

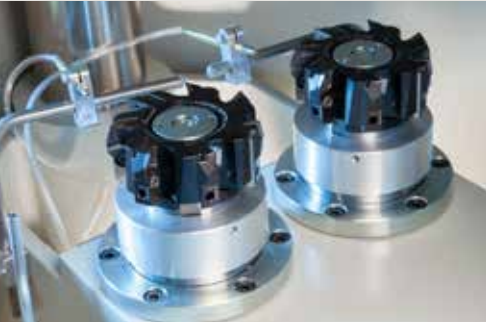
HN-FF/HN-SF

Automatic Milling Machine
for Non-Ferrous Metals

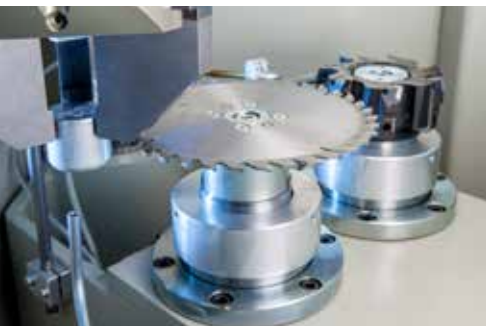


HERZOG

Tailor-made sample preparation for the OES and XRF analysis



Model HN-FF with two milling heads



Model HN-SF with cutting blade and milling head



Operating panel with display for parameter preselection and program selection

Automatic sample preparation for more precise analysis

Automatic sample preparation for the optical emission- and x-ray fluorescence analysis with all its advantages is achieved with HERZOG milling machines in modular design. The automatic working process with the program controlled milling performance leads to a drastic improvement in reproducibility of the sample preparation and hence to best possible analysis results.

With HERZOG milling machines in modular design combinations according to customer requirements are available. The fully automatic operation saves time and cost. All HERZOG milling machines are entirely enclosed, noise insulated and equipped with all safety features for the protection of the operating personnel.

Program control prevents operating errors

All parameters important for the milling process like milling head advance, milling depth and spindle speed are adjustable.

They are directly, reliably and continuously program controlled. Errors caused by incorrect handling or adjustment are ruled out. Access to the program parameter is only possible using a password.

Tailor-made systems due to modular design

Herzog milling machines are especially designed for sample preparation for the optical emission- and x-ray fluorescence analysis. With their high technical quality standard and the small overall size they meet all the requirements for the use in laboratories. The biggest advantage, however, is the modular design of the Herzog products. This machine provides a simple way for fully automatic sample preparation with its advantages of extremely high precision and reproducibility.



Easily extendable according to customers' needs

Automation in modular design meets the wide range of customer requirements

Most individual requirements can be met simply and easy with these custom-built systems. The modular design allows various combinations and step-by-step retrofitting of system components.

The following modules can be combined with the milling machines:

In- and output sample magazines

- Turntable for 10 samples
- Chain magazine for 20 samples
- Spiral magazine for 100 samples

Sample transport systems

- Pneumatic tube systems
- Transport belts
- Pneumatic linear transport systems
- Servo driven linear transport systems
- Robots

Sample handling systems to serve the analysing equipment

- Robots
- Manipulators
- Sample changer



HN-FF with input belt



Spiral magazine



Turntable magazine

Technical data HN-FF/HN-SF

| | |
|---|---|
| Colour | Blue/white, RAL 5009/9018 |
| Labelling | English |
| Operating manuals | one copy, English |
| Dimensions L x W x H | |
| Machine | 800 x 1,030 x 1,500 mm |
| Weight Machine | 750 kg |
| Power supply and power consumption | |
| Voltage | 400 V, 50 Hz, 3-phases |
| Neutral conductor | Not required |
| Power consumption | 6.0 kVA |
| Compressed air supply and consumption | |
| Pressure | Min. 5 bar, max. 10 bar |
| Consumption | Approx. 300 Ndm ³ per sample |
| Discharge connections | |
| Position of gas extraction stud | On the top of the machine |
| Inner diameter of gas extraction stud | 120 mm |
| Gas extraction capacity | 8 m ³ /min |
| Electrical control cabinet (integrated) | |
| PLC control | SIMATIC S 7-300 |
| Control voltage | 24 V DC |
| Protection | IP 44 |
| Insulation class | B |
| Processing parameter | |
| Processing time | Approx. 34 s, depending on processing program |
| Number of processing programs | 16 |
| Processable samples | |
| Material | Non-ferrous metals |
| Sample dimensions | Depending on sample shape |
| Options | |
| <ul style="list-style-type: none">- Turntable magazine with 10 positions- Chain magazine with 20 positions- External spiral magazine for approx. 100 samples- Continuously adjustable milling spindle speed- Sample transport systems to external equipment | |



The machine is designed according to the current safety regulations and mechanical and electrical standards. We reserve the right to make technical changes.

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