

# *Innovations* in rotogravure printing



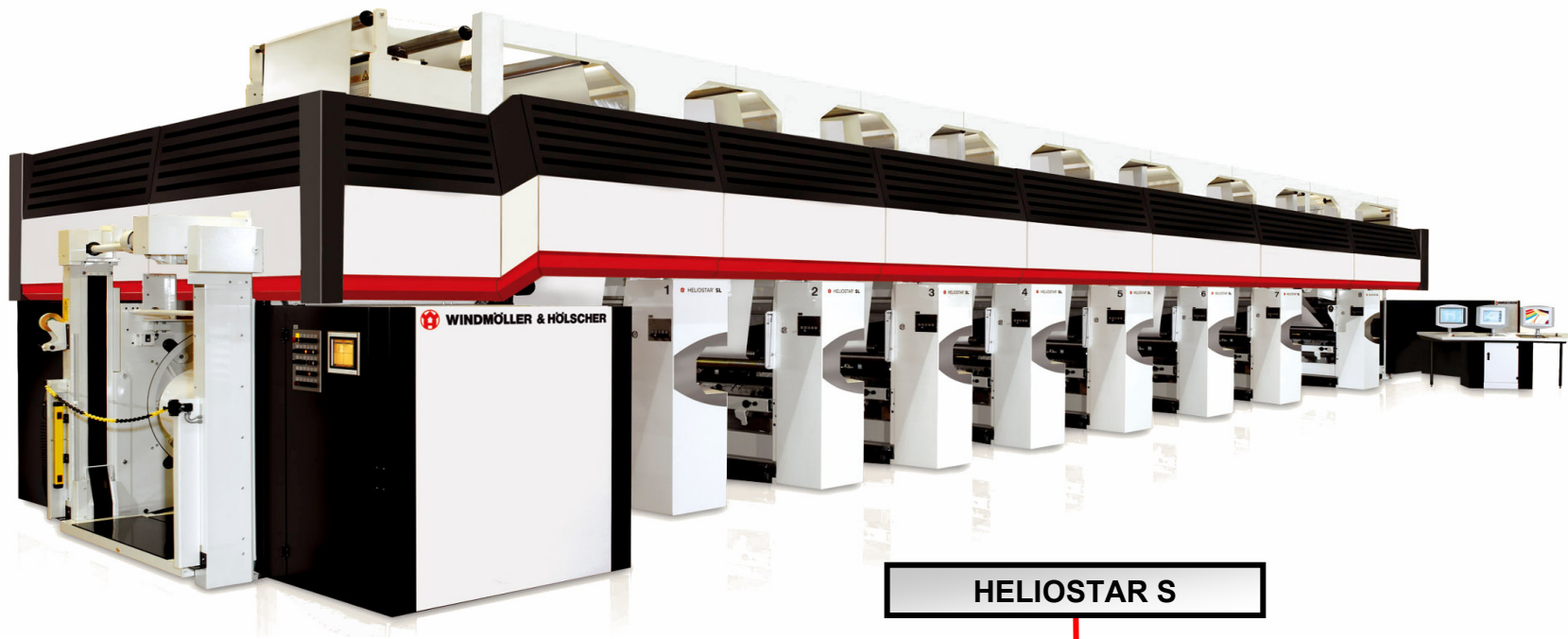
Alliegro Emilio  
Technical Sales Manager  
Windmüller & Hölscher Italiana  
Piacenza, 19th of June 2013



