Mining & Mineral Processing Control Systems

A Global Leader in Automation Systems, Power Electronics and Rotating