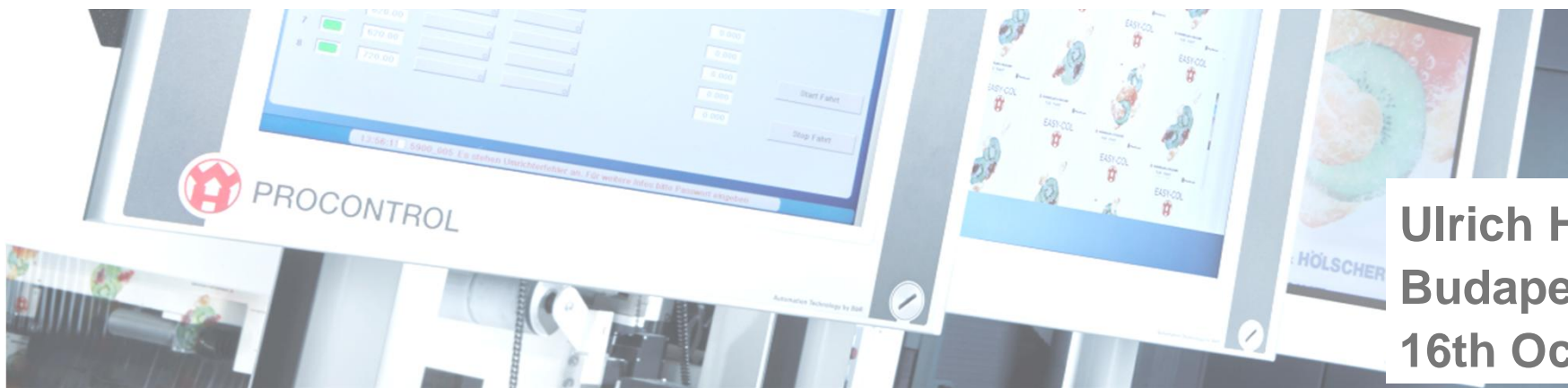




# WINDMÖLLER & HÖLSCHER



**Your supplier for rotogravure and flexo printing, extrusion and converting equipment**



**Ulrich Harte,  
Budapest,  
16th Oct. 14**



**WINDMÖLLER & HÖLSCHER**



# WINDMÖLLER & HÖLSCHER at a glance

- World market leader offering sophisticated solutions for flexible packaging - extrusion, printing, conversion
- More than 50 different machine types
- About €500 million worth of sales in the W&H group world wide
- 2000 employees at 16 locations
- Headquarters in Lengerich
- Founded: 1869
- Legal form: Limited partnership





# Our Lengerich Facilities

- Headquarters
- Research & Development
- Engineering + Production
- Sales
- Service
- 70,000 square meters

In this factory  
2000 employees work for  
**FLEXIBLE PACKAGING.**



**WINDMÜLLER & HÖLSCHER**



# Steady growth of packaging markets

Market volume will double in 20 years.

