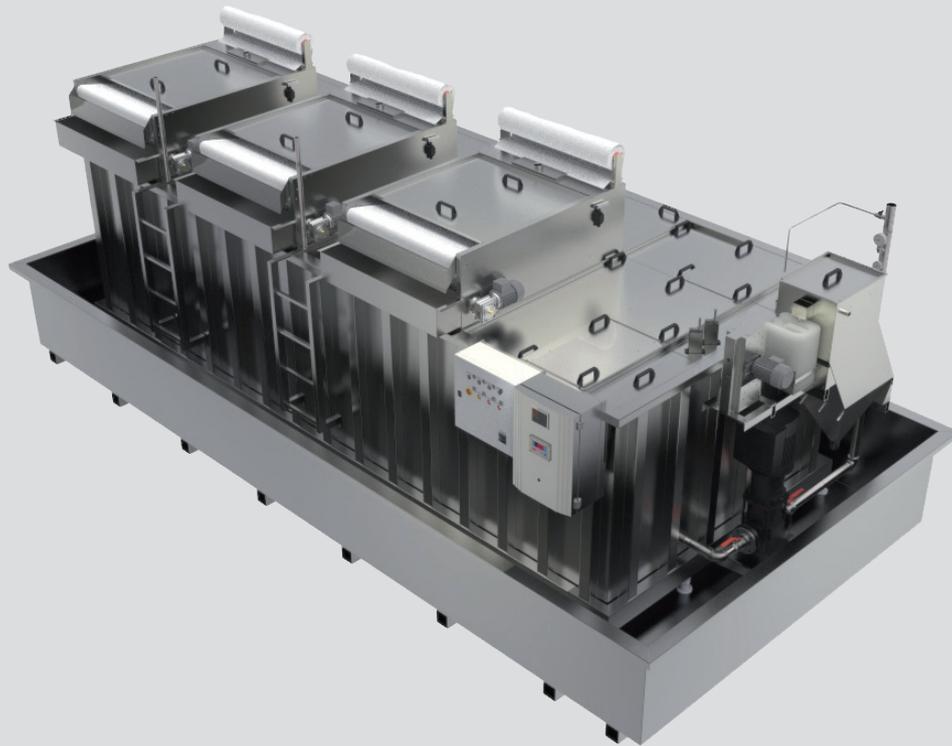


BELKI Central systems



Central systems

Taking our basic equipment as a starting point, we design and build central systems which are effective, environmentally friendly and economic. BELKI's Central systems are adapted to our customers' demands, as we recognise that they often have unique needs and problems. BELKI has therefore specialised in rapidly and effectively developing essential and supplementary equipment. If necessary, the central system will be adapted to the building's physical conditions.

Operation

Central systems can be installed in productions that have more grinding- or CNC turning and milling machines in use. The coolants/lubricants are pumped from each machine to a central system and are cleaned for the unwanted particles and tramp oil. The central system is equipped with the necessary filtration stages dependent on the process, local conditions and requirements for purity. We make By-pass and Full-flow systems or a combination of both.

Advantages

BELKI's Central systems are reliable, have high process efficiency and require low maintenance. The impact gives obvious results such as:

- Extended lifetime of the process fluid
 - Fewer maintenance hours in the production
 - Longer lifetime for tools
 - Improved product quality
 - Cleaner working environment and less waste disposal
 - Designed in stainless steel, lower maintenance costs and longer lifetime
- = Better results on the bottom line

Technical Specifications

BELKI's Central systems are modular and adjustable for every requirement. These may be small regional stand-alone units which supply a group of machines, or it may be a large unit which supplies an entire plant.

Standard tank capacity: 3-15 m³

The control ensures high operating reliability and the automatic post-dosing is standard equipment. With a **Belki Check System (BCS)** it is possible to achieve fully control with the oil concentration in the emulsion. The system is able to measure, log and adjust the concentration. With the BCS-system it is possible to measure and log: Water consumption, pH value, conductivity, temperature and pressure.

By extensive temperature variations the central system can be supplied with both a cooler and a heating unit. The water quality can be adjusted with the integration of a RO system.

BELKI takes care of the entire process from the central system, pipe installation and the machine connection.



Central systems for turning and milling

The central systems are dimensioned from which principle is to be used (Full-flow/ By-pass). The advantages from the two principles are carefully discussed before the final and best solution is decided.

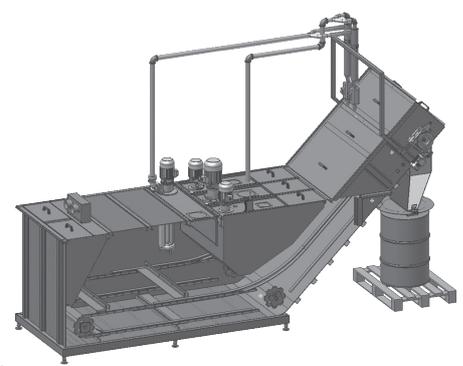
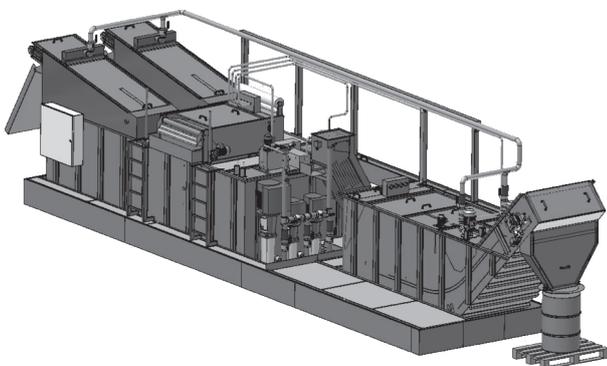
The central systems can be built with: a deep bed band filter, magnetic filter, micro floatation and an oil separator. The most significant problems that are solved are the removal of tramp oil, chips and particles.



Central systems for grinding

The most important parameters are the quantity of grinding sludge and the requirements for purity (nominal particle size). In addition, it is important to know which material is being grinded and the material of the grinding wheel (CBN, Corund). On this basis the right number of steps in the filtration process is decided.

The central systems can be built with: a scraper tank for sedimentation, paper filter, magnetic filter, hydro cyclones and clean tank. The most significant problem that is solved is the removal of particles so that the quality in the grinding process is maintained.



Presented by / Überreicht durch:

BELKI!

Filtration with capacity