

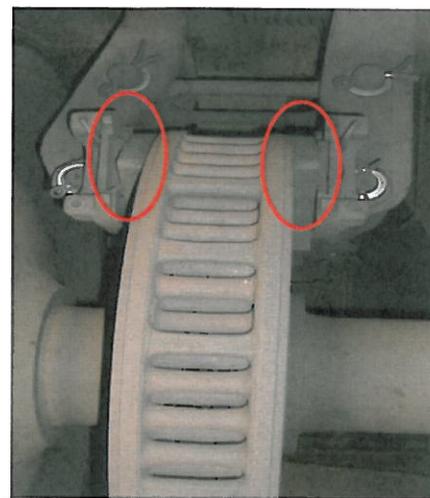
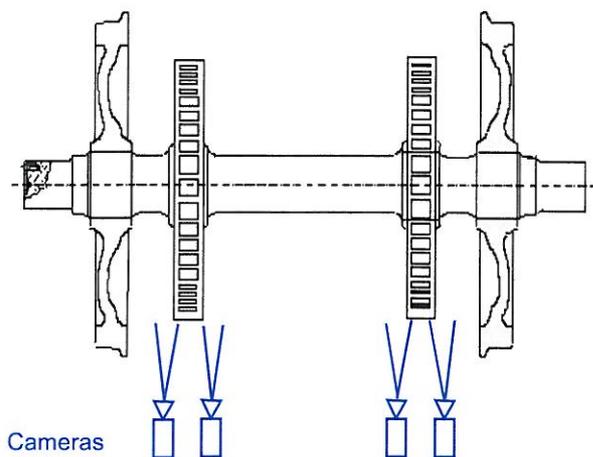
ABC System

Automatic Brake Control – System.

The ABC System is used to automatically measure the brake pads of rail vehicles with disc brakes.

Measurements are carried out while the rail vehicle is travelling at max. 30 km/h.

The measuring results for a whole train are graphically displayed at an operation terminal and stored in a database once processing has been completed. The operation terminal has a special user interface for processing the measuring procedures. This uses rights management to provide the various users access to various functions.



Function: The ABC System consists of an 8 cm flat and extremely robust scanning unit which is installed between the tracks, as well as a displaced operation terminal. The scanning unit contains the image recording components, the line scan cameras and the infrared illumination. The main task of the operation terminal is to measure the wear parts by means of the recorded data. The operation terminal additionally manages the measured data and is responsible for compression and archiving. Furthermore, the operation terminal provides an easy-to-use search function and supports the export of all the data from the database. Integration into a higher order network is also possible.



Key facts:

High measuring accuracy

- Due to the measuring accuracy of +/- 1.5 mm the brake pads do not have to be replaced until close to the wear limit, thus reducing spare part costs.

Rapid measurements of moving traffic

- No idle periods due to time intensive, manual measurements of brake pads.

Cost efficiency due to low installation and personnel costs

- The 8 cm flat scanning unit of the ABC System can be easily installed between the tracks. Moreover, a minimum amount of operating personnel is required.

Application of state-of-the-art software

- The software of the ABC System provides a wide range of functions. It has a clear and self-explanatory design and is compatible with all common systems, thus enabling the simple export of archived data and integration into existing networks.

Data:

- Robust scanning unit 140 x 140 x 8 cm
- Image recording via high-speed line scan cameras
- Special infrared illumination
- Automatic train number recognition via RF tags
- Connection of the scanning unit to the operation terminal via plug connector
- Connection of the operation terminal to a higher order network via WLAN or LAN