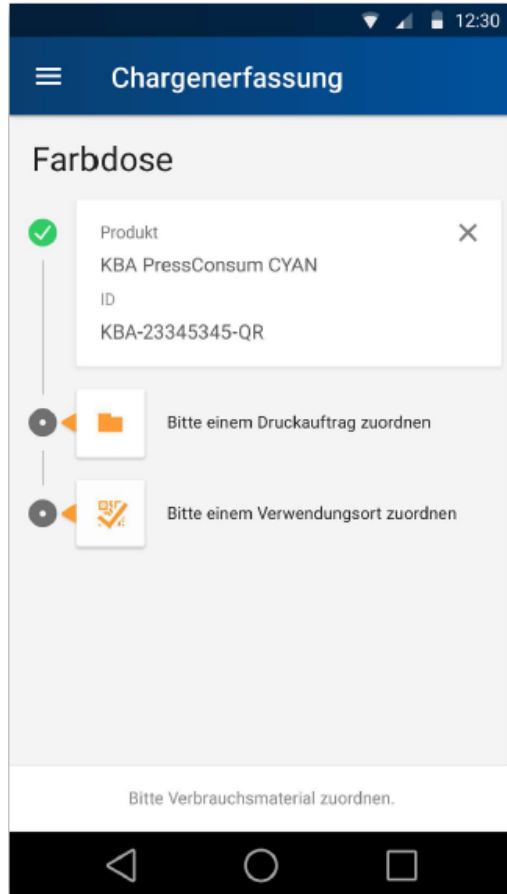
Benefits



- **Convenient** press operation, greater **transparency** and **faster reaction** in relevant situations
- The printer can trigger various **operating functions** and can keep a constant eye on all relevant aspects of the current production
- **Info Panel** with overview of key data on the subsequent jobs from the job list
 - Information on forthcoming jobs can be called up at any time
 - All relevant data are presented, including preview images
- The printer can call up all **relevant maintenance instructions** from the place at which the maintenance is to be performed

Rapida LiveApp

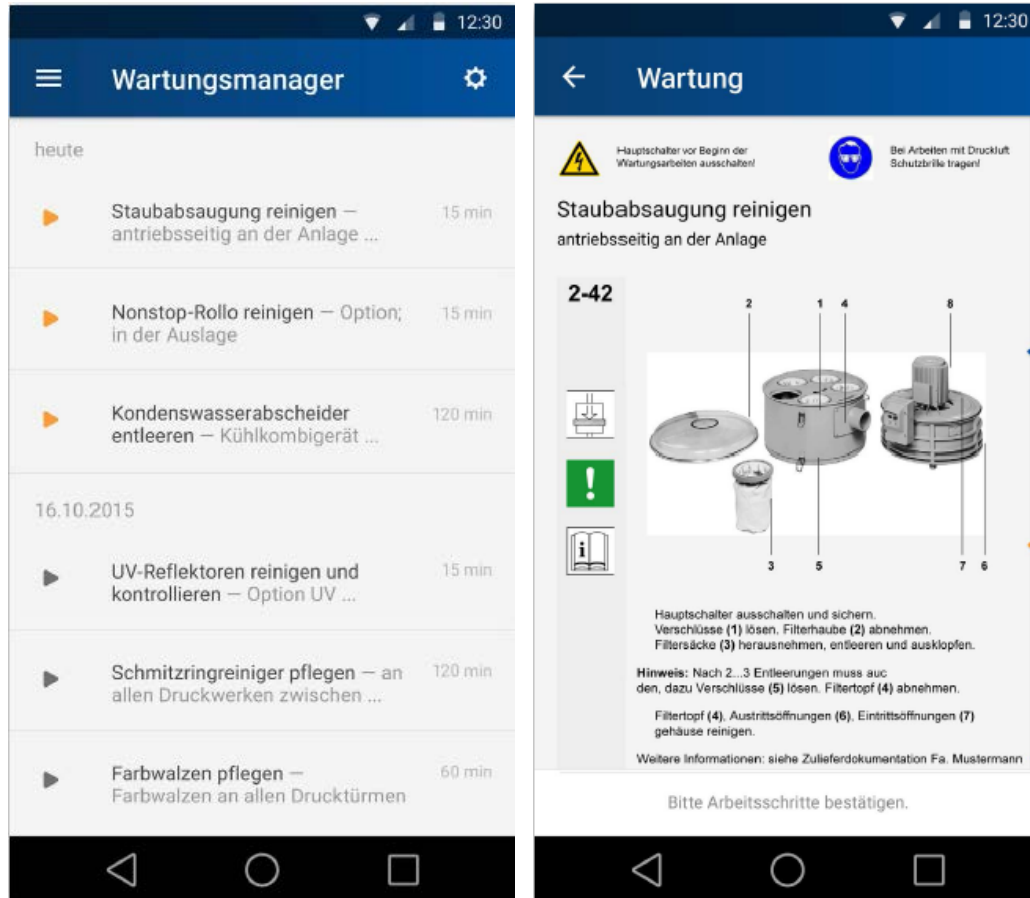
ProductionApp – Extended production management



