



Langley Group




Founded: 1975

Langley Holdings plc is a diverse, globally operating engineering group headquartered in the United Kingdom.

The Group comprises 7 divisions based principally in Germany, France, Italy and the United Kingdom, with a substantial presence in the United States and more than 80+ subsidiaries worldwide.

Established in 1975 by the current Chairman and CEO, Tony Langley, the Langley group is financially independent and remains under family ownership. The group employed around 4,600 people world wide in 2020.



-  **7 Divisions**
-  **80+ subsidiaries**
-  **Over 4,600 employees**

langleyholdings.com





LANGLEY

Manroland Sheetfed

Founded: 1871

Manroland Sheetfed GmbH is a leading German manufacturer of sheetfed offset litho printing presses. Offering the very latest in print technology, Manroland is a watchword for quality and reliability to printers around the world.

Manroland Sheetfed was acquired by the Langley group in 2012. The company is headquartered and produces all of its iconic presses in Offenbach am Main, near Frankfurt, in Germany.



 **Printing press builder**

 **€214.7m**

 **1,412**

manrolandsheetfed.com



manroland sheetfed

**A WATCHWORD FOR QUALITY AND
RELIABILITY TO PRINTERS WORLDWIDE**

The ROLAND 900 *EVOLUTION* family pushes the boundaries for what is possible in large format offset printing.



PILLER

Power Systems



A LEADING PRODUCER OF UPS AND
POWER CONDITIONING SYSTEMS

PILLER UPS systems are an essential part of the
critical infrastructure of data centres worldwide.



LANGLEY

Piller

Founded: 1909

Piller Power Systems is Europe's leading producer of uninterruptible power supply (UPS) systems for high-end data centres. Piller also manufactures ground power systems for civil and military airports and on-board electrical systems for naval vessels.

Acquired by Langley in 2004, Piller is headquartered at Osterode am Harz, near Hanover, in Germany.

In 2016 Piller acquired Active Power, the Austin Texas-based flywheel UPS specialist.



📍 Power protection for data centres, healthcare, industrial and manufacturing, aircraft ground power, naval and military systems

€ €171.8m

👤 918

piller.com



Marelli Motori

Inspired solutions

LEADING MANUFACTURER OF
ELECTRIC MOTORS AND GENERATORS

Marelli Motori designs and manufactures electric motors and generators for the industrial, marine, hydropower and oil & gas sectors.

Marelli Motori

Founded: 1891

Marelli Motori is a leading Italian manufacturer of electric motors and generators. Founded in northern Italy, the company enjoys worldwide brand recognition in the marine, oil & gas, power generation, co-generation, hydro and other industrial sectors.

The company is headquartered in Arzignano, near Verona, and has extensive manufacturing facilities in Italy with subsidiaries in Germany, Malaysia, South Africa, USA and the United Kingdom. Marelli Motori was acquired by Langley Holdings in May 2019.



 **Motors and generators**

 **€98.2m**

 **631**

marellimotori.com



CLAUDIUS PETERS



PLANT MACHINERY FOR
CEMENT, GYPSUM, ALUMINA
AND STEEL PRODUCTION

CLAUDIUS PETERS: Our plant machinery specialist,
produces capital equipment for cement plants.

Claudius Peters

Founded: 1906

For more than a century Claudius Peters has been producing innovative materials handling and processing systems for the global cement, gypsum, alumina and steel industries.

The company's aerospace division manufactures aircraft stringers, several kilometres of which can be found in every commercial aircraft ever built.

Claudius Peters is headquartered near Hamburg, in Germany and was acquired by Langley Holdings in 2001.



 **Plant machinery and aerospace components**

 **€80.2m**

 **459**



claudiuspeters.com



ARO

Welding Technologies

Founded: 1949

ARO Welding Technologies SAS is widely regarded as the world's leading producer of resistance welding equipment to the automotive industry.

The company was acquired by Langley Holdings in 2006 and is headquartered in Château-du-Loir near Tours, in the Loire region of France. The company also produces in Detroit in the United States and in Wuhan, China.

Reduced model development times, complex structures and the use of aluminium in car production to reduce weight have all led to strong demand for ARO's products.



 **Welding technology**

 **€71.4m**

 **459**

arotechnologies.com



**WORLD LEADERS IN
AUTOMOTIVE WELDING
TECHNOLOGY**

ARO: World leaders in resistance welding technology supplying to the automotive and other industries worldwide.

DRUCK CHEMIE

PRINT LIQUIDS TECHNOLOGY

CHEMICALS AND CONSUMABLES
FOR THE PRINT INDUSTRY

Druck Chemie Service Tour vehicle. Close, regular
contact for complete customer support.



LANGLEY

Druck Chemie

Founded: 1971

Druck Chemie is a leading supplier of speciality chemicals, consumables and services for the printing and graphics industries with subsidiaries throughout Europe and South America.


Druck Chemie works in partnership with all leading printing press manufacturers including Manroland, Heidelberg, Goss, KBA, Komori and Mitsubishi.

In 2020, Druck Chemie acquired printing chemicals consumables manufacturers BluePrint Products NV and HiTech Chemicals BV.



 Printing chemicals consumables

 €59.4m

 297

druckchemie.com



READER
CEMENT PRODUCTS

**CLARKE
CHAPMAN**

**Oakdale
HOMES**



**Bradman Lake
Group**

Integrated Packaging Technology

**FOOD PACKAGING, SPECIALIST CRANES,
CEMENT PRODUCTS AND HOUSE BUILDING**

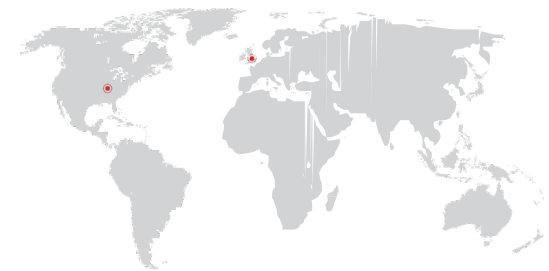
Other Langley Holdings businesses comprise process and packaging machinery, industrial cranes, specialist cement products and house building.



LANGLEY

Other Businesses

Other businesses operating at locations in the United Kingdom and United States, include: Bradman Lake, a producer of packaging machinery for the food industry; Clarke Chapman a specialist materials handling equipment manufacturer; Reader Cement Products and; Oakdale Homes, a local residential property builder.

