

Extraction system

For extracting oil and emulsion mist

Single-Spindle Machines

Control INDEX C200-sl

Note on applicability

Illustrations in this publication may deviate from the product supplied. Errors and omissions due to technical progress expected.

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General

The system is used for extracting the oil or emulsion mist generated during the machining process in the working area of the machine.

To avoid influences on the thermal behavior of the machine and an increased loss of cooling lubricant, the volume flow of the extraction system should not be significantly higher than necessary to avoid escaping oil or emulsion mist.

We recommend a system with adjustable extraction capacity¹⁾.



For more information, refer to the manufacturer's operating instructions of the respective extraction system.

Switching the extraction system on/off

The system is switched on as standard after the hydraulic system has been switched on and the working area door has been locked.

Switching off – after an adjustable afterrun time has elapsed – takes place after the working area door has been unlocked or after the hydraulic system has been switched off.



The functions and screens discussed in the following are based on the maximum equipment level of the extraction system and also depend on the type of system used.

Possible equipment options of the extraction system

To activate options retrospectively, contact INDEX Service or your country's representative.

Control with M commands

These functions can be activated in the "Machine Parameters" area.

The system is only switched on, if

- hydraulic system is switched on
- working area door is locked
- M command "M5=80 Extraction ON" is programmed.

Switch off using the M command "M6=80 Extraction OFF".

1) This applies in particular to central extraction systems as well as in case the customer provides the system..

Switch on only while the program is running

- The system is only switched on when the program is running.
- Switching off takes place after the set afterrun time has elapsed if the program is interrupted or the workspace door is opened.

Monitoring: "Ready"

- The "ready" signal is expected 8 seconds after switching on the system.
- Otherwise, error 700291 "EXTRACTION General trouble" is displayed.
- The error response can be set in the "Machine parameter" section. The default setting is "**Stop M30**".

Filter monitoring

- The extraction system is equipped with a contamination monitor for the air filter
- If the filter is contaminated, error 700292 "EXTRACTION Filter contaminated" is displayed.
- The error response can be set in the "Machine parameter" section. The default setting is "**Stop M30**".

Air flow monitoring by means of vacuum switch

- This function is used to monitor an external extraction system.
- The air flow is monitored by means of a vacuum switch. This detects whether the extraction system is working correctly.
- With the hydraulics switched on and the work area door locked, an air flow is expected. Otherwise, error 700292 "EXTRACTION no air current existing" is displayed.
- The error response can be set in the "Machine parameter" section. The default setting is "**Stop relief cutting**".

Flush function

- Used to clean the filter unit.
- For this purpose, a cooling lubricant valve is actuated at adjustable intervals while the extraction system is running.