PRINTING TECHNOLOGY & INNOVATION DAYS FOR FLEXIBLE PACKAGING

Istanbul, Turkey, July 3-4, 2019

COMMON STATEMENT: IMAGE TO PRINT PARTNERS

janoschka

nordmeccanica group

SIEGWERK

WINDMÖLLER & HÖLSCHER

ROSSINI

« we as partners want to share our thoughts, together with you, our customers, to contribute all together to overall improvements to our industry… »

The World is changing…
and **so do we!**

Printing exists
since more than 500 years…

Printing has been
a major factor
for changes in this world…

Johannes Gutenberg
1408 - 1468

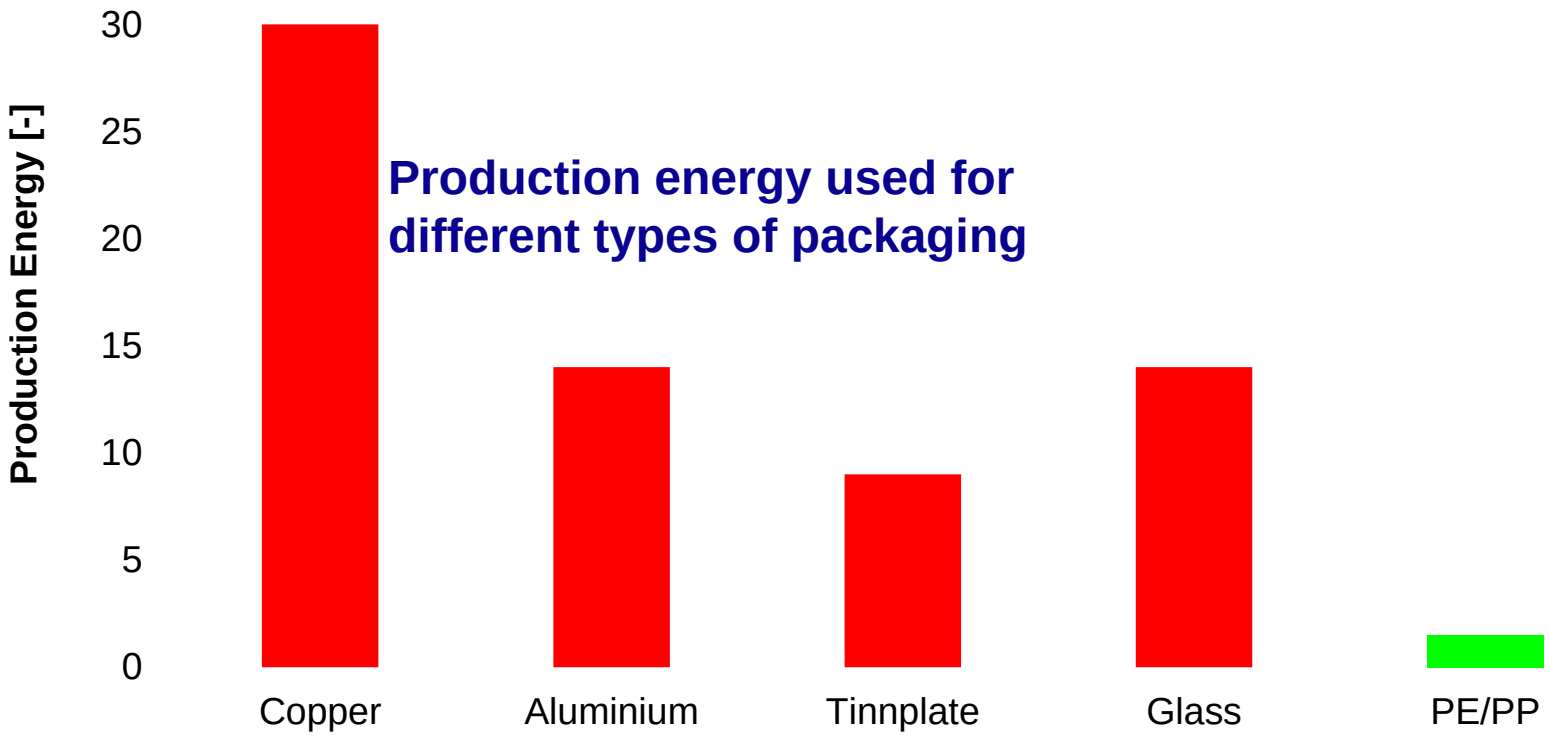
We don‘t want to look back 500 years –
but what has changed in our Industry over the past Years?