in Bill. US \$



2020 Forecast

800

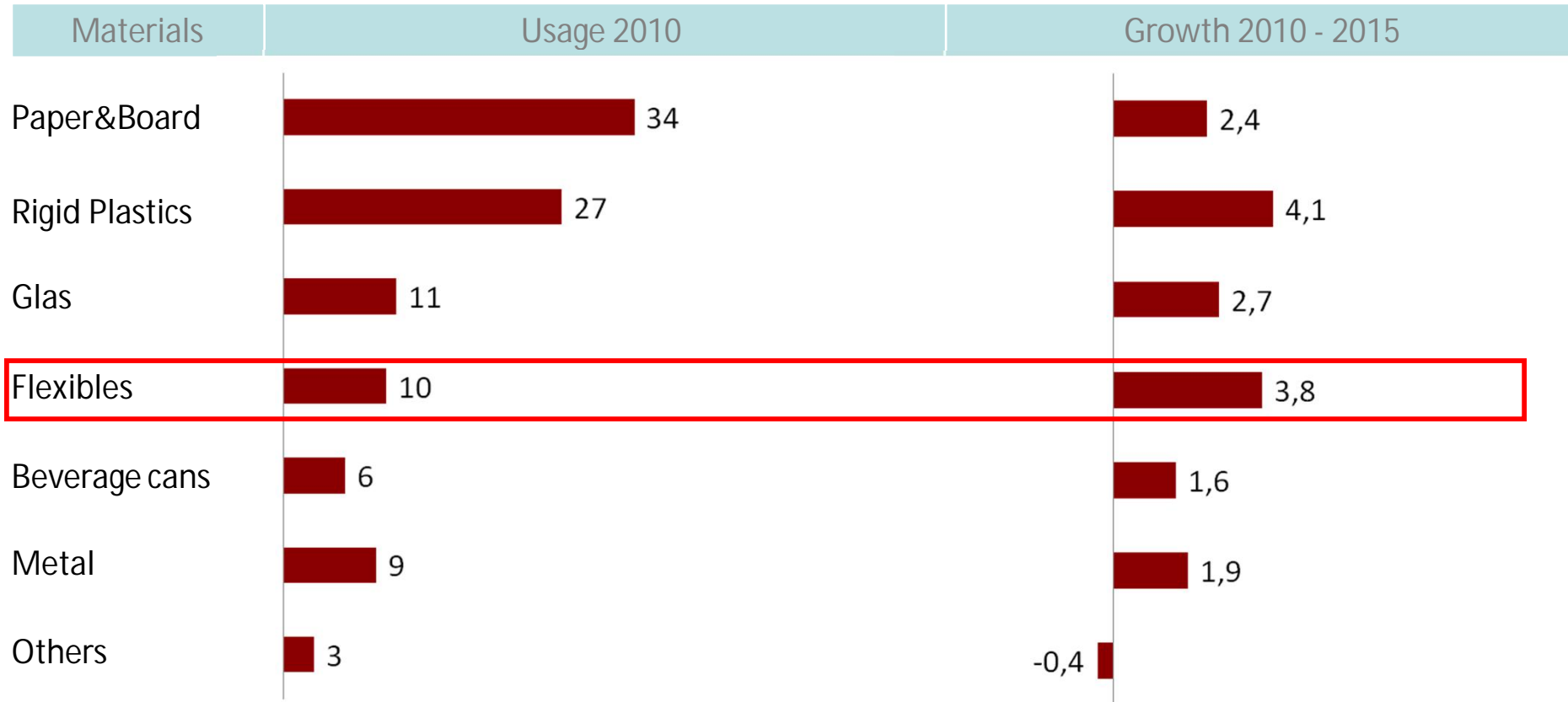


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# Global market for packaging