**WINDMÜLLER & HÖLSCHER**

# *Heliostar **SL & SH***

*Innovations in rotogravure*



HELIOSTAR S

HELIOSTAR SL

HELIOSTAR SH



**WINDMÖLLER & HÖLSCHER**

---

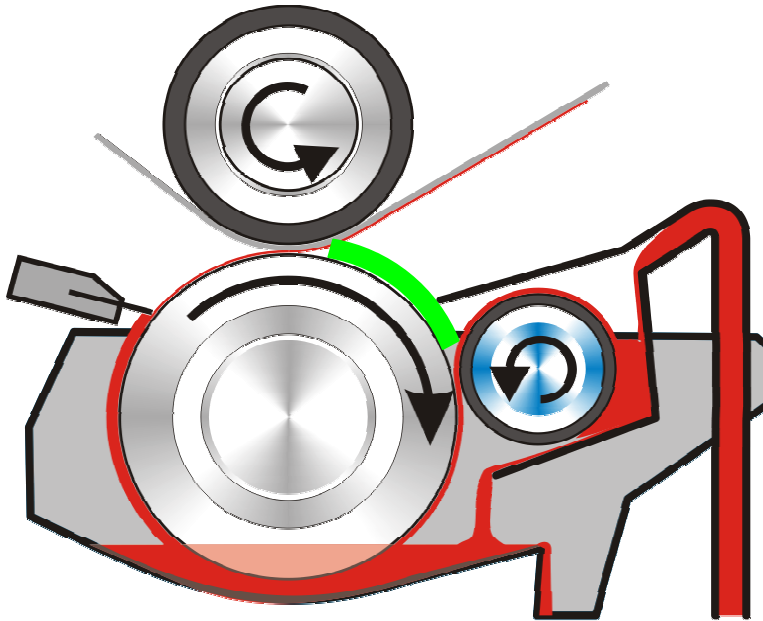
# Innovations in rotogravure printing

## State-of-the-art inking system



## Inking system - with driven inking roller

**HELIOSTAR® S**



Driven inking roller at 3  
o'clock position

- Perfect inking via driven inking roller
- Minimized area where ink may dry up
- Consistent printing quality at all printing speeds