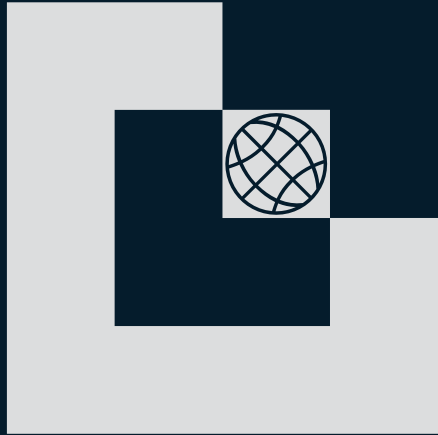


 **Diverse capital equipment, construction**

 **€71.0m**

 **485**

langleyholdings.com



LANGLEY

80+ Subsidiaries Worldwide

17 Manufacturing Sites



Global Locations



Argentina Buenos Aires | Asia Pacific Singapore | Australia Sydney | Austria Wiener Neudorf | Belgium Brussels, Wemmel | Brazil São Paulo | Bulgaria Sofia | Canada Toronto | Chile Santiago | China Beijing, Chengdu, Guangzhou, Hong Kong, Shanghai, Shenzhen, Wuhan | Columbia Bogota | Croatia Zagreb | Czech Republic Prague, Kuřim | Denmark Ballerup | Finland Vantaa | France Château-du-Loir, Mulhouse, Paris, Soppe-Le-Bas | Germany Augsburg, Elze, Frankfurt, Hamburg, Hanover, Stuttgart | Hungary Budapest | India Mumbai | Indonesia Jakarta | Ireland Dublin | Italy Arzignano, Bergamo, Milan | Japan Saitama | Malaysia Shah Alam | Mexico Puebla | Netherlands Amsterdam, Helmond | Peru Lima | Poland Nadarzyn, Gniezno | Portugal Sintra | Romania Bucharest, Sibiu | Russia Moscow | Slovakia Bratislava | Slovenia Ljubljana | South Africa Cape Town, Johannesburg | Spain Barcelona, Madrid | Sweden Fjärås, Trollhättan | Switzerland Kirchberg | Taiwan New Taipei City | Thailand Bangkok | United Kingdom Various Locations | USA Austin TX, Dallas TX, Detroit MI, New York, Norcross GA, Rock Hill SC, Westmont IL | Venezuela Caracas

Welcome to the Family

ROLAND 700
EVOLUTION

LITE

ROLAND 700
EVOLUTION

ELITE

ROLAND 700
EVOLUTION

SPEED

- Legendary quality, entry level specification/ configuration for all who want to enter the high performance machine class
- The Allrounder for all applications and Market Segments
- Racing horse for packaging printing and High volume converting

ROLAND 700 *Evolution Lite*



reddot design award
winner 2015

(R)Evolution in
Technology and
Design

Technical Data

15.000 sph

Sheet format: 750 x 1.050 mm

Print format: 715 x 1.030 mm

Plate format: 785 x 1.040 mm

Stock thickness: 0,04 - 1.0 mm

(widest range in the market)

