



UNFOLD YOUR POTENTIAL

Next Level of Push to Stop



RAINER WOLF

Head Product Management Sheetfed
Heidelberg Druckmaschinen AG



Unfold your Potential

Focus on the „yellow bar“

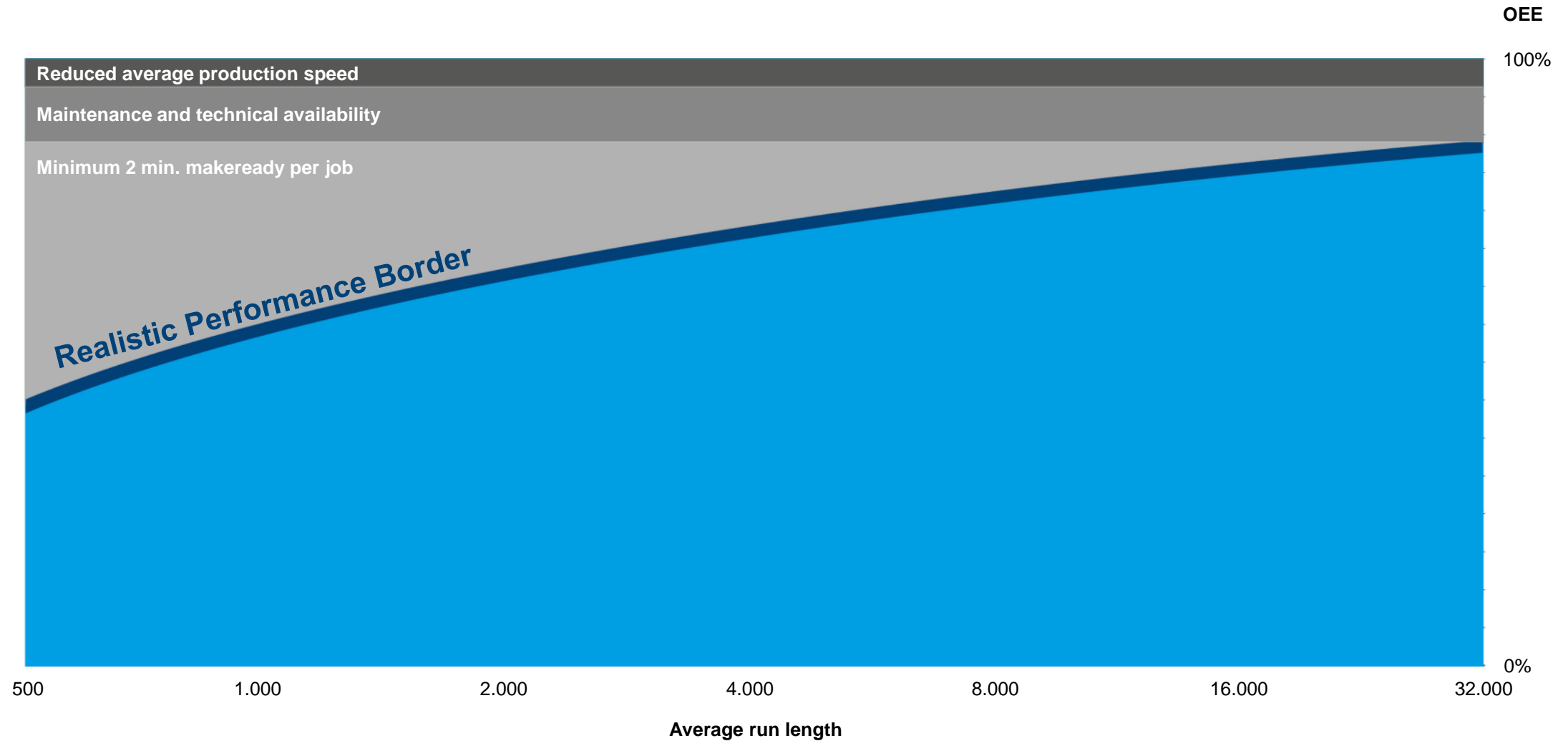


Unfold your
employees
potential

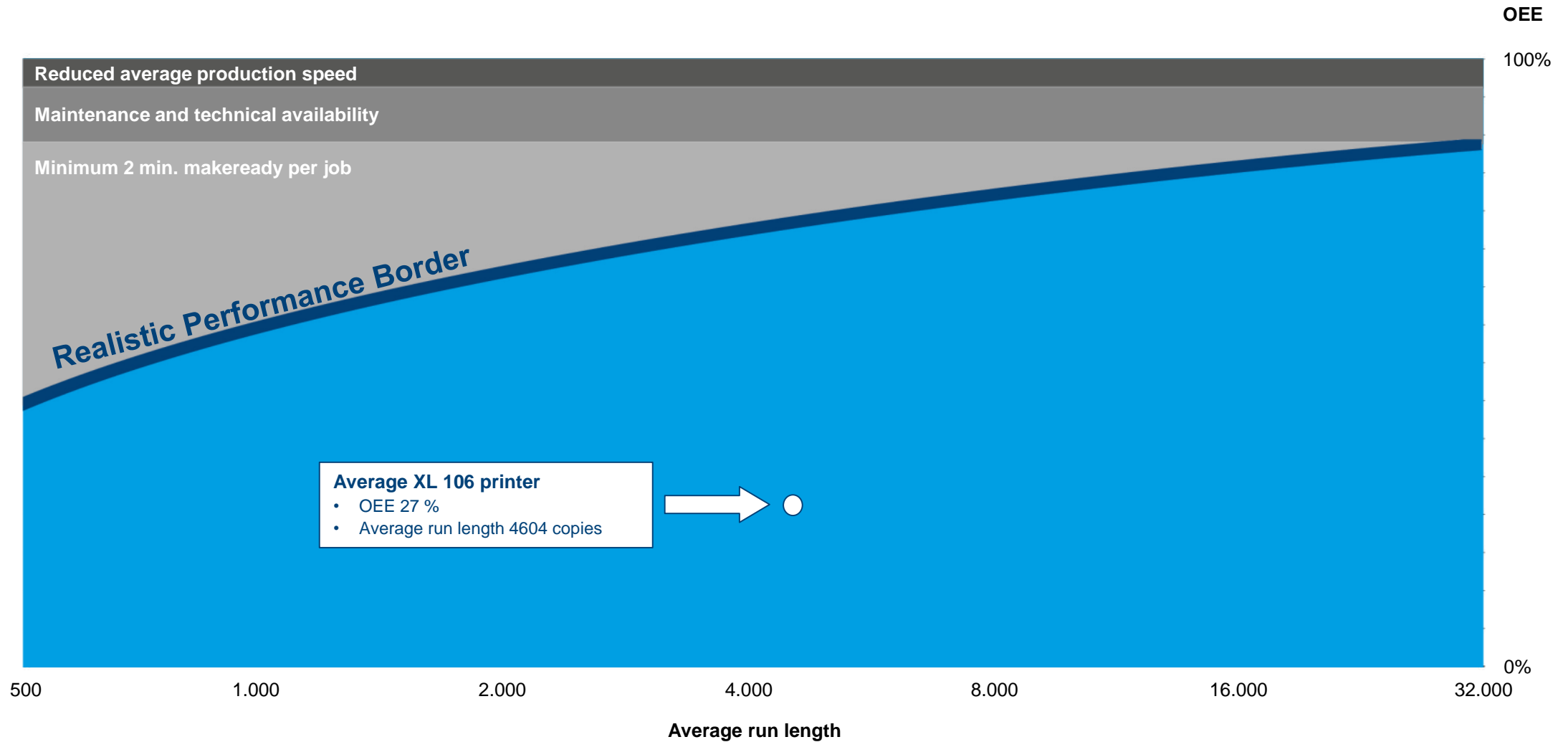


Unfold your
machines
potential

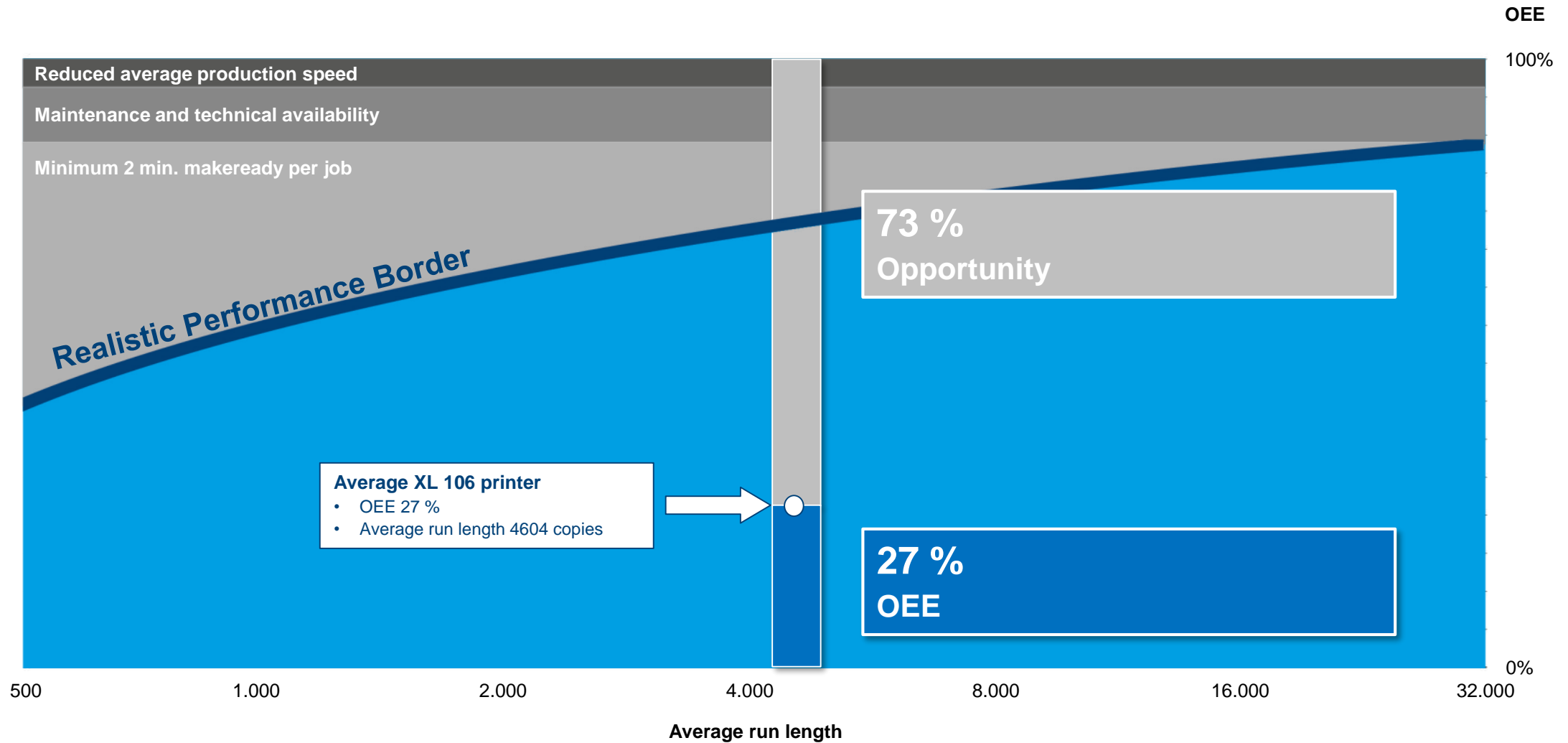
OEE Analysis. Speedmaster XL 106.



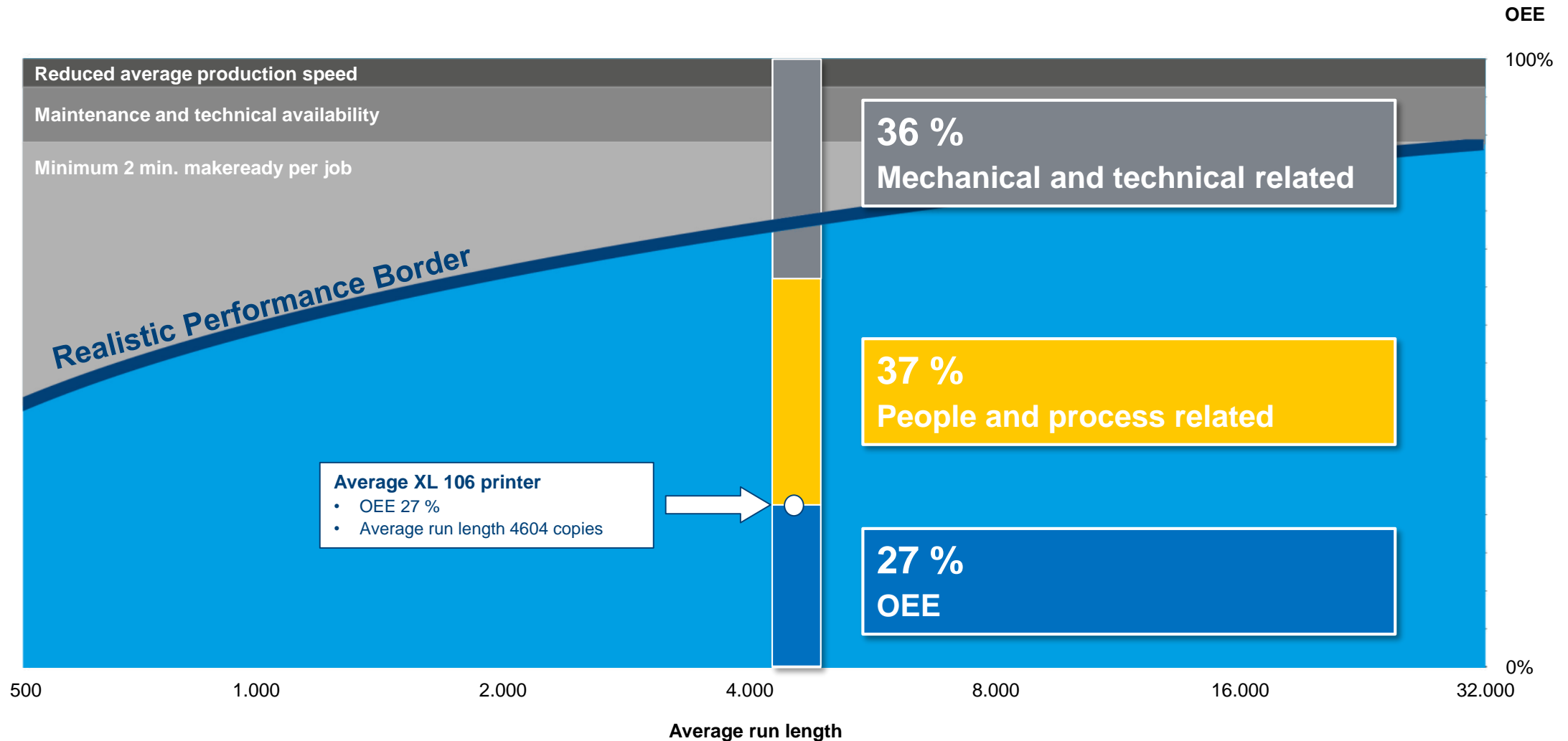
OEE Analysis. Speedmaster XL 106.



