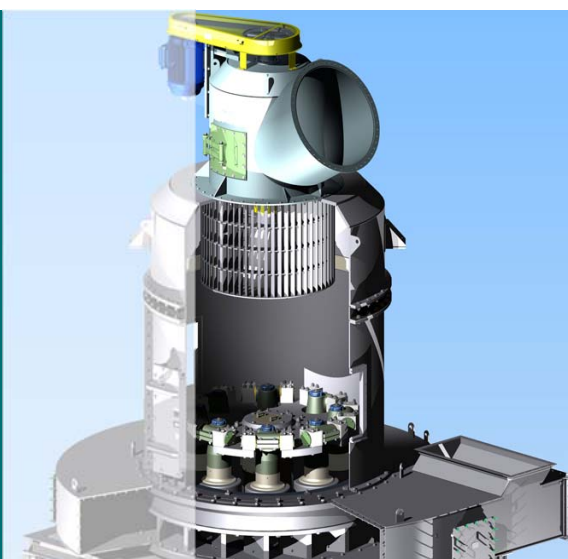


Raymond® 120" Roller Mill

For greater mill capacity

- **Efficient control of product size with minimal power resulting in cost effective production**
- **Maximum flexibility and control over mill variables, delivering controlled product quality at minimum operating costs**



The Raymond® 120" Roller Mill system was developed to address the growing demand for limestone sorbent and solid fuel alternatives to coal requiring greater capacity mills. Pendulum style roller mills have a proven performance record for sorbent preparation for PC's and CFB's, as well as petroleum coke grinding.

System overview

The Raymond® Roller Mill is an airswept vertical ring-roll mill with an integral classification system. The vertical shaft rotates a "spider" assembly from which are suspended free-swinging journal assemblies with rolls attached. As the unit turns, centrifugal force drives the rolls against the inner surface of the grinding ring. Plows, rotating with the assembly, lift feed material from the mill bottom and direct it between the ring and rolls. The system airflow carries ground material upward through the classifying section. The classifier allows the sized materials to exit the mill and returns oversized particles to the grinding chamber for further processing.

The system can be customized to pulverize, classify and deliver a variety of different materials. From a feed ranging in size from approximately 0.5-3.0in / 10-70mm the roller mill can

produce particles ranging from coarse, granular to fine powders. The mill is most effective processing materials that are 5 or less on the Mohs scale of hardness.

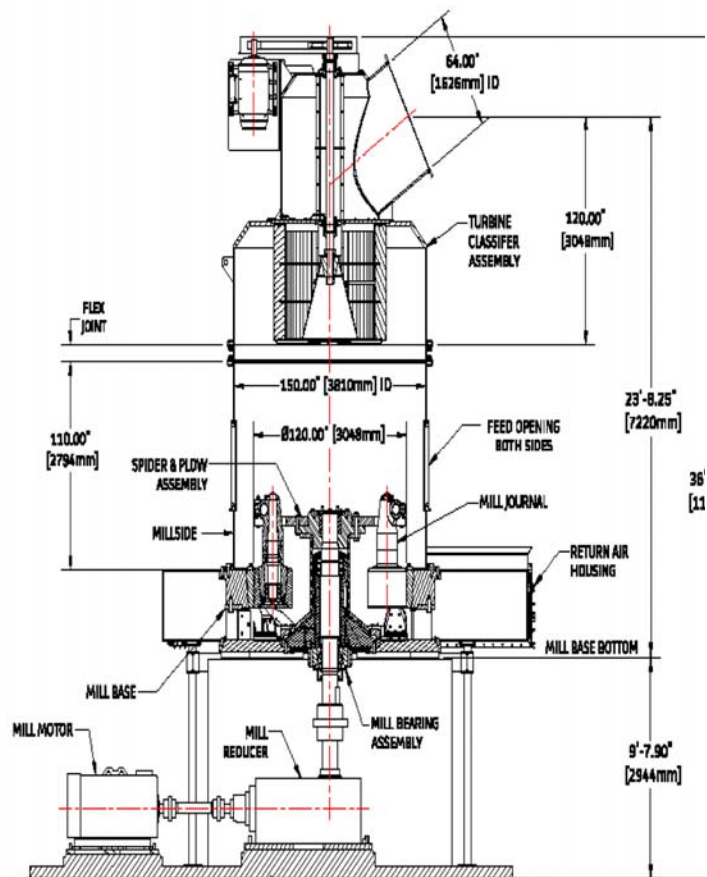
The Raymond® 120" Roller Mill continues the line with its increased capacity and new design features.

Construction features

- Journal assembly – utilizes fewer total components, improved seal design and anti-vibratory bearings.
- Trunnion bearings dual o-ring – design features better sealing and reduced trunnion shaft wear.
- Vertical shaft to hub connection – hybrid taper lock/keyless locking connection reduces disassembly difficulties associated with full taper-lock.
- Fabricated plow supports – incorporates access opening for visual inspection of the vertical shaft's upper seals and bearings.
- Turbine classifier flange bearings – allows for easier maintenance of bearings and seals.

Airflow and power requirements for Raymond® Roller Mills

Mill Size		Nominal Airflow		Mill Power – Max		Turbine Power	
30 in	760 mm	3900 ft ³ /min	6600 m ³ /hr	30 hp	22 kW	25 hp	18 kW
50 in	1270 mm	10000 ft ³ /min	16900 m ³ /hr	100 hp	75 kW	30 hp	22 kW
54 in	1370 mm	12600 ft ³ /min	21400 m ³ /hr	150 hp	110 kW	40 hp	30 kW
60 in	1520 mm	15600 ft ³ /min	26500 m ³ /hr	200 hp	160 kW	50 hp	45 kW
66 in	1670 mm	22500 ft ³ /min	38200 m ³ /hr	300 hp	225 kW	75 hp	55 kW
73 in	1850 mm	31000 ft ³ /min	52600 m ³ /hr	600 hp	500 kW	100 hp	75 kW
87 in	2180 mm	46500 ft ³ /min	79000 m ³ /hr	900 hp	700 kW	150 hp	110 kW
120 in	3050 mm	100000 ft³/min	169000 m³/hr	1500 hp	1200 kW	200 hp	150 kW



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