

Innovations in rotogravure printing



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Innovations in rotogravure printing

based on rotogravure press Heliostar[®] S



Note: Customer installation in SE-Asia



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Innovations in rotogravure printing

- **State-of-the-art inking system**
- **Easy-Sync - automatic pre-register system**
- **Heliocontrol - integrated register control system**
- **High-performance drying system**



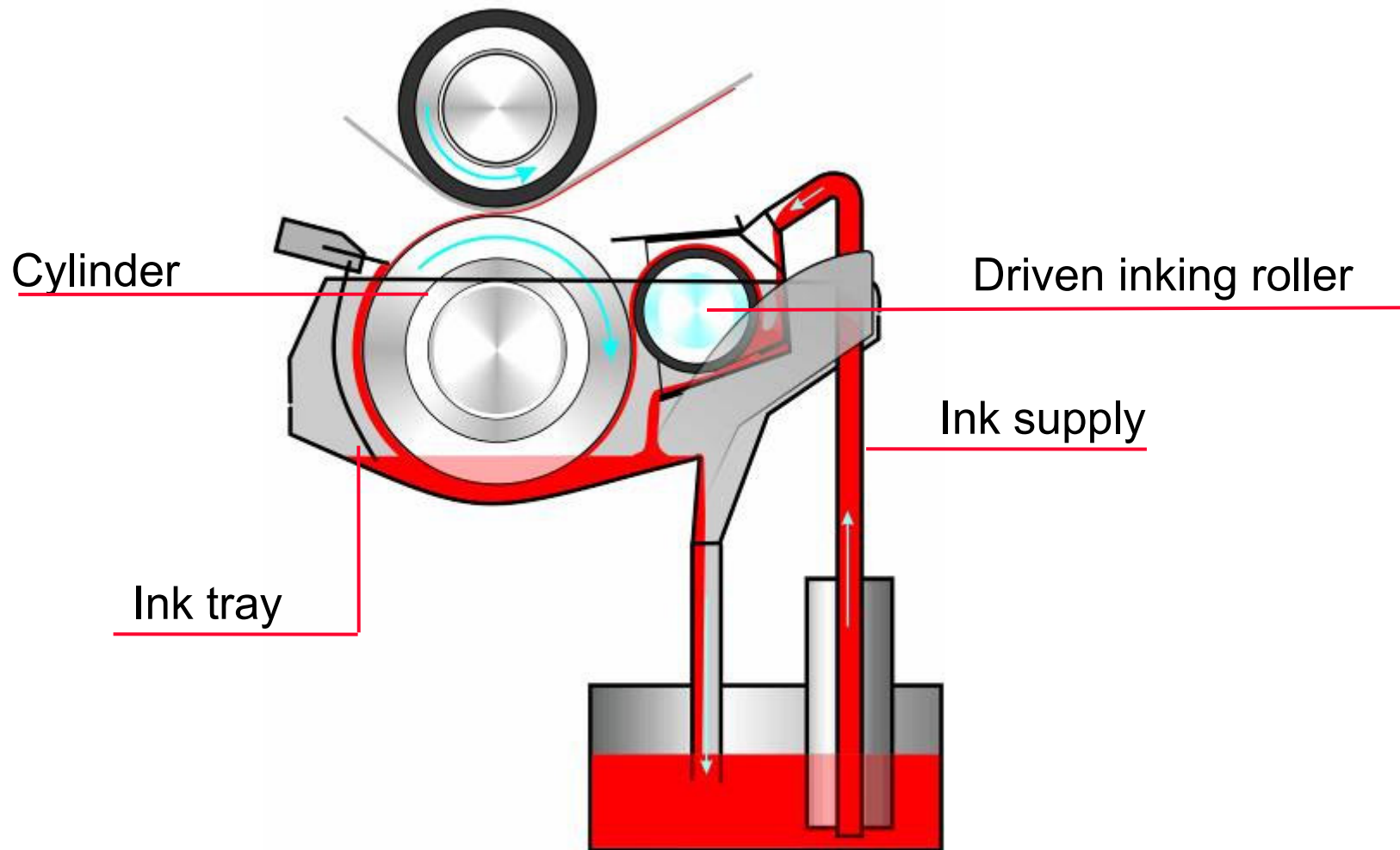
Innovations in rotogravure printing

State-of-the-art inking system



Inking system - with driven inking roller

HELIOSTAR® S

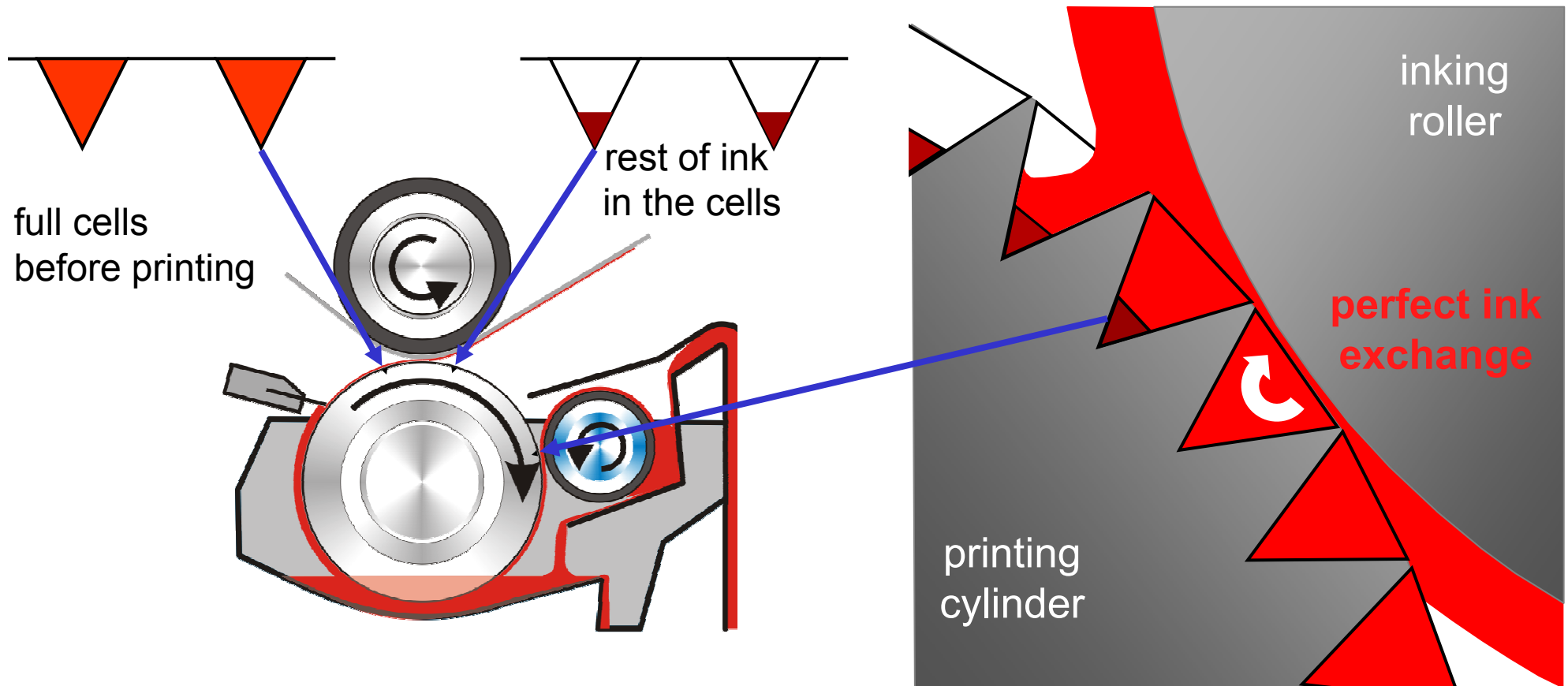


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Inking system - with driven inking roller

HELIOSTAR® S

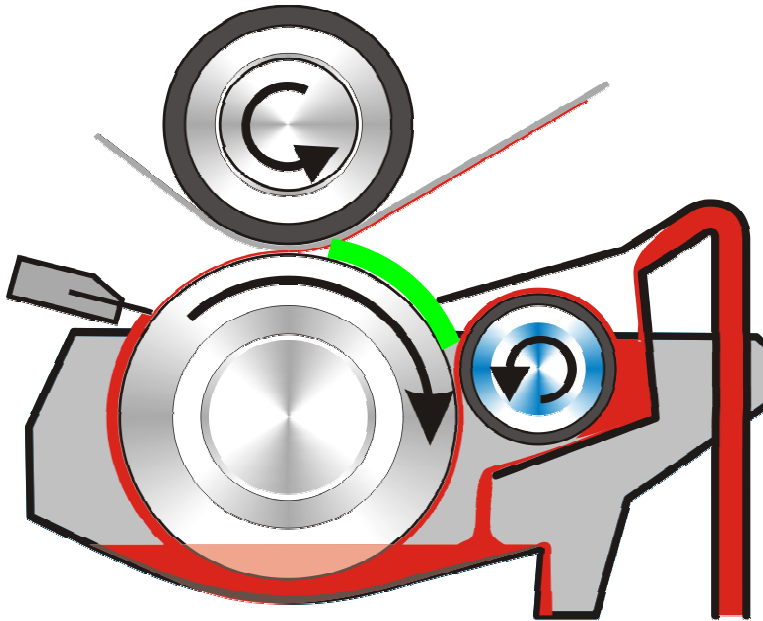
-> Perfect ink exchange by driven inking roller