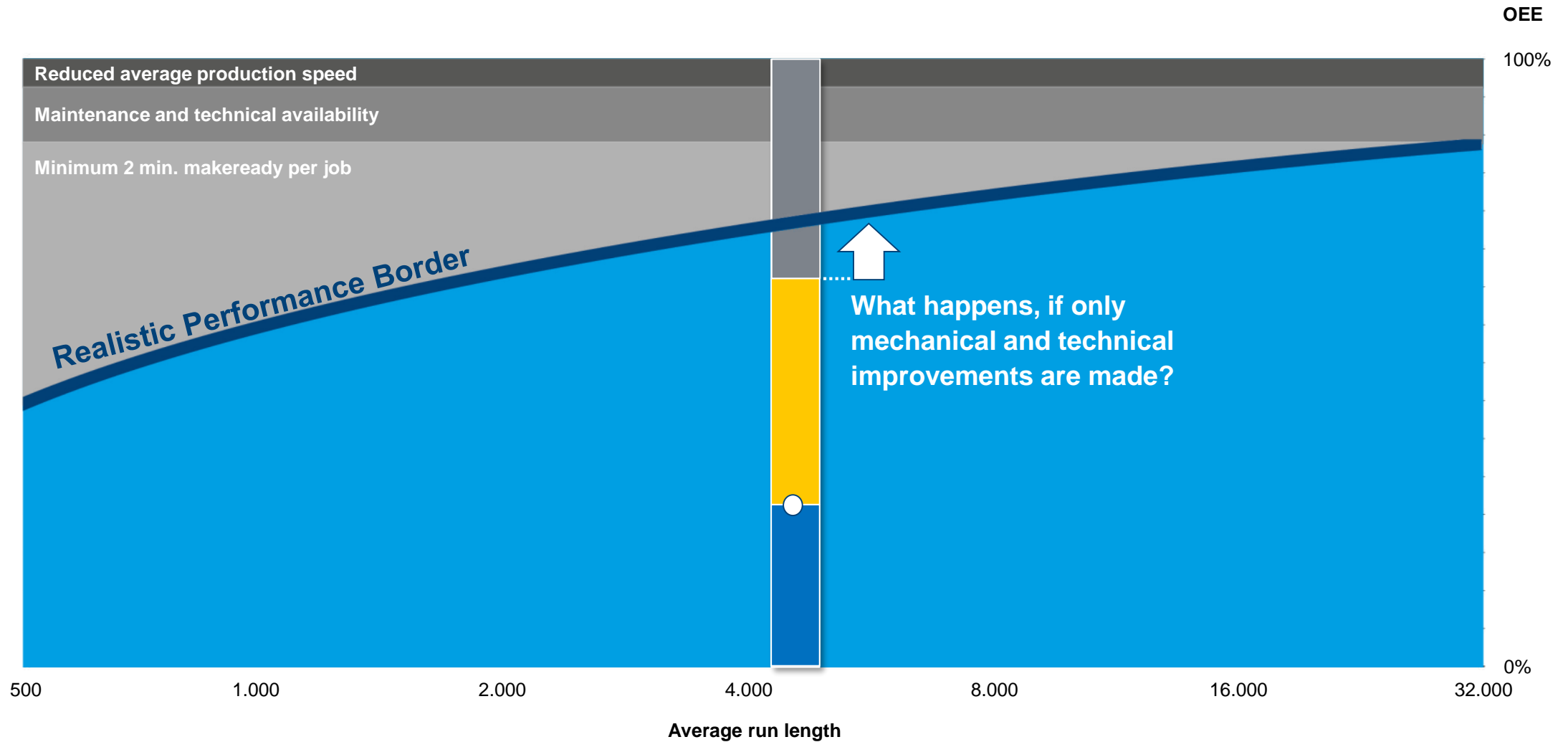
OEE Analysis. Speedmaster XL 106.



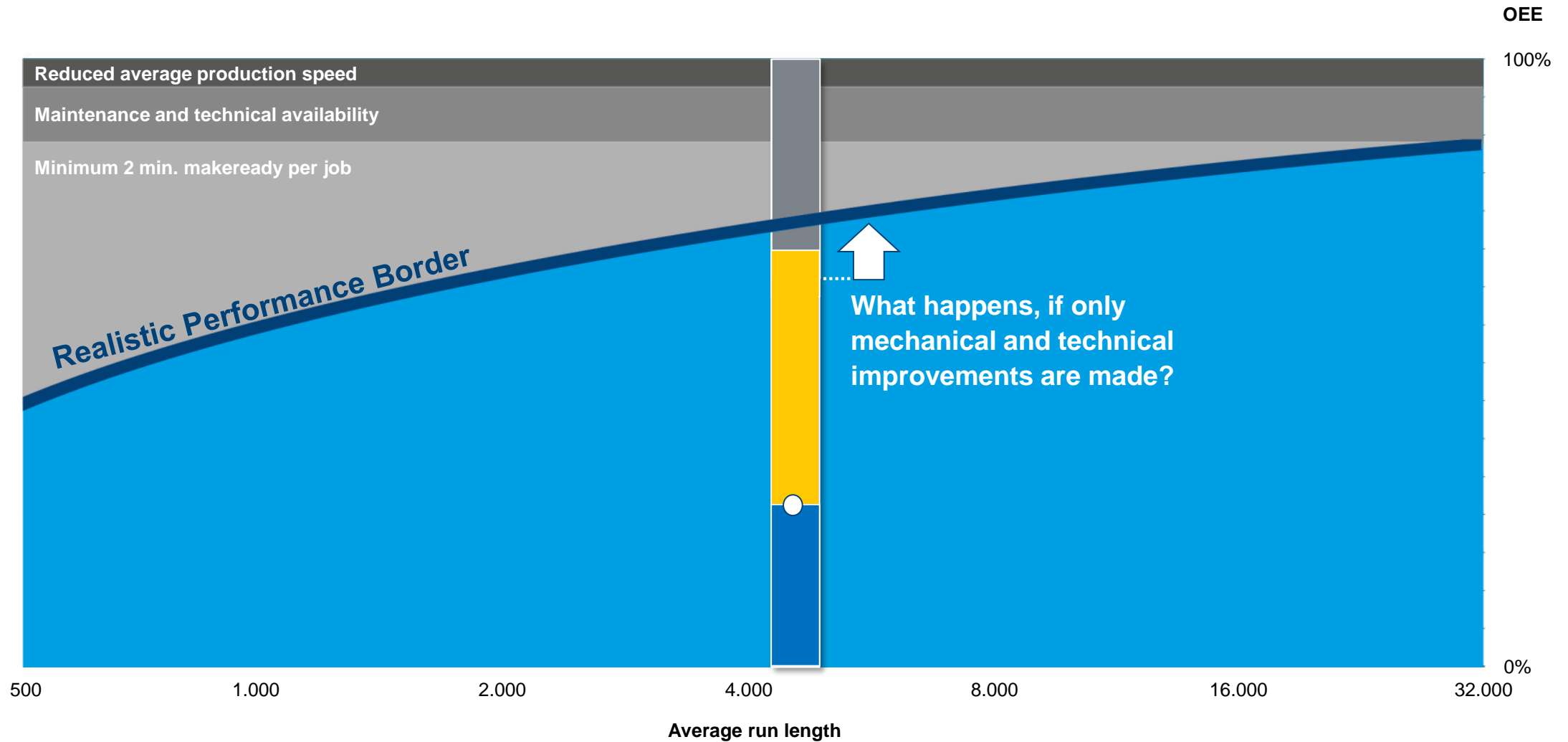
OEE Analysis. Speedmaster XL 106.



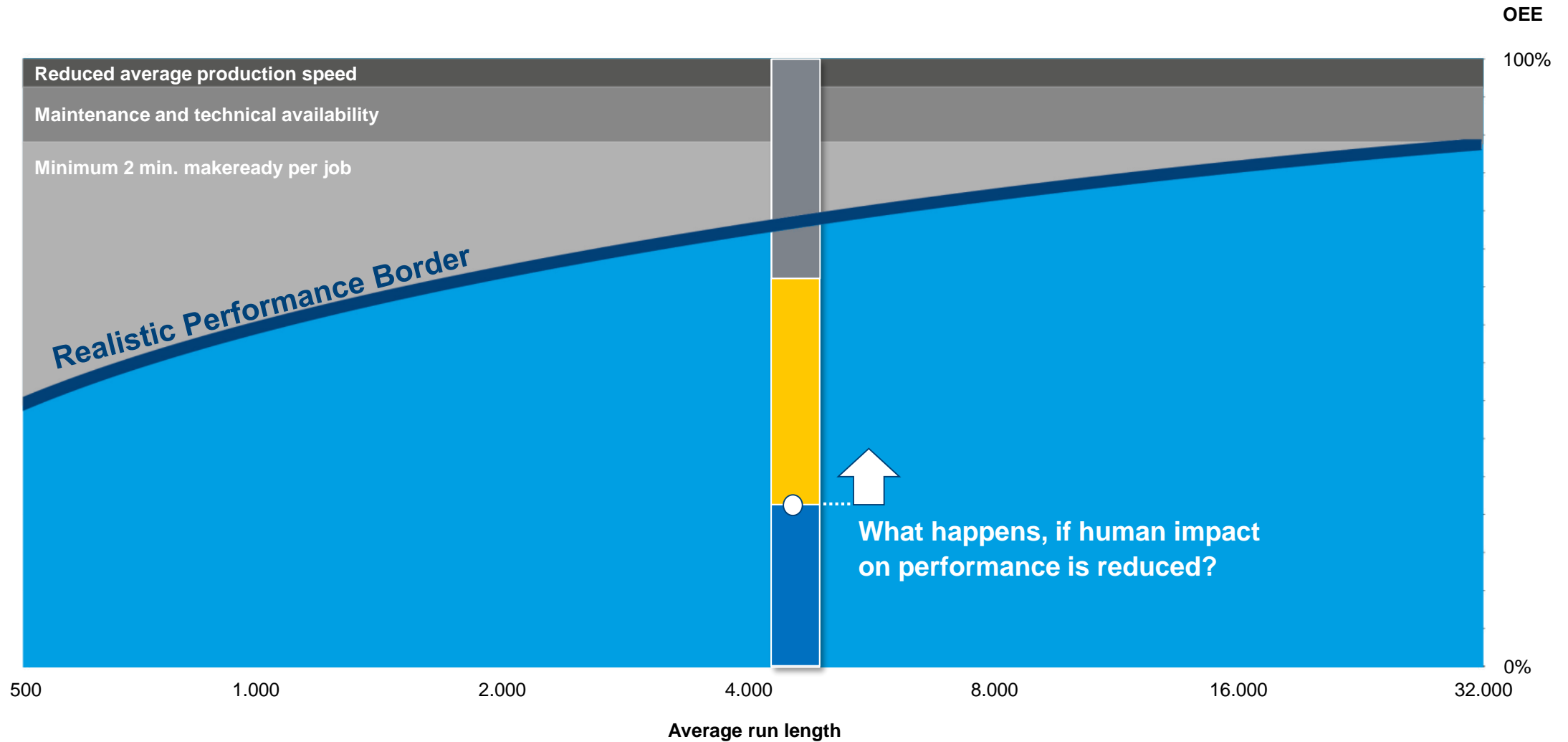
OEE Analysis. Speedmaster XL 106.



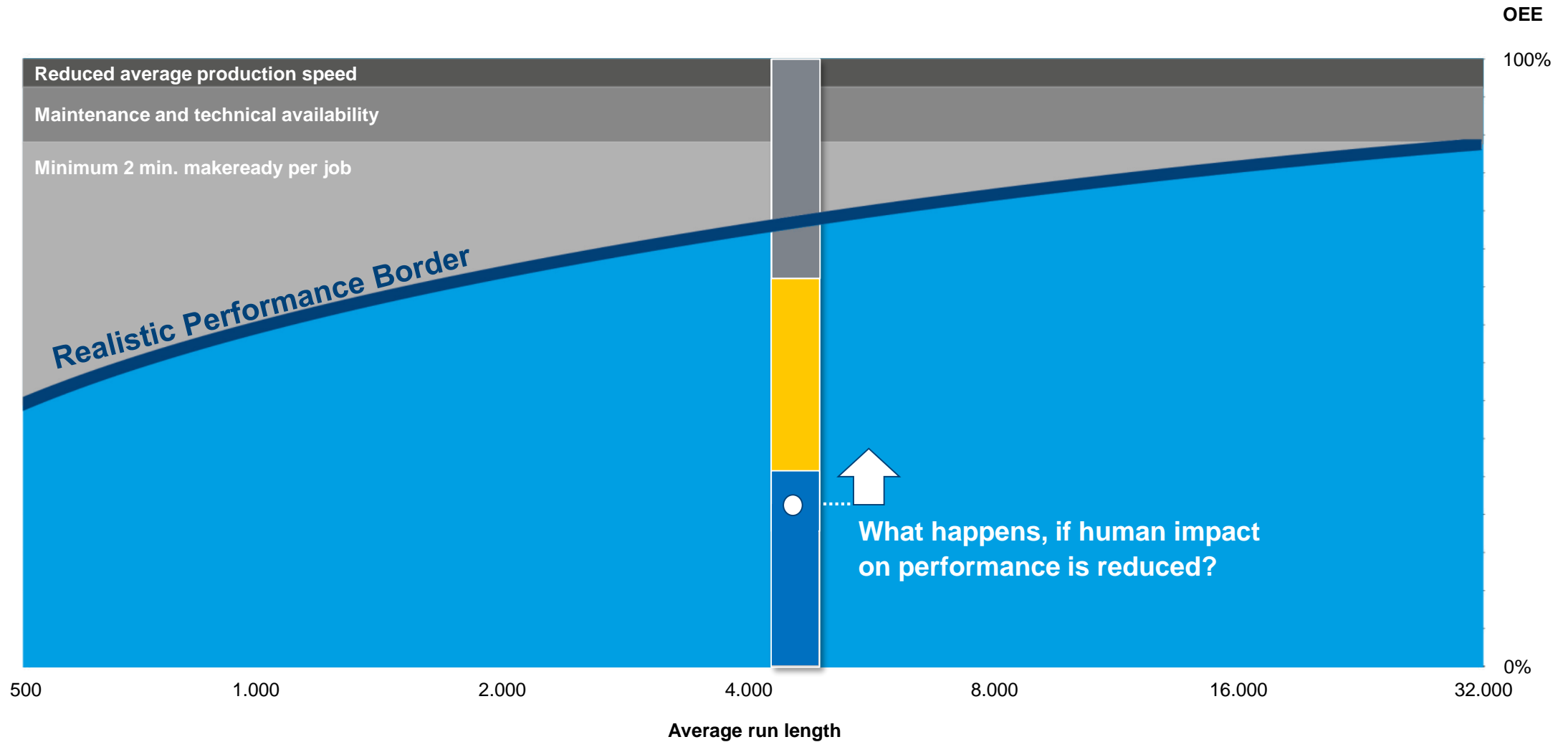
OEE Analysis. Speedmaster XL 106.



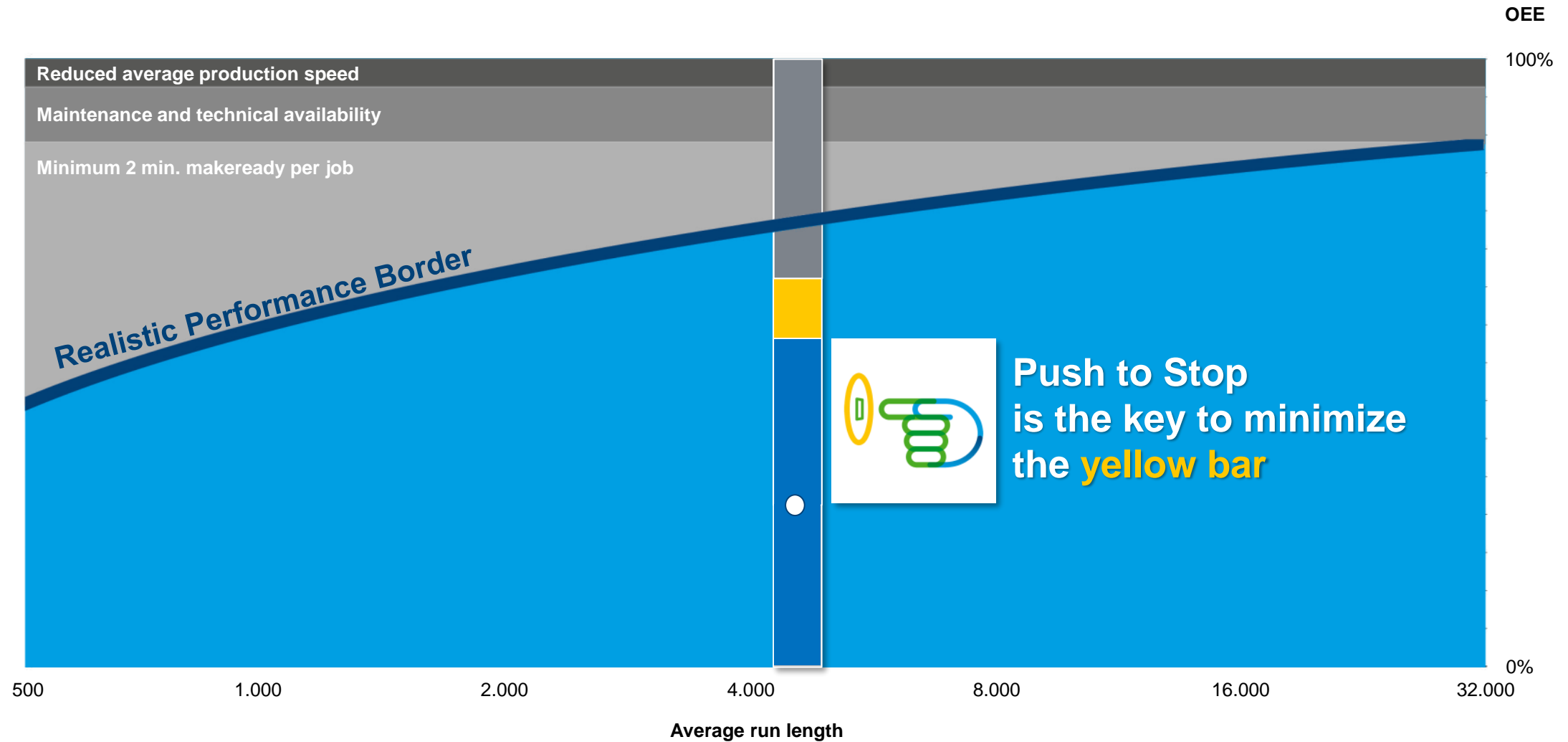
OEE Analysis. Speedmaster XL 106.



