

# BELKI Check System 3.0



● Constant concentration in coolant

● Information and insight into fluid condition

● Minimize maintenance time on fluid

● Fewer variable parameters

● Monitoring of fluid parameters

Industry 4.0

## Area of use

BELKI Check System (BCS) measures and adjusts the concentration of coolant concentration in the emulsion without operator action. BCS is also used to top-up the tank as well as to monitor and log a wide range of fluid parameters. BCS can be connected to all cooling lubricant systems, e.g. central systems or a filtration system for an individual processing machine, and can be connected to both existing or new systems.

## Operation

BCS automatically maintains the pre-set concentration of coolant concentrate by filling with a low concentration, and then adding coolant concentrate until the desired concentration is reached. In addition, the system also logs a range of fluid parameters according to the sensor configuration, and thereby enables the operator to evaluate fluid and operational parameters. Using the BCS system it is possible to measure and log water consumption, pH value, conductivity, temperature and pressure.

## Advantages

- Maintain optimal concentration, saving time for manual top-up and control
- No risk of overspending concentrate
- Correct concentration optimizes the quality of output and reduces wear on cutting tools
- Improved working environment

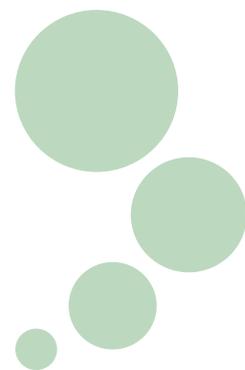
**BELKI Filtertechnik GmbH**  
Ostpromenade 54, D-52525 Heinsberg  
Tel +49 (0) 2452 10651-27  
www.belki.de • info@belki.de



Filtration with capacity

Hovedkontor / Headoffice / Hauptsitz:  
**BELKI teknik ApS**  
Fårupvej 19, DK-8840 Rødkærbro  
Tel +45 8665 8811  
www.belki.dk • post@belki.dk

## Technical specifications



BELKI Check System 3.0 is supplied in three configurations with the option to purchase sensors as required.

The **basic** version requires external fluid pressure, a minimum 2.5 bar, of both tap water and to the measuring line in the BELKI Check system.

BCS is supplied with an internal water pump if the system needs to be **disconnected from the water supply**.

BCS can also be delivered with an **internal circulation** pump if the system to be monitored cannot deliver a continuous pressure of 2.5 bar.

The standard BCS delivery is configured for refilling of the cooling lubricating tank, as well as measurement, logging and adjustment of the oil content in the cooling lubricant. In addition to measuring and logging of fluid parameters such as pH value, temperature, water consumption and conductivity, this can be added to the system if desired.

Measurements  
Length x width x height:  
604 x 604 x 1974 mm

### Configurations

**Basic** – Requires both external water pressure and external pressure for circulation of cooling lubricant, minimum 2.5 bar

**Disconnected water supply** – Pressure of water is set internally, complies with German Water Resources Management Act (WHG)

**Internal circulation** – The lubricating coolant is circulated using internal pumps

### Measuring points

|   |                 |
|---|-----------------|
| Concentration, incl. adjustment and logging | Always included |
| Water consumption, incl. logging            | Purchase        |
| pH, incl. logging                           | Purchase        |
| Temperature, incl. logging                  | Purchase        |
| Conductivity, incl. logging                 | Purchase        |

Presented by / Überreicht durch:



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