

# Heidelberg Solutions for Folding Carton Production



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# Heidelberg Web Carton Converting GmbH



FNG – Flexo New Generation Folding Carton Printing Press\*



\*German and Worldwide Patents Applied for – Appl. # 06143/ 17P 06143 DE2

# Integrated Product Portfolio

## Consumables, Services and Equipment



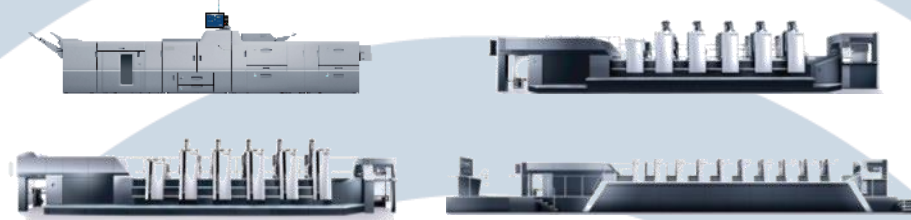
Commercial

Packaging

Label



**PREPRESS**



**PRESS – OFFSET & DIGITAL**



**POSTPRESS**

Lifecycle  
Solutions

 **Prinect Workflow Integration** 

 **Saphira Consumables** 

 **Heidelberg SystemService** 

# Speedmaster Portfolio for Packaging



Speedmaster XL/CX 75



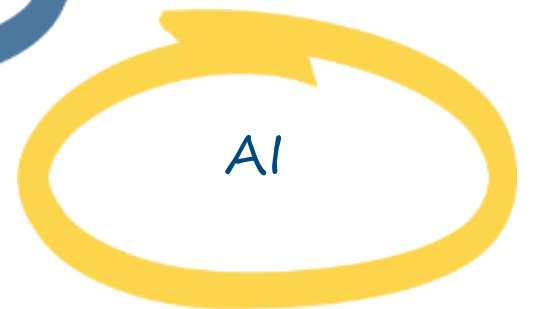
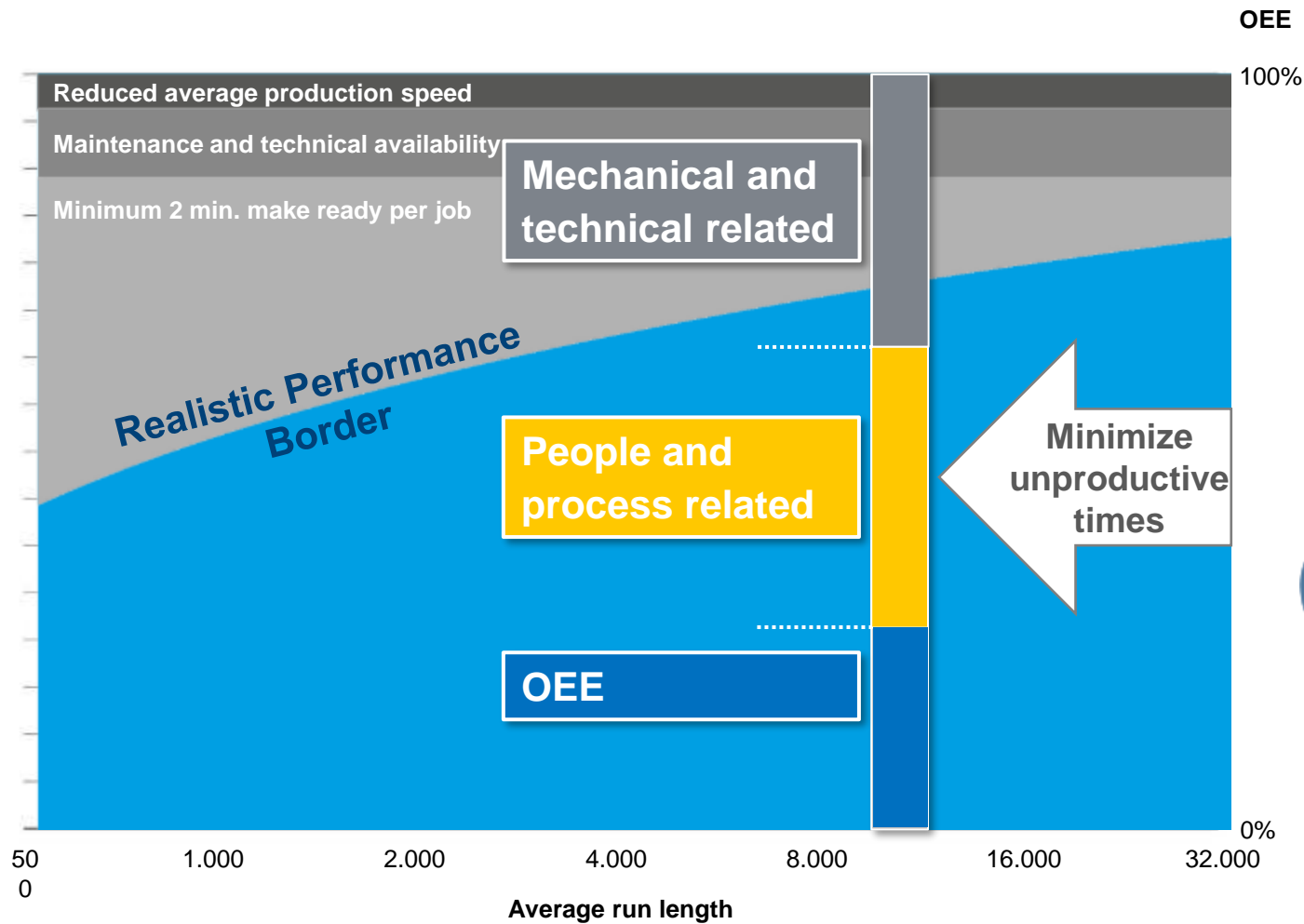
Speedmaster CX 104