OEE Analysis. Speedmaster XL 106.



OEE Analysis. Speedmaster XL 106.





The **new** Speedmaster Drupa 2020 Generation

The most intelligent and most automated Speedmaster ever!

Clear focus on operator independent performance!

- Close automation gaps
- Develop intelligent assistants
- Digital process integration and utilization of digital data
- Utilize the potential of AI

User Experience Yesterday



User Experience Today



P R N **D** S

The infotainment screen displays a menu with four options: 'Entertainment', 'Phone', 'Compass', and 'Climate'. The 'Phone' option is currently selected, indicated by a right-pointing arrow. At the bottom of the screen, the temperature is shown as '82° E' and the time as '3:47'.

Navigation Yesterday



Navigation Today



Headlights Yesterday

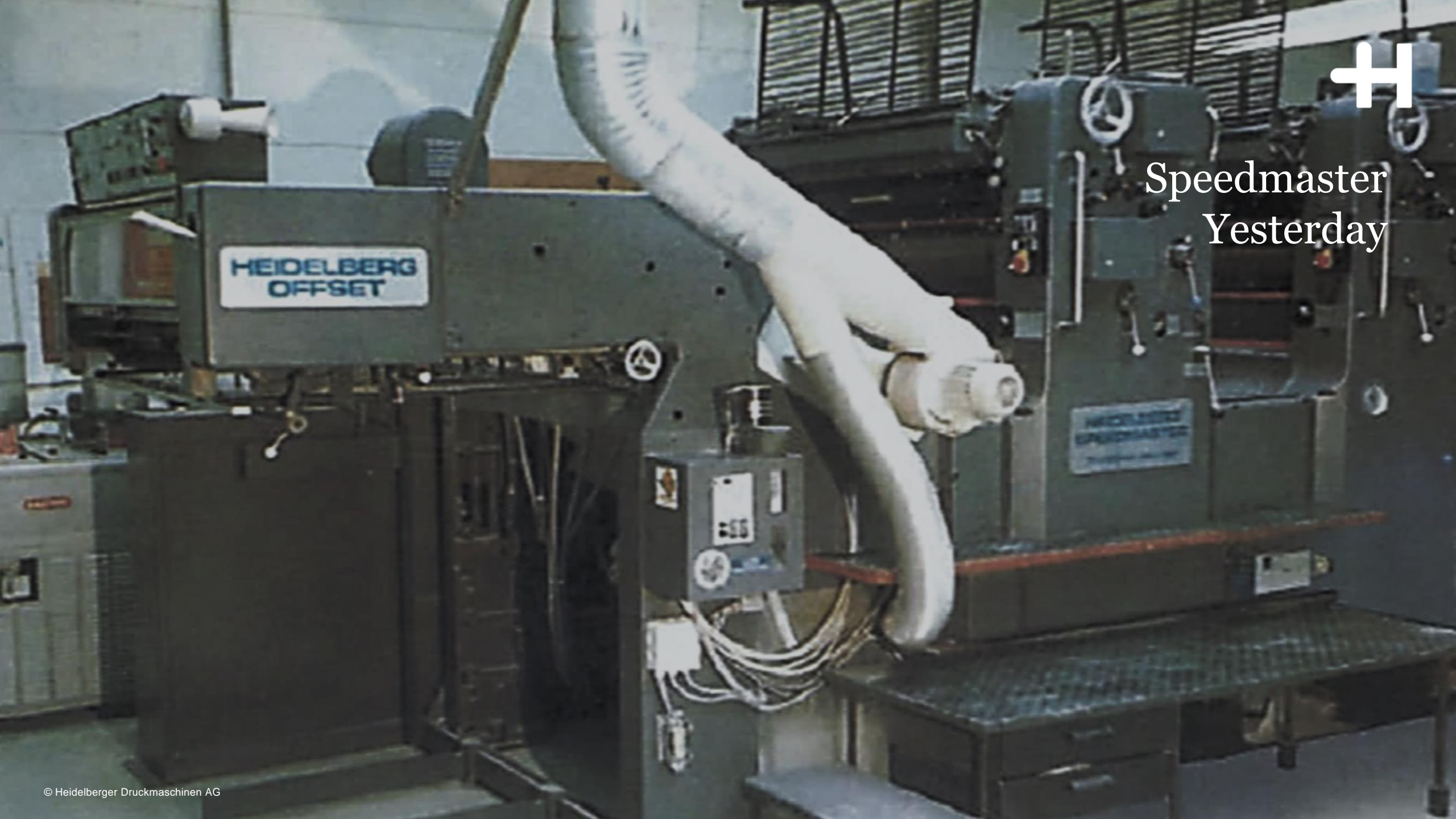


Headlights Today





Speedmaster Yesterday





Speedmaster Today



Priorities have changed from technical to output orientation



	Yesterday	Today
Automotive	<ul style="list-style-type: none">• Max. Speed• Horsepower• Acceleration• No of Cylinders• Cylinder capacity	<ul style="list-style-type: none">• User Experience, Intelligent Assistants, Voice Recognition...• Internet Services• Autonomous Driving• Passenger safety• Ecological Impact
Presses	<ul style="list-style-type: none">• Max. mechanical speed• Single technical features• Single process times• Service availability• Technical operator trainings• Automated Press	<ul style="list-style-type: none">• OEE / net Output• Touchpoint reduction• Total process optimization• Preventive service/uptime concepts• Navigated and autonomous printing• Smart Printshop / Smart Industry





The most intelligent and automated Speedmaster ever!

The new Heidelberg User Experience (UX)!



Air Assistant

Quality Assist

Intelli**start**

Color Assistant Pro

Roller Check Assistant

Intelli**guide**

Color Fast Solution

Wash Assistant

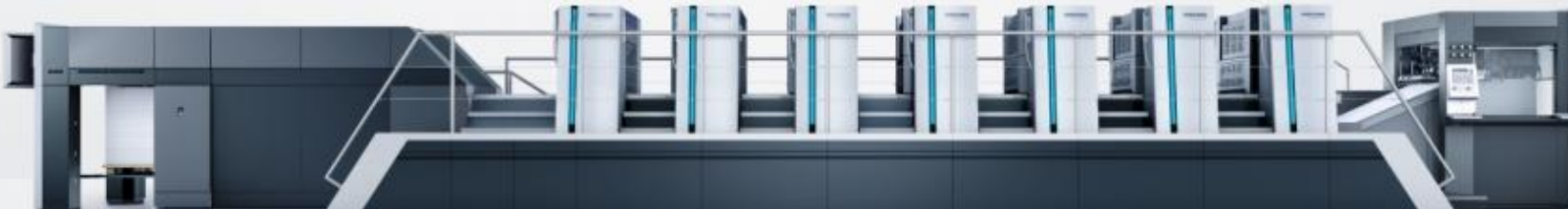
Intelli**run**

Device Assistant

Powder Assistant




Intelli**line**

Heidelberg UX offers a modern and attractive working environment. A great advantage to attract and motivate skilled people.



Speedmaster Portfolio drupa 2020. All models available with Push to Stop navigated printing capabilities and connectable to the Prinect Cloud.



-  Prinect Cloud
-  Navigated printing
-  Autonomus printing

100 x 160

XL 145 / 162



70 x 100

CS 92 / CD 102



CX 102 / SX 102



XL 106



50 x 70

SX 74



CX 75



XL 75



35 x 50

SX 52 low pile



SX 52 high pile



Value Class

Professional Class

Peak Performance Class



New Intellistart 3

- Patented intelligent job changing driven by the press
- Navigated and whenever possible autonomous make ready
- New Autofill functionality for the Job Queue
- New implementation of Inspection Control set up
- New plate management integration





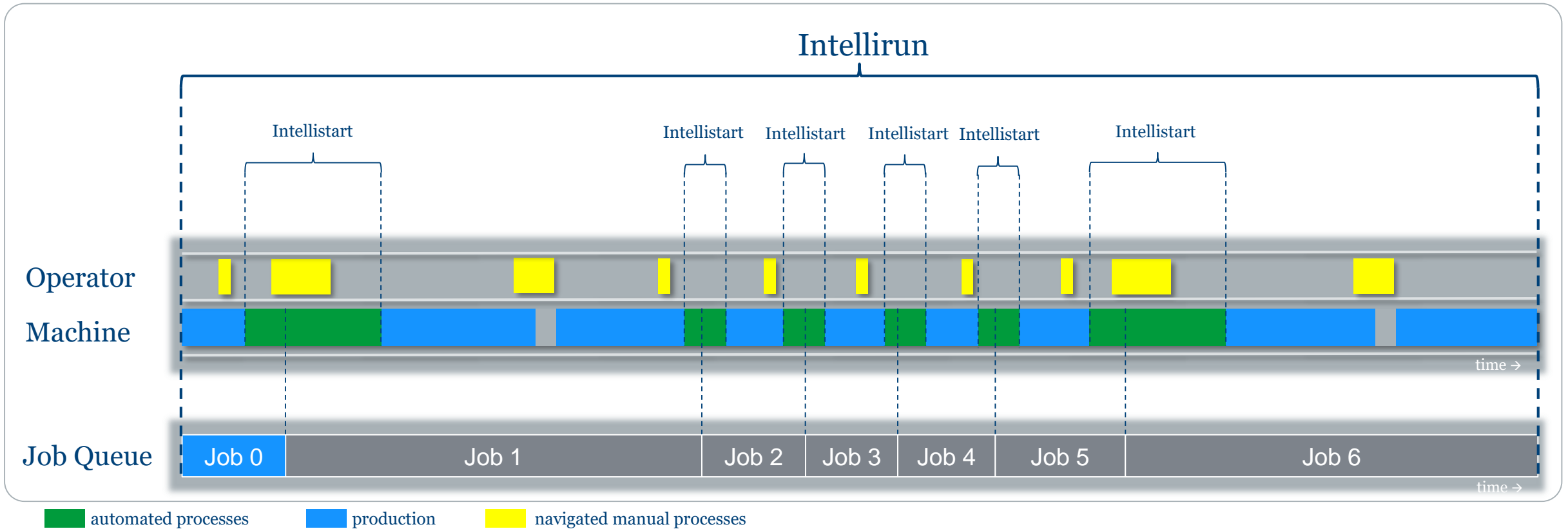
New Intellirun.

**Continuous Navigation.
The right information at the
right time.**



New Intellirun. The next big Thing.

Continuous Navigation. The right information at the right time.



Intellistart is active during job changes takes care of optimized and navigated make ready.

Intellirun is always active and takes care of the entire production process for all jobs in the Job Queue. It delivers important information and alerts to the operator in order to avoid or minimize inefficiencies.

Intellirun

Production



Intellirun



Before end of production

- Current job is still running, shortly before the job change a "To-do list" for the next job is coming up.
- Available job data is displayed in due time.
- *Modifications by the operator are possible without losing time.*



Intellirun



Job change – phase 1

- The job change takes place and Intellistart 3 controls the processes
- The display changes automatically to the Process View and Intelliguide.
- *The operator gets the information which manual processes are necessary – when and where.*



Intellirun



Job Change - phase 2

- Driven via Intellistart 3 the press starts printing.
- The display changes automatically and provides the most required information:
 - Preview image with ink zone profiles
 - Machine settings and impression controls
 - Register settings



Intellirun



Job change - phase 3

- First measurement results from Prinect Inpress Control 3 are displayed.
- The ink zone display is replaced by the measurement results.



Intellirun

Production

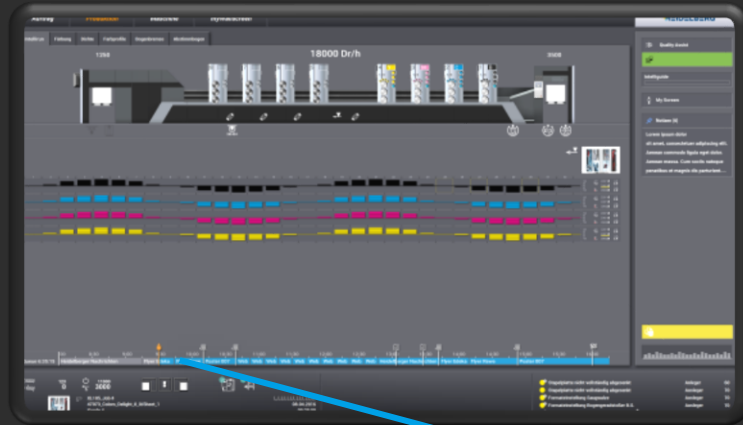


New Intelliline. Next Level of Navigation.





Next Level of Navigation. Intelliguide, Intellirun and Intelliline.

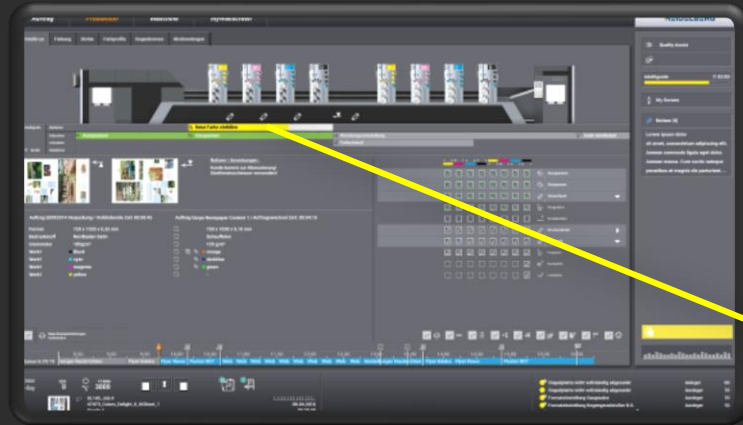


Good sheet production





Next Level of Navigation. Intelliguide, Intellirun and Intelliline.

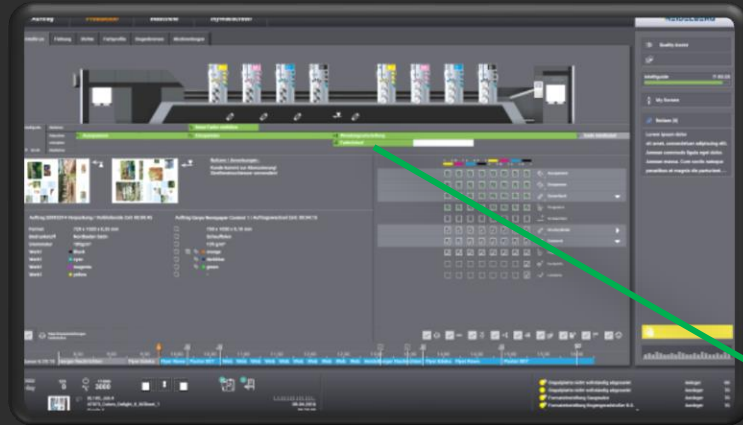


Manual intervention required





Next Level of Navigation. Intelliguide, Intellirun and Intelliline.