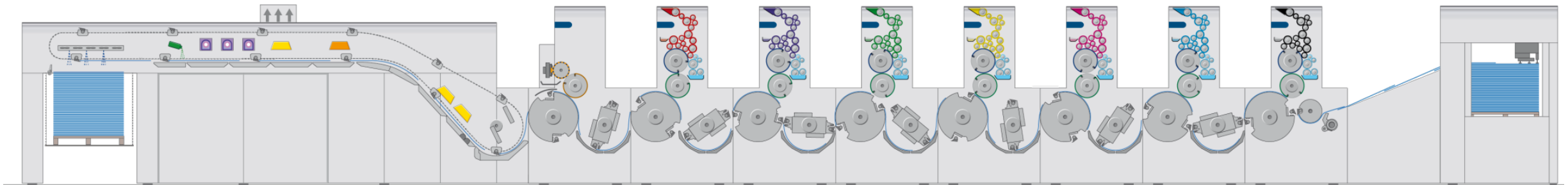
Plinth heights: 334mm or 667mm

3B plus Format

Sheet format: 780 x 1050 mm

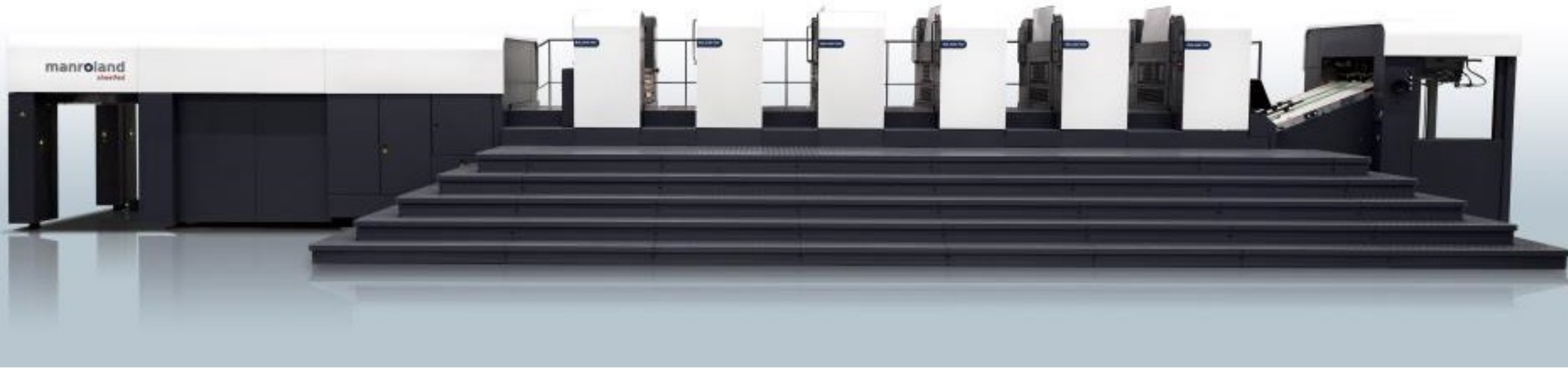
Print format: 770 x 1040 mm

Plate format: 850 x 1050 mm



ROLAND 700 Evolution *Elite*

manroland
sheetfed



(R)Evolution in
Technology and
Design

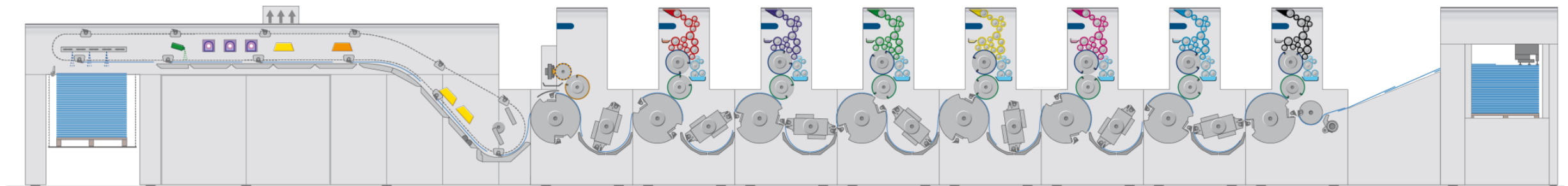
Technical Data

Speed

- 16.000 sph or 18.000 sph*
- In perfecting mode: 16.000 sph

Formats

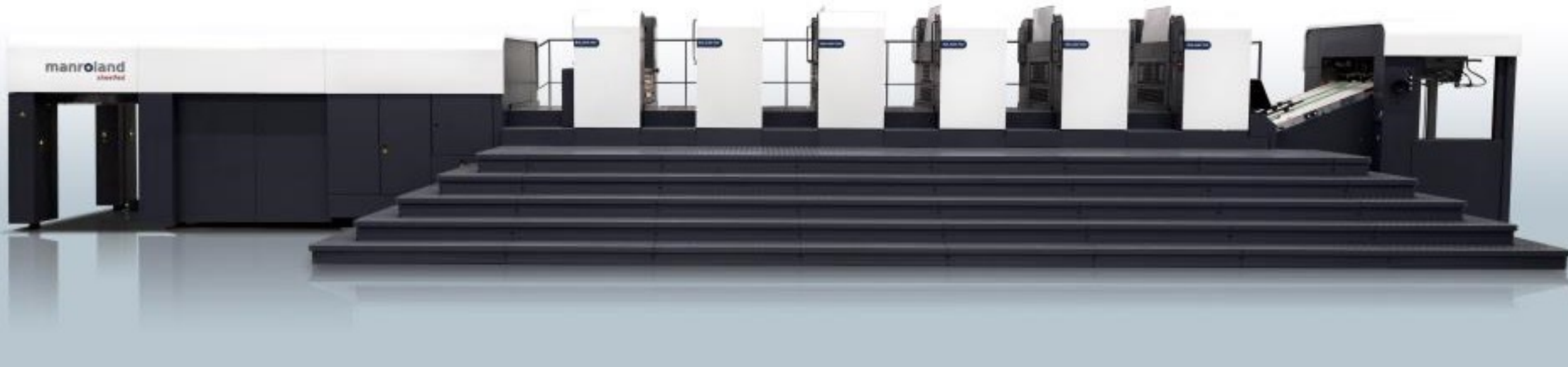
- Sheet format: 750 x 1.060 mm
780 x 1.050 mm (3B plus)
- Print format: 740 x 1.050 mm
- Plate format: 810 x 1.060 mm
- Stock thickness: 0,04 - 1.0 mm (widest range in the market)
- Plinth heights: 334mm or 667mm



* Maximum speeds and performance parameters stated merely designate the maximum possible mechanical performance of the press

ROLAND 700 Evolution *Speed*

manroland
sheetfed



(R)Evolution in
Technology and
Design

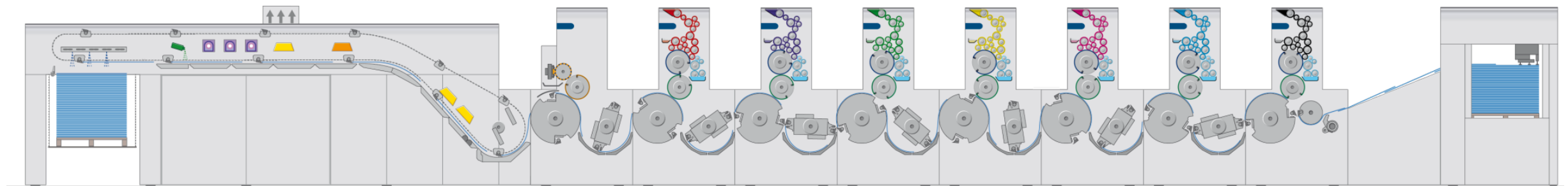
Technical Data

Speed

- 20.000 sph*
- Stock thickness: 0,04 - 1.0 mm (widest range in the market)
- Plinth heights: 334mm or 667mm

Formats

- Sheet format: 750 x 1.050 mm
Print format: 715 x 1.030 mm
Plate format: 785 x 1.040 mm



* Maximum speeds and performance parameters stated merely designate the maximum possible mechanical performance of the press



KEYSTONE CHOOSES ROLAND EVOLUTION SPEED

THE 20,200 SPH PRESS IS EXPECTED TO DOUBLE OUTPUT AT THE CARTON MANUFACTURER'S NORTHEAST US FACILITY.

Keystone Paper Box & Co. has purchased the 20,200 sph Roland 700 Evolution Speed for its South Windsor, Connecticut facility. Founded in 1944, the privately-held family owned business attributes much of its success to providing a high level buying experience coupled with best-in-class product quality. The company serves a diverse market and recently experienced a large up-tick in demand for cosmetic, pharma and beverage carrier packaging.

When the opportunity to replace its aging fleet of offset presses presented itself, the company turned to Manroland Sheetfed and the Evolution printing press to fill its production capacity and springboard to a new press technology level. The new press is equipped with the latest UV technology as well as embellishment capabilities through an in-line foiling system with indexing and multi-reel foils, coupled with a litany of automation features.

"After researching three of the significant press vendors, we opted for Manroland Sheetfed and the Evolution Speed press," says Jim Rutt, President and owner of Keystone Paper & Box. "The press's technology from the color control and quality systems, the autonomous makeready

features, and more importantly, a fully integrated factory solution for cold foiling gives Keystone a competitive advantage. We're going to be a lot more efficient with this press."

Keystone's 40-inch format eight-color press is fully optioned, equipped with paperboard and smart-card



performance packages for quick changeover and ease of operation and Simultaneous Plate Loading (SPL) for autonomous makeready changeover, exchanging all printing

plates in under one minute while simultaneously washing up the blanket and impression cylinder.