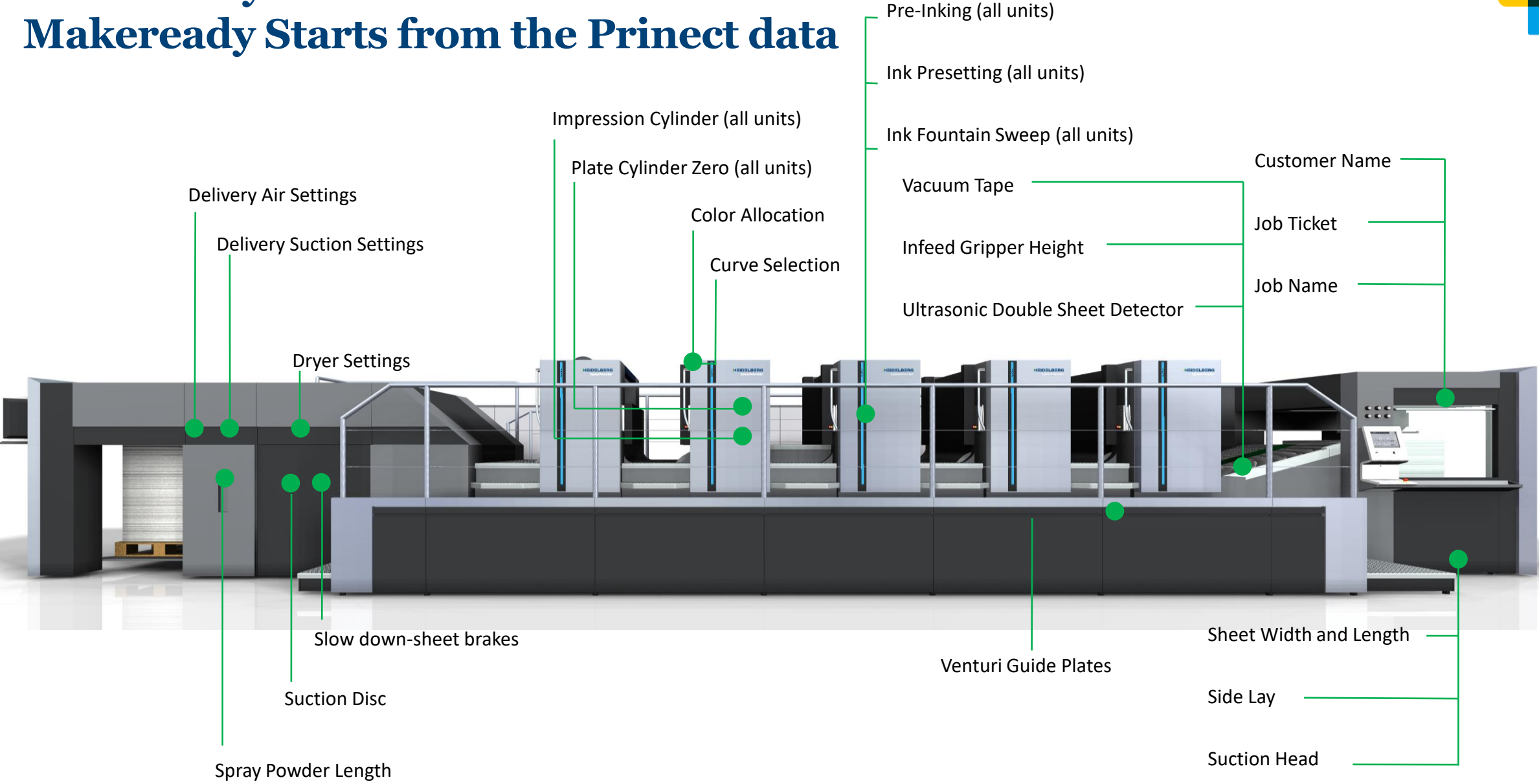
Speedmaster XL 106

# What is our goal ?

## Minimize the influence of operator skill level on the production performance



# Powered by Prinect Makeready Starts from the Prinect data



# The most intelligent and automated Speedmaster ever!

## The new Heidelberg User Experience (UX)



Air Assistant

Quality Assist

Intellistart

Color Assistant Pro

Roller Check Assistant

Intelliguide

Color Fast Solution

Wash Assistant

Intellirun

Device Assistant

Powder Assistant

Intelliline

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



# Artificial Intelligence (AI) Optimization of press settings

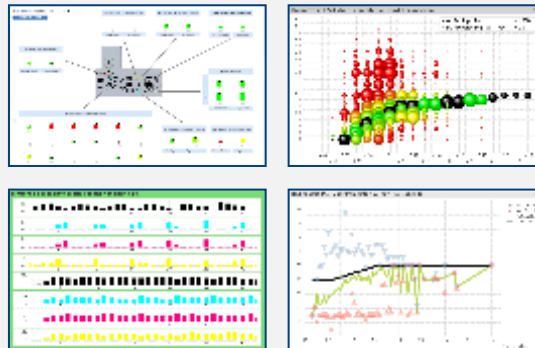