Automatic make ready process running



New Wash Assistant



If you have the choice of 3 wash up programs

Quick
Standard
Intensive

Which one would you choose?

New Wash Assistant. Intelligent optimizing of wash up programs for blanket, impression cylinder and rollers.



Choosing the wrong wash up program eats up time
→ Potential savings 1 Min/hour @ 250 days p.a.

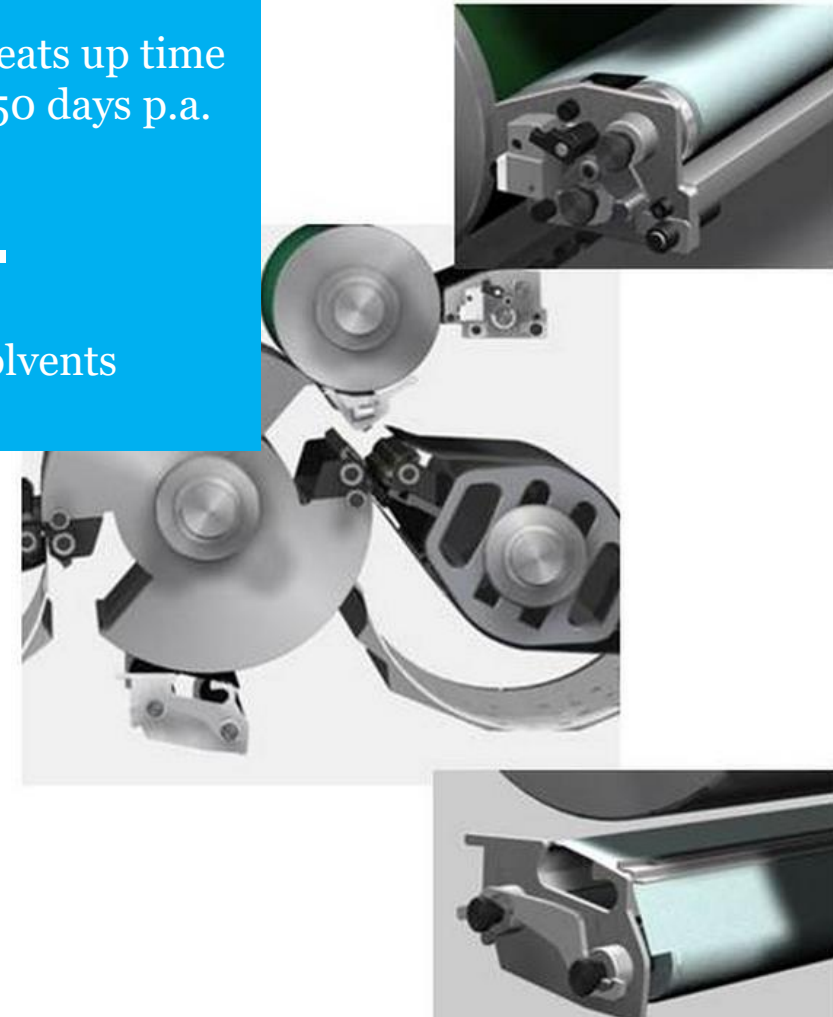
80 hours p.a.

plus **20%** of wash up cloth and solvents

5 Min saving, 5 times per day at 300 days p.a.

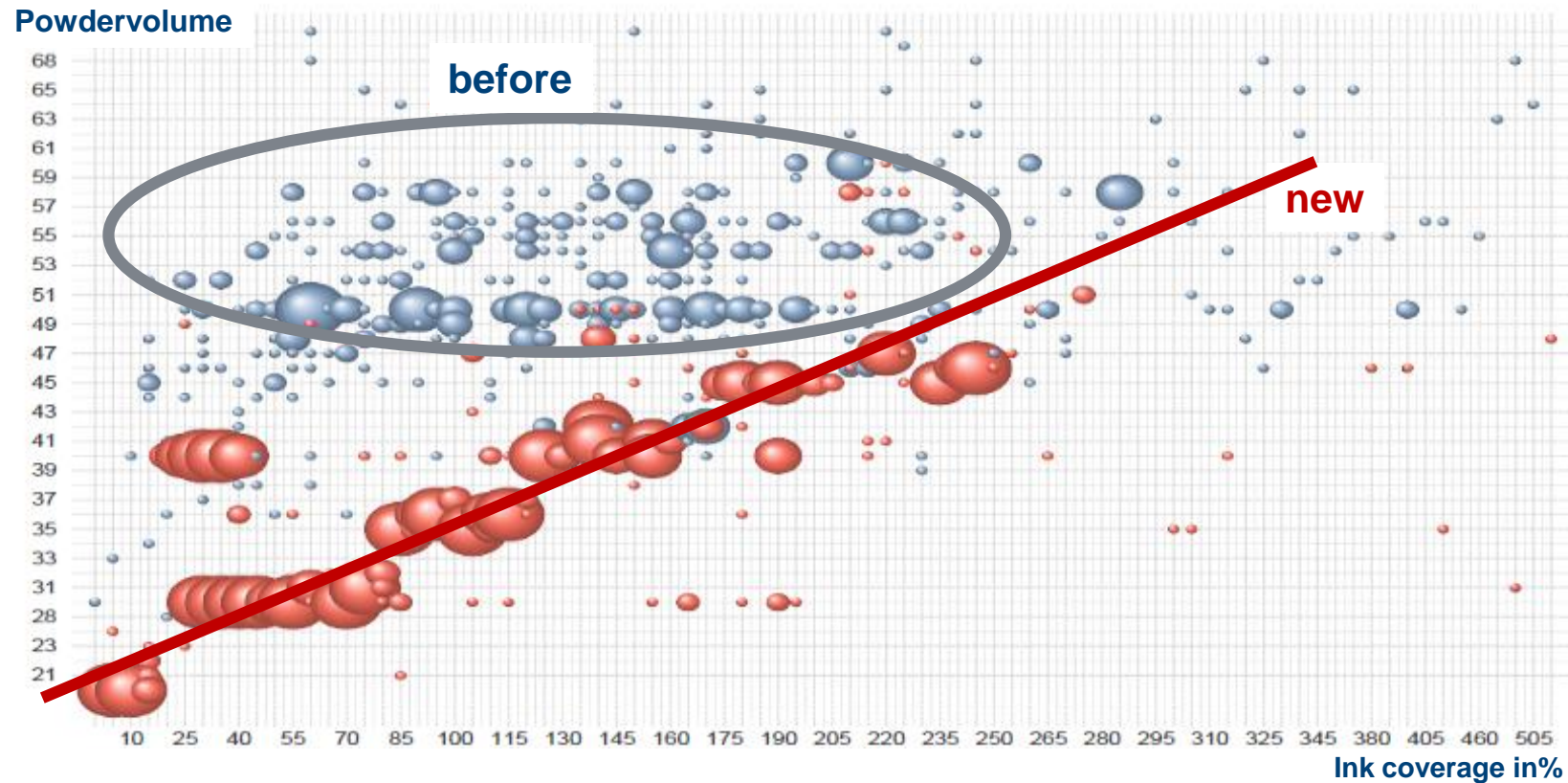
125 hours p.a.

For packaging printers running 24/7



New Powder Assistant.

Data based, intelligent optimizing of powder settings.



Based on ink coverage and substrate the Powder Assistant provides a proposal for the powder settings.

Self learning AI function based on experiences of the defined machine community.

New Press Center XL 3



- Modern, intuitive press operation
- New LED illumination
- Gesture control via new 24“ Multitouchscreen
- Speedmaster Operating System



New Smart Setup.

Adapted Functionalities according to Operator Skill Level.



Settings for Smart Setup

Operator ▼

Intellistart / Wallscreen	Inking	Measuring systems	Directstart	Machine
<input checked="" type="checkbox"/> Configuration for Intellistart	<input checked="" type="checkbox"/> Configuration for cleaning sheets	<input checked="" type="checkbox"/> Color archive setting	<input checked="" type="checkbox"/> Direct operator control for plate change	<input checked="" type="checkbox"/> Print functions settings
<input checked="" type="checkbox"/> Configuration for Process View	<input checked="" type="checkbox"/> Overinking, overdampening		<input type="checkbox"/> Basic washup settings	<input checked="" type="checkbox"/> Paper run settings
<input checked="" type="checkbox"/> Visibility of Process View	<input checked="" type="checkbox"/> Color Assistant Pro function			<input checked="" type="checkbox"/> Basic settings, peripheral units
<input checked="" type="checkbox"/> Intellirun configuration				<input checked="" type="checkbox"/> Basic settingsDevice Assistant
<input type="checkbox"/> Quality Assist configuration				

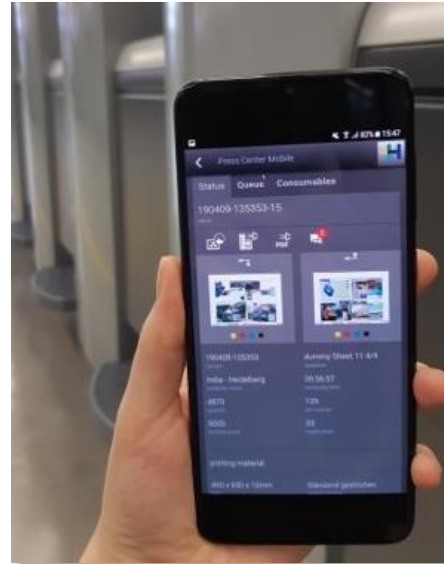
↻

- Adapt the functionalities of the press to your specific needs and operator skill level
- Take advantage of dedicated online training offerings for different functions in the Heidelberg Assistant or on premise trainings by a Heidelberg instructor



New Press Center mobile App.

Carry the Press Center in your pocket.



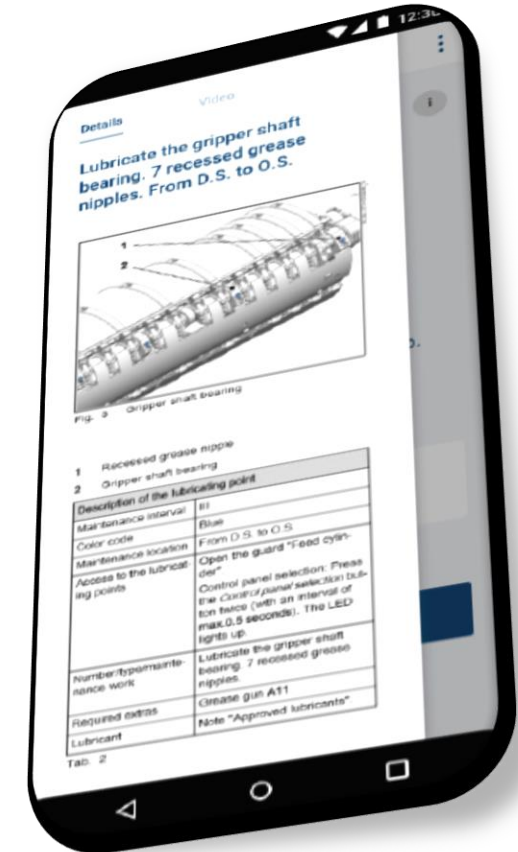
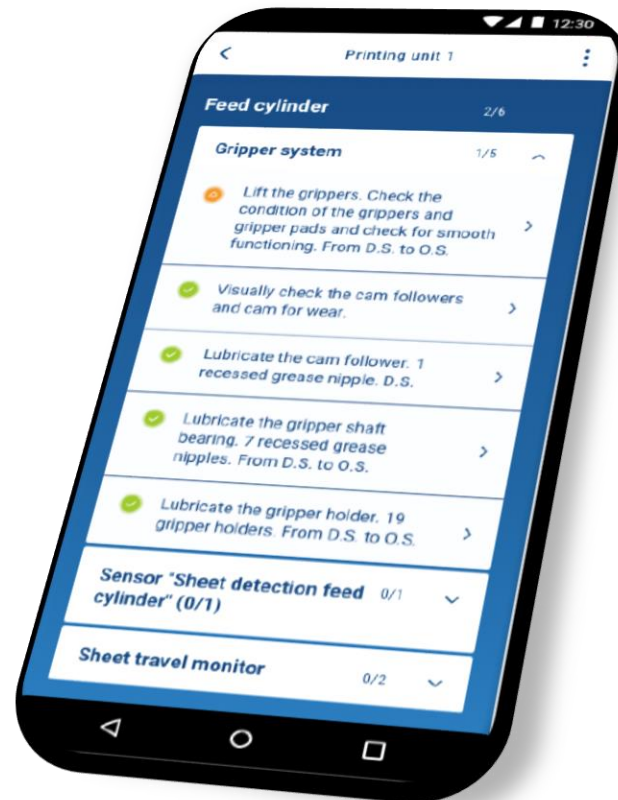
Press- and Jobdata are mobile accessible on your Smartphone or Tablet in real time.



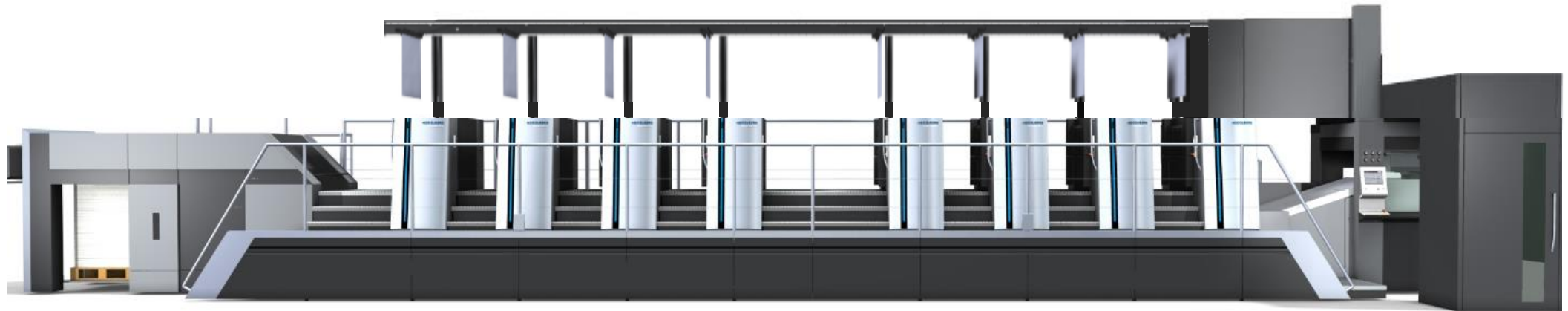


New Maintenance App.

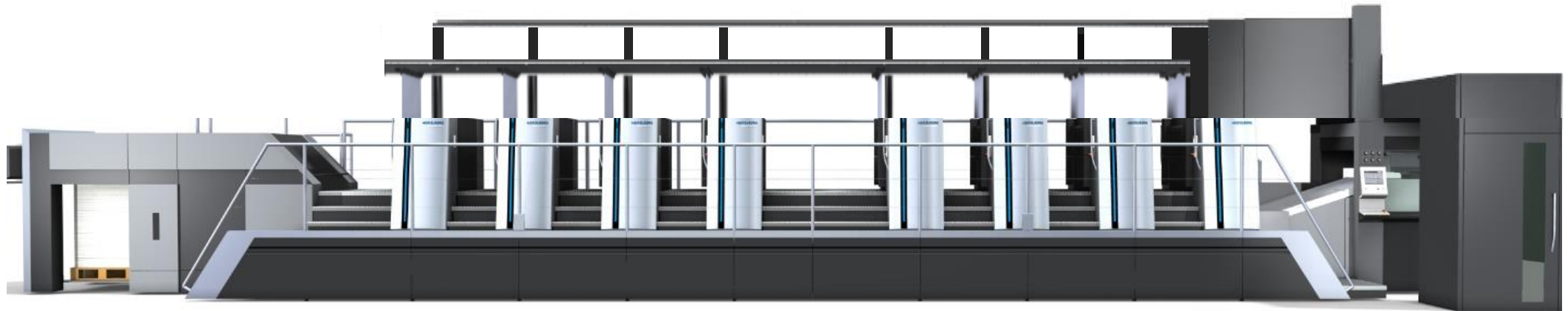
Maintenance management and documentation individually for every Speedmaster.



