

SAMPLI CMPA

COMPACT AUTOMATED SLAG PREPARATION FOR REPRESENTATIVE ANALYTICAL RESULTS

SAMPLI CMPA consists of following preparation functions:



Crushing by Jaw Crusher BB-NGR1-R

Powerful automated forced-feed crusher. The feed material passes through the no-rebound hopper and enters the crushing chamber. Size reduction takes place in the wedgeshaped area between the fixed crushing arm and one moved by an eccentric drive shaft. The continuous gap width setting with scale ensures optimum size reduction in accordance with the set gap width. BB-NGR1-R is suitable for many typical crushing tasks. It accepts feed sizes up to 30mm.



Grinding by SAMPLI CupMill100-R

Following the pulverization process, the grinding vessel is automatically emptied, making the ground material accessible at the discharge point. Automatic cleaning features facilitate effective material removal. Employing these cleaning functions minimizes cross-contamination to a low parts per million (ppm) level. Additionally, the option for spoon sampling during material input enables precontamination of the grinding process with the subsequent sample.

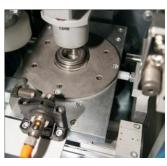


Pressing by SAMPLI PelletPress40-R

It ensures the desired uniformity and density of each individual pressed pellet, offering maximum reproducibility. SAMPLI PelletPress40-R allows for precise control of the pelletizing process through program-controlled settings. Parameters such as total pressing force, incremental increase and decrease of pressing force, and pressure holding time can be preset. In its standard configuration, the press incorporates a counter-pressure plate cleaned with a brush rotating in alternate directions. It can be customized with magazines for sample cups, steel rings, and pressed pellets.





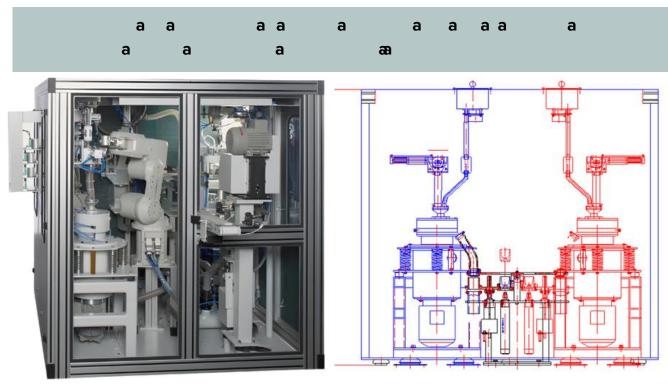




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OPTIMIZED PROCESSING FOR RELIABLE PREPARATION AND HIGH THROUGHPUT

- 1. Retrieval of samples from the input magazine and transferring them to the crusher.
- 2. Crushing the samples and separating magnetic particles.
- 3. Determining the minimum quantity of crushed sample.
- 4. Grinding the first sample part to prevent contamination.
- 5. Cleaning the grinding vessel with air.
- 6. Transferring the second sample part into the vessel.
- 7. Adding grinding additives and fine grinding the sample.
- 8.Cleaning the grinding vessel with air.
- 9. Transferring the sample to the press for dosing.
- 10.Dosing the appropriate quantity for the press while separating magnetic particles.
- 11. Discharging the dosed sample into the press tool.
- 12. Pelletizing the sample using a hydraulically powered press.
- 13. Removing the sample tablet from the press tool.
- 14. Cleaning the pressed sample tablet on both sides.
- 15. Placing the sample onto the transport belt for X-ray analysis.
- 16. Transporting the sample to the X-ray machine for analysis
- 17. Cleaning the steel ring after analysis and storing it in the magazine.



SAMPLI CMPA Inside View

Optional Integration of 2nd Swinging Disc MIll





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PROCESSING OF SLAG SAMPLES AT SHORTEST TIME AND SHORTEST POSSIBLE WAY

- Highly accurate and reproducible results
- ØEnsures reliable turnaround times due to 24/7 robot monitoring and control, minimizing operator intervention
- Ensures that the sample material can be further processed in the fastest possible way and significantly minimizes the loss of material carryover
- Optional integration of 2 automatic mills, so that higher throughput is possible
- Robust construction of the entire machine ensures long service life of the production facility
- Reduce operating costs

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