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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



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Inking system - Viscosity control

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VISCOCONTROL (available 2014)

- Important information is always visible on the Procontrol screen
- All setting are saved with the recipe management



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Innovations in rotogravure printing

Easy-Sync automatic pre-register

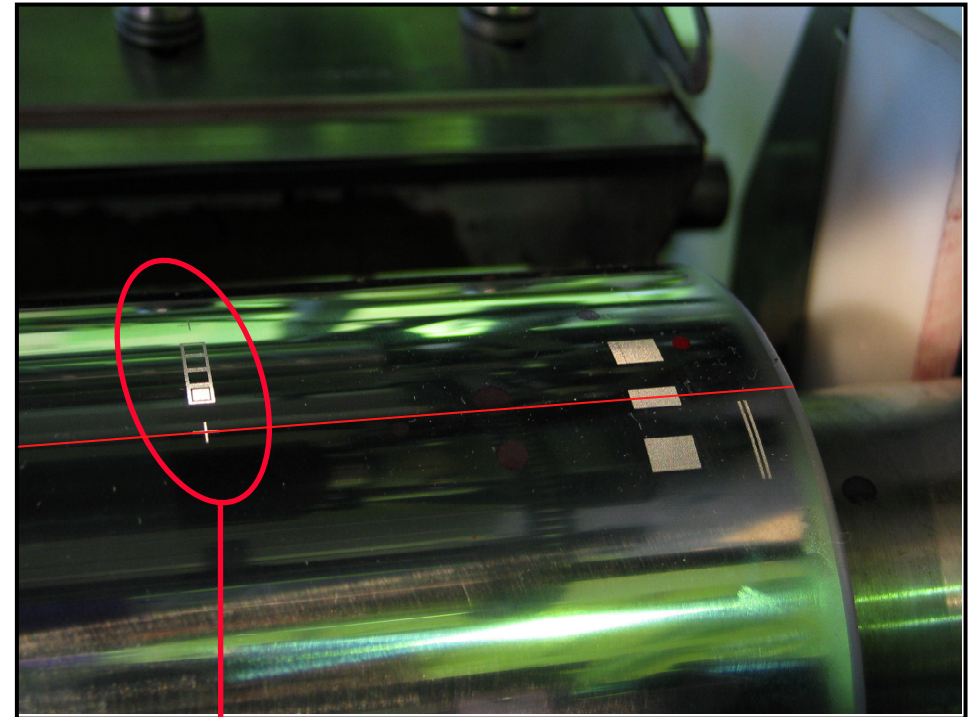


EASY SYNC

- automatic pre-register setting

- manual or automatic zero position setting for defined cylinder positioning

Laser sensor



register marks

HELIOSTAR® S

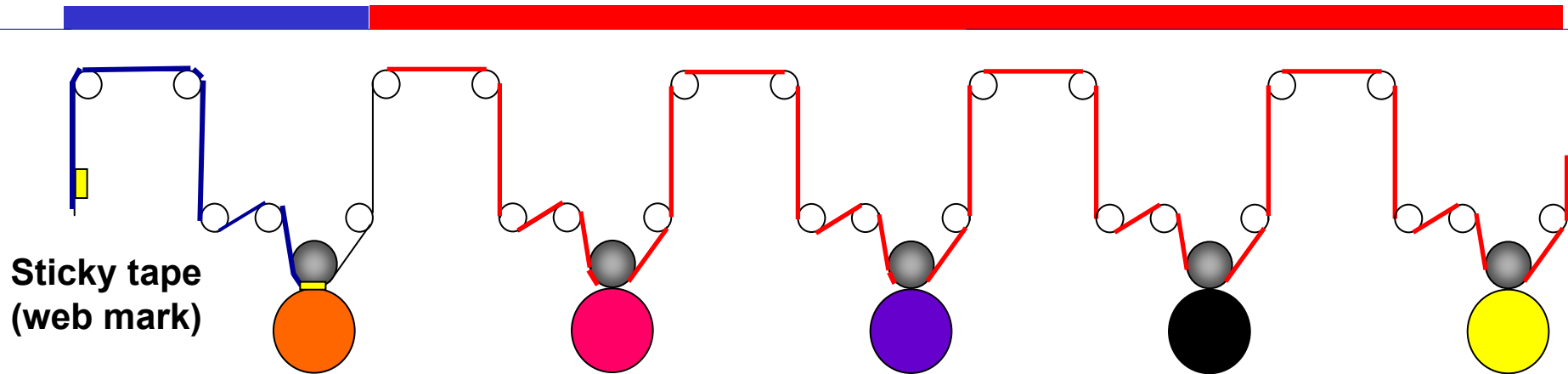
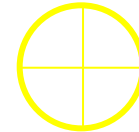
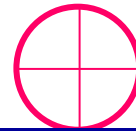
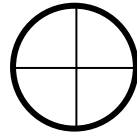
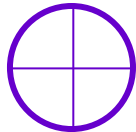


