Storage tank with filling level monitoring VBF for DATRON EK-D cooling/lubrication system

Robust metal tank for the standard cooling/lubricating system DATRON EK-D. The storage tank with five l capacity is fastened directly to the machine. An automatic filling-level check with a warning message via the control guarantees process safety. A visual filling check is also a component.

Properties:
- Industrial version (metal)
- 5-litre capacity
- Visual filling level control
- Automatic filling-level check with warning message
- 4 mm hose connection

Scope of delivery:
- 5-litre storage tank
- Funnel tube
- Filling level monitor

Advantages:
- Easy tank filling
- Process safety by means of sensors
- Robust metal design
- Filling level monitor

Application:
- For cooling/lubrication system DATRON EK-D

Order specification | Article number
-------------------|-----------------|
Cooling system tank with sensor (DA), industrial design, 5 Liter | 0A01095E
Basic module
Microjet® EK-M cooling/lubrication system

Minimum volume cooling/lubrication system for DATRON CNC machines
The Microjet® cooling/lubrication system is used everywhere where lubrication is to be done with especially small volumes of liquid, directly, reproducibly and process-safely during milling and engraving.

Adjustable pressure is applied to the cooling lubricant liquid in a pressure tank, which is pressed into capillary hoses which feed into the two-component nozzles. The capillary hose here is for dosing the amount. The desired minimal liquid volume is set via the container pressure, which can be read off a manometer. The flow speed in the capillaries changes by changing the pressure. This way, the liquid volume can be controlled reliably and evenly up to nearly zero consumption.

Please note: Depending on the application, a 2-nozzle or 4-nozzle spraying unit will be required.

Properties:
- Can be switched on and off electronically via the hand-held control unit and control system
- Coolant consumption 0 - 1 l/h
- Various cooling media can be used
- The air jacket can be adjusted via a setting screw
- Automatic filling-level check with warning message

Scope of delivery:
- 5 l/9 l storage tank
- Software extension for automatic mode

Options/accessories:
- 4-nozzle spraying unit for applications with CleanCut or 11fold Tool changer, (article No. 0A01106S)
- 4-nozzle spraying unit, adjustable for HSK and direct shank spindles (article No. 0A01106U)
- 2-nozzle spraying unit, (article No. 0A01106Q)

Advantages:
- Various cooling media can be used
- Finely dispensable spray volume
- Filling level monitor

Application:
- Workplace cooling
- Tool cooling
- Lubricating the cutting edge

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<tr>
<th>Order specification</th>
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<td>Microjet cooling lubricant system without spraying unit,</td>
<td>0A01106G</td>
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<td>5 l tank with level switch</td>
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<td>Microjet cooling lubricant system without spraying unit,</td>
<td>0A01106F</td>
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<td>9 l tank with level switch</td>
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Circular spray head 4-nozzle microjet® EK-VM-R

The spray system consists of a spray head with four nozzles. Their setting angles are designed such that the milling cutter is optimally sprayed. The round spray head is only used with HSK-E 25 spindles and is used in connection with CleanCut, the rotary-swivel table and machines of type M7 or M10 with an 11-fold tool changer.

Application:
- Used with CleanCut, rotary-swivel table and M7 or M10 with 11-fold tool changer

Sprayhead 4-nozzle microjet® EK-VM-4

The spray system consists of four adjustable nozzles with a bundled jet which are arranged 90° apart around the milling cutter. The spray head can be mounted instead of the EK-VM-2 standard head. With this, the coolant/lubricant is optimally distributed. The coolant always gets to the tool cutting edge, independent of the milling direction. The tool changer must be equipped with long tool-changing stations (required: 70 mm), (article No. 0690234).

Application:
- Used on all spindles with direct shank clamping and DATRON HSK high-frequency spindles

Scope of delivery:
- 4-nozzle spraying unit

Sprayhead 2-nozzle microjet® EK-VM-2

In the case of the 2-nozzle spraying unit, the cooling jet can be optimally adjusted to the machining task with the flexible jointed hoses. This spraying unit is designed for all spindles with direct shank clamping and with HSK collet chucks.

Application:
- Used for all DATRON HF spindles with direct shank clamping and HSK collet chucks

Scope of delivery:
- 2-nozzle spraying unit

Properties, EK-VM-2 and EK-VM-4:
- Can be electronically switched on/off via the hand-held control unit
- Coolant consumption 0 - 1 l/h
- Various cooling media can be used

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<tr>
<td>CleanCut spraying unit, nozzles not adjustable, HSK E 25</td>
<td>0A0106S</td>
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<tr>
<td>4-nozzle spraying unit, nozzles adjustable, HSK E 25, M7, M8, ML</td>
<td>0A0106U</td>
</tr>
<tr>
<td>2-nozzle spraying unit, microjet®, standard</td>
<td>0A0106Q</td>
</tr>
</tbody>
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Advantages:
- Finely dispensable spray volume
- Better distribution of the coolant/lubricant
- No obstruction of the cooling jet by workpiece edges

Application:
- Workpiece cooling
- Tool cooling
- Lubricating on the tool blade