

The Latest Technology.
Precise Web Guiding.



Overview:
Guiding Devices



BST Guiding Devices

Precise Web Guiding Corrections for Every Need.

BST web-guiding devices correct the position of the web precisely and almost instantaneously. In doing so, they play a central role in the smooth functioning of web guiding processes.

If the current position of the web as measured by the controller deviates from the target position, the web-guiding device – moved by the web-guiding actuator – corrects the position until the target position is reached again. Our guiding devices are deliverable in various sizes and types for nearly all web widths and applications.

Contact us: We would be happy to provide you with expert advice right from the early development and concept phases of your project.

EcoGuide

Cost-Effective Foundation for Your Web Guiding

Like the CompactGuide, the BST EcoGuide is ideally suited for guiding narrow material webs. The packaging and non-woven industries are two of its most common fields of application.

With three different sizes and various specifications, the EcoGuide is individually configurable and extremely cost-effective to use. Thanks to its compact design and built-in controller, the system is easy to install, even in small spaces. Another significant benefit of the EcoGuide is its intuitive operation, which uses an ergonomic keyboard and provides direct access to all important guiding functions. The maintenance-free, brushless drive allows for efficient operation, even in extreme conditions.

The EcoGuide is delivered ready for connection, reducing the effort required for installation and wiring to a minimum. It can be implemented for all installation positions and threadings.

System Equipment

- All digital standard edge sensors can be implemented (optical or ultrasonic)
- Operating side can be selected
- Guiding by web edge
- Manual sensor adjustment
- Remote control via digital inputs (digital I/O)

Options

- Guiding by web edge and web center (two edge sensors)



EcoGuide 1-3

If you need further information about your individual version, your contact at BST will be happy to help.

			Web widths	10 – 520					
EcoGuide 1-3	Max. web tension	300 N	Roller length	150	250	300	350	450	550
	Max. web speed	500 m/min	Correction span	180	200	250	300		
	Max. web position error	+/- 17 mm	Roller diameter	60					



CompactGuide 1-3



CompactGuide 4-6

CompactGuide

Precise Web Guiding in the Smallest Space.

The BST CompactGuide compact web guiding system is ideal for use with narrow material webs, especially in the label, packaging, and non-woven industries.

The CompactGuide comes in six different sizes, meaning that you will always find the perfect version to meet your requirements. Its compact, modular design and integrated controller allow for easy installation, even in small spaces. The removable ergonomic keyboard makes operation simple and intuitive

while providing fast, direct access to all important guiding functions. The ready-to-connect design minimizes the effort required for installation and wiring. The CompactGuide can be implemented for all installation positions and threadings.

If you need further information about your individual version, your contact at BST will be happy to help.

			Web widths	10 – 420						350 – 750				
CompactGuide 1-3	Max. web tension	300 N	Roller length	160	200	250	300	350	400	450				
	Max. web speed	600 m/min	Correction span	180	200	250	300							
	Max. web position error	+/- 17 mm	Roller diameter	40	60	80								
CompactGuide 4-6	Max. web tension	600 N	Roller length						400	450	500	550	600 – 800	
	Max. web speed	600 m/min	Correction span						300	350	400	450	500	
	Max. web position error	+/- 25 mm	Roller diameter						80					

System Equipment

- All standard edge sensors can be implemented (optical or ultrasonic)
- Operating side can be selected
- Guiding by web edge
- Manual sensor adjustment
- Remote control via digital inputs (digital I/O)

Options

- Line and contrast guiding with CLS Pro 600
- Guiding by web edge and web center (two edge sensors)
- Manual fine adjustment for one or both edge sensors
- efe digital remote control
- Wide array sensors US SEN 3xx, IR SEN 4xx

SMARTGuide / FRAMEGuide

Tried and Tested Solutions for Optimal Web Guiding.

The SMARTGuide's resp. FRAMEGuide's main applications are printing and extrusion.

This BST pivoting frame guides are especially suitable for short closed loops with low material stress. The sensors can be moved by optional motor-driven sensor adjustment. This is especially beneficial for sensors that are difficult to access, web widths that frequently change, or special functions such as oscillation.

You will benefit from proven standards and a wide variety of equipment features: Thanks to the SmartGuide's resp. FRAMEGuide's modular design, customer-specific solutions can be

implemented particularly efficiently. Simple retrofits are also possible at any time. The predefinition of characteristics ensures maximum transparency and simplifies technical clarifications.

BST web guiding systems can basically be used for all installation positions and threadings.

