

Nord Drive's Contribution in Holcim

Holcim, one of the largest producers of construction material worldwide, relies on drive technology from Nord Drivesystems. In its cement plants and concrete factories in Croatia, geared motors of different performance classes are used. Heavy duty is no problem for the Nord products - they are ready for any challenge. That is why both companies have now completed a three-year-contract for the exchange of older drives. Nenad Mackic, facility manager in the Sumber quarry, is completely satisfied: We value the drive technology from NORD due to its high reliability and efficiency. Service and delivery availability are also the best. For good reason, we have been operating NORD products in our quarries for more than 10 years without experiencing problems. Holcim for a good ten years, the corporation has been represented in Croatia with six concrete factories, a cement plant and three quarry systems. From the beginning, Holcim Croatia has mostly used drive solutions from Nord Drivesystems for the belt conveyor systems used in these facilities.

Drive spectrum for heavy-weight conveyor applications NORD drive systems are ideal for all types of conveyors and suitable for almost all grades, lengths and speeds. Variable speed geared motors with frequency inverters are used for small bucket elevators, whilst unregulated single speed geared motors provide the higher performance required for larger systems. With an

efficiency of about 95 percent, the gear units are available in a shaft, foot or flange mounted versions to suit the application. The maximum capacity is up to 200 kW with a maximum torque of 50,000 Nm.

Drive technology in the cement plant: Ex-protection is also in demand NORD drive solutions are used for all transportation and conveyor tasks in cement production. Some of the drives are designed for operation in explosive environments according to ATEX Zone 21 or 22.

Primarily mid-size geared motors are used: Helical, parallel and bevel geared motors up to 45 kW, mostly with protection class IP55, depending on the respective task. A plus point for the difficult requirements is the UNICASE concept from NORD: All bearing seats and sealing surfaces are machined in a single stage on the latest CNC machining centres. The benefits include extremely high reliability and exceptional sealing with safe handling of even the largest torques combined with high axial and radial load bearing, quiet running, low maintenance and exceptionally long operating life.

or explosion-protected systems. The annual sales in the 2011 fiscal year amounted to about 412 million Euro. The company founded in 1965 now has over 35 subsidiaries worldwide. The closely meshed sales and service network ensures optimum availability for short delivery times and customer-oriented services. NORD produces a wide variety of drive units for torques from 10 to 200,000 Nm, electric motors with powers from 0.12 kW to 200 kW as well as the necessary power electronics in the form of frequency inverters and servo controllers. Inverter solutions are available for classical installations in the switch cabinet and for decentralised and fully integrated drive units.

Company background

NORD DRIVESYSTEMS develops, produces and sells drive technologies with around 2,800 employees, and is one of the international leaders in the industry. In addition to standard drives, NORD supplies application-specific concepts and solutions, even for special applications, for example with energy-saving drives