Total 395 Bill. US\$, in %, 2010



Quelle: Pira International



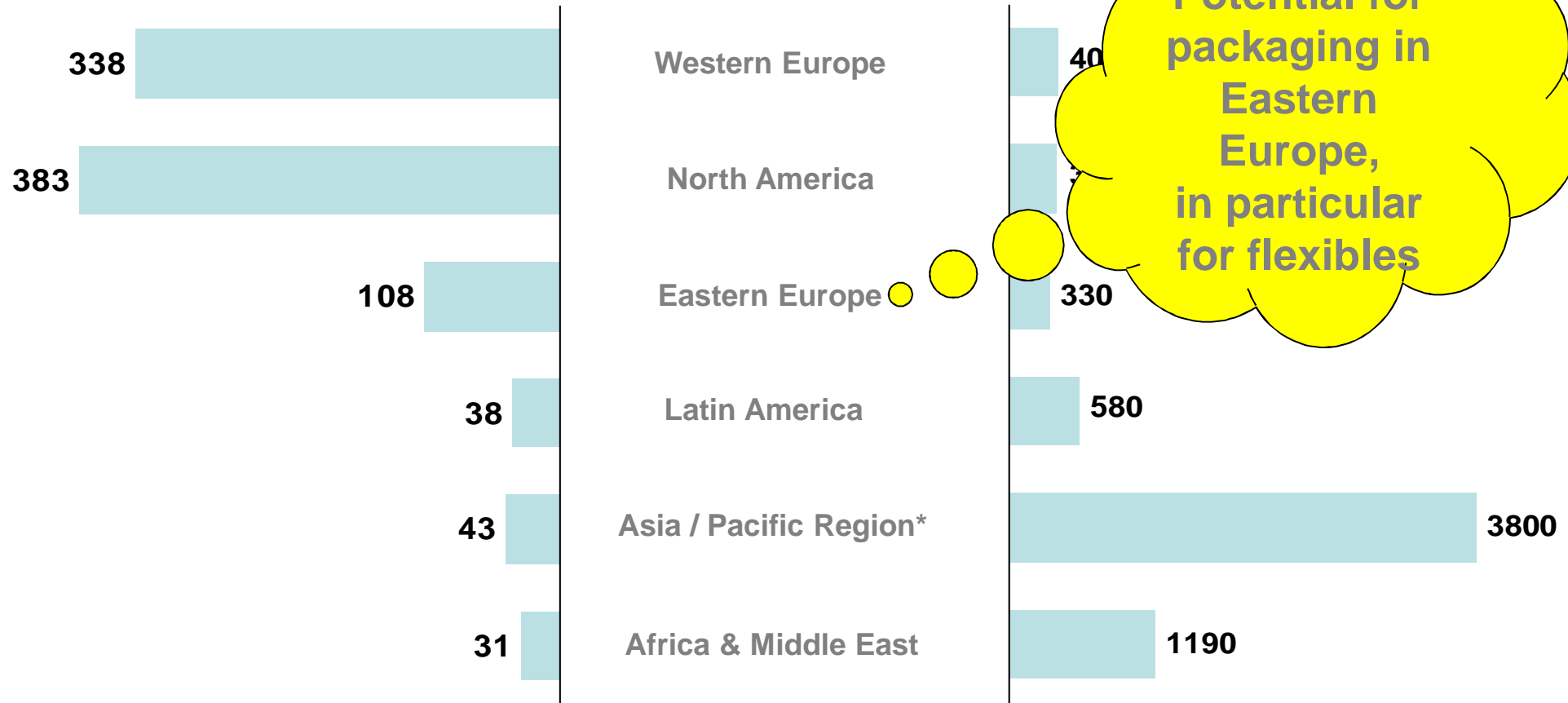


# Per capita consumption of packaging material

In US \$ per head (2012)

