

Raymond Roller Mill

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The First Generation Of Raymond Roller Mill

In 1906, C. V. Grueber founded the Curt Von Grueber Machinery Factory in the southern suburbs of Berlin. During this period, he manufactured the first MAXECON mill by using the patent he obtained in the United States. This mill was successfully applied as a coal mill in the MOABIT power station in Berlin, with grinding capacity up to 5 tons per hour. After that, E.C. Loesche became a shareholder and headed the Curt Von Grueber Machinery Factory. He purchased the Raymond Centrifugal Ring-roller Mill patent from the United States to produce the first generation Raymond mill system.

However, due to the limitation of roll diameter and rotation speed, Raymond mill was only suitable for soft, low ash and good grindability materials, while Germany's coal was hard, high ash and required higher grinding force, so Raymond mill was not popularized in Germany at that time, but widely promoted and applied in the United States.

The Second Generation Of Raymond Roller Mill

In 1925, after E. C. Loesche summarized the characteristics and structural disadvantages of the first generation Raymond roller mill, he developed a grinding mill with the opposite grinding principle of the first generation. We called it the modified Raymond roller mill. The ventilation of this type Raymond mill system has two ways: positive pressure blowing and negative pressure blowing. While, although its roll diameter increases slightly, the grinding force does not increase much.

The Third Generation Of Raymond Roller Mill

After the second generation, the Raymond branch of the United States developed a new generation of Raymond mill on this basis. We called it VR Raymond roller mill. This type of grinding mill uses a cylindrical roller and a grinding disc with an angle of 15 degree. During the inspection and maintenance of the grinding roller, the automatic rolling out device and protection device are provided to prevent the metal contact between the grinding roller and the grinding disc. Besides, the grinding roller can be lifted in advance before the mill starts running to reduce the starting torque of the motor.

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