## Preset 2.0

Analysis of the settings of a pool of reference presses

~ 180 machines  
~ 300,000 jobs

Optimized characteristic curves for all machines

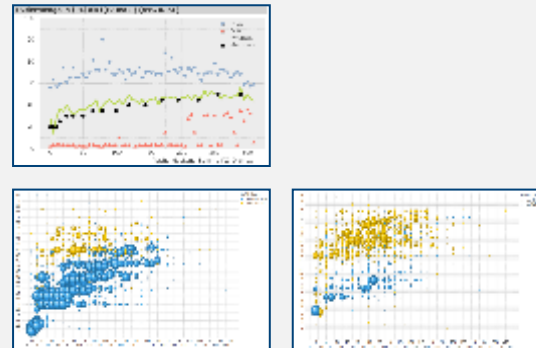


## Powder Assist

Basic characteristic curve based on data of reference presses

Customer specific parameterizable characteristic curve for one press

One day instruction necessary !

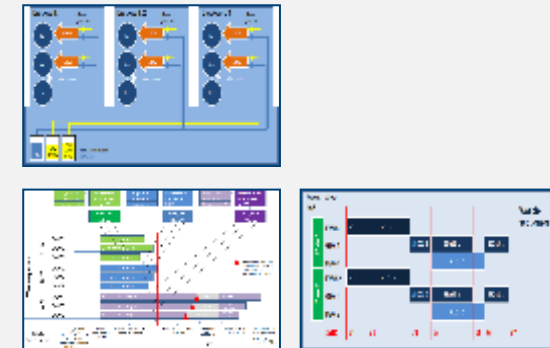


## Wash Assist

Data recording from reference presses

Calculation of pollution degree

Proposal washing program  
(Customer specific parameterizable)



➤ In the US 2020 : 5 Heidelberg XL presses in Folding Carton produced more than 60,000,000 sheets