Region

Population in millions

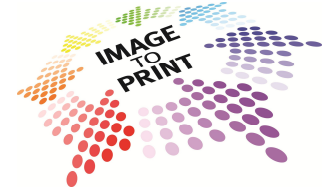


Source: Pira International



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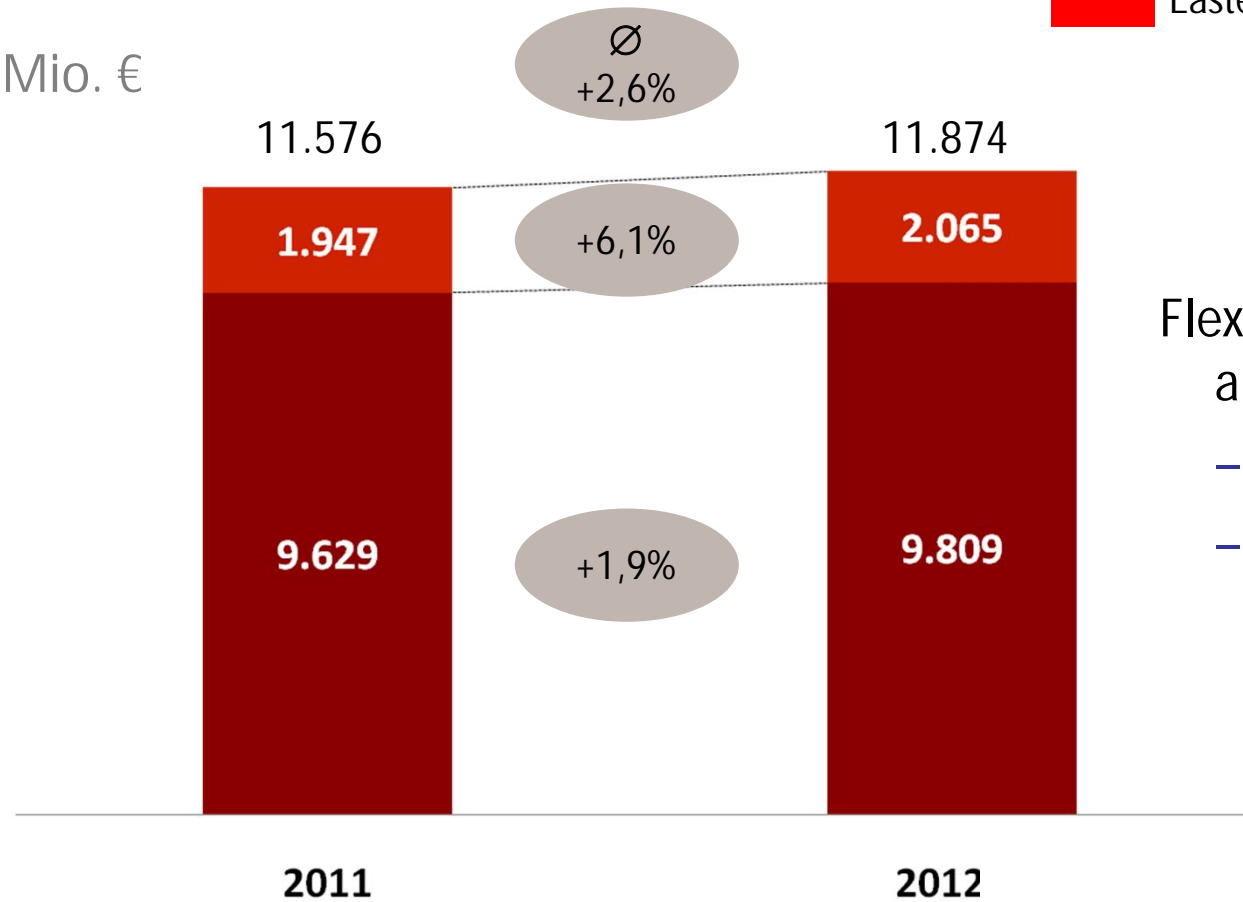




# European market for flexible packaging 2011-2012

Mio. €

■ Eastern Europe ■ Western-Europe



Flexible packaging per capita and year:

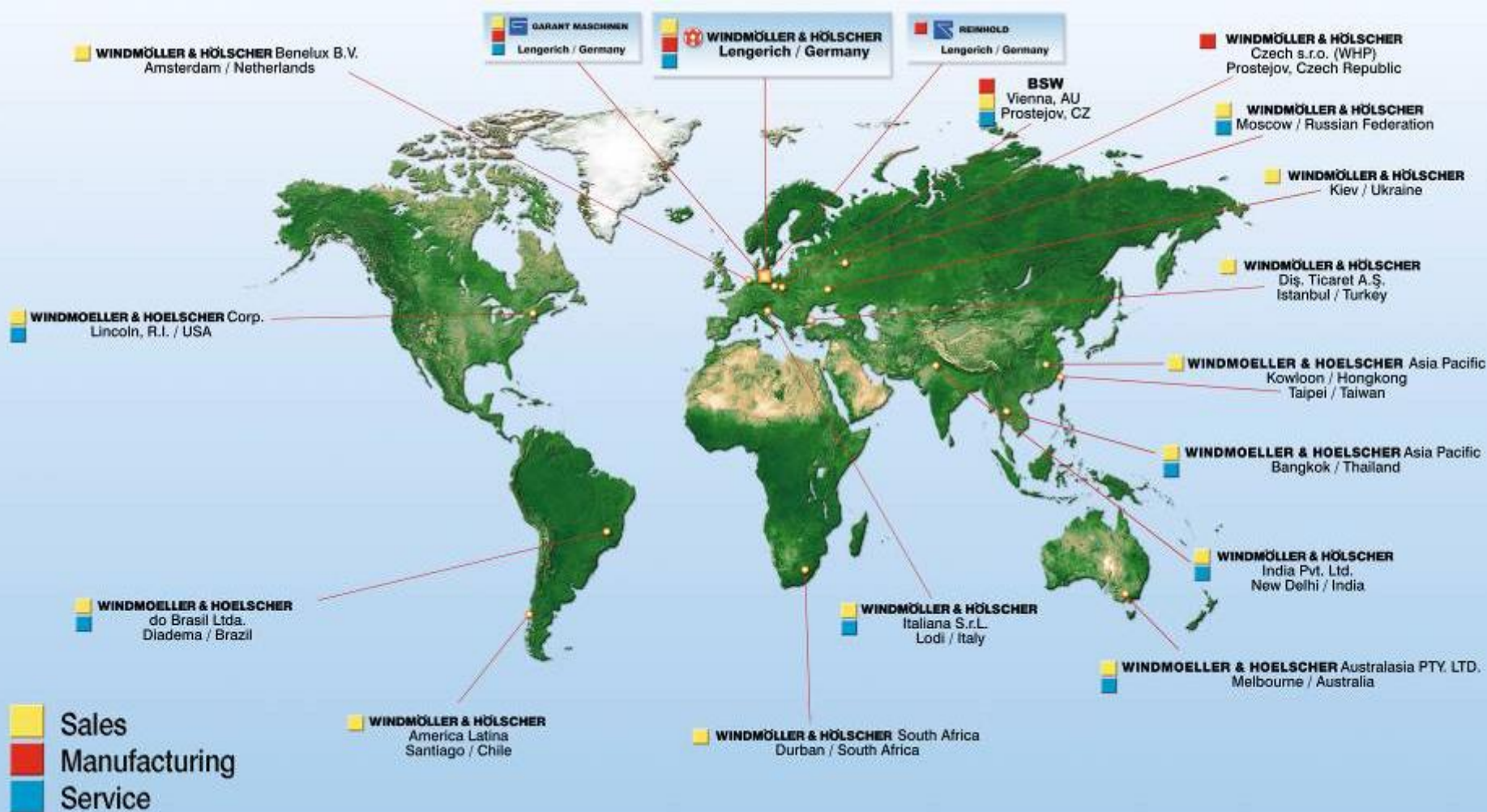
- Western Europe: € 20
- Eastern Europe: € 6