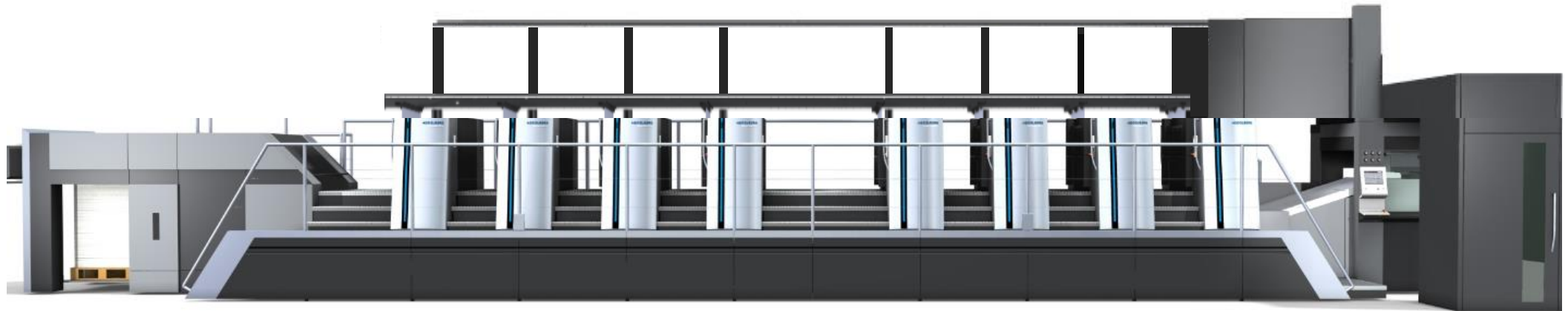
New Plate to Unit



New Plate to Unit



New Plate to Unit



Push to Stop - Automated Plate Logistics

20 manual Touchpoints eliminated with Plate to Unit.

23 Touchpoints: Current process w/o automation



3 Touchpoints: Plate to Unit process

New Plate to Gallery





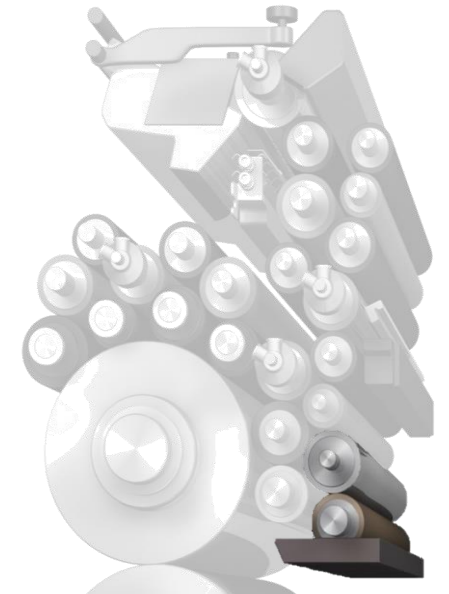
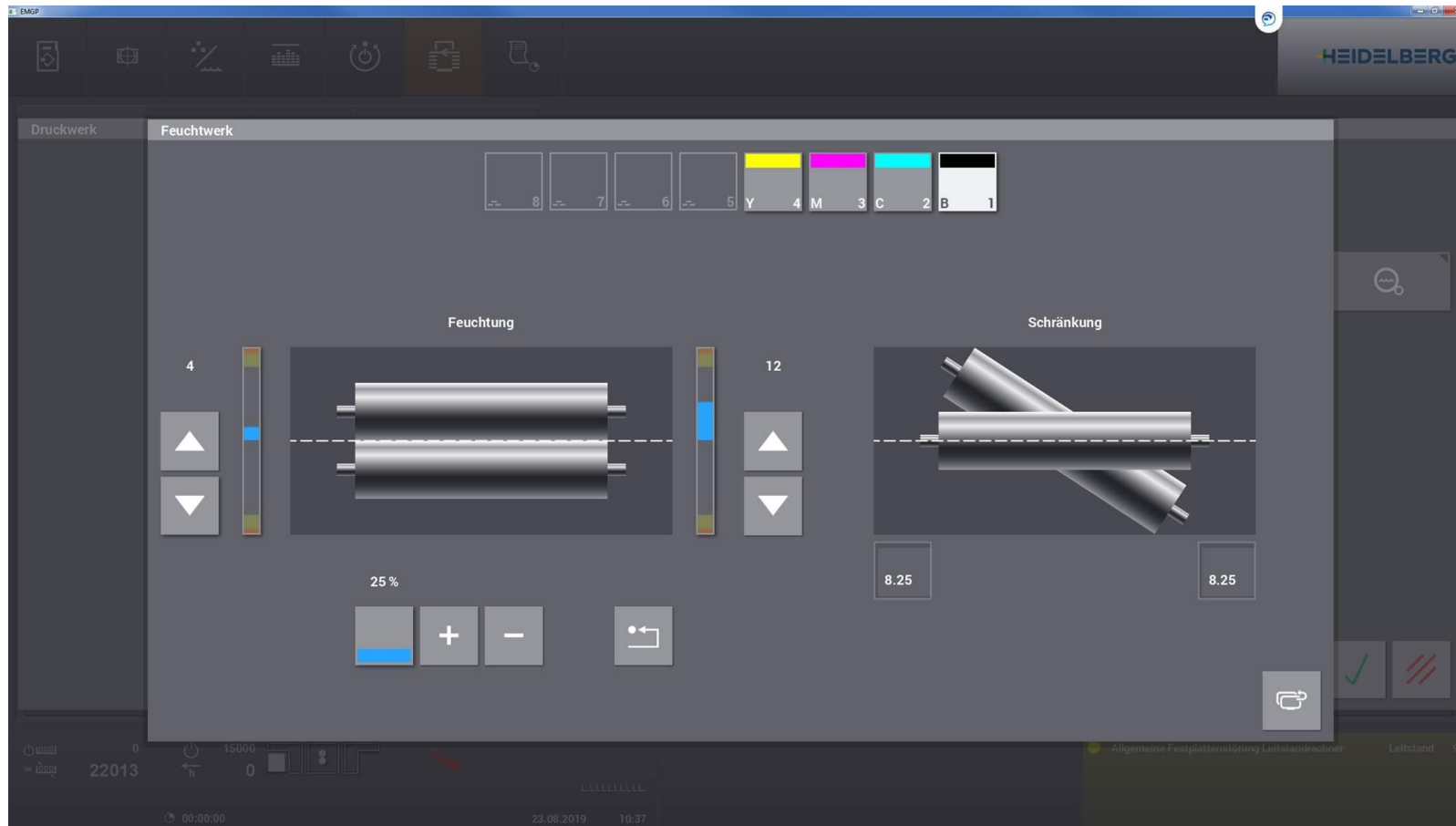
80%

of all service interventions for inking problems
are related to incorrect roller settings
in the dampening unit



New Hycolor Pro.

The first fully remote controlled dampening system.



Dampening Adaptation during Production

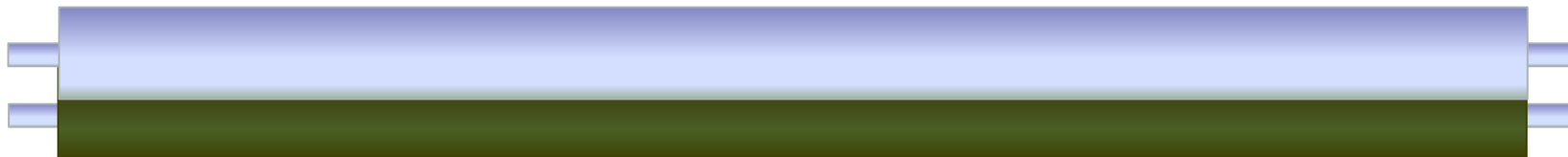
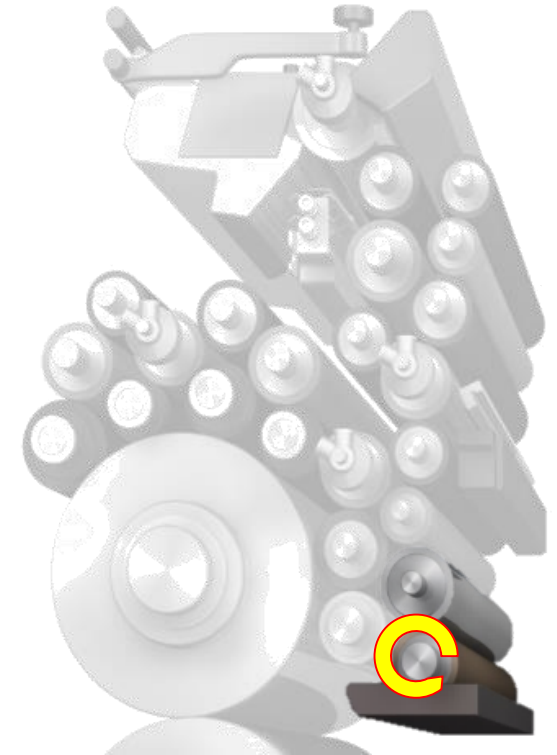
Today.



Plate

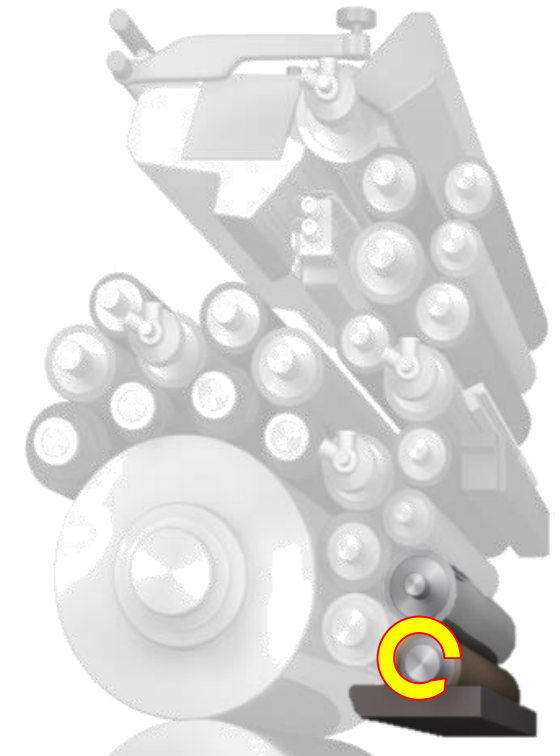
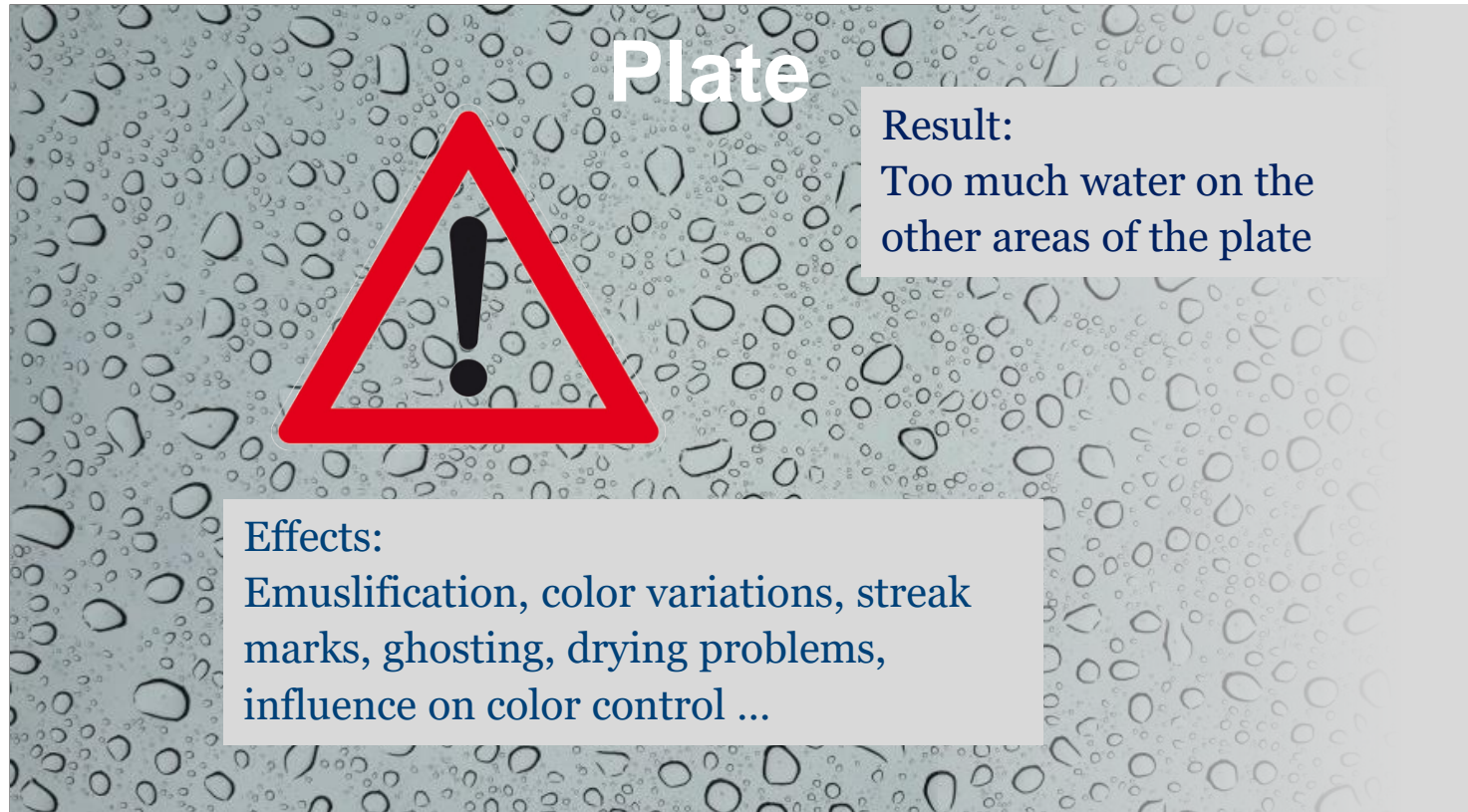
Problem:
Color tone on one
side only

Reaction:
Increase in total dampening
solution quantity - higher pan
roller speed (potentiometer)



metering roller
pan roller

Dampening Adaptation during Production Today.



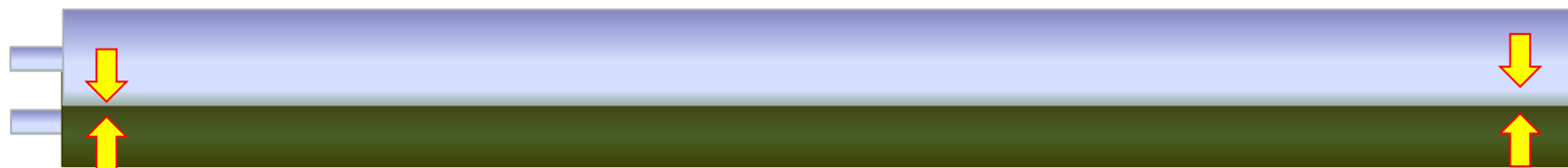
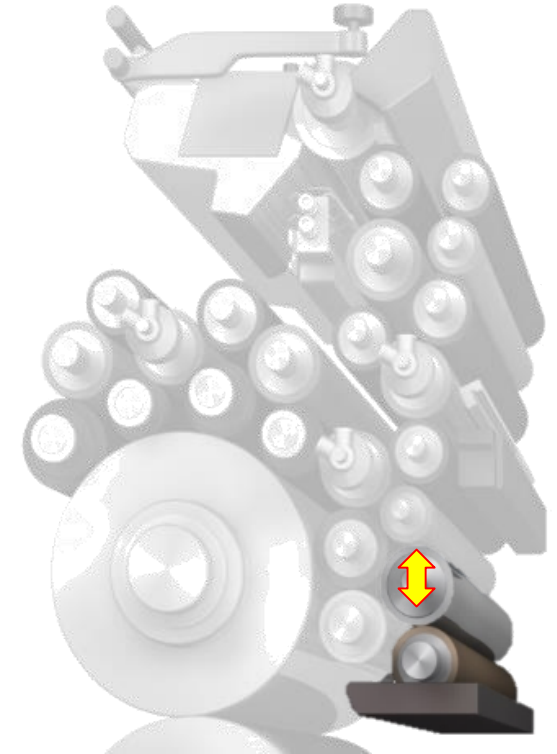
 metering roller
pan roller

Dampening Adaptation during Production With Hycolor Pro.