FOOD FOR THE WHOLE WORLD – FLEXIBLE PACKAGING CAN MANAGE THAT

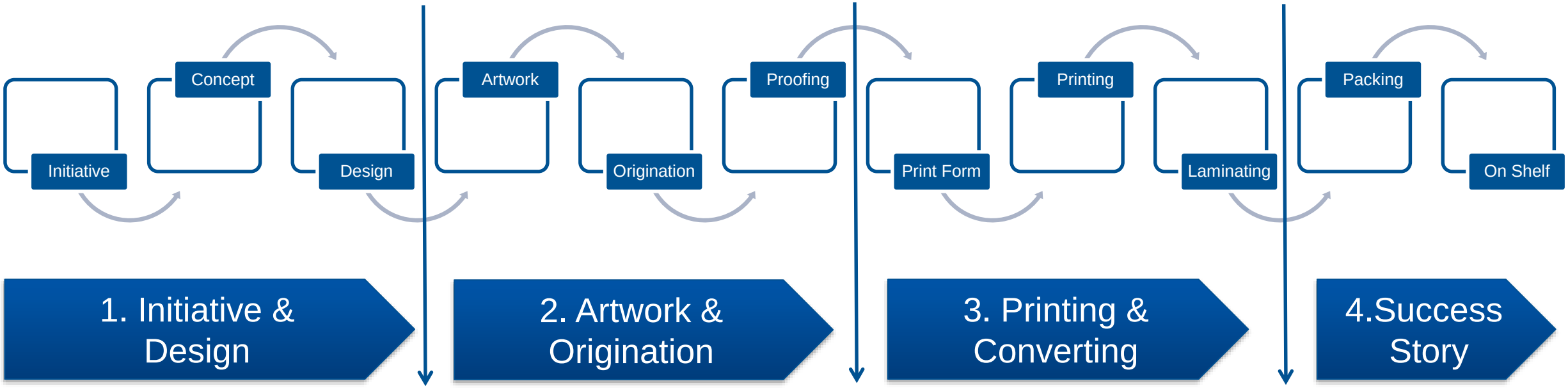
FLEXIBLE PACKAGING IS SUSTAINABLE AND SHOWS TOP PERFORMANCE FOR THE ENVIRONMENT, PEOPLE AND INDUSTRY

Main advantages of flexible packaging:

- less weight
- less production energy
- less emissions at production, distribution and disposal



THE GRAPHIC SUPPLY CHAIN –
the Entire Process has to be Environmental-friendly



janoschka SIEGWERK nordmeccanica group ROSSINI WINDMÖLLER & HÖLSCHER

Sustainable: Responsibility for Employees and the Environment

- greenOVATION as a symbol for innovative sustainability in all segments
- Fostering resource-saving production in our own manufacturing plants
- Machine innovations to support resource- saving by our customers
- Flexible Packaging contributes to environmental protection (e.g. Save-Food-Initiative)
- Support of numerous initiatives, e.g. Blue Competence (VDMA) and CEFLEX

Our Contribution in Flexo Press Developments …

STARFLEX 1990

(Equal Job,

20.000 meters)

MIRAFLEX´´M 2018

■ Total production time:	156 min	106 min	- 32%
■ Energy consumption:	383 kWh	205 kWh	- 47%
■ Total waste:	1720 m	480 m	- 72%
■ Waste of ink:	21,5 kg	7,3 kg	- 66%
■ Solvent consumption:	60 ltrs.	38 ltrs.	- 37%

Our Contribution in Rotogravure Press Developments

MERKUR HELIOSTAR 1990

(Equal Job,
30.000 meters)

HELIOSTAR´´S 2018

Production time:	130 min.	85 min.	- 35 %
Energy consumption:	450 kWh	260 kWh	- 42 %
Waste of substrate:	1120 m	320 m	- 71 %
Waste of ink:	14,9 kg	7,5 kg	- 49 %

Pre-Press Developments

By applying **PCM** (Print Color Management) in the pre-press stage, color matching times on press have been reduced significantly.

This means less **waste** and less **cost**!