"When I was first introduced to the new state-of-the-art Manroland EVO Speed, it certainly caught my attention," says Bob Papa, Keystone Vice President of Operations. "Once we took a deeper dive into the features, it became apparent that this machine addresses fast makeready speeds and low waste in our critical short-run segment."

Additionally equipped with Manroland Sheetfed's UV-Total Flexibility package, Keystone is prepared to place Select-Dryer components at any Make-Ready Station. Moreover, the press's many features, such as the in-line foiling system, will provide avenues to growth in existing and new markets. "An integrated solution that offers savings we can pass on to our customers by indexing with full or multi-reel setups is a game-changer for us. The lowest savings percentage is 16 percent for the cylinder gap and upwards



Jim Rutt (right) President and owner, and Bob Papa, Vice President of Operations, Keystone Paper & Box.

of 60 percent (layout dependent) with any variable in between."

One of the critical factors for Keystone included the Ecologic Pilot. This feature produces on-demand reports of the kWh utilization on the press.

Keystone's requirements also included knowing its next press investment had to be the fastest production and makeready press available. With the InlineColorPilot system for color quality and control, Manroland Sheetfed delivers an autonomous system; there is no requirement to remove a sheet from the delivery to calibrate the system or create an OK sheet; it can be done in



ROLAND 900 Evolution

manroland
sheetfed

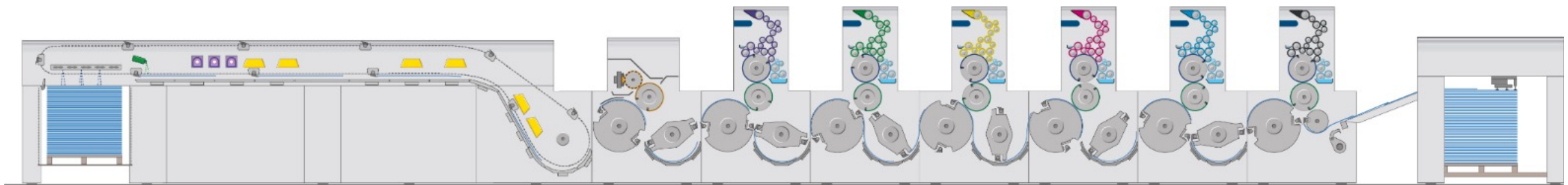


(R)Evolution in
Technology and
Design

Technical Data

Format 6B3

- Sheet format max.: 1060 x 1.450 mm
- Sheet format min.: 600 x 850 mm
- Print format max.: 1045 x 1.440 mm
- Print format min.: 590 x 850 mm
- Plate format: 1145 x 1.460 mm
- Start of Printing: 60 mm
- Stock thickness: 0,04 - 1.2 mm
- Speed 14.000 sph or 16.500 sph
- Plinth heights: 334 mm, 667 mm, 834 mm



Drive concept for highest print accuracy

A/C Drive motor

- Central position for ideal power distribution
- No change of carbon brushes

Radaxial-bearings for impression cylinder and Transferter

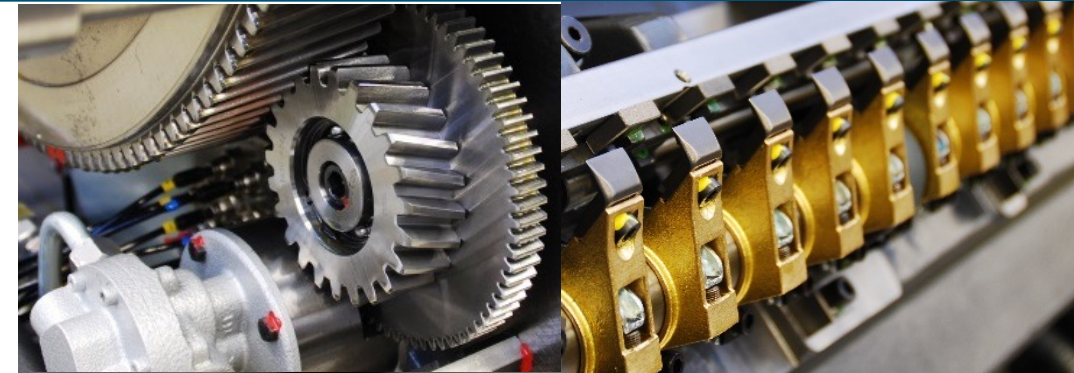
- Most stable bearing technology

New Transferter Body

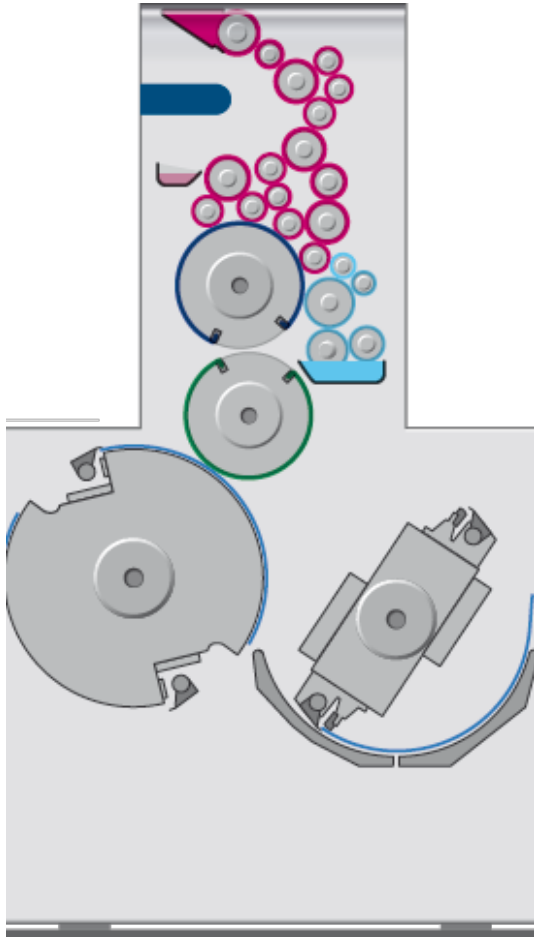
- Perfect sheet transport

Oil pumps for every impression cylinder gear

- Efficient oil supply of the printing unit
- No backlash of the gears at every machine speed and acceleration/ deceleration
- Adjustable via change of the oil pressure