The BST FRAMEGuide impresses with high-precision control results combined with the lowest possible overall height for pivoting frame guides.



SmartGuide.DF Size M



FRAMEGuide

If you need further information about your individual version, your contact at BST will be happy to help.

			Web widths	750 – 1750								900 – 3400			
SMARTGuide Size M	Max. web tension	1000 N	Roller length	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	
	Max. web speed	800 m/min	Correction span	800	900	1000	1100	1200							
	Max. web position error	+/- 25 mm	Roller diameter	120	160										
SMARTGuide Size L	Max. web tension	1000 N	Roller length			1000	1100	1200	1300	1400	1500	1600	1700 – 3500		
	Max. web speed	800 m/min	Correction span			1400	1500	1600	1700	1800	1900	2000			
	Max. web position error	+/- 50 mm	Roller diameter			120	160	200							
FRAMEGuide Size M	Max. web tension	1000 N	Roller length		900	1000	1100	1200	1300	1400	1500	1600	1700	1800	
	Max. web speed	800 m/min	Correction span		800	900	1000	1100	1200	1300	1400				
	Max. web position error	+/- 50 mm	Roller diameter		90	120	160								

System Equipment and Options

- All standard edge sensors can be implemented
- Operating side can be selected
- Guiding by web edge or web center
- Manual or motor-driven sensor adjustment
- Remote control via digital inputs (digital I/O or optional fieldbus module in BST controller)
- Motor-driven sensor adjustment with automatic edge search for web edges and/or web center-line guiding and web width measurement
- Remote control with additional ekr commander
- Guiding according to lines, contrasts or objects on the web optionally possible

BST Guiding Solutions

Precise Winding Through Exact Position Guiding.

BST Winder Packages are frequently used in converting applications.

Guided winding and unwinding ensures that shifts in the web position are precisely balanced and effectively minimizes the potential for errors. Tried

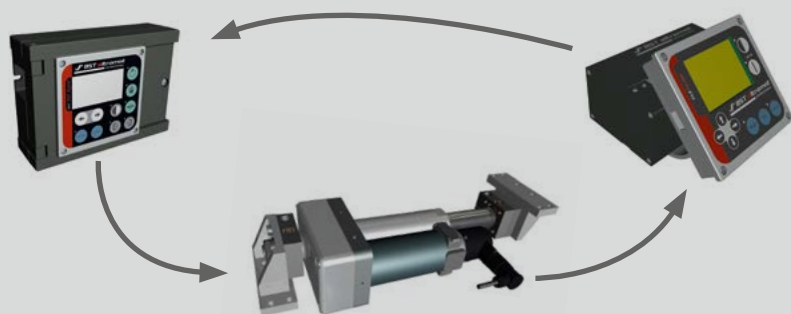
and tested BST system components and a comprehensive range of options provide optimal solutions for customers at an affordable price. For example, line and contrast guiding are optionally available with our CLS Pro 600 or our new object sensor CLS CAM 100.

The modular design of the BST Winder Packages allows expansions to be retrofitted at any time. The predefinition of characteristics simplifies technical clarification processes and increases transparency.

System Equipment and Options

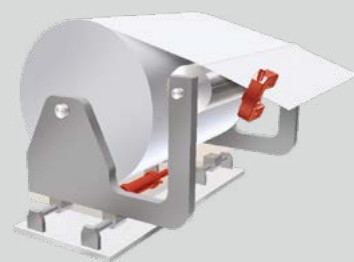
- All standard edge sensors can be implemented
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- Remote control with additional ekr commander
- Guiding according to lines, contrasts or objects on the web optionally possible

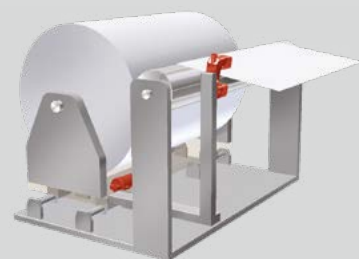


If you need further information about your individual version, your contact at BST will be happy to help.

BST Winder Package	Max. positioning force	840 N	Positioning stroke (mm)	50	100	200
	Max. adjustment speed	20 mm/s	Adjustment speed (mm/s)	10	20	
	Max. web position error	+/- 100 mm				
	Max. positioning force	1680 N	Positioning stroke (mm)	100	195	
	Max. adjustment speed	20 mm/s	Adjustment speed (mm/s)	10	20	
	Max. web position error	+/- 100 mm				
	Max. positioning force	2250 N	Positioning stroke (mm)	195		
	Max. adjustment speed	20 mm/s	Adjustment speed (mm/s)	10	20	
	Max. web position error	+/- 100 mm				
	Max. positioning force	9000 N	Positioning stroke (mm)	195	295	
	Max. adjustment speed	20 mm/s	Adjustment speed (mm/s)	10	20	
	Max. web position error	+/- 150 mm				



Guided unwinding



Guided winding



BST Guiding Devices

Customized Solutions for Optimal Web Guiding.