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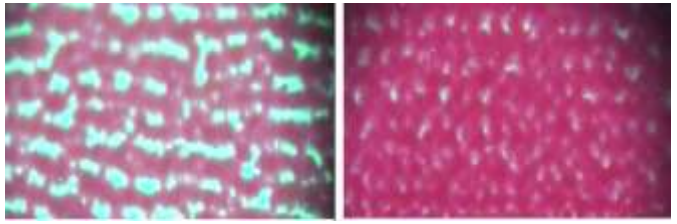
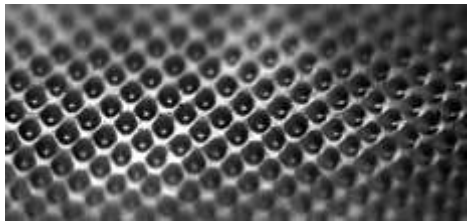
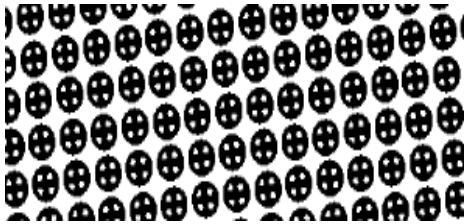
Multi-Color Process

- less ink storage (Spot Colors)
- no ink changes
- faster job changes and set-up times
- print multiple jobs at the same time
- reduced cost

New Flexo Technologies







- New set of **screenings** in conjunction with **new plates** minimizes ink consumption, improves sustainability and **lowers printing cost**
- Offers **more tonal range**, gray levels, gamut and contrast
- Plates last **longer** on press

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Light Weight Solutions for bases and Sleeves

- easier **handling**
- reduced **set-up times**
- reduced **storage costs**
- reduced **transport costs**

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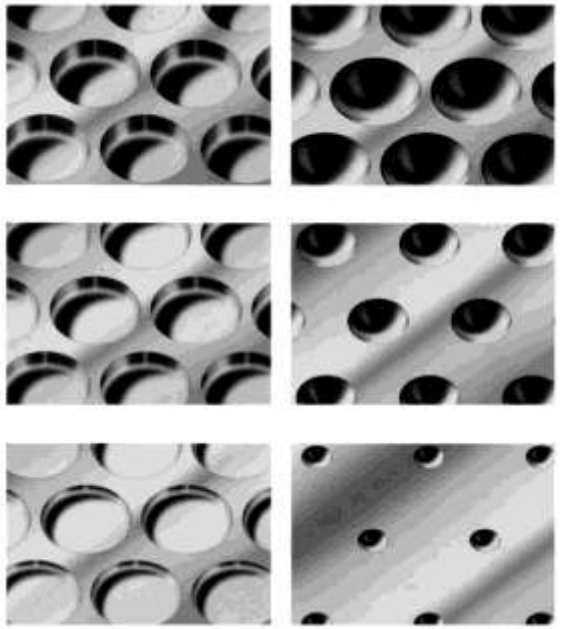
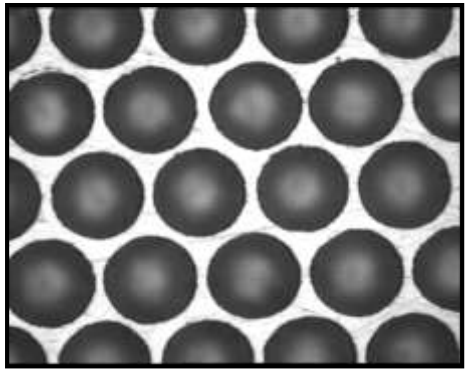
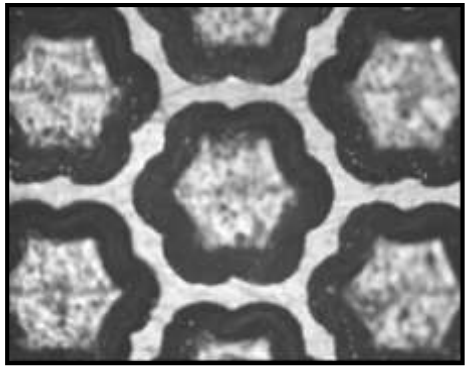
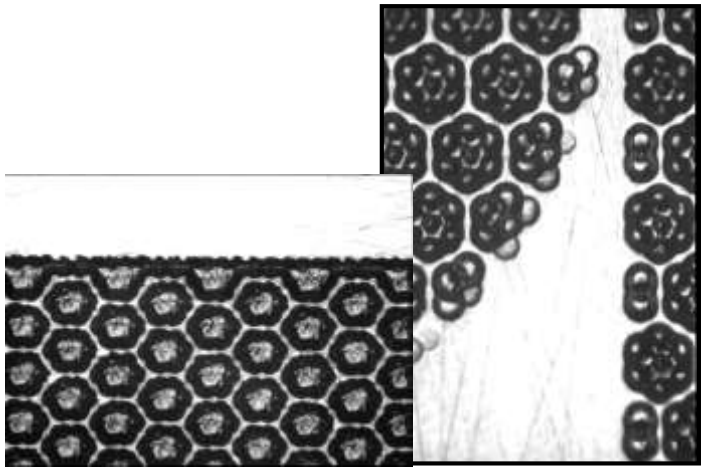
Developments such as **Laser-Engraving**