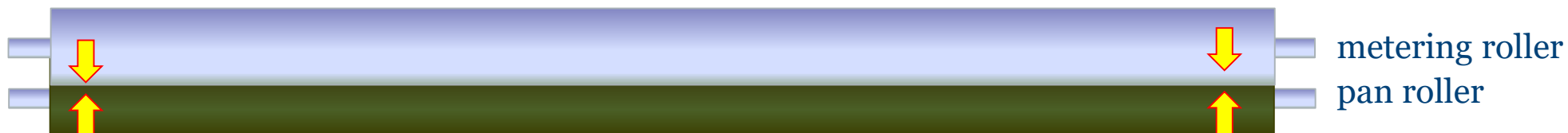
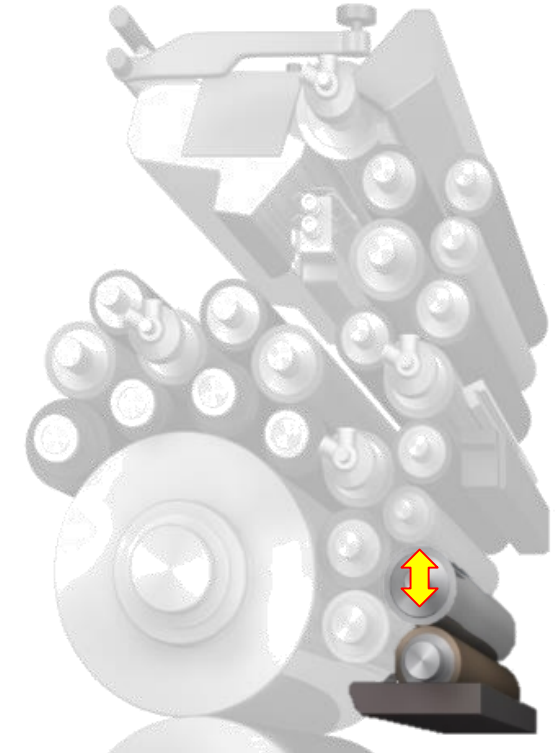
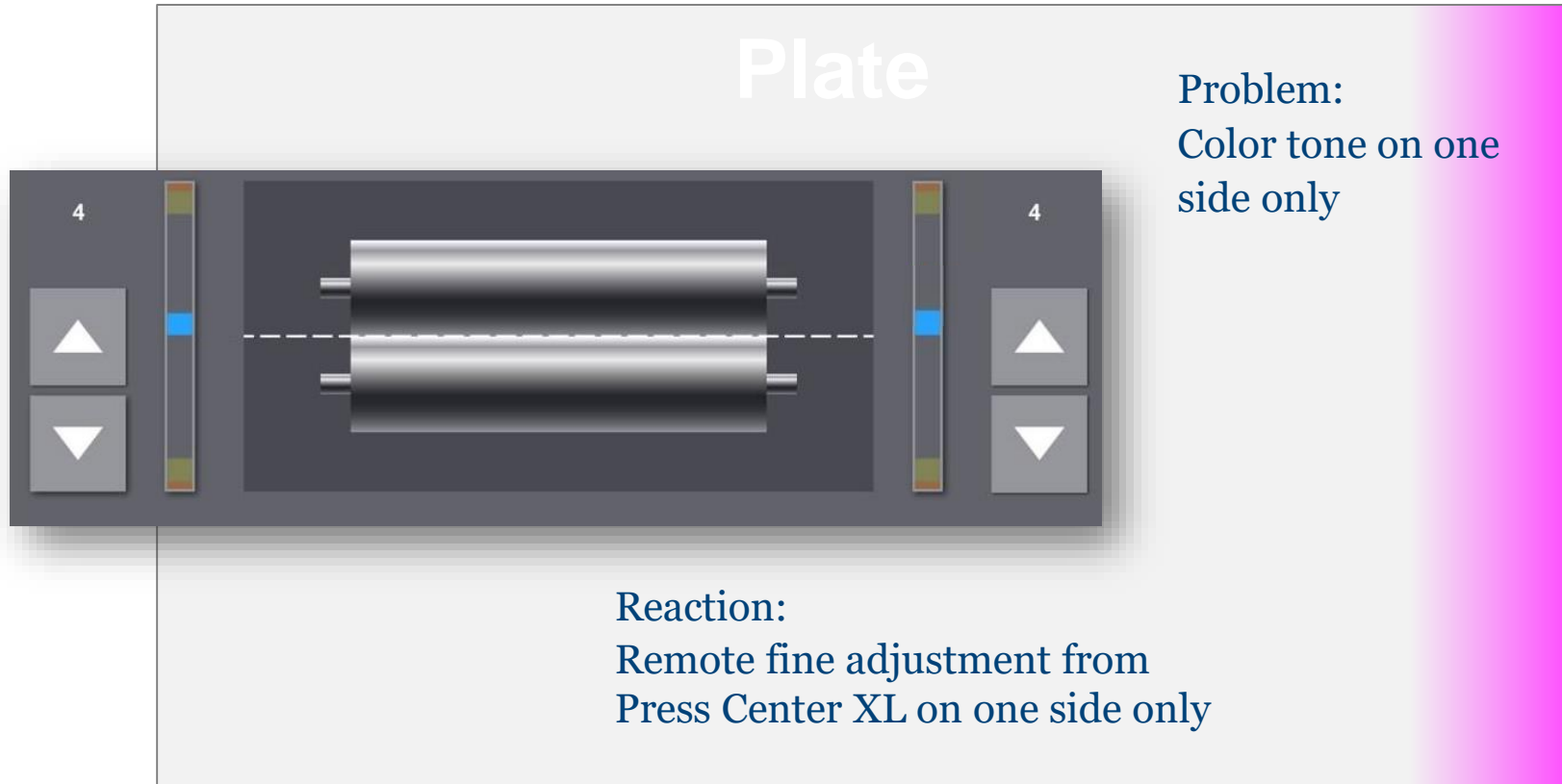
Plate

Problem:
Color tone on one
side only

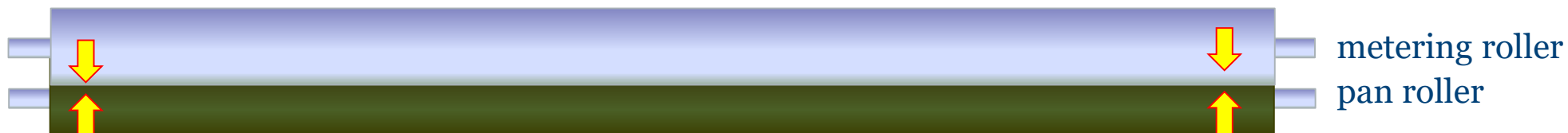
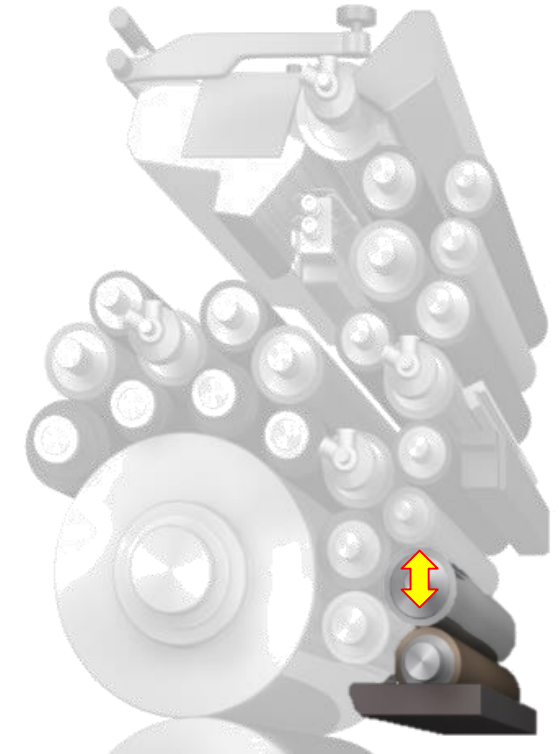
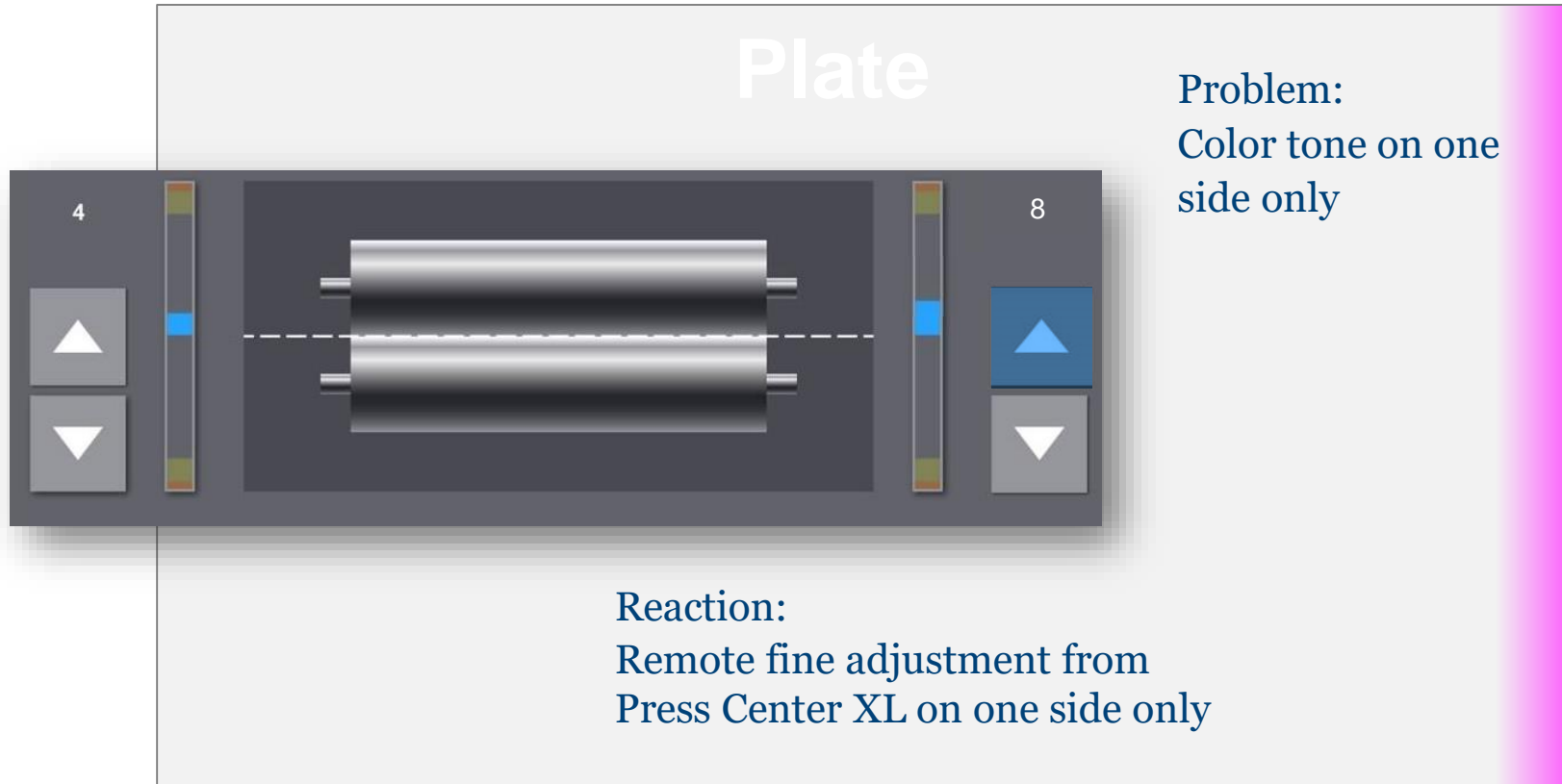


metering roller
pan roller

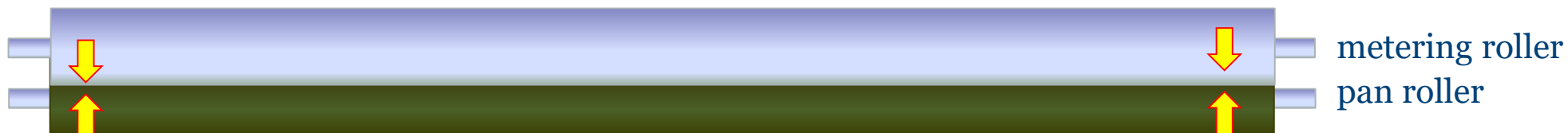
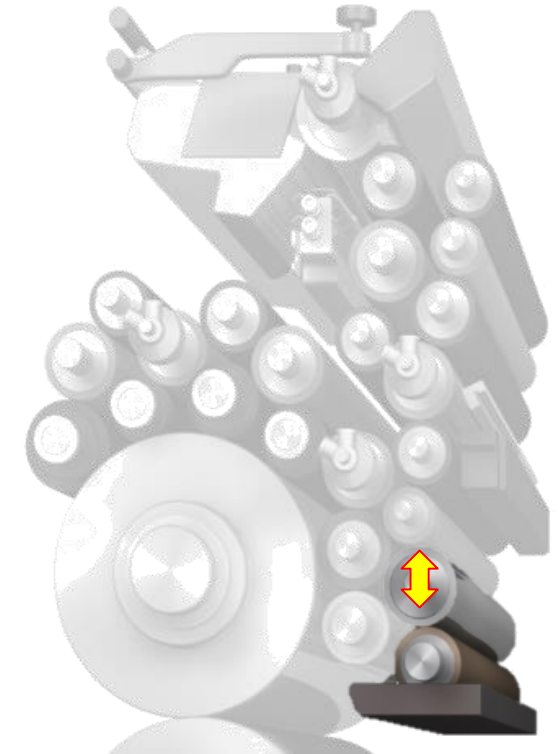
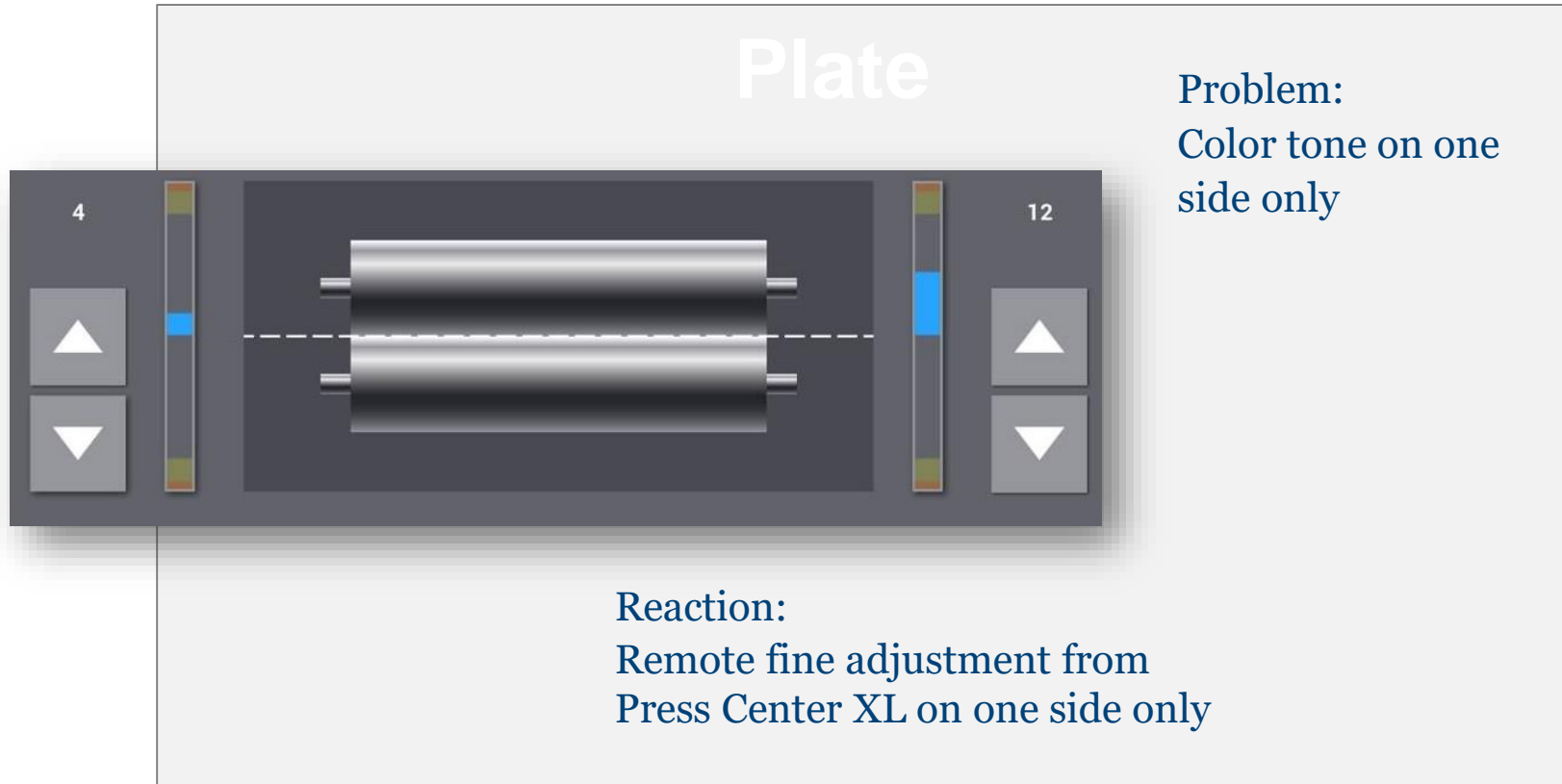
Dampening Adaptation during Production With Hycolor Pro.



