



Raymond®

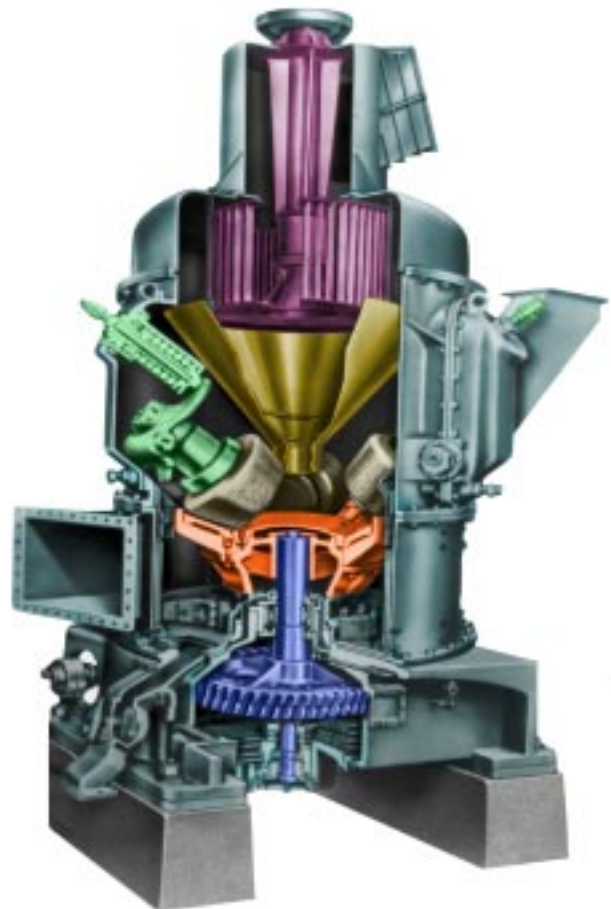
High Efficiency Turbine Classifiers for RS/RP Bowl Mills

Upgrade for Better Particle Size Control and Higher Fineness of Pulverized Coals and Coke

The Raymond® Bowl Mill is the worldwide industry standard for simultaneously pulverizing, classifying and drying coal for cement plants, lime plants, power plants, the steel industry and other industrial process applications. Fineness requirements, depending on application, range from 70% to 95%+ passing 200 mesh (74 microns).

By replacing the standard double cone classifier of the Raymond® Bowl Mill with a dynamic turbine classifier, significant advantages result which enhance the overall system performance, particularly in meeting the higher fineness specifications...85% and above passing 200 mesh (<15R 75 micron). Among these advantages:

- The Raymond turbine classifier can achieve more accurate, precise and lower top particle size control.
- The Raymond turbine classifier gives the bowl mill the ability to produce a finer, pulverized coal product, improving the minus 200 mesh (product by as much as 10%-15%).
- The Raymond turbine classifier achieves a more accurate classification, resulting in a steeper particle size distribution.
- The Raymond turbine classifier meets NFPA 85F requirements.



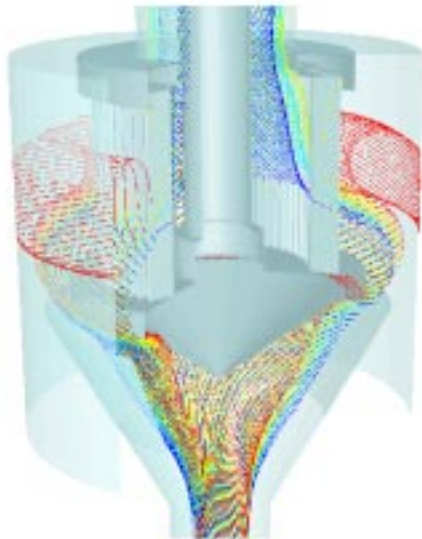
**Air Preheater Company
Raymond Operations**

Advantages in overall plant operations which can be achieved as a result include:

- Under proper operating conditions, the finer pulverized coal burns with a shorter, more intense flame. Better flame control is therefore possible and the resulting improvement in combustion enhances overall process control and plant efficiency.

- The steeper particle size distribution of the pulverized coal has a direct, positive impact on combustion efficiency which gives the ability to meet increasingly stringent environmental regulations.

RS/RP Mill Model	Table Diameter	Nominal Airflow	Classifier Power
RS/RP 563	56 in.	12000 ACFM	10 HP
	1425 mm	20000 m ³ h	7.5 kW
RS/RP 623	62 in.	17000 ACFM	15 HP
	1575 mm	29000 m ³ h	11 kW
RS/RP 663	66 in.	20000 ACFM	15 HP
	1675 mm	34000 m ³ h	11 kW
RS/RP 703	70 in.	23000 ACFM	25 HP
	1775 mm	39000 m ³ h	20 kW
RS/RP 743	74 in.	27000 ACFM	25 HP
	1875 mm	46000 m ³ h	20 kW
RS/RP 803	80 in.	35000 ACFM	30 HP
	2030 mm	60000 m ³ h	25 kW
RS/RP 863	86 in.	42000 ACFM	40 HP
	2185 mm	71000 m ³ h	30 kW



The turbine rotating components have been designed using the best available mechanical technology, the goal being years of trouble free operations in the difficult environment in which the bowl mill and turbine classifier will be required to operate.

Your existing Raymond® Bowl Mills of either RB (deep bowl) or RS/RP (shallow bowl) designs can be retrofitted with turbine classifiers, while adhering strictly to NFPA 85F requirements.