- **faster** engraving time
- higher **quality** and higher **definition**
- better **printability** and ink transfer









Janoschka cares for environment:

- Environmental friendly, fully automatic production-lines
- Production sites close to the printing plants in order to reduce time, transport cost and energy.
- Janoschka cares for the use & handling of chemical products and treats all industrial waste.

Sustainable processes

Sustainable sourcing: how to avoid risks in the supply chain

- **Qualification**: Siegwerk's suppliers must fulfill **economic, social and ecological standards**. This is ensured by means of a strict selection process.
- **Control:** We thoroughly scrutinize suppliers using our own **audits**.

- All **raw materials** used are non-toxic and meet Siegwerk's stringent internal standards, which go beyond legal requirements.
- Our **Formulation Guidelines** ensure packaging printing inks that are **safe for the consumer** and **minimally polluting for the environment**.
- This applies in particular to applications on **food, pharmaceutical, personal care and tobacco packaging**.

Sustainable development of printing inks

SIEGWERK

Solutions for a better future

UniXYL - 2nd generation bio-based inks

No competition with food

Low-migration UV Flexo series especially developed for **food packaging applications**

Wastebuster Project: Feeding – Recycling – Education

Distribution of **one million Futurelife Smartfood™ dual compartment pouches in South Africa**

EN 13432-certified ink systems don‘t have any negative effect on **bio-compostability** of packaging

UV ink certified with the **Cradle-2-Cradle material health GOLD** status

IMAGE TO PRINT

Inks for sustainable packaging solutions

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Reduction of net CO2 emissions in transport

Special inks for labels for PET bottles and beverage packaging made of cardboard laminates => **less weight compared to glass bottles**

Special inks for stand-up pouches and Alu containers => **less weight compared to tin cans**

Inks solutions for a Circular Economy

SIEGWERK

Design for Recycling

PVC free inks for improved recyclability

High performance **surface print solutions** on Polyolefine films

Functional layers to improve barrier properties and surface properties

IMAGE TO PRINT

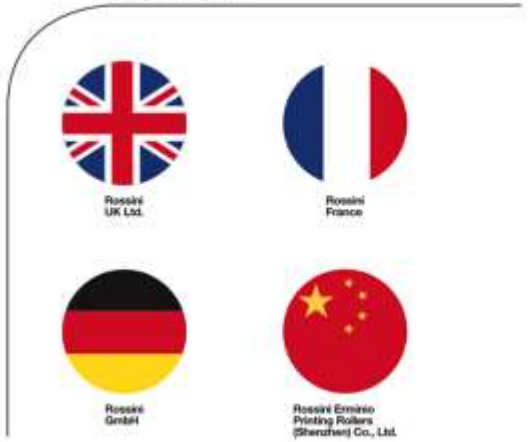
WE PRODUCE SLEEVES & ROLLERS CLOSE TO OUR CUSTOMERS:
LESS TRANSPORT COSTS - BETTER SERVICE