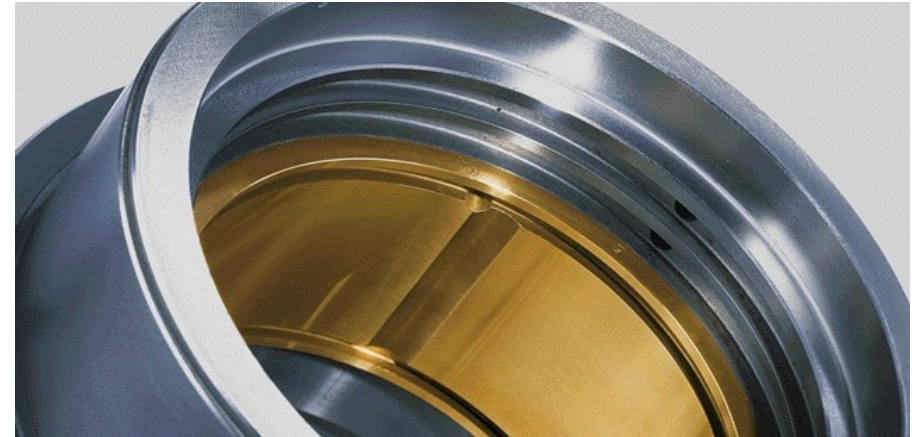


Basic concept

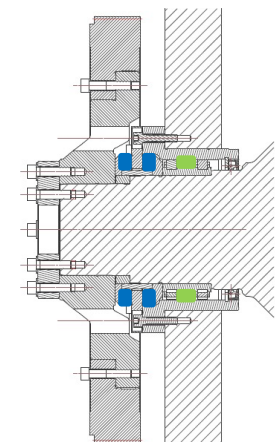


- Double diameter impression cylinder and Transferer

- Slide bearings for Plate- and blanket cylinder

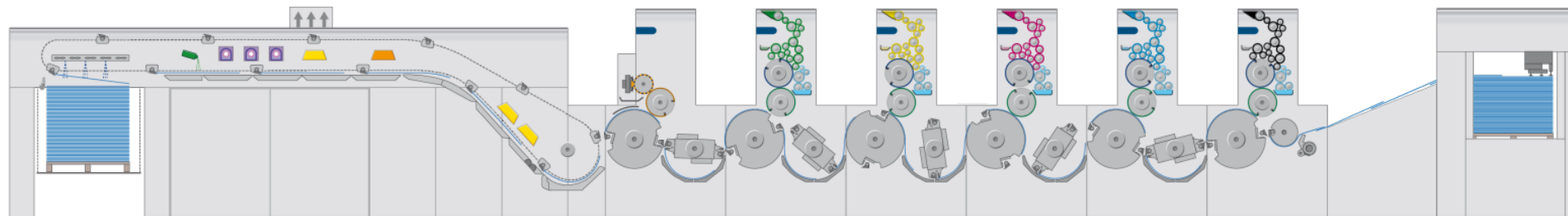


- Radaxial-bearings for Impression cylinders & Transferer



Drive concept for highest print accuracy

- Best unit to unit register, especially during speed changes
- Low cost of maintenance
- Highest stability
- Low noise emission
- Less oil in the machine
- Reduced energy consumption during production
- More detailed correction possibility of the register
- State-of-the-Art drive technology without wear and tear parts (carbon brushes)



Autoprint

- Fully automatic production
- No manual intervention
- Drastic makeready savings



Plate changing systems for new and used plates – no bending required

PowerPlateLoading – PPL

- $\frac{3}{4}$ automated plate change
- Operator only has to push down each plate onto the register pins
- The rest of the process is done fully automatic

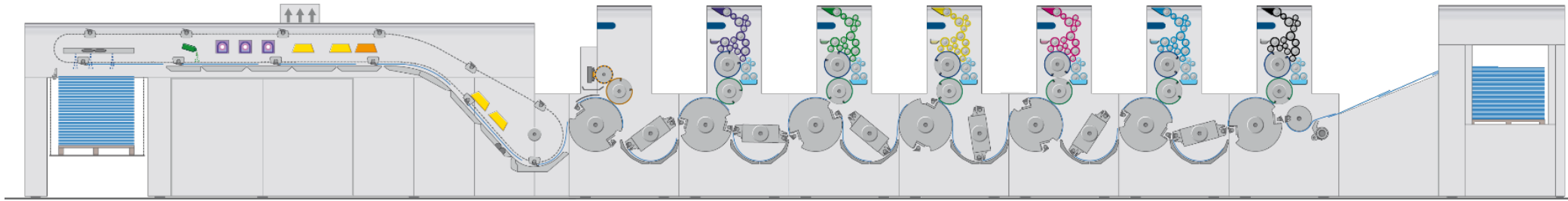
AutomaticPlateLoading – APL

- Fully automatic plate change by a push of a button
- Operator starts the process from the PressPilot

SimultaneousPlateLoading – SPL in combination with PPL and APL

- Fully automatic plate change by a push of a button or $\frac{3}{4}$ automated
- All selected units are changed at the same time

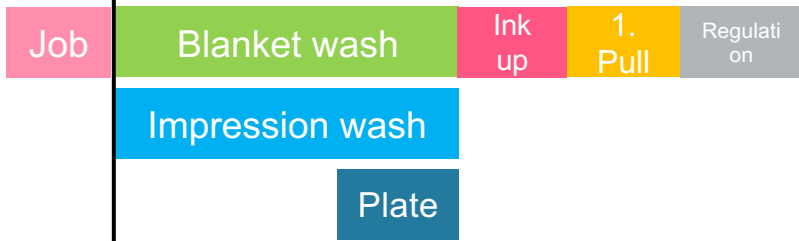
Time Savings with SPL – fully automatic Simultaneous plate change



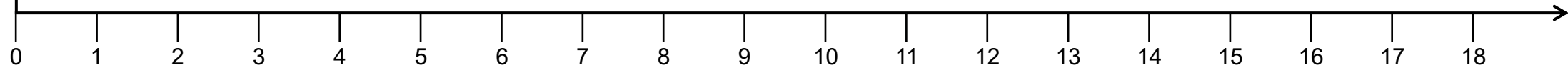
Classic 6 color press with APL and online color measurement



ROLAND 706 LV Evolution with SPL and InlineColorPilot



Over 10 minutes time savings



DirectDrive – highest Efficiency

Multitasking during make ready

Simultaneous plate change in all printing units //
Washing of all blankets & impression cylinders

**Small
job change**

Washing rollers (6000 sph) // blanket & impression cylinders (600 sph)
Changing plates // inking up