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EASY SYNC

- automatic pre-register setting

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How to start production in less than one machine web length of new substrate!

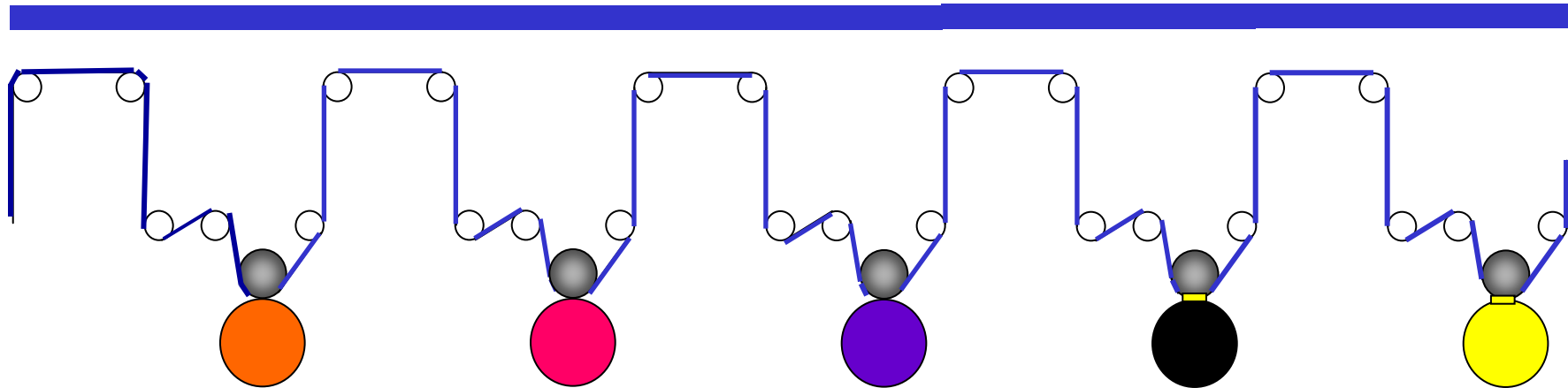
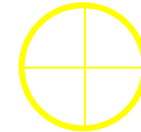
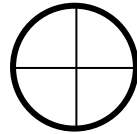
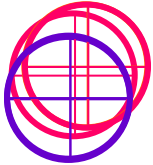


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EASY SYNC

- automatic pre-register setting

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How to start production in less than one machine web length!

- Without any additional register marks -



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Heliocontrol – integrated register control system