ROSSINI

COMPANY FOUNDATION YEAR

Milano Italia	1928
Milano Quartiere Barona	1965
Milano Rescaldina HEADQUARTER	*1988*
Mechernich Germania	*1989*
L'Aquila Italia	*1989*
Cambridge UK	*1990*
Buford Atlanta USA	*1996*
Illfurth France	*1998*
Cabrera de Mar Spain	*2004*
Shenzen China	*2005*
San Paolo Brasil	*2005*
Atlanta Georgia USA	*2006*
Timisoara Romania	*2006*
Pune India	*2014*

Sales offices



Production facilities

INNOVATIVE PRODUCTS WITH LONGER LIFETIME, HIGHER SAFETY AND LESS CONSUMPTION

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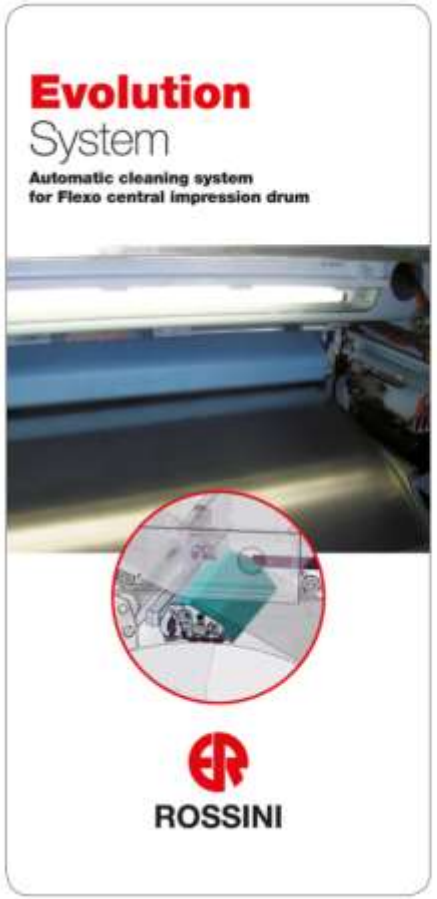

SAFETY:
Automatic CI drum cleaner (Flexo)

LONG LIFETIME:
3 years warranty

SAFETY:
ESAsleeve with ATEX-certificate – without carbon black (Gravure)

REDUCED MATERIAL CONSUMPTION:
Less glue required in SL-lamination)

SLEEVES & ROLLERS: SUSTAINABILITY & LESS IMPACT ON CARBON FOOTPRINT

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HIGH-QUALITY SLEEVES →
- STABLE PRINTING QUALITY & LESS WASTE
- ALL PRODUCTS DESIGNED FOR LONG USE,
- SAVING RESSOURCES

IMPROVED FORMULAS → RUBBER COMPOUNDS CERTIFIED FOR CONTACT WITH FOOD AND FOR MAXIMUM SAFETY

TAYLOR-MADE MACHINERY → WASTE REDUCTION & PROCESS CONTROL IN OUR PRODUCTION FACILITIES

IMAGE TO PRINT

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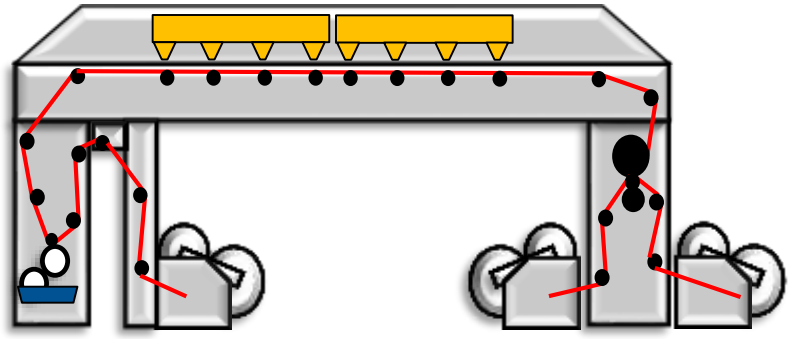

Know how , lower costs, lower energy, higher quality, reduced footprint

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Sustainability

•Pioneering Solvent Less lamination.

•Products developed using the most advanced energy savings technologies.

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Sustainability

More value for end-users

More social progress
and **better** quality of life

Safer workplaces and
better health & hygiene

Less energy used and
less greenhouse gases
less water pollution

Less water and solvent
waste

Less resources used
and **less** waste generated

We believe in the future!
We innovate and we develop technologies for the future!

“We are partners,
we care for our Industry,
and our world…”

Thank you for being here
and thank you for your attention!