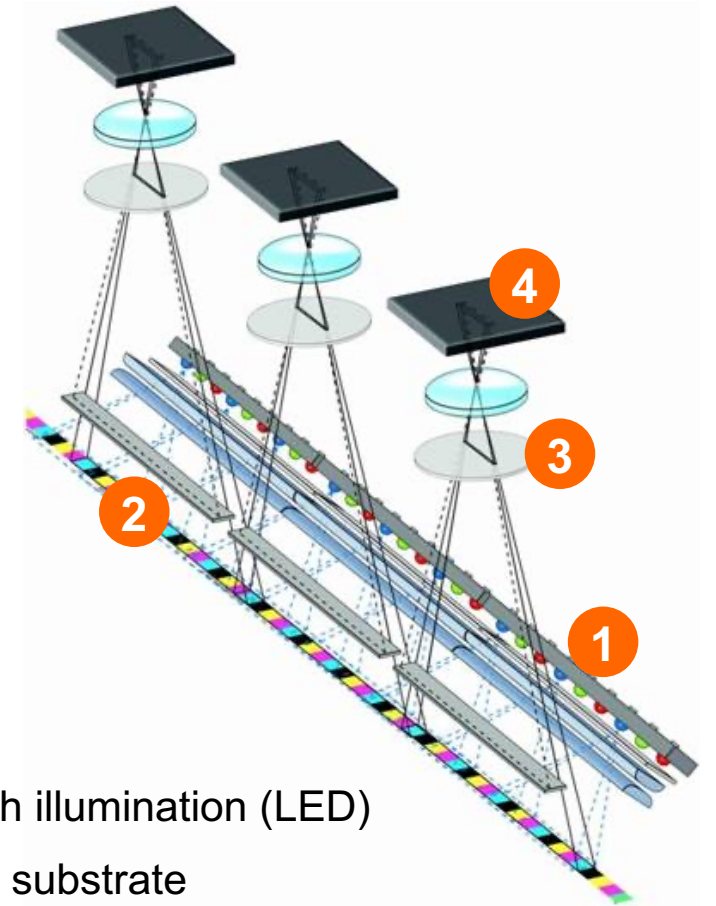
**Big
job change**

Time saving functions for production

Correction of the first line of printing: 99 mm
Electronic printing length correction (+/- 0,1 mm)
Disengageable inking units

InlineColorPilot 3.0

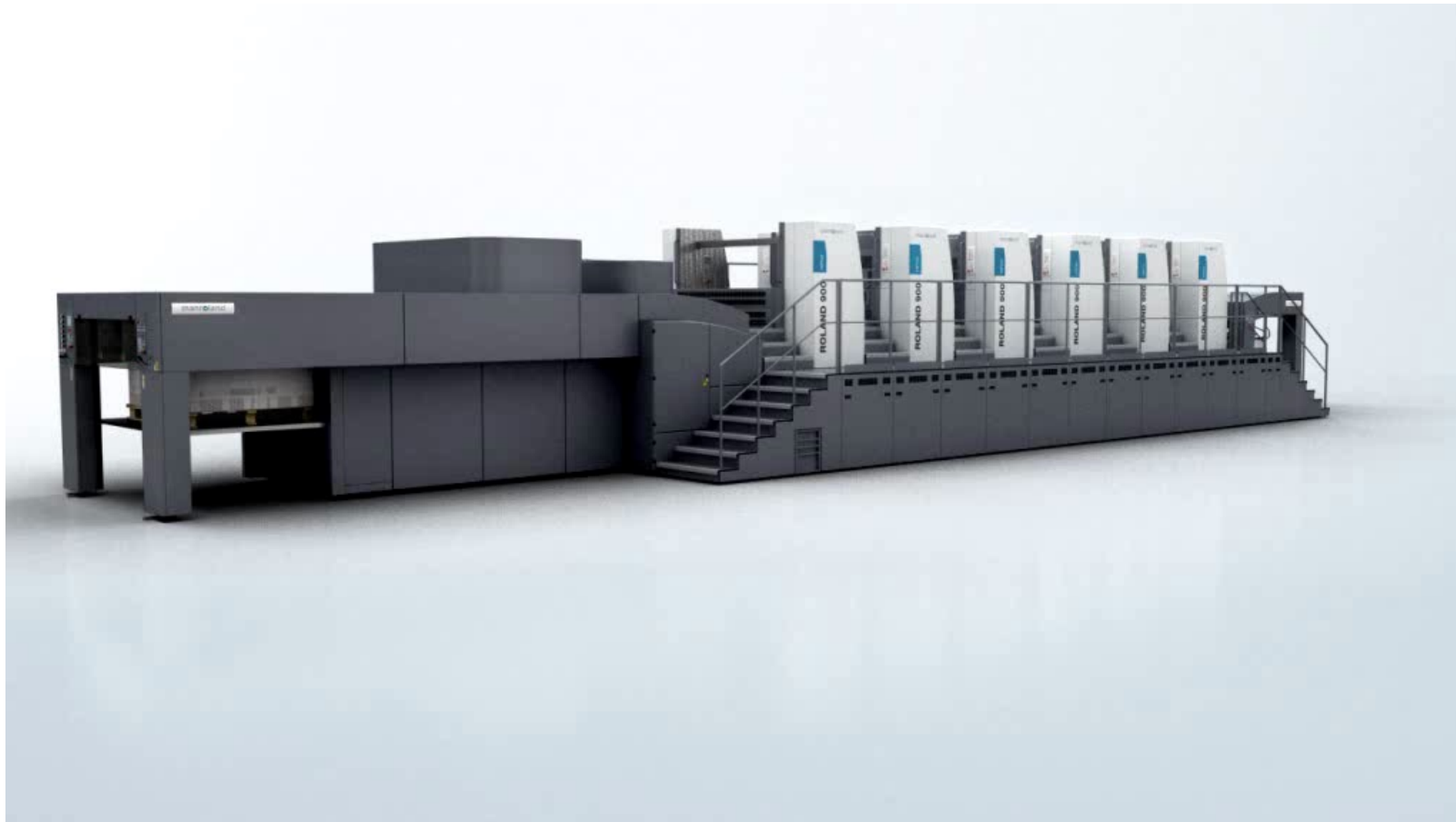
- Inline measurement of density and colorimetry
- RGB-XYZ-flash illumination with standard-conform polarization filters
- Integrated, robust travers with measuring heads - no moving parts
- Fastest system within the market:
Simultaneous measurement of all ink zones,
6 Sheets for a complete measurement
- Up to 10 colors measurable
- Spot colors are precisely measurable
- Nearly maintenance-free due to
air self-cleaning system



