



New filtration technology for MQL –
fully effective for various processes

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



Even when changing processes, it is not necessary
to adjust the connected separation system.

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

Either metal dust and chippings or 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 between either a dry separating system, which is optimized for the separation of dust and chippings, or a special emulsion and oil mist separator.

To be more flexible in the future and to meet the complex separation challenges to machines for metal treatment optimally, Keller developed the universally applicable FLEXI-P cartridge filter.

**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 at the filter surface, oil aerosols get absorbed 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 lives**

The data evaluation of 450 systems, carried out by Keller experts, showed that with supposed “dry” processes, oil arise to a large extent – 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 premature breach. Using inappropriate filters for such processes, mostly pays with small service lives of secondary filters. FLEXI-P managed it to increase these service lives by ten.

**Small investment risk,
high flexibility**

Choosing FLEXI-P reduces the customer’s investment risk considerably since it is not necessary to first adjust the connected separation system when changing processes.