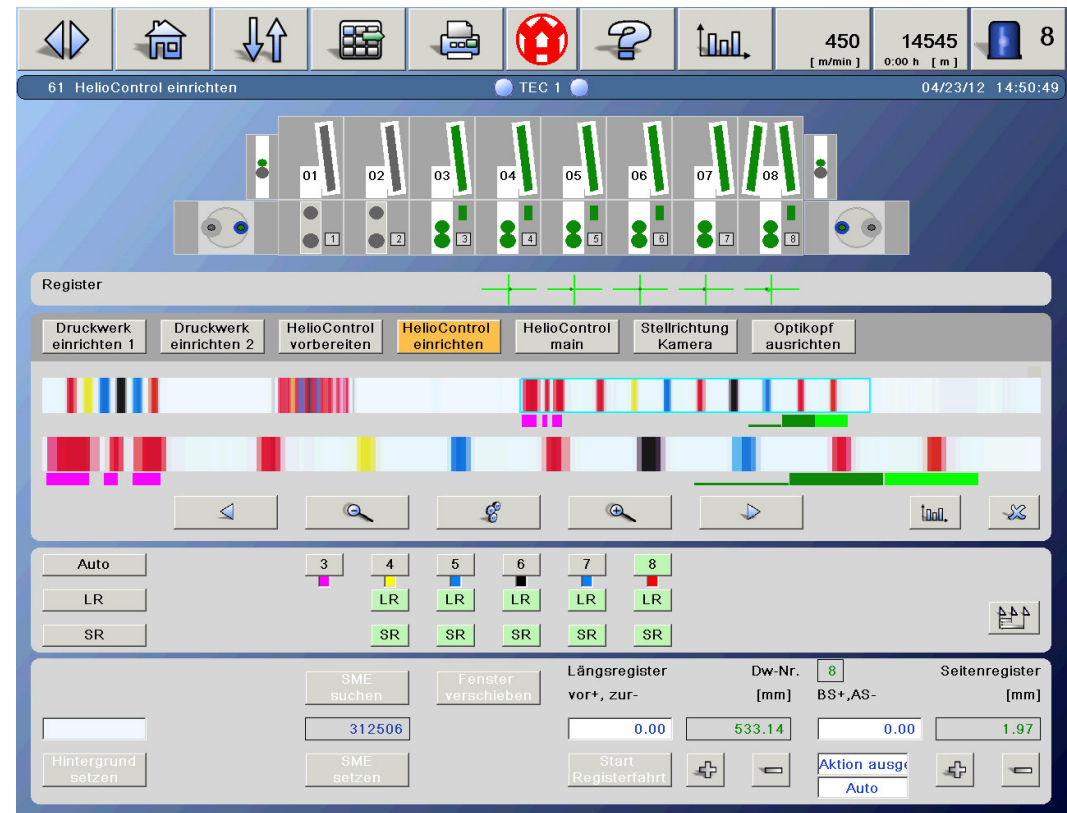


HELIOCONTROL

Drive & Register Management

HELIOSTAR® S

- Machine “knows” the substrate details (thickness, width, material type) and all its properties.
→ **Automatic controller adjustment**
- Storage of all recipe data in the machine order memory
→ **Easy operation**
- Automatic detection and display of register mark colour
→ **Optimized contrasts through pre-selection of light colour**
→ **Correct display on the screen**



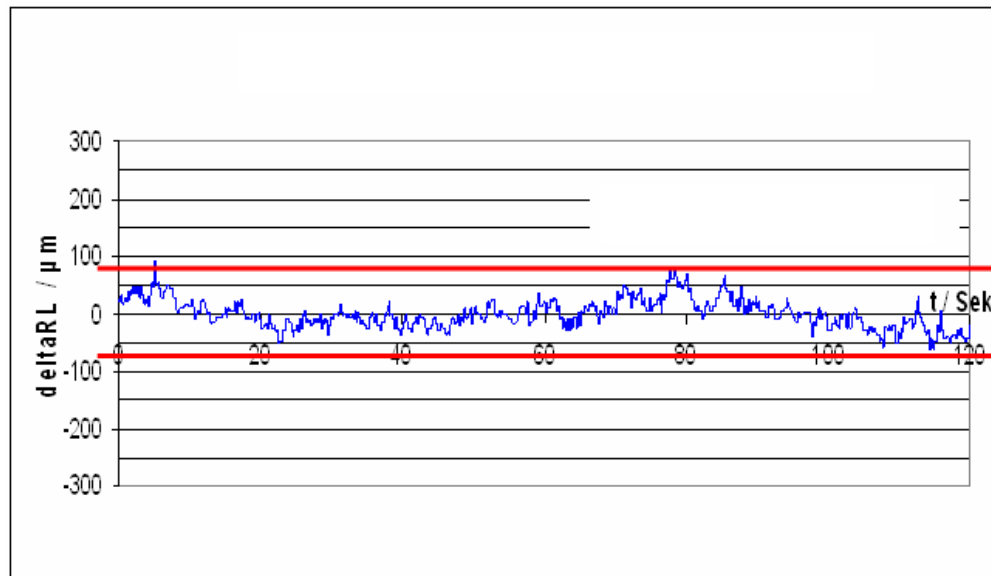
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HELIOCONTROL

Drive & Register Management

HELIOSTAR® S

- Maximum register accuracy
- Minimized waste
- Easy operation - fully automatic register setting in combination with Easy-Sync system



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Innovations in rotogravure printing

High-performance drying system



Air blade drying system

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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



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- Operator friendly access to the drying hoods
- Safe and energy efficient design with motorized flaps for fresh air and exhaust air – no manual setting of flaps!
- Air blade dryer with air velocity of 46 m/s ensures highest drying capacity - max. flexibility for sensitive materials is achieved by frequency controlled blowers – minimum air speed 30 m/s





- Consistent printing quality with driven inking roller
- Minimized start-up waste – Easy-Sync pre-register system
- Perfect register with integrated register controller Heliocontrol
- Efficient and flexible air blade drying system



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Thank you for your attention!



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