- 1 RGB-XYZ-flash illumination (LED)
- 2 Control bar on substrate
- 3 Optical system with polarization filter
- 4 Sensor

InlineColorPilot 3.0

- 3 sheets for a density measurement



colorbar as seen by the human eye



Measurement 1st sheet



Measurement 2nd sheet

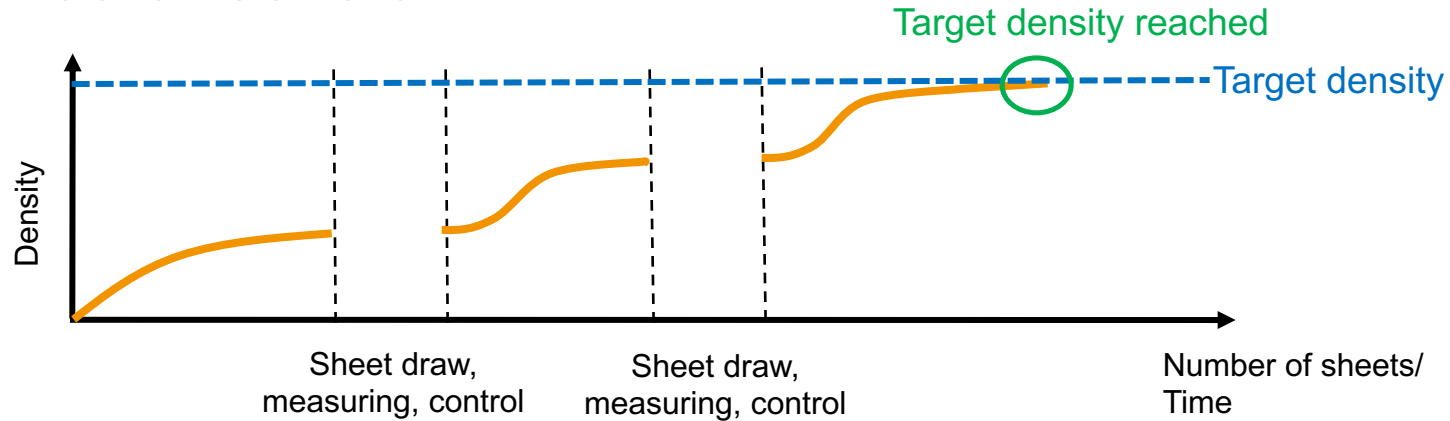


Measurement 3rd sheet

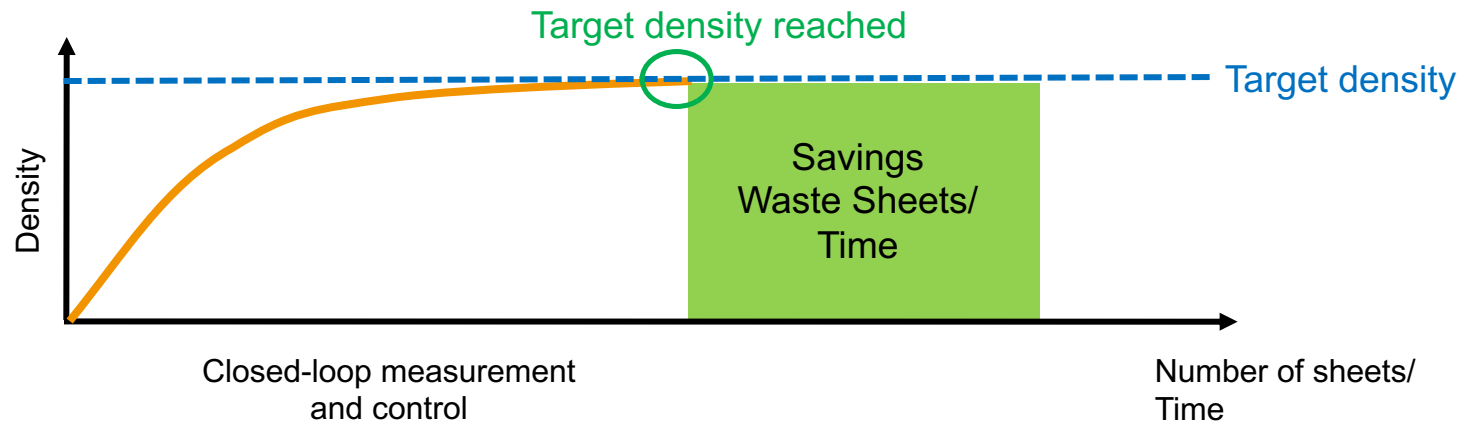


How does inline measurement enhance productivity?

■ Online - color control:

