Overview
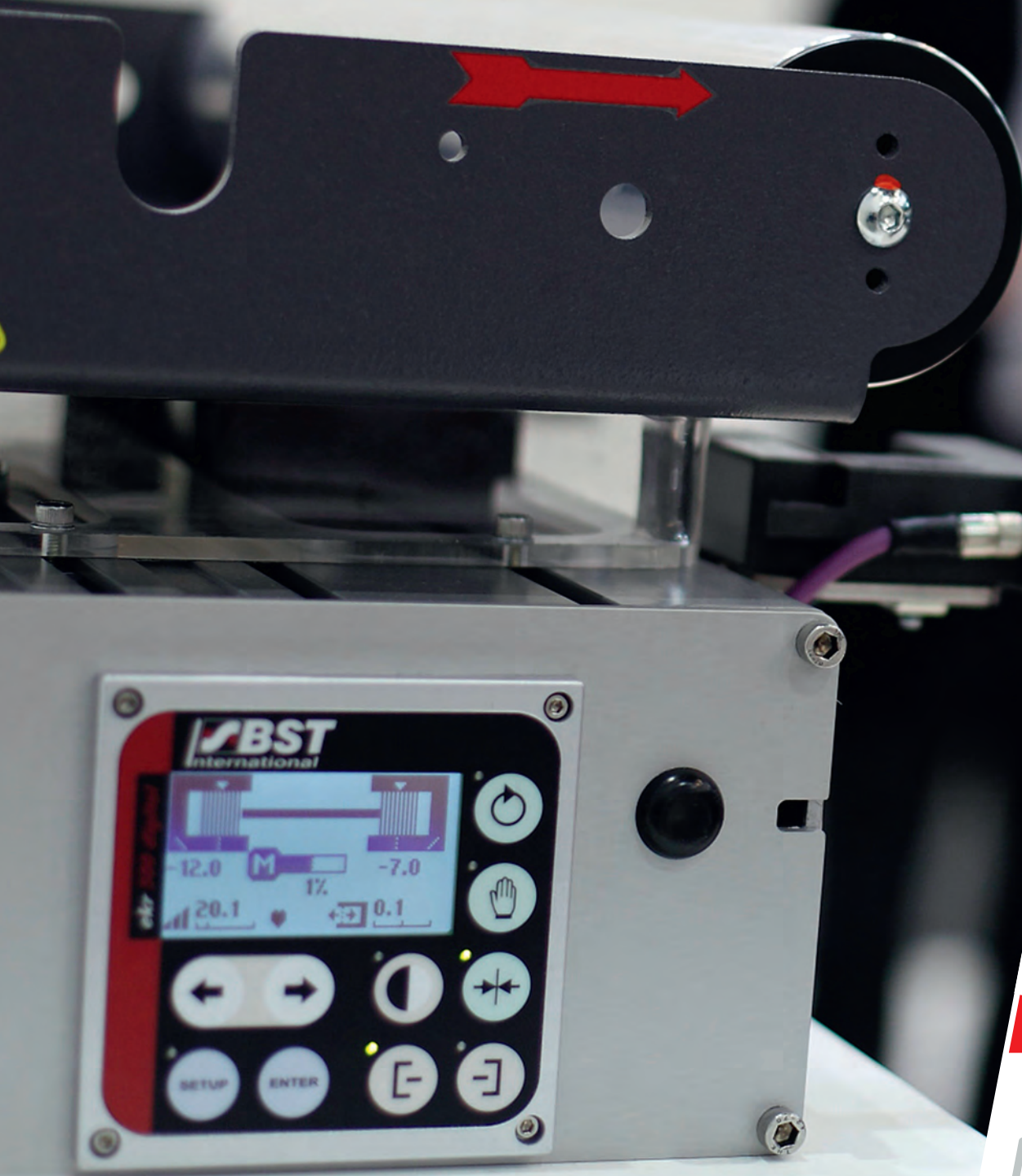# Controllers

COMPARISON OF CONTROLLERS
Reliable control for any application

Basic
ekr 500 digital – compact, simple, clear

The functional scope of this affordable controller is specifically aligned to classic web guiding applications. ekr 500 digital particularly stands out because of its user-friendliness and convenient commissioning and operation. The compact controller design and the removable control unit allow for comfortable handling even when it is installed in places which are hard to get to. The clear LC display graphically shows all relevant data including web position, sensor coverage and actuating drive position. The control unit may function up to 20 m away from the controller. This allows for universal handling, fewer cables and simple wiring.

ekr 500 digital – your benefits at a glance:
- fast commissioning (Plug & Play)
- easy to replace when maintenance is required
- simple handling for users and fitters
- CAN hub technology
- galvanically isolated CAN bus for networking with other BST controllers
- USB service interface

Advanced
ekrPro Com60 – maximum ease of use

ekrPro Com60 stands out due to its simple installation and clear control elements. After selection of the connected components (sensors, actuators etc.) in the set-up menu, all relevant control parameters are automatically adjusted. The user, therefore, only has to select the control functions (automatic, manual or center position) and the scanning mode (left or right web edge, center-line guiding).

ekrPro Com60 – your benefits at a glance
- flexible configuration
- step motor output stage for motor-driven sensor adjustment
- optional configuration with a fieldbus module for:
  - safe, fast data transmission
  - connection to various bus systems using BST interface modules (external networking)
  - convenient connection to higher systems (PLC or PC) using suitable gateways

Basic & Advanced
Modern technology in limited space
The compact controller design allows for direct installation on/inside the guiding device.

Universal applications
The variety of connectible components ensures optimal alignment with your application. All controllers come with ports for various sensors (ultrasonic, optic, line and reflection sensors as well as line cameras) and actuating drives of various performance classes (with or without position feedback).

	Basic ekr 500 digital	Advanced ekrPro Com[60]
Electronic remote control keyboard (efe Plus)	✔	✔
Electronic remote control keyboard (ekrPro Key[60] Desk)	✘	✔
Keyboard detachable	✔	✘
Remote Control via I/O	✔	✔
Digital I/O	max. 16; 12 Input, 4 Output	12 Input, 4 Output
Error output / ok-relay	✔	✔
Additional locking only for automatic mode	✔	✘
Networking with fieldbus module	CAN open ✔ Ethernet* ●**	ProfiBusDP ● DeviceNet ●
Master/Slave with motorized sensor positioning	✘	✔
Motorized sensor positioning with automatic edge seeking	✘	✔
Special logic software	✘	● (with additional mini SPS)
Oscillation	● (via efe Plus)	✔
FVG Oscillation integrated	✘	✔
Web width measurement	✔**	✔
Tear-off detection	✘	✔
Watch Dog	✔	✔
External locking input	✔	✔
External locking output	✘	✔
Manual position control	✔	✔
External input for machine speed	✔	✔
Connection of servo valve for hydraulics	✘	✔ (0-1000 mA)

yes: ✔ no: ✘ optional: ●
* with CAN-Ethernet-coupler
** in 3. quarter 2013 available

TAILORED SOLUTIONS FOR RELIABLE WEB GUIDING

Electronic remote fine adjustment (EFE)
Due to either the conditions of the machine or production requirements, it may be necessary for web position to be corrected at a location remote from the actuator. Electronic remote control permits correction of web position and operation of basic functions from any place on the machine.

Remote control on the machine

To learn more, please visit **www.bst-international.com**.

Your local contact

Be inspired. Move forward.

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