



OBLF

ASM 1800

Automatic Sample Grinding Machine



OBLF's ASM 1800 automatic grinding machine was specially developed for customers whose line of business demands automatic preparation of recurring sample types for spectrometer analysis. The fact that this sample-preparation machine was developed in-house by the same company that produces the spectrometer itself gives customers the certainty that the machine satisfies all requirements for spectrometer-compliant sample preparation despite its extremely favourable price-performance ratio.

The automatic ASM 1800 grinding machine consists of a high-performance belt grinder with an integrated sample-handling system that also ensures correct positioning and removal

of the sample again. The grinding bed is manufactured using a special method that makes it extremely abrasion-proof and non-wearing. The machine is fitted with a spark extinguisher and a dust remover with coarse and fine particle filters for the metal particles produced during grinding.

Three different grinding programs for differing sample materials or grinding depths can be defined and stored. These programs can be selected using a switch, after which the automatic grinding process begins.

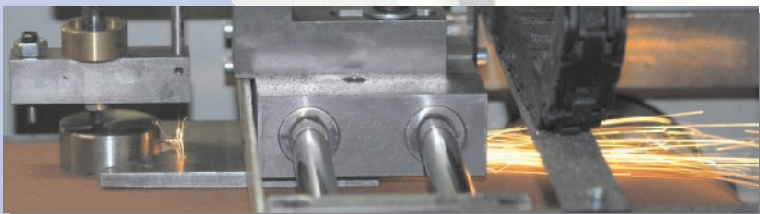
Apart from this automated operating mode, the ASM 1800 can also be used for manual grinding jobs, which can be very helpful when working with spectrometer samples of

differing geometries.

To facilitate integration into a fully automated analysis line, the ASM 1800 is coupled with the analysis process computer via an interface. Any number of grinding programs can be defined and used with this configuration.

Specifications

- ☞ Control via SIMATIC S7-200
- ☞ Specification and storage of grinding programs
- ☞ Grinding time dependent on the measured grinding depth
- ☞ Grinding pressure can be optimised to suit the sample material in question
- ☞ Variable grinding speed
- ☞ Suitable for coarse and fine grinding jobs
- ☞ Wear-monitoring of the grinding belt



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