Increasing production speeds and rising quality demands mean that modern manufacturing machinery in web-processing industries has to deliver extremely high performance. It is important to take full advantage of machine speeds while still ensuring that everything runs smoothly.

As a leading manufacturer of quality assurance systems for the web-processing industry, BST has performed over 100,000 installations in more than 100 countries around the world. With our many years of experience, we are ideally positioned to provide you with expert, customized, and solution-oriented support in optimizing your converting processes.

Tailored to Your Production

BST systems guide webs during many different manufacturing processes, can be used for a wide range of materials, and effectively minimize waste and downtime. They are also designed to meet your precise requirements in terms of their scope and degree of automation.

Our solutions result from detailed discussions with you: We will be by your side to support you during your initial project planning and design phase and throughout all of your decision-making processes; we are happy to contribute our extensive expertise and our equally extensive passion for perfection. You benefit from tailor-made systems that perform reliably every time you use them.

Just get in touch with our expert sales and administration team members. We would be happy to advise you!

BST Guiding Devices

Guiding Systems for Every Level of Converting.

The structure of your production line will depend on the scope of converting required for the web. Untreated webs can only be guided based on the web edge or web center, because there are no other contrast characteristics on the web itself. Finished webs, on the other hand, offer more options for sensor-based position monitoring using aspects such as printed lines or contrasts that can be freely selected.

The following information is important for setting up a BST web guiding system with a pivoting frame guide or a swivel roll guide:

General Data:

- Type of machine
- Installation site
- Transparency of material (transparent, translucent, variable, reflective, opaque)
- Web speed
- Material thickness
- Web width

Type of Scanning:

- Web edge
- Web center
- Line/contrast
- Objects

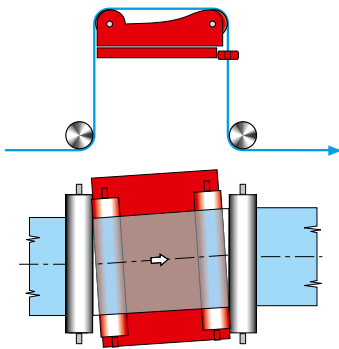


BST Guiding Devices

Forward-Thinking Technology That Helps You Advance.

Pivoting Frame Guide (DF)

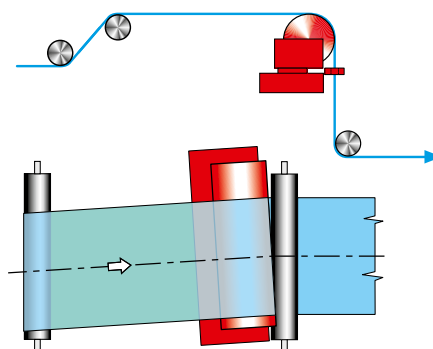
The BST pivoting frame guide consists of a fixed lower frame and a movable upper frame, which pivots at the entry point of the web. This guiding device is used if the path of the web has to be corrected in a short closed loop with extremely low material stress. Further benefits include the variable installation positions and the low positioning force.



How the pivoting frame guide functions

Swivel Roll Guide (SF)

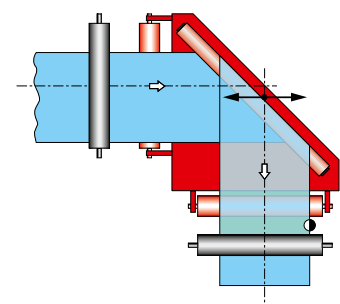
The BST swivel roll guide consists of a fixed lower frame and a movable upper frame with one or two casters. This web-guiding device requires sufficiently long entry and exit spans in order to function properly. Swivel roll guides are implemented if installation space is limited, if the required web threading does not allow for the use of a pivoting frame guide, or if the web continually drifts off to the side (integral correction).



How the swivel roll guide functions

Turning Bar

The turning bar is used in all cases in which a 90° turn in the web with simultaneous web guiding is required. The turning bar is installed at a 45° angle to the entry/exit direction of the web. The web winds itself around the turning bar at an angle of 180° and exits the guiding device at a right angle to the entry position.



How the turning bar functions

