

# TWINStar

## Технические характеристики

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**TWINStar**

## Innovative register control

**Competition in the printing industry is tough and the requirements are constantly increasing. Precise control of the print image is the key to excellent print products.**

### **Precision from experience**

As a leading manufacturer of quality assurance systems for the web processing industries, the BST Group has completed more than 200,000 installations in over 100 countries worldwide and can look back on more than 60 years experience in the field of register control.

**The new eltromat TWINStar is a compact register control system for control of up to two control stations.**

### **TWINStar is our response to new challenges.**

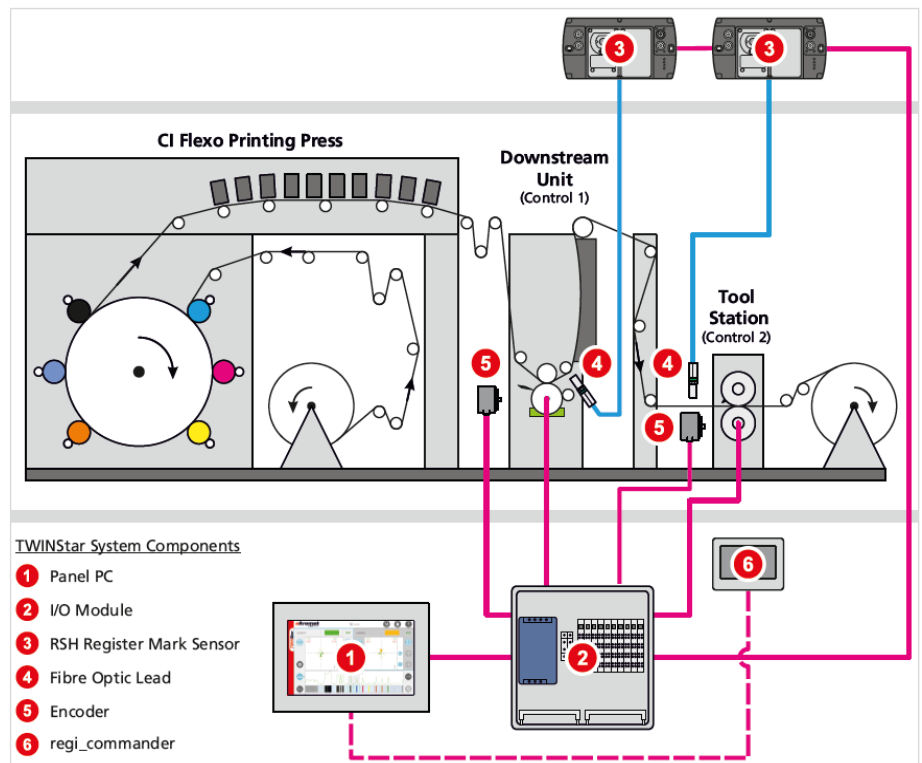
With its extensive scope of functions, it is the perfect solution for a wide range of applications. Typical areas of application are, for example, hybrid printing presses or converting machines in which different printing and converting processes are combined. **TWINStar** shows its class in the control of downstream printing units, of finishing or tooling stations or in the inseting of pre-printed materials.

Thanks to its flexible system architecture, the modular system is suitable for use on new machines as well as for retrofits on existing ones.

TWINStar - Your benefits:

- minimum **waste**
- reduced **production costs**
- fast **set-up times**
- easy **handling**
- maximum **quality**
- high process **reliability**
- increased **productivity**

**Do you have special requirements? Just get in touch with us. We will be happy to help you.**



### System configuration

The schematic illustration shows a typical system configuration of the **TWINStar** register control system for use on a CI-flexo printing press with two control stations for controlling a downstream printing unit and a tool station.

## TWINStar Options

### RegiTouch – semi-automatic register presetting

The **RegiTouch** function allows to bring selected register marks quickly and easily into the measuring gate.

### Insetter control

For register-true inseting of pre-printed webs and for electronic transmission adjustment of tools, insetter modules are available.

### Remote maintenance module

With the help of the remote maintenance module the system can be maintained easily and quickly by remote diagnosis via the Internet.

### regi\_commander control panel

With the compact **regi\_commander** operating panel, register deviations can be corrected directly at the printing unit or at the tool station.

### Chart outputs for recording

Special analog chart recording outputs can be used for external recording and analysis of register deviations.

### Determining the printing cylinder positions

The printing cylinder positions of all printing units are required for the make-ready process of the press. The register mark sensors determine and provide this information.

### Integration interfaces for process data

For the exchange of relevant process data and status information with the machine control system, PROFINET integration interfaces are available.

Convincing technology.

# First class register control

The system features of the **TWINStar** have been perfectly matched to printing applications with the highest requirements in terms of quality, flexibility and performance.