# MK—Investing for a New Chapter of Success



# Die-Cutting and Hot-Foil Stamping Solutions



**Commercial:**  
Digimatrix 60 C  
Digimatrix 60 FC  
Easymatrix 106 C  
Easymatrix 106 CS  
Easymatrix 106 FC



**High-Volume Folding-Carton:**  
Powermatrix 106 CSB  
Mastermatrix 106 CSB

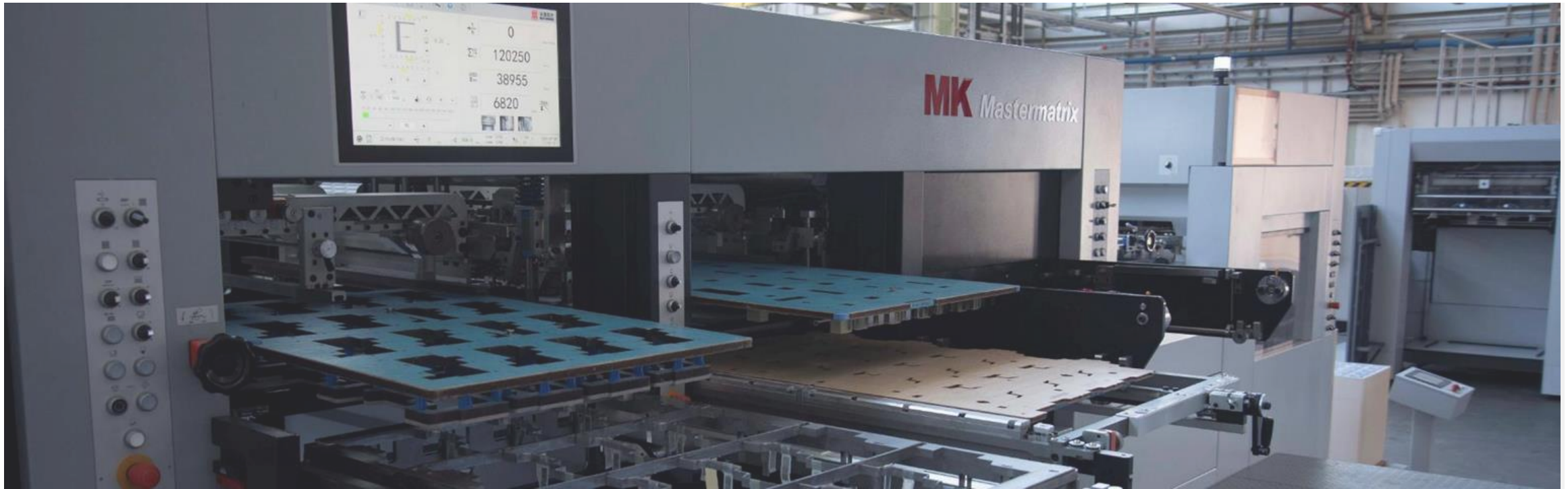


**Folding Carton:**  
Promatrix 106 FC  
Promatrix 106 CS  
Promatrix 106 CSB



**One Pass Productivity:**  
Duopress 106 FC  
Duopress 106 FCS  
Duopress 106 FCSB

# Mastermatrix 106 CSB



- Optical sheet registration
- Cam driven
- 9,000 sheets/hour
- Quicklock Tooling throughout