Source: PCI, 2012





# We are where our customers are.



## WINDMÖLLER & HÖLSCHER





# W&H product range

## Extrusion



**VAREX  
OPTIMEX  
AQUAREX  
FILMEX  
FILMATIC  
MDO**

## Printing / Finishing



**VISTAFLEX  
NOVOFLEX  
MIRAFLEX  
SOLOFLEX  
FLEXA  
HELIOSTAR  
VARICOATER**

## Conversion



**AM / AD / PB  
TRANSYSTEMS  
ARCOMAT  
CONVERPRINT  
TOPAS / DIAMANT / OPAL  
POLYREX, CONVERTEX  
MATADOR / TRIUMPH**



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# Our extrusion program



**VAREX (blown film)**



**FILMATIC (winders)**



**FILMEX (cast film)**





# Two printing processes for flexible packaging

## Flexo



**VISTAFLEX**



**NOVOFLEX**



**MIRAFLEX**

## Rotogravure

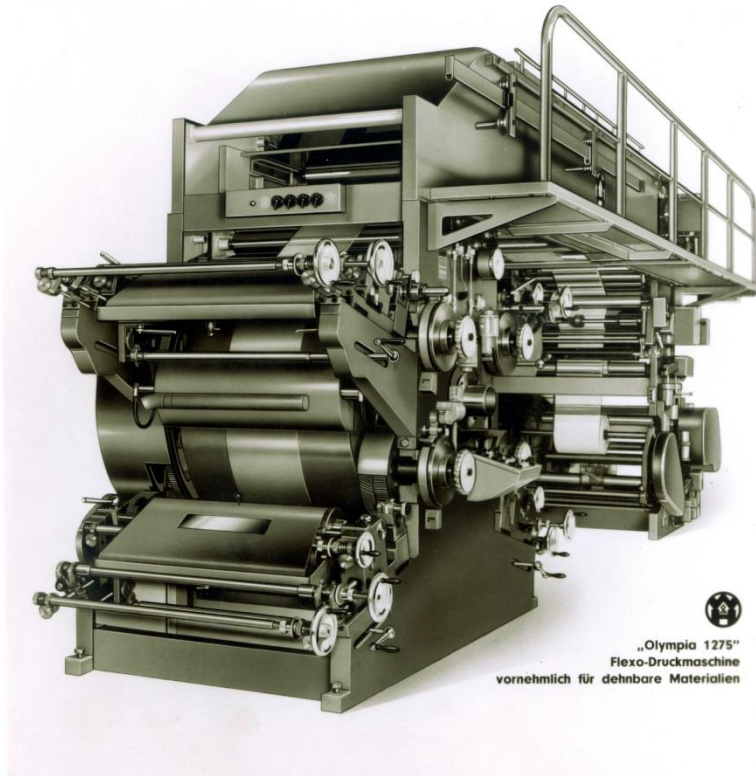


**HELIOSTAR**





# W&H introduced the first CI-press in 1954 and the first rotogravure press in 1955



„Olympia 1275“  