## Standard features in the basic system

Even the basic configuration offers you a wide range of intelligent functions for effective register control.

## Reliable mark detection

### Waste reduction under all production conditions

The adaptive **RSH** fiber optic register mark sensor of the **TWINStar** is able to detect even extremely low-contrast and metallized colors as well as transparent coatings.



With its fully automatic, optimal scanning technology, **TWINStar** supports both the eltromat single-head and the standard dual-head measuring method. By using the different measuring methods web-web and web-cylinder in any combination and the highly dynamic control modules specially optimized for the respective application, a maximum of waste and cost reduction can be achieved.

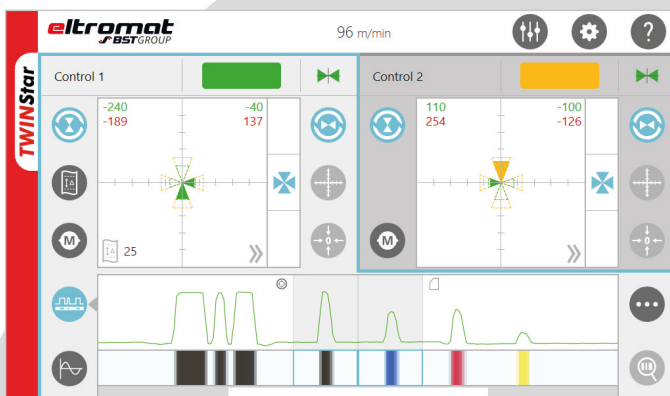
## One View, one Click

### Simple, intuitive operation

The newly designed operating concept provides all important information at a glance at all times. All necessary functions are reachable with just one click.

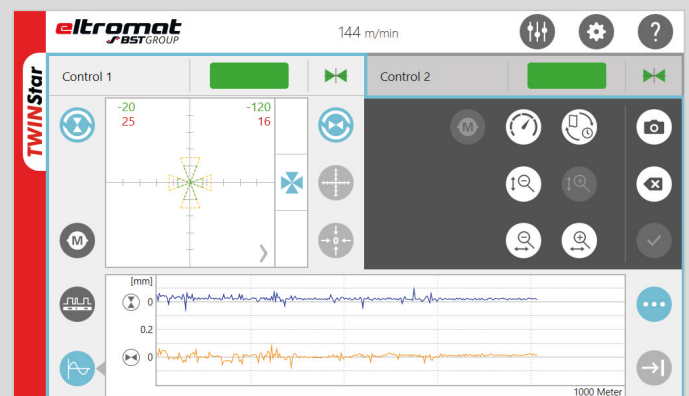


The modern touchscreen user interface offers efficient handling of the register control system. The clearly structured concept provides the operator with a maximum of comfort.



## Live image of the register marks

The colored display of the live image of the detected register marks and the recorded mark signal (oscilloscope view) on the user interface allows the operator to clearly assign even low contrast register marks.



## RegiChart - Register trend display

**RegiChart** visualizes the register trends of all control stations clearly over time or distance. **RegiChart** supports the operator during the running production to recognize deviation trends. In this way waste is avoided in advance.

TWINStar

# Technical data

## Register control

<b>Number of printing units</b>	1 or 2
<b>Maximum web speed</b>	1,200 m/min
<b>Format length</b>	50 – 6,000 mm
<b>Applications</b>	Gravure printing, flexo printing, offset printing, screen printing, hybrid machines, processing units
<b>Measurement methods</b>	web-web 1, web-web 2, web-cylinder
<b>Control algorithms</b>	Gravure, Offset, Insetter

## Sensors

<b>Variations</b>	RSH fiber optics, 1- and 2-channel
<b>Measuring resolution</b>	max. $\pm 5 \mu\text{m}$
<b>Measuring frequency</b>	max. 30 Hz
<b>Register marks</b>	Wedge marks, block marks, special printing features
<b>Materials</b>	Paper, foil, metallized substrates (opaque, transparent, reflective)
<b>ATEX approval (RSH fiber optics sensor only)</b>	CE 0123 Ex II 2G [Ex op is T4 GB] IIB

## System

<b>Operation monitor</b>	Panel PC (installation version) with 10.1" TFT touchscreen; 1,024 x 600 pixels Dimensions: 275 mm x 190 mm
<b>Interfaces</b>	Ethernet for remote maintenance and data exchange, PROFINET for machine integration
<b>Digital inputs</b>	24 V according to EN 61131-2, Type 3
<b>Digital outputs</b>	24 V, 0.5 A, short-circuit proof
<b>Power supply</b>	100 – 240 V AC / 50–60 Hz, 4 A
<b>Ambient temperature</b>	Panel PC: 0 - 55 °C (32 - 131 °F) PLC: 0 - 40 °C (32 - 104 °F) Sensor: 0 - 50 °C (32 - 122 °F)

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