

Keeping kilns turning

Drive technology for the cement industry

The raw mix is heated up to sintering temperature of up to 1,450 °C in the rotary kiln. Then cement clinkers can be formed. The precious centrepiece of the clinker manufacturing runs non-stop throughout the year.

Only for maintenance the kiln stops. Since an abrupt standstill would cause permanent deformation and damage due to the high temperature, the kiln needs to turn continuously at an appropriate lower temperature. In general, the auxiliary drive takes over the “cooling down procedure”.

For all these performance requirements, Siemens provides a full range of solutions.

Perfect drive trains

Depending on the size, individual or twin drive systems with load-equalizing regulation are used. Siemens offers

reliable low- and high-voltage asynchronous motors, converters of the SINAMICS and ROBICON Perfect Harmony series, as well as gear units and planetary gear units including auxiliary drives. A drive portfolio optimized by durable gear couplings perfectly suited for rough operating environment.

Prepared for all eventualities

In order to avoid deformation following an abrupt standstill, the drive system is often equipped with an emergency device in the event of a power failure, which can be provided by Siemens. The required emergency properties along with high startup torques, large speed ranges and extreme ambient temperatures place great demands on the drive technology. Accordingly, we produce powerful and robust devices for every type of kiln.