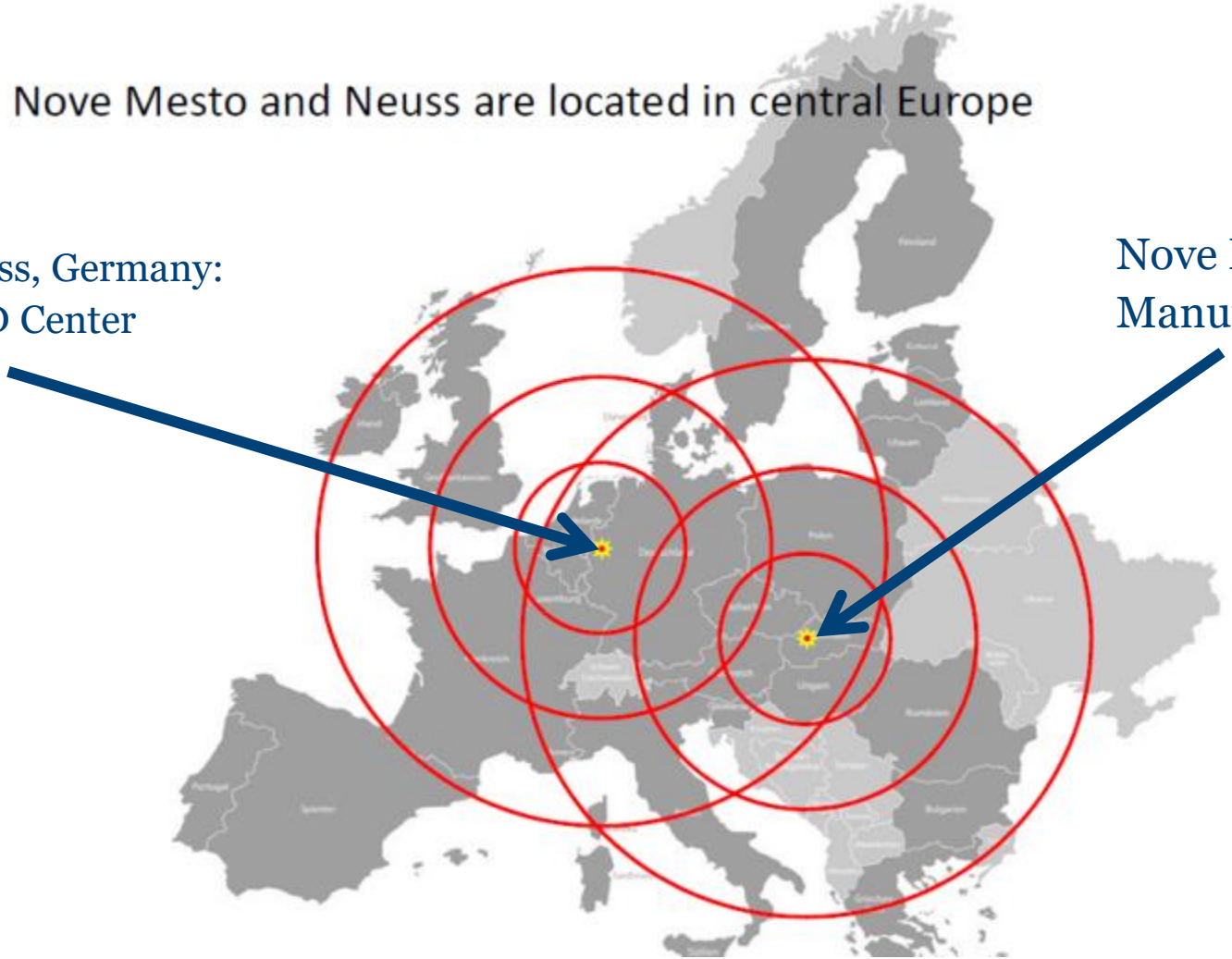
# Diana: The Name of Folding Carton Gluing



Nove Mesto and Neuss are located in central Europe

Neuss, Germany:  
R&D Center

Nove Mesto, Slovakia:  
Manufacturing



# Four Lines of Diana Folder Gluers and the Diana Eye



**Commercial:**  
Diana GO 85  
**Packaging / Commercial:**  
Diana Easy 85 B / C  
Diana Easy 115 B / C



**Defect Detection:**  
Diana Eye 42  
Diana Eye 55



**Folding Carton:**  
Diana Smart 55 A / B  
Diana Smart 80 A / B / C  
Diana Smart 115 A / B / C



**High-Volume Folding Carton:**  
Diana X 115 A / B / C  
Diana X 115 CC  
Diana X 115 X (Specialty, e.g. Turning Module etc.)

