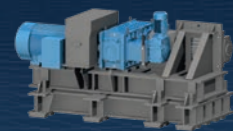


The Strongest Solutions at the heart of **Cement** Manufacturing

Milling and Grinding

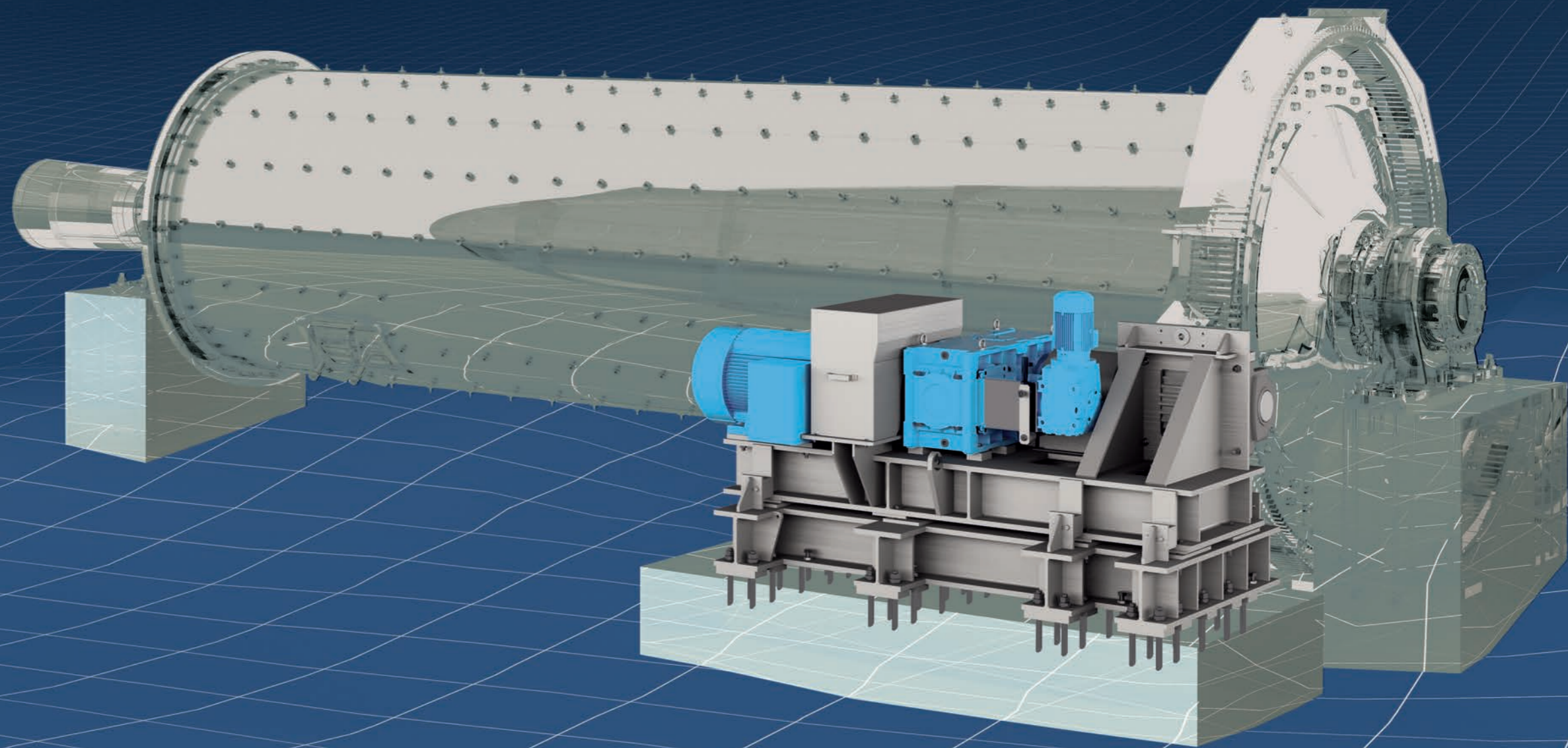
Once the nodular clinker issues from the sintering furnace, it needs to be ground down into a fine powdery substance. This can be done using different milling or grinding equipment: horizontal mills, hydraulic roller presses or vertical roller mills. Horizontal mills, which are essentially large cylinders rotating horizontally or at a slight angle, mostly contain steel balls, although some mills use ceramic or rubber balls, which reduce

the clinker to powder through impact and attrition. Hydraulic roller presses use two rollers, one of which is fixed, the other is adjusted using hydraulic pressure. Material is crushed as it passes between the rollers to the desired particle size. Vertical roller mills reduce material using the principle of mill stones, whereby vertical pressure exerted by the rollers, as they rotate in a circle, grind the clinker by crushing it onto the horizontal disc beneath.



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