Dampening Adaptation during Production With Hycolor Pro.

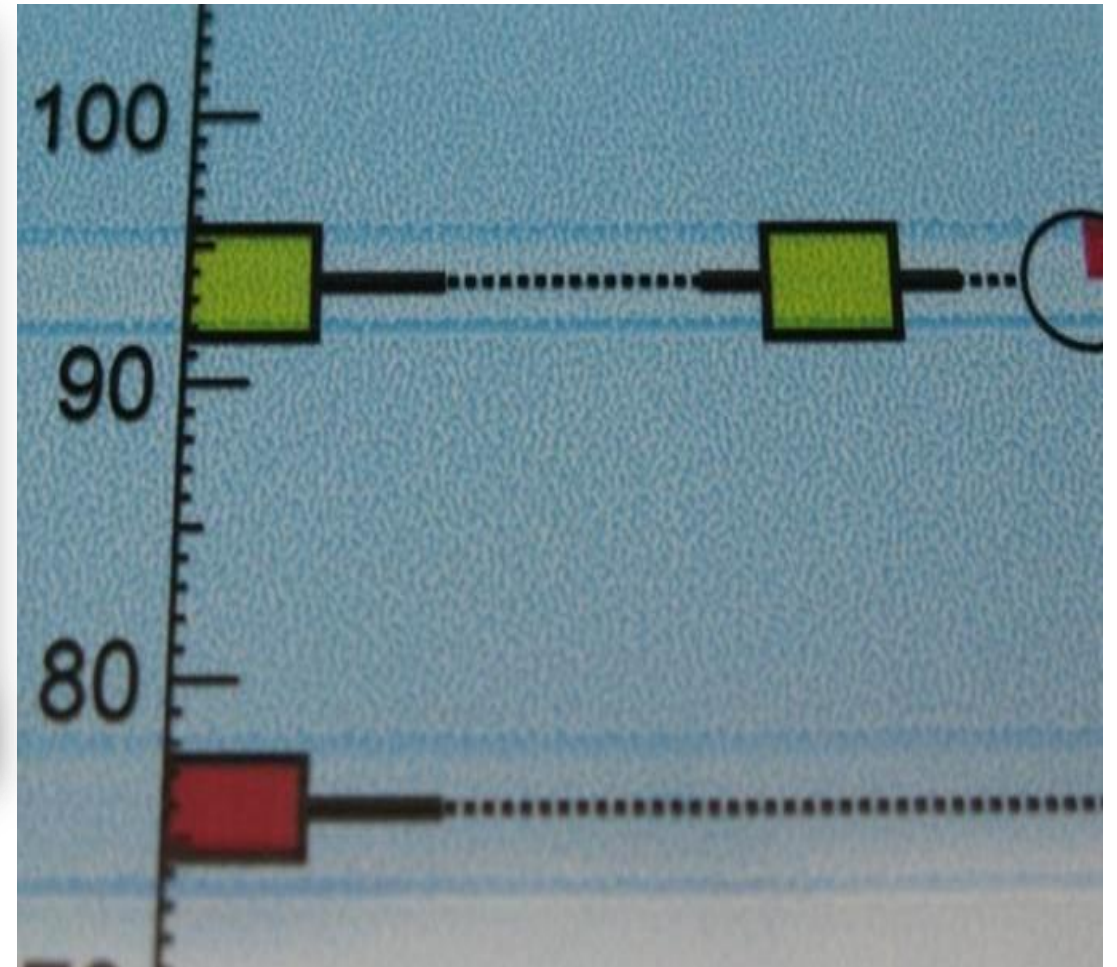
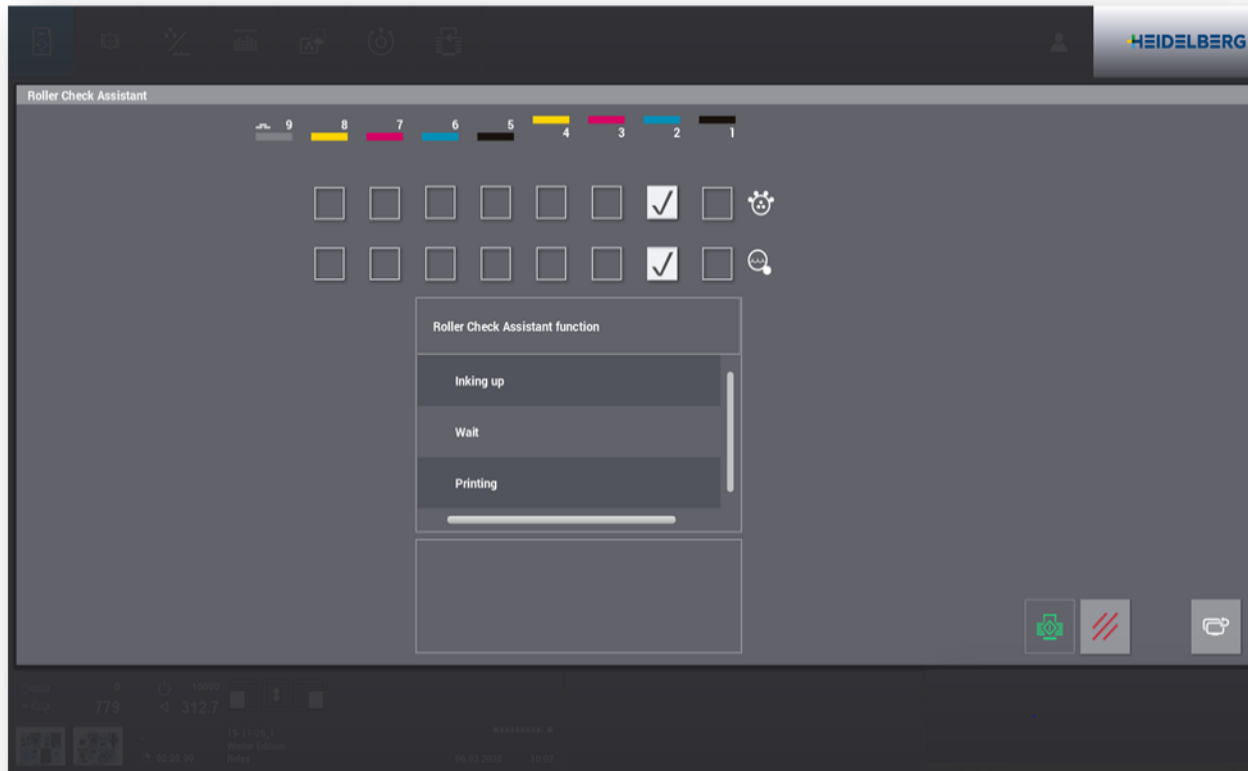


Dampening Adaptation during Production With Hycolor Pro.





Roller Check Assistant. Checking of roller settings by a push on a button.
Avoid printing problems before they occur by regular check.



Manual roller checking easily eats up 30 Minutes
With Roller Check Assistant done in 3 Minutes

New Integrated and configurable waste management



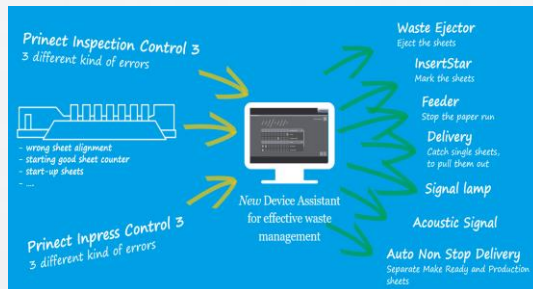
New Waste Management. Sheet ID makes tracking of each individual sheet possible. Flexible Configuration.



New Device Assistant

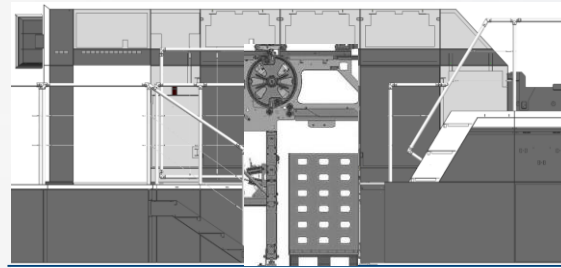
Defines actions related to failure types.

Waste management reports



New Inline Waste Extractor

Direct extraction of defined waste sheets

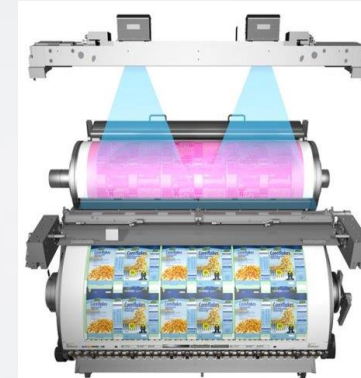


New Inspection Control 3

Push to Stop set up

PDF content verification

Inline sheet inspection



New CodeStar

applies for every sheet a Sheet ID

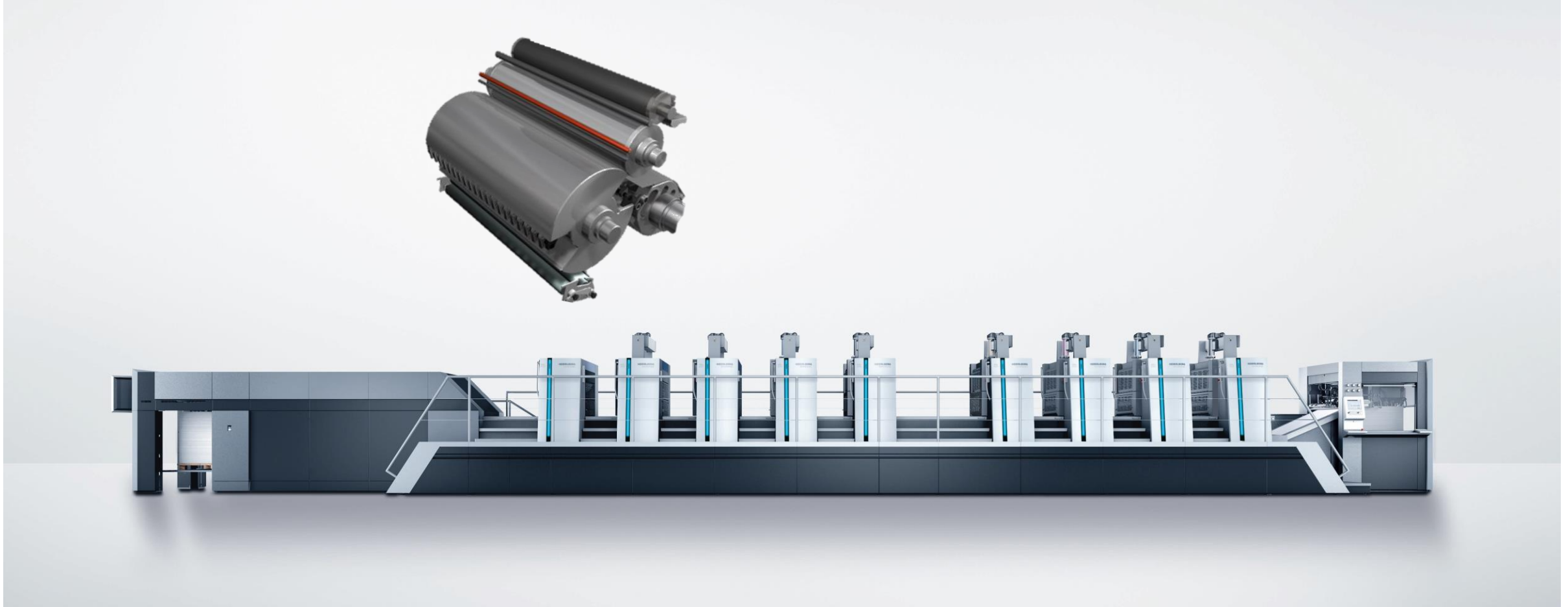


Your next Audit will be a Homerun



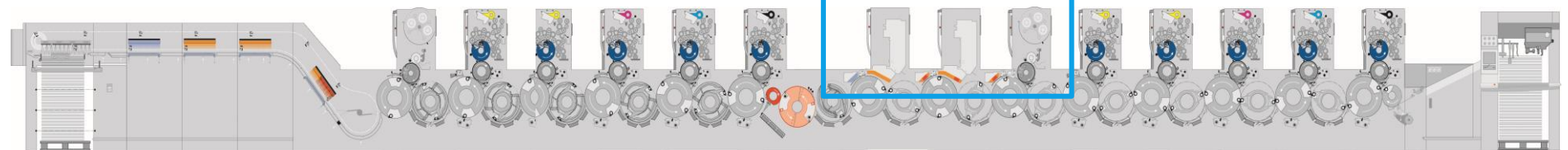
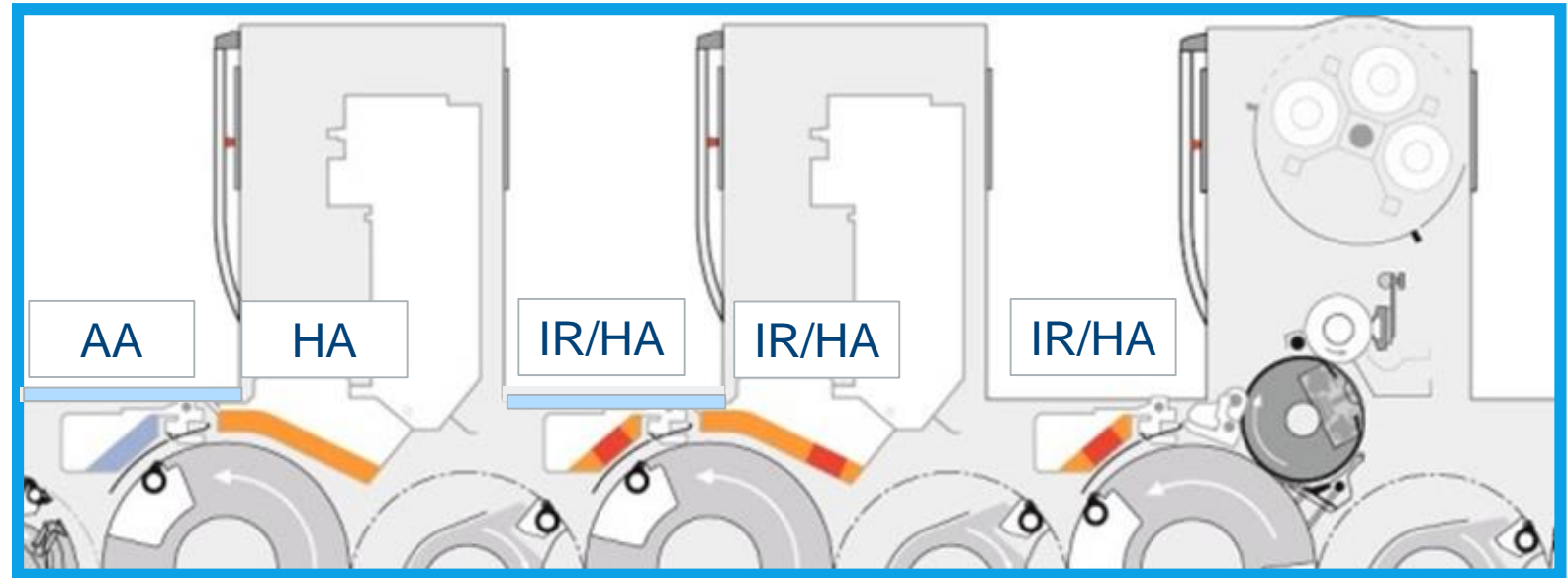
New automatic Impression Cylinder Wash Up for Coating Unit.