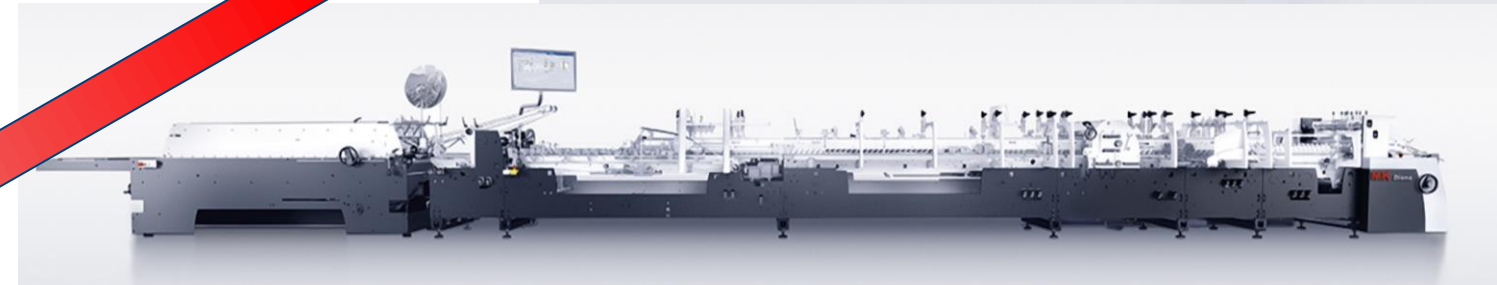
# The Diana Range - Overview



→ Diana X 115-2



➤ Increasing performance and capability



→ Diana Smart 55 / 80 / 115



→ Diana Easy 85 / 115

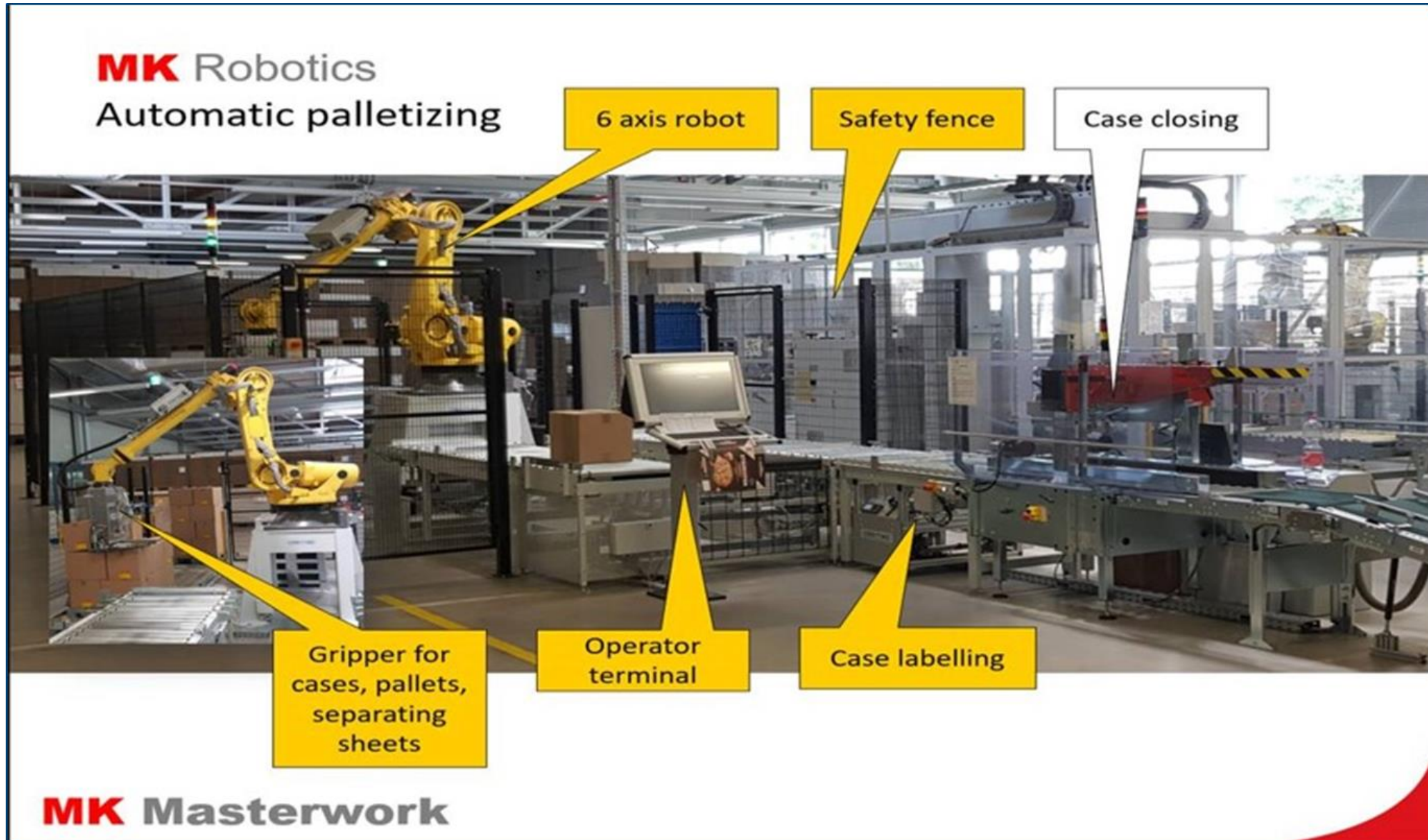


→ Diana Go 85

# Diana Inspector – 100% Image Inspection - Inline



# Robotics for Finishing Department





# Thank you !!