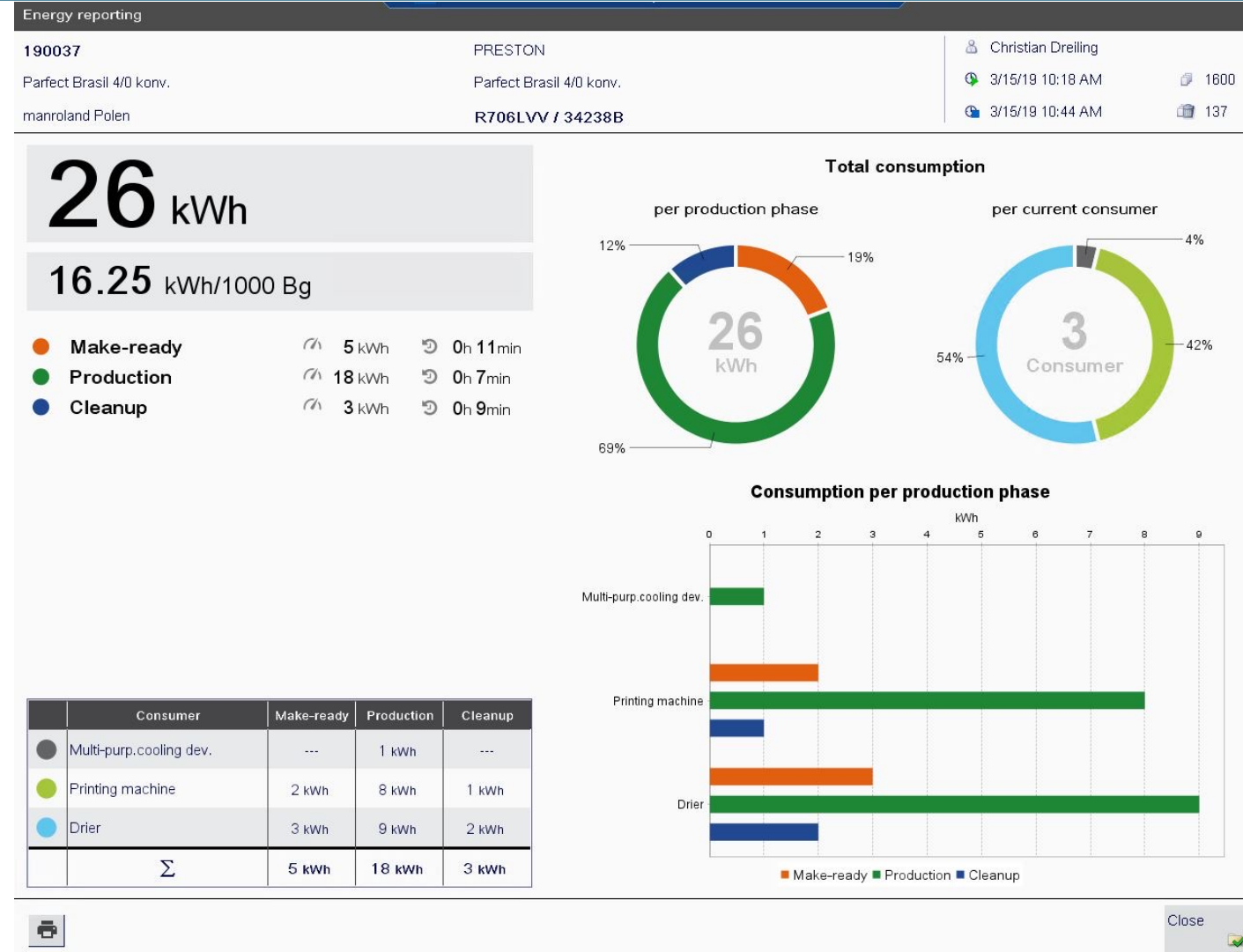


■ Inline - color control:

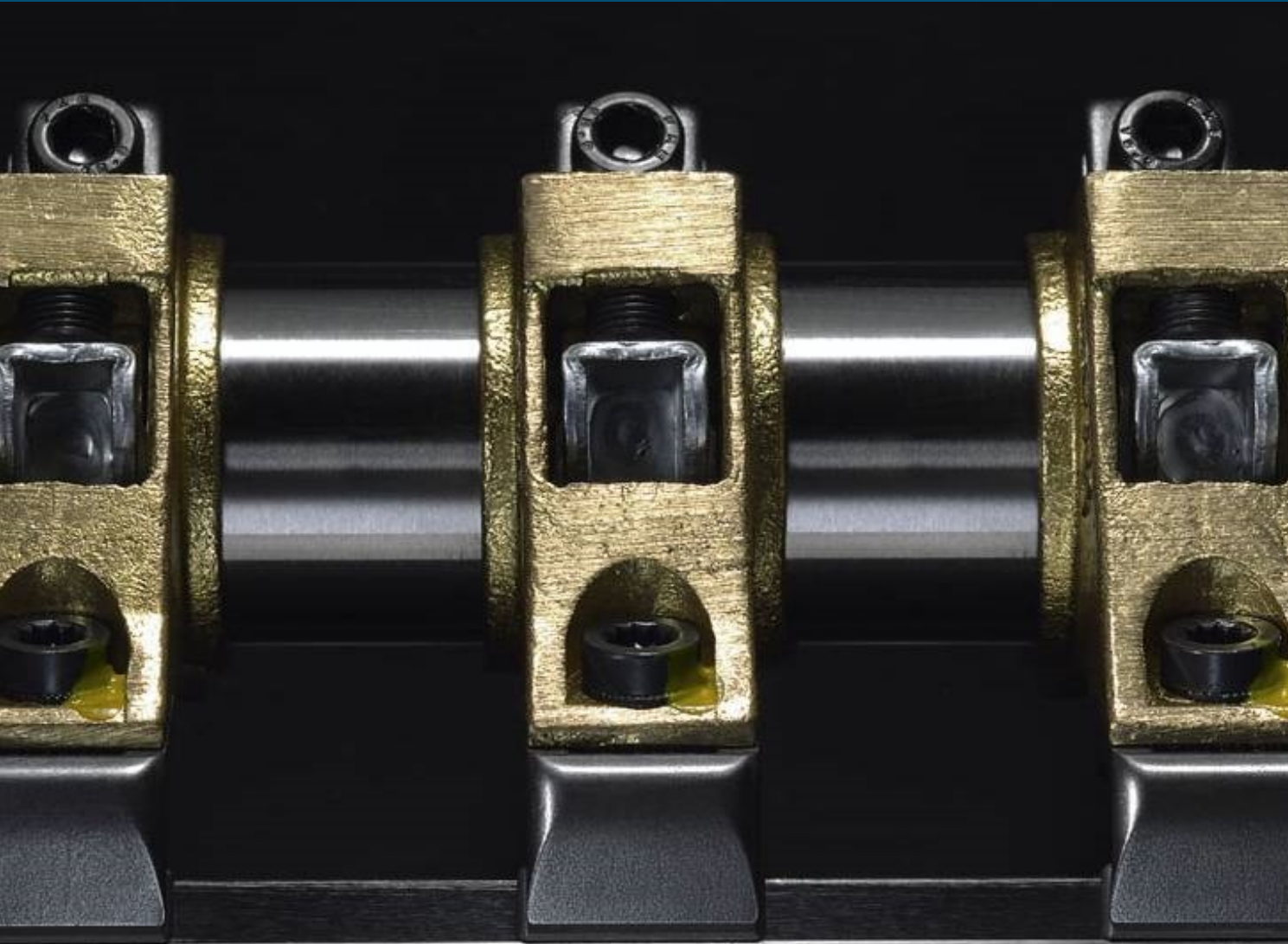


Ecologic Pilot

- Monitoring the power consumption
- Integrated into PressManagement Software IntegrationPilot plus
- Better understanding of the energy consumption of the press and its peripherals
- Can be used for job related CO2 emission compensation
- Measuring all connected power supply lines
- Usable for multiple machines



Thank you PPC Members for this opportunity



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