- **NFC tags based data collection** of batch numbers
- Integration to a central database in our LogoTronic Professional
- The phone **automatically opens a process menu** to guide the user through the further steps
- Operating button is only required to scan in data
- **Automatic assignment to a job** and subsequently stored
- **Useful for:**
 - Stock Management
 - Consumption Monitor
 - Running Time of Material
- Suitable for all kind of processes and materials (powder, ink, blankets, etc.)
- **Available upon request**
- **Adaptation to specific workflow required**

Rapida LiveApp

Maintenance Manager

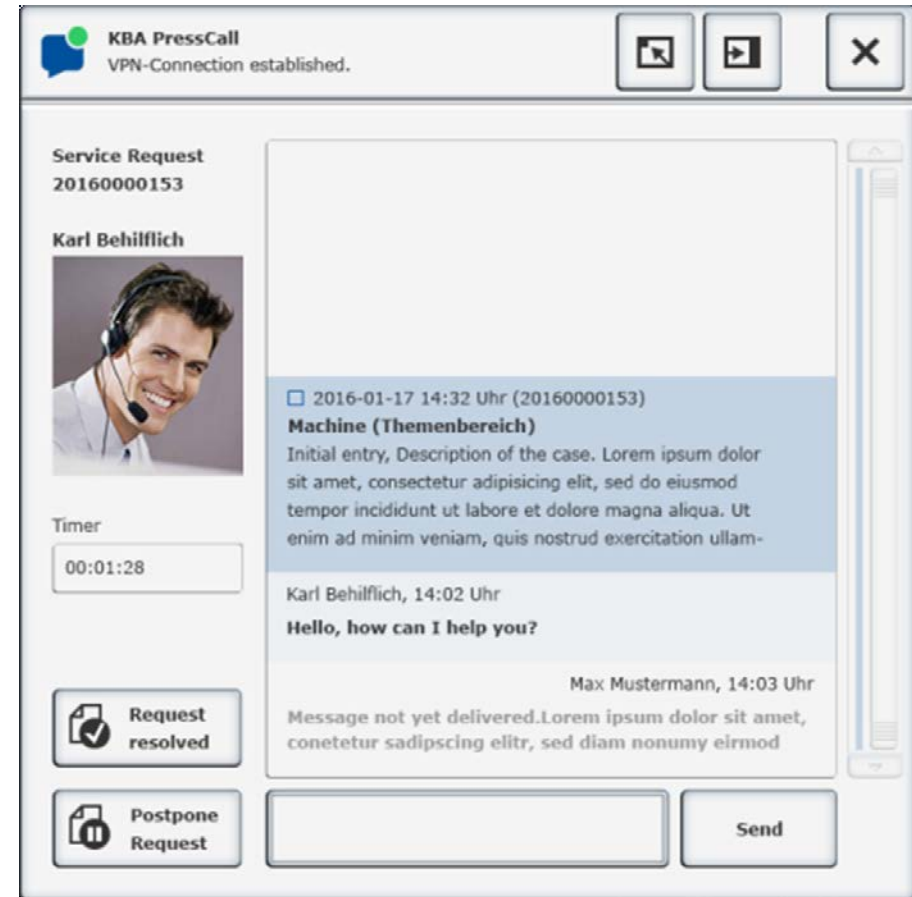


- Indication of pending maintenance tasks
- The printer can call up all necessary instructions on how to perform the maintenance at the press of a button
- Detailed illustrations of the press components requiring maintenance
- **Availability upon request and depending on format size**

PressCall

Automated error message directly from the press console

- Dialogue window on the control console is activated
 - Remote maintenance service is contacted automatically
 - All relevant data (logfiles) are transferred
 - Active feedback from KBA-Sheetfed
-
- Free within warranty
 - **Part of Service contract**



PressCall Mobile

Via Rapida LiveApp

- PressCall part of the Rapida LiveApp suite
 - **Service requests can be triggered via smart phone** synchronized with PressCall software on console
 - Talk, text or exchange of pictures to solve problems faster and quickly get answers
 - **Interactive video chatting** available soon
 - Mutually clear understanding of problem given prior service visit and spare parts dispatch
-
- **Option with Remote Service in Q1/2018**
 - **Available for Android mobile devices**



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