Atox mill easy to fit into a constricted space.

Segmentation of wear parts means low risk of cracking, therefore extremely wear resistant wear parts for both roller and table can be used. Further, the segmented wear parts are suitable for hardfacing.

Roller segments can be reversed enabling high material utilization to be achieved also in case of uneven wear.

The ATOX mill has rollers with larger diameter compared to the diameter of the table than most other vertical roller mills. Larger roller diameter permits operation with a proportionally thicker grinding bed being less critical as regards uneven wear and foreign bodies in the mill feed.

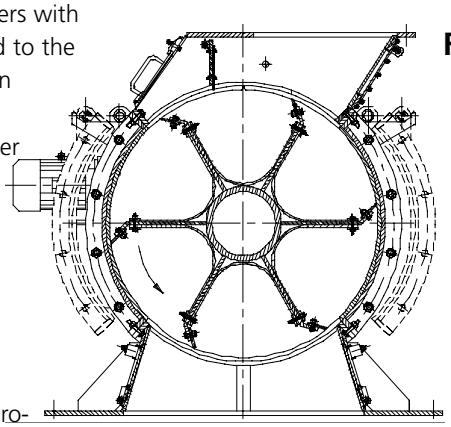
The rollers of large diameter further allow a proportionally coarser mill feed, which reduces the requirements on pre-crushing.

The rollers of the ATOX mill are lifted hydraulically before start, so no auxiliary mill drive is required. Requirement to the mill motor as regards starting torque is modest since it starts unloaded.

The roller suspension system of the ATOX mill permits the hot gas inlet section to be designed virtually without restrictions to the airflow below the grinding table and, further, to be fitted with an oversize nozzle ring. In consequence the standard ATOX mill can operate with the extra amount of gas required by specially wet or easy to grind materials. It is not necessary to involve a larger mill size just to accommodate the airflow – only the nozzle ring and the separator must be adapted to the higher airflow.

The ATOX raw mill is of a very compact design involving a space-saving arrangement of inlet ducts and, further, crane access for service is required in only one position. The ATOX mill is thus easy to fit into a constricted space.

The very compact and efficient design of the ATOX mill offers a correspondingly low cost of foundation and mill building in case of clients demand for the latter.



Rotary sluice with removable walls for ease of maintenance.

Features and Components

Feed sluice

Compared to other types of sluices the simple rotary sluice effectively keeps the ingress of false air to a minimum and furthermore provides a virtually constant material flow to the mill. To prevent build up of sticky material the sluice can be supplied in a design having the option of heating of the rotor by hot gas passing horizontally through the sluice hub. The sluice is provided with a circular outlet flange, so it can always be aligned with an incoming belt conveyor. Further, the sluice is provided with removable side-walls for ease of maintenance.