

SPECTRAL MM 102

PRODUCT SELLING GUIDE

Product Description

SPECTRAL MM 102 is designed for automatic sample preparation of OES and XRF analysis. It is fast and efficient in providing high quality specimen surface thus saving time. SPECTRAL MM 102 has advanced techniques and software with programmable HMI touch screen controls increasing the productivity, sample consistency and operator comfort. With the ability to store and recall preparation programs on the LCD screen, same consistent results are obtained. SPECTRAL MM 102 is a perfect choice for milling of all non-ferrous materials. It can also be used for milling steels up to 50 HRC.

Area of Application

Use

Milling of nonferrous and limited ferrous samples for OES, XRF and other analytical procedures

Material

Nonferrous samples, ferrous metals up to 50 HRC and diameter up to 60 mm

Features & Benefits

Small Footprint, Large Capacity

- It can be used both as bench-top and with floor cabinet.
- Powerful 3 kW motor with advanced software that can overcome the hardest and largest samples.
- Small enough for laboratory, large enough to clamp and cut big samples. Most of the big samples can be positioned on the table.
- Perfect for plants needing a "second-op" machine, or an additional sample milling machine where space is limited.
- Extraordinary access for easy handling with sliding door and side openings.

Maximum Operator Safety

- Highest level of safety standards. Several safety circuits guarantee optimum protection for the operator.
- Equipped with numerous safety features to provide maximum operator and machine safety.

Fully Automatic Operation

- 7" coloured HMI touch screen and user-friendly software allows easy view and control of all steps. Up to 99 different cutting program can saved.
- Controlled Material Removal allows you to preset the amount of material to be removed very accurately.
- Multi-pass milling: It is possible to set the number of passes and the milling depth of each pass.
- Program control prevents operating errors. Access to the program parameter is only possible using a password.
- The feed rate is automatically adjusted, if needed reduced, resulting in perfect surfaces and eliminating sample and machine damage.
- Wide range variable milling head speed.

Reliability

- All components are ready for the heavy-duty applications with the robust construction.
- Siemens PLC control unit and highest quality standard electrical components allows reliable operation.



Frequently Asked Questions (FAQ) Competitor Comparison

What is new on the SPECTRAL MM 102?

- Larger operation chamber.
- New reliable Y-axis and Z-axis driving system.
- New axis motors provide faster and precise positioning.
- Sliding door for operator comfort.
- New pneumatic clamping device with optional jaws to hold variety of sample shapes.

What is the use of Height Measurement System?

With the sample height measurement system and the software, the working process becomes automatic. So no need to position the milling head according to the sample height. The system will measure the sample height and the milling head will automatically take position according to the sample height. Also as a result the system prevents operator faults.

Key Markets

- Non-ferrous metals industry.
- Steel and cast iron foundries.
- Customer who is looking a small footprint machine with that can work as bench-top.
- R&D, process control and quality control labs

Selling Features to Remember

- Most versatile machine in its class.
- Small compact footprint, that is loaded with full-size features.
- Modern design.
- Variable milling head speed is standard feature.
- New reliable mechanic and electronic system.
- Easy serviceable
- Operator comfort.
- Advanced features.
- Best price/performance ratio in its class.

Products	Comparison
Herzog HN FF	<ul style="list-style-type: none">• Not available as table top equipment.• Less motor power (2,2 kW), whereas SPECTRAL MM 102 has 3 kW motor power.• Control panel is attached with a swing arm system which needs more space.• Extremely high price by considering its features. (50.000 EU)
Herzog HAF2	<ul style="list-style-type: none">• Not an equivalent and should not be compared because of its features and design.• Outdated design.• Less motor power, whereas SPECTRAL MM 102 has 3 kW motor power.• Fixed milling head speed as 2755/3330/4785 rpm whereas Spectral MM 102 has variable milling speed 500 – 4000 rpm• No touch screen LCD screen, not possible to programme and save the parameters.• Extremely high price by considering its features. (18.000€)• SPECTRAL MM 102 offers way more better features with the same price range.
Breitlander HK80F	<ul style="list-style-type: none">• Not an equivalent and should not be compared because of its features and design.• Outdated design and very small. Not possible to process bigger samples efficiently.• Single phase equipment with less motor power, <u>only 0,75 kW</u> whereas SPECTRAL MM 102 has 3 kW motor power.• Milling head speed is up to 3600 rpm whereas Spectral MM 102 has variable milling speed 500 – 4000 rpm• Only manual operation, not possible to process automatically.• No touch screen LCD screen, not possible to programme and save the parameters.• Motor id not completely enclosed. It exceeds the milling chamber.• Extremely high price by considering its features. (around 16.000 – 18.000€)• SPECTRAL MM 102 offers way more better features with the same price range.