= area where ink may dry up



**WINDMÖLLER & HÖLSCHER**

---

# Innovations in rotogravure printing

## Easy-Sync automatic pre-register

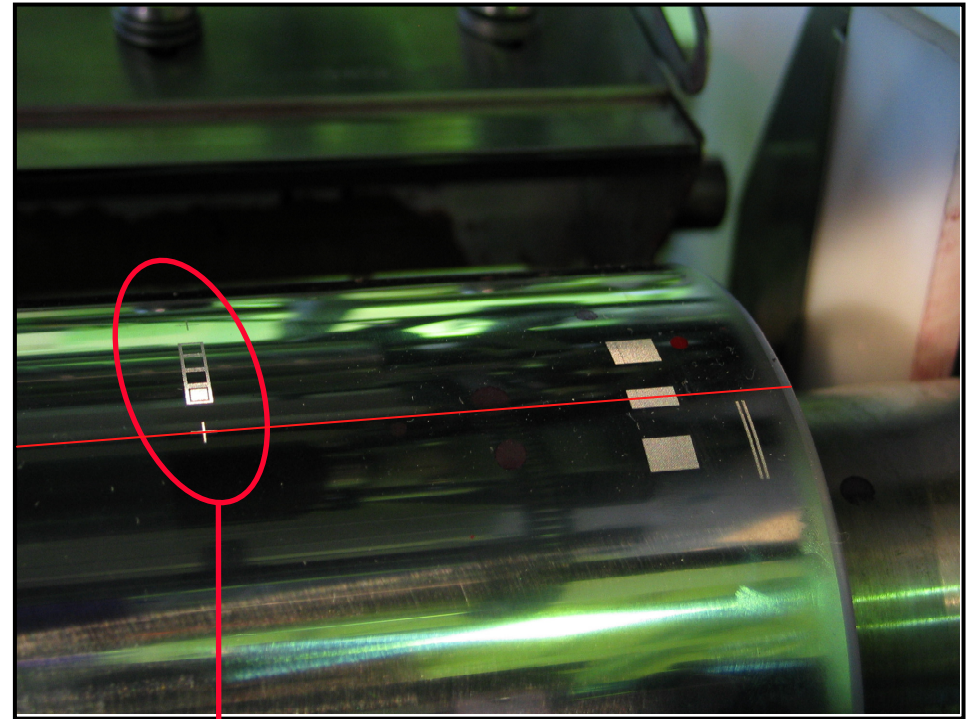


## EASY SYNC

### - automatic pre-register setting

- manual or automatic zero position setting for defined cylinder positioning

Laser sensor



register marks



---

# Innovations in rotogravure printing

## Heliocontrol – integrated register control system

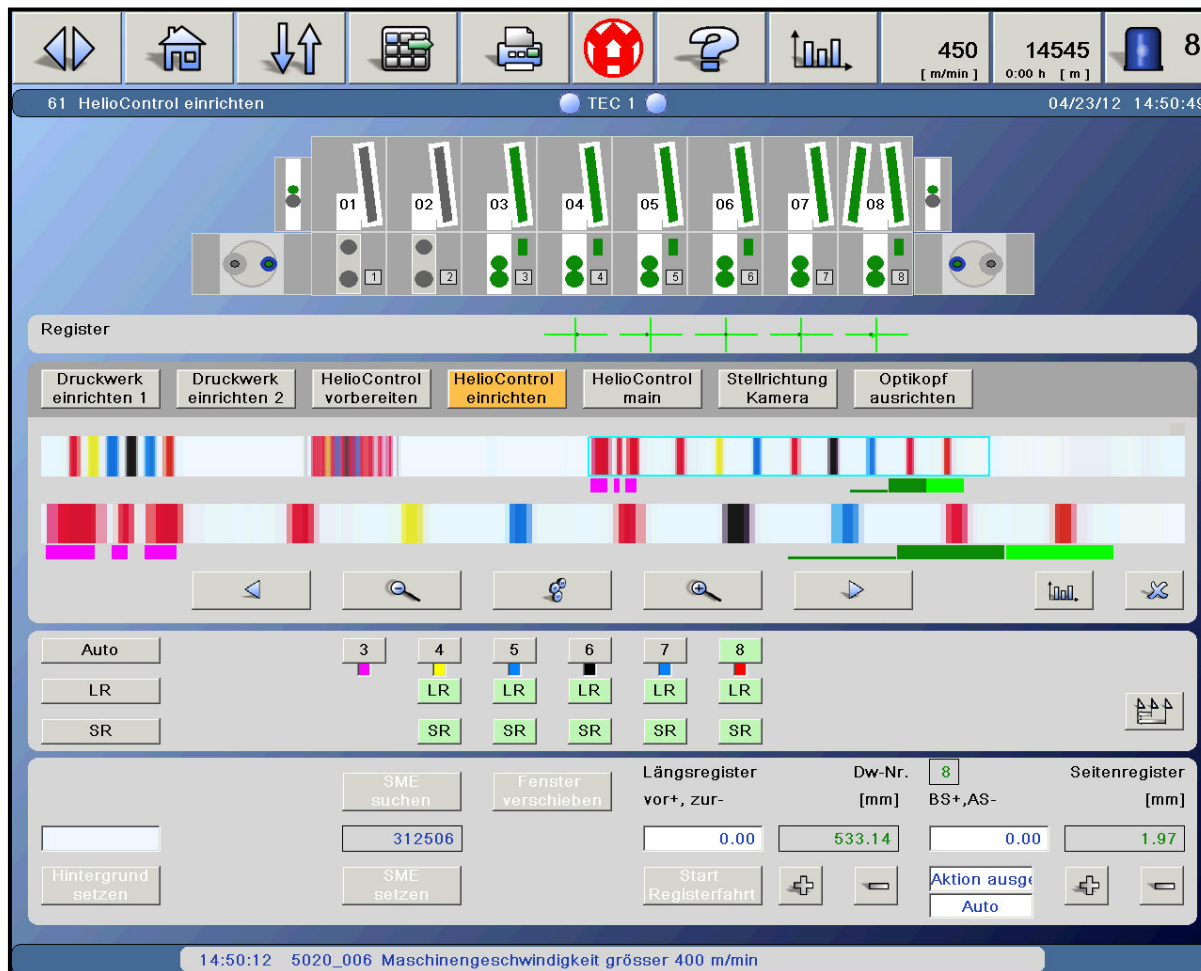




# HELIOCONTROL

## Drive & Register Management

# HELIOSTAR® S



**WINDMÖLLER & HÖLSCHER**



---

# Innovations in rotogravure printing

## High-performance drying system



# Air blade drying system

## HELIOSTAR® S

What are the influencing factors on drying efficiency? (3 T's):

- Temperature  
=> high energy consumption, influence on substrate and register
- Time  
=> low speeds and/or long web paths
- Turbulence (high air velocity)  
=> high efficiency



**High air velocity (turbulence) is the most important factor on drying performance! -> max. air speed 46 m/s on Heliostar**



**WINDMÖLLER & HÖLSCHER**

# Innovations in rotogravure printing



Consistent **printing quality** with driven inking roller

**Minimized start-up waste** – Easy-Sync pre-register system

**Perfect register** with integrated register Heliocontrol

**Efficient** with air blade drying system

**Flexible** with Turboclean and automatic cylinder change



**WINDMÖLLER & HÖLSCHER**

# Innovations in rotogravure printing



*Thank you for your attention!*



**WINDMÖLLER & HÖLSCHER**