New filtration technology for MQL – fully effective for various processes

FLEXI-P separates reliably both, metal dust and chippings as well as oil mist.

In case of changing processes, it is not necessary to firstly adjust the connected separation system.
Filter cartridge FLEXI-P

Hard to evaluate: Which kind of air pollution will arise?

Either metal dust and chippings but also oil mist arise at machine tools with MQL to a considerable extent. Although it is difficult to evaluate which kind of air pollution will arise in practice, customers so far had to decide for either a dry separating system which is optimized for the separation of dust and chippings or a special emulsion and oil mist separator.

FLEXI-P combines two types of filters

The new cartridge filter combines the positive characteristics of two types of filters and consists of two layers—a fine fiber material, which is also applied in the Keller MICOS-P filter as well as polyester fleece. Dust and chippings are separated already at the filter surface, oil aerosols get into the interior of the filter material. The hydrostatic pressure, which builds up in the minimum 60 cm high cartridge flows out downwards. The new filtration procedure combines surface with deep-bed filtration, to be able to separate both dry and humid residues optimally from air.

Considerably increased service lifes

The data evaluation of 450 systems, carried out by Keller experts, showed that with supposed “dry” processes, oil arose to a large extend—either because of irregular use of lubricants or too much use of lubricants, for example, to take care of expensive tools and to avoid their prematurely breach. Using inappropriate filters for such processes, mostly pays with small service lifes of secondary filters. FLEXI-P managed it to increase these service lifes by ten.

Small investment risk, high flexibility

Choosing FLEXI-P reduces the customer’s investment risk considerably since in case of changing processes, it is not necessary to firstly adjust the connected separation system.

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