Saves up to 50 hours per year of manual wash up.

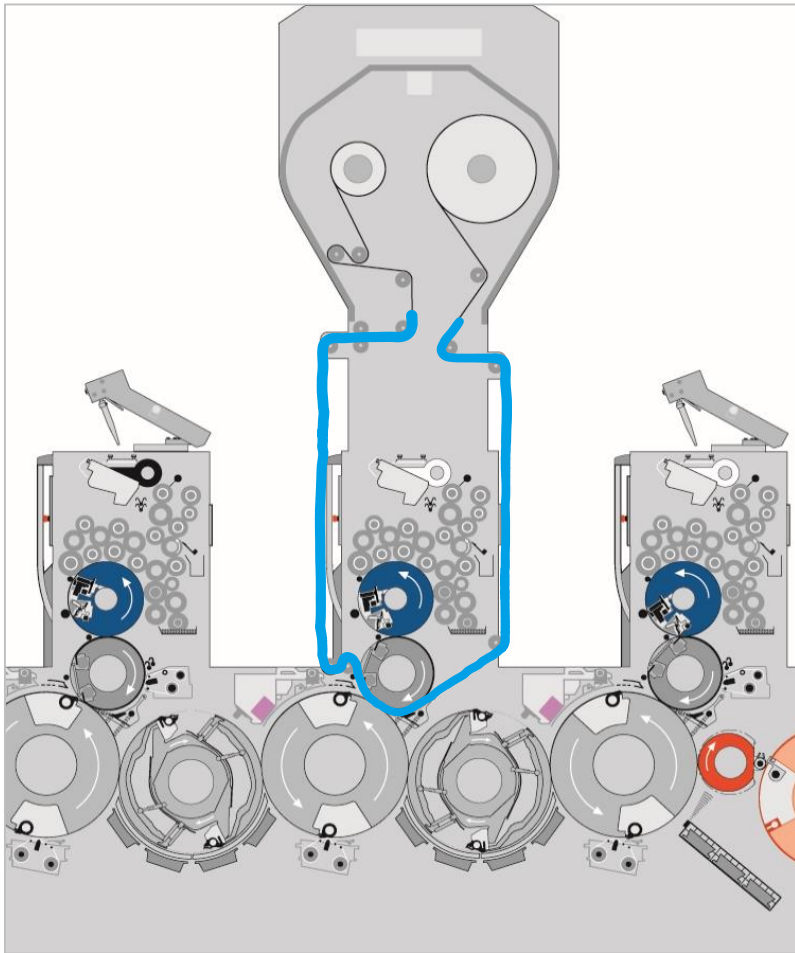


New up to 18.000 sph. Speedmaster XL 106 One Pass Productivity with aqueous coating on both sides inline in one pass (L-P-L).

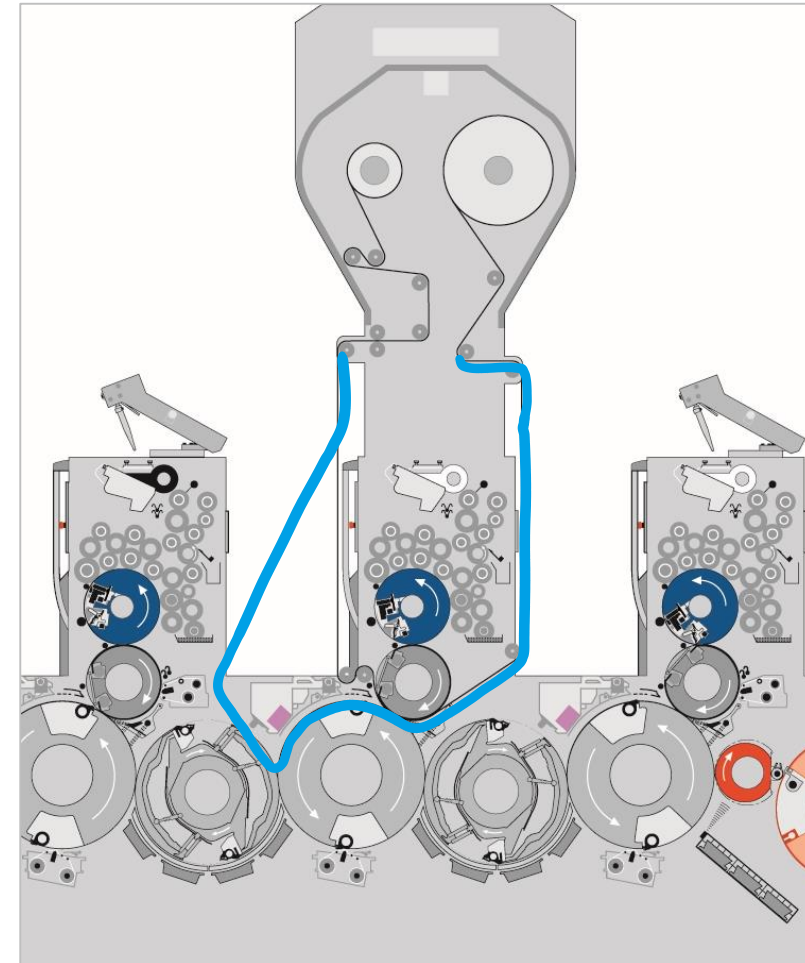
- Optimized DryStar package
 - Infrared (IR)
 - Hot-Air (HA)
 - Ambient-Air(AA)
- Qualified Saphira Coatings
 - Matt and semi matt qualified without restrictions in speed on all substrates up to 400% ink coverage
 - Gloss Coating depending on substrate and ink coverage successfully qualified up to 18k sph



Neu FoilStar Cure. Alternative foil path allows curing through the foil.
Improved adhesion on plastic material, Cast & Cure holograms possible.



Standard foil guiding



New foil guiding

New LotoTec® Ink Rollers



- Excellent wash up result
- No 2nd wash up required
- High dimension stability
- Excellent printing capabilities



Drupa 2020 Generation. Speedmaster XL 106.

New Speedmaster Operating System

- Ease of Use **USP**
 - New user levels
 - New Directstart function
- Enhanced operator navigation functions **USP**

New Prinect Press Center 3/XL3

- New 24-inch touch screen **USP**
- New LED illumination technology

New Prinect Inpress Control 3 **USP**

- Inline colorimetric measurement
- Accelerated measurement (sheet #30)
- New intelligent operation assistant

New Prinect Inspection Control 3 **USP**

- Inline PDF check
- Intellstart 3 automated make ready
- Failure prioritizing

New integrated automatic deep cleaning function **USP**

New Hycolor Pro - Remote controlled Dampening **USP**

New Roller Check Assistant **USP**

FoilStar Pro Cure **USP**

Wallscreen XL **USP**

- Improved Intellistart 3
- Improved Quality Assist 3

New light weight blanket wash up modules (-20%)

Fully automatic wash up of impression cylinder in coating unit **USP**

35% faster plate change with AutoPlate XL 3

Up to 1,6 mm substrates

Improved automatic Nonstop-Delivery **USP**

Inline waste extraction in perfecting (UV) **USP**

New LotoTec rollers in the inking unit

Speed 18k for L-P-L aqueous **USP**

Intelliline LED navigation **USP**

Plate to Gallery Plate to Unit

Powder Assist **USP**

New low volume coating supply



New Plate Logistic Software tracking **USP**

- New status information about the plate trolleys on the Wallscreen XL

Prinect Production Manager

- New central color data base (color/paper white)
- New central press functions
- Improved analyze tools

New Waste Management Press

- Easy presetting of all integrated devices
- Device Assistant
- Detailed reports

New CodeStar Inkjet coding on infeed

New Security Printing features

- Rainbowprinting with "sit on top" ink fountain **USP**
- Image Control rainbow measurement **USP**



Drupa 2020 Generation. Speedmaster XL 145/162.

New Speedmaster Operating System

- Ease of Use
 - New user levels
 - New Directstart function
- Enhanced operator navigation functions

USP

USP

Wallscreen XL

- Improved Intellistart 3
- Improved Quality Assist 3

USP

Prinect Production Manager

- New central color data base (color/paper white)
- New central press functions
- Improved analyze tools

New Waste Management

- Easy presetting of all integrated devices
- Device Assitant
- Detailed reports

New Prinect Press Center 3/XL3

- New 24-inch touch screen
- New LED illumination technology

USP

New Prinect Inpress Control 3

- Inline colorimetric measurement
- Accelerated measurement (sheet #30)
- New intelligent operation assistant

USP

New Prinect Inspection Control 3

- Inline PDF check
- Intellstart 3 automated make ready
- Failure prioritizing

USP

New 18k sph for
Speedmaster XL 162

New LotoTec rollers in
the inking unit

Plate to Gallery
Plate to Unit

New Inline Slitter
technology

Up to 25% faster plate
change

New
Roller Check Assistant

USP

New Plate Logistic Software tracking

- New status information about the plate trolleys on the Wallscreen XL

USP

New
Powder Assist

USP

New thin material
package

New Intelliline
LED navigation

USP

New
CutStar 162

USP





Drupa 2020 Generation. Speedmaster XL 75

New Speedmaster Operating System

- Ease of Use **USP**
 - New user levels
 - New Directstart function
- Enhanced operator navigation functions **USP**

New Prinect Press Center 3/XL3

- New 24-inch touch screen **USP**
- New LED illumination technology **USP**

New Prinect Inpress Control 3

- Inline colorimetric measurement **USP**
- Accelerated measurement (sheet #30)
- New intelligent operation assistant

New Prinect Inspection Control 3

- Inline PDF check **USP**
- Intellstart 3 automated make ready
- Failure prioritizing

New Roller Check Assistant **USP**

Wallscreen XL

- Improved Intellistart 3 **USP**
- Improved Quality Assist 3

New 16.500 sph standard
for straight presses

New LotoTec rollers in
the inking unit

New integrated auto
protect for rollers **USP**

USP
Powder Assist

New low volume
coating supply

New ergonomic
XL 106 design

New integrated automatic
deep cleaning function **USP**

Intelliline
LED navigation **USP**

New CutStar 75 **USP**



New Waste Management Press

- Easy presetting of all integrated devices
- Device Assitant
- Detailed reports

Prinect Production Manager

- New central color data base (color/paper white)
- New central press functions
- Improved analyze tools

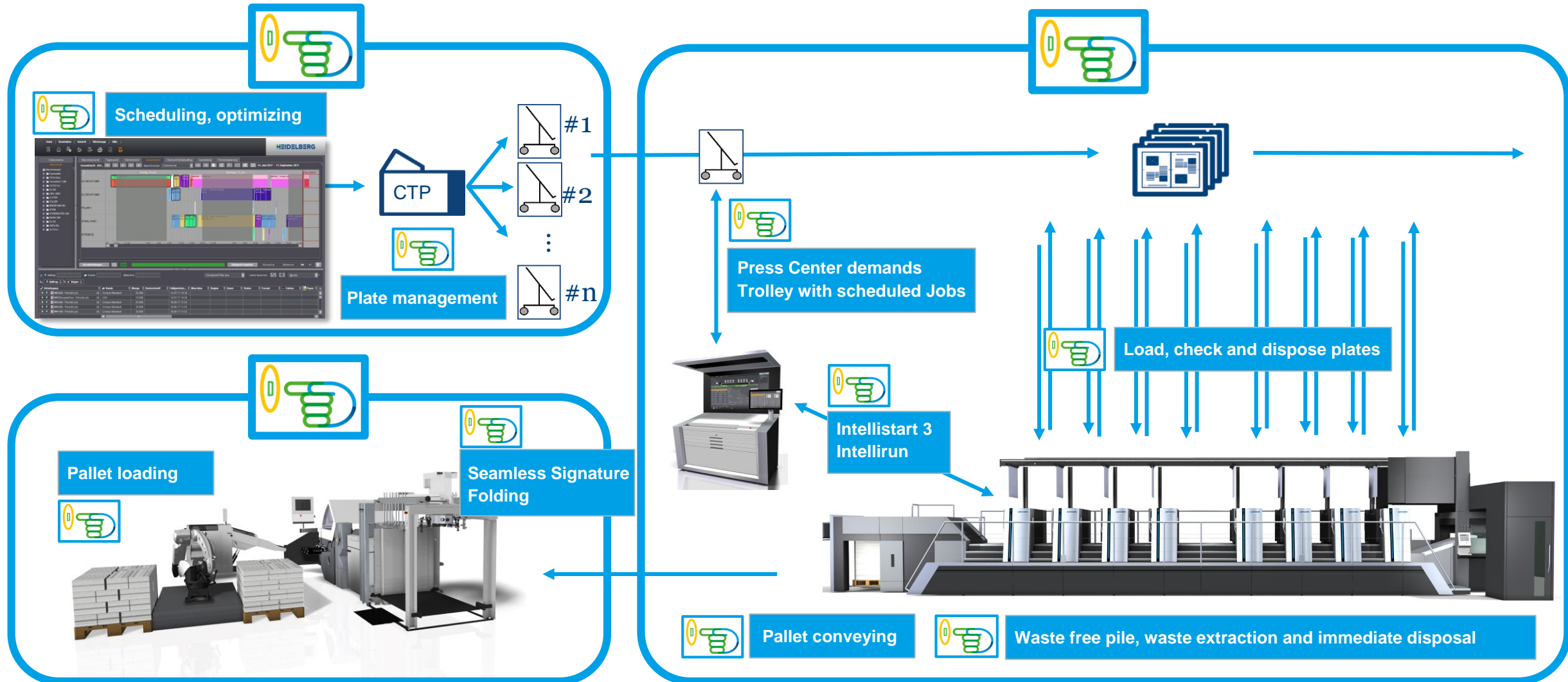
New Plate Logistic Software tracking

- New status information about the plate
trolleys on the Wallscreen XL **USP**



Push to Stop
End to End

Push to Stop End to End – the next Level. Automized Production Chain Printing+Folding.



Fokus on the „Yellow Bar“



How big is the
„yellow bar“
in your print shop?





The new Speedmaster Drupa 2020 Generation.
The most intelligent and most automated Speedmaster ever.





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