Flexo-Druckmaschine  
vornehmlich für dehnbare Materialien

First W&H CI flexo machine  
Olympia® - 1954



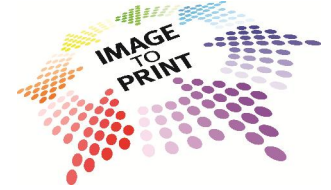
First W&H gravure machine  
QMZ® - 1955



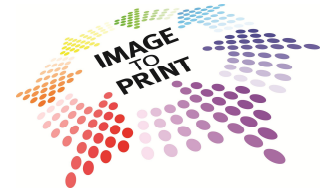
**WINDMÖLLER & HÖLSCHER**



# Our CI-flexo press portfolio



# MIRAFLEX CM 10 in our demo center

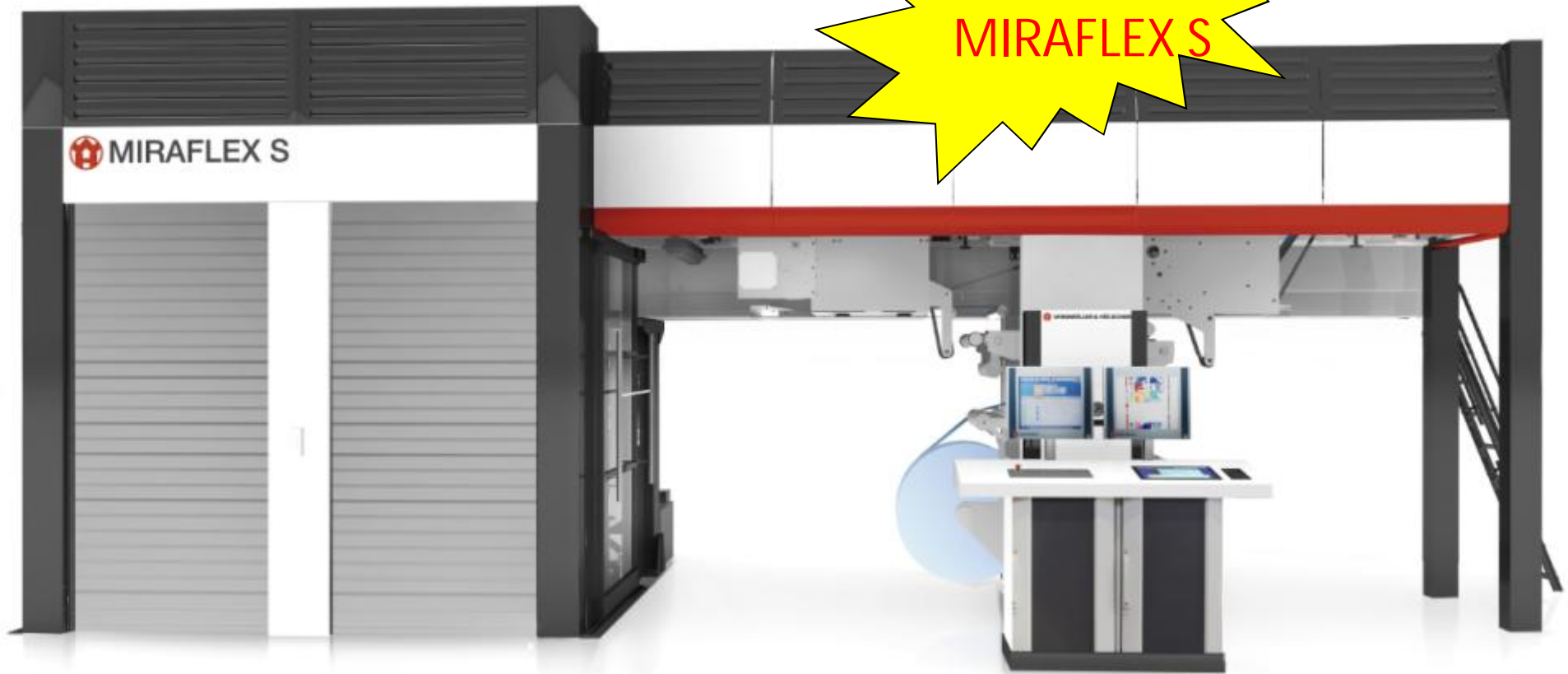


# New press – new design: MIRAFLEX S



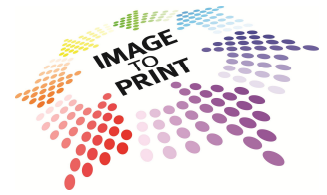
New Press:

**MIRAFLEX S**



**WINDMÖLLER & HÖLSCHER**

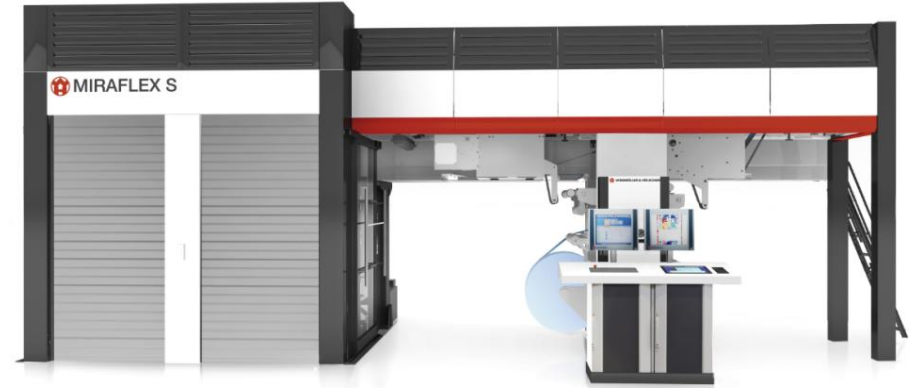




# The new MIRAFLEX S

## Technical data:

- 8- color decks
- Max. 300 / 400 m/min.
- Printing width: 650 mm or 820 mm
- Repeat: 250 mm – 800 mm



## Innovations:

- Extremely compact design
- Easy access to printing decks
- Multiple winder configurations
- Short web path





