

BST compact controller  
**Compact, flexible,  
 easy to use**

## ekr 500



### Doing more with less

The **ekr 500** is designed to be easy to operate and to provide precise and reliable web control. The new compact design can be easily integrated into any equipment that requires web guiding.

The **ekr 500** was inspired by the need to provide a compact web guide controller with all necessary features to meet all standard web guiding requirements. This makes the **ekr 500** very user-friendly with simplified controls that reduce system start-up and handling to a minimum.

With less start-up time and handling, you improve productivity and save time immediately.

### Compact and flexible

The compact design of the **ekr 500** controller with its unique removable control panel ensures simple integration into every machine.

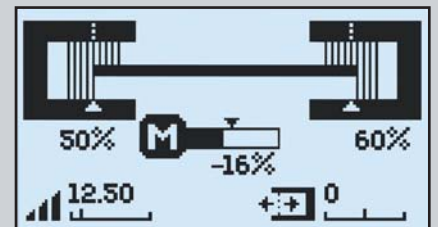
Operation of the **ekr 500** is carried out via a control panel that is attached to the front side of the controller. If the installation requires a remote mounting of the control panel due to space or access limits, it can be remotely mounted in the machine operator control station.

The square shape of the control panel and reduced profile allows it to be easily mounted in a variety of positions (see *back page*).

### It couldn't be easier to use

The user-friendly membrane keypad with colour-coded icons provides a simple and intuitive operation. The controls ensure fast and direct access to all of the functions of the **ekr 500**.

The logically designed and illuminated graphical display of the control panel shows all of the functions and parameters during operation. The universally understood symbols used on the graphical display eliminate the need for any text display.



Clearly organised graphical display showing sensor coverage, actuator position, system gain setting and guiding set point



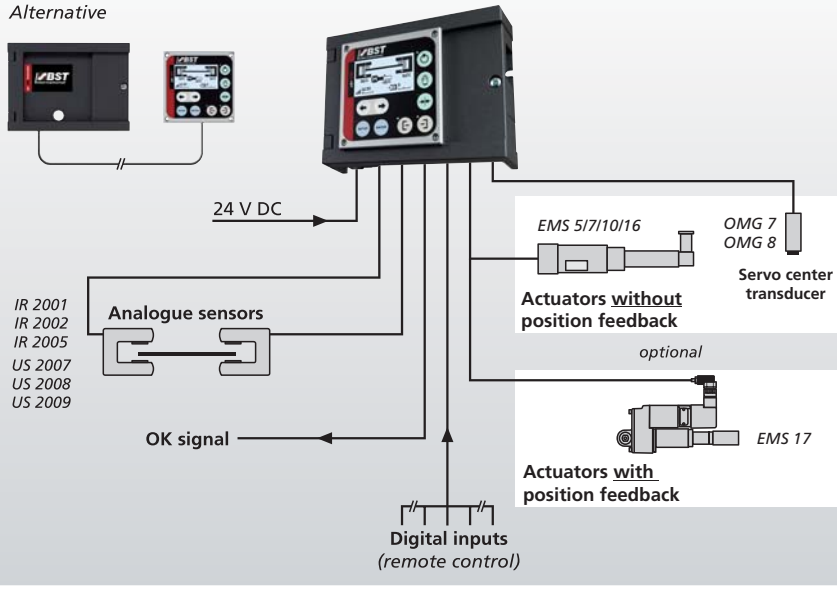
ekr 500 controller shown with the control panel in a remote location

# ekr 500

## Technical data

### Connectable components

Alternative



### Technical data

Supply voltage:  
24 V DC

Current consumption:  
max. 2.5 A

Guiding functions:

- Control to the **left** web edge
- Control to the **right** web edge
- Control to the web **center-line**

Analogue inputs:

- 2x sensors (-10 V ... + 10 V)
- 1x servo center transducer

Digital inputs:

- Remote control inputs  
> 8 V active, < 4 V not active,  $R_i = 4.7 \text{ k}\Omega$

Blocking (controller interlock):

- through external switch or PLC  
> 8 V active, < 4 V not active,  $R_i = 4.7 \text{ k}\Omega$

Outputs:

- Motor output stage, 24 V
- OK signal, relay contact, max. 24 V

Graphics display:

- Resolution 128 x 64 pixels
- LED background illumination

Operating conditions:

- Temperature: 0 ... 45°C
- Air humidity: 5 ... 90%, not condensing

Protection class: IP 54

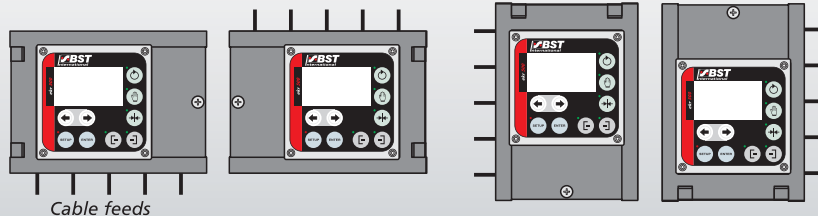
Weight:

- Controller: approx. 1.5 kg
- Control panel: approx. 0.4 kg

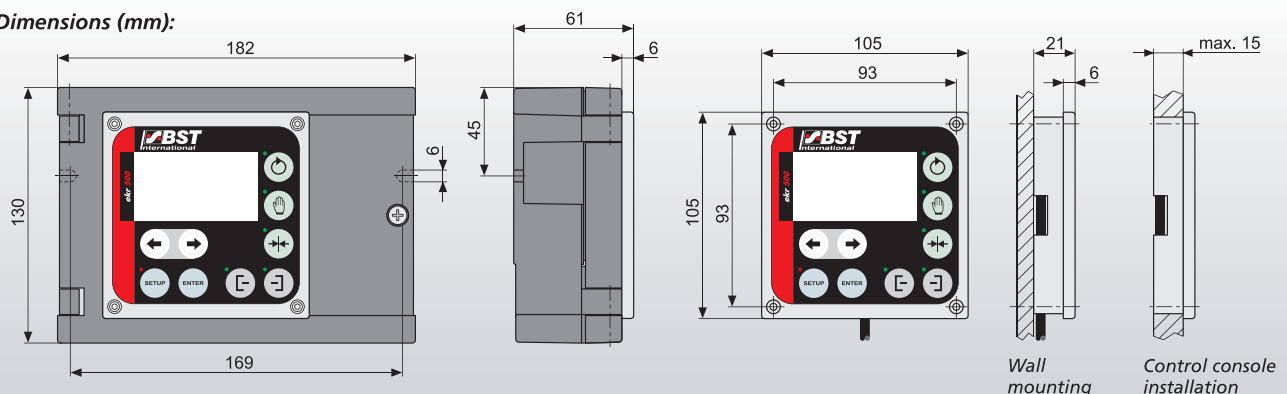
### Variable installation positions

horizontal

upright



### Dimensions (mm):



**BST International GmbH**  
Heidsieker Heide 53  
33739 Bielefeld, Germany  
Phone: +49 5206 999-0  
Fax: +49 5206 999-999  
www.bst-international.com  
info@bst-international.com

**BST Pro Mark**  
650 West Grand Avenue # 301  
Elmhurst, Illinois 60126 USA  
Phone: +1 630 833-9900  
Fax: +1 630 833-9909  
www.bstpromark.com

Local representative: