

Cement grinding

Around 4-5% gypsum is added to clinker to control the setting time of the final cement. The cooled clinker and gypsum mixture is ground into a grey powder called Ordinary Portland Cement (OPC) or can be ground with other mineral components to produce, for example, Portland Composite Cements (PCC). Traditionally, ball mills have been used for grinding, although more efficient technologies like roller presses and vertical mills or combinations thereof are used in many modern plants today.

Blending: Cement may also be mixed with other finely ground mineral components, such as considerable amounts of slag, fly ash, limestone or other materials to replace part of the clinker, thereby often achieving a significant reduction of the CO₂ emissions.

Storing in cement silos: The final product is homogenised and stored in cement silos and then dispatched to either a packing station (for bagged cement) or to a silo for transport by water, road or rail.