**W&H offers a wide rotogravure program, to ...**



**... fulfill all customer needs**

**... be successful in all markets**



**Acc. today's inquiries we are concentrating on  
HELIOSTAR SL and SH, ...**



**WINDMÖLLER & HÖLSCHER**

... one of the leading roto printing presses



**WINDMÖLLER & HÖLSCHER**

# HELIOSTAR SL 8 in printing technology center



**WINDMÜLLER & HÖLSCHER**

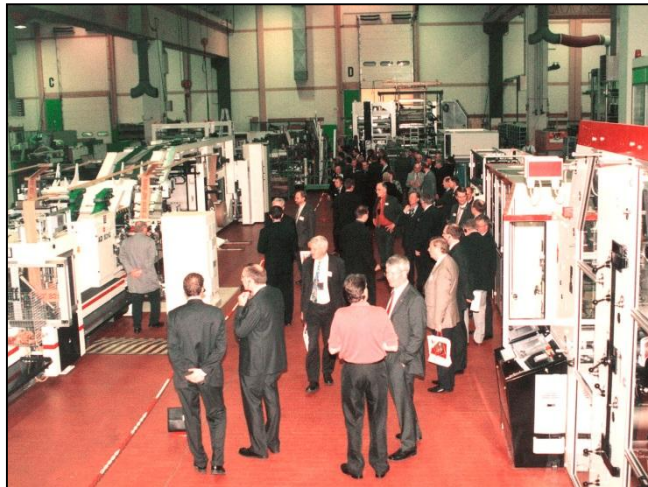
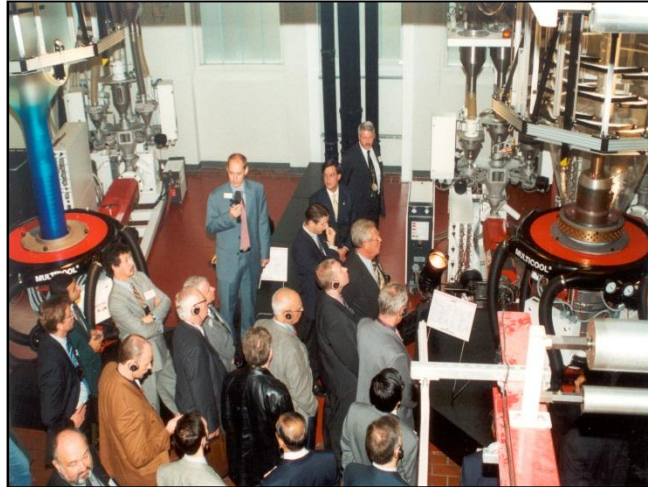




# W&H printing technology center

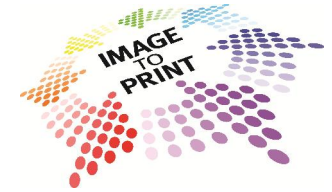
The latest engineering and system technology presented at the 5,000 m<sup>2</sup> W&H technology center

- Demonstration / tests for customers
- Training
- Application development
- R&D





# We are investing into the future



## Research and Development:



- approx. 8% of total turnover
- more than 300 employees
- more than 1,500 patents



**WINDMÜLLER & HÖLSCHER**

# W&H service and customer's support



- 24-hour IDC and hotline service world-wide
- W&H Teleservice / Remote Service
- Comprehensive spare parts store
- Training of our customers' operators and maintenance personnel
- Start-up and application support
- Production support
- Preventive maintenance service agreements







# The W&H team for printing presses: ready to serve you!



**WINDMÖLLER & HÖLSCHER**



# Good reasons to invest in W&H printing equipment:

It is not only high speed and output, but it's:

- One of the best qualities in printing equipment for best printed product
- Extensive customization
- State-of-the-art machine layout and design
- Proven components
- Highest safety standards
- Adherence to schedules, prompt delivery, detailed preparation and organisation of installation, short time from rigging to acceptance runs with binding criteria





Besides technology, profitability ...  
... W&H is concentrating on sustainability



W&H will focus on:



W&H will continue saving energy, reducing  
emissions and protecting our environment.



# Image-To-Print Printing Technology and Innovation Days



Still challenging to keep  
ahead in our world of  
flexible package printing!

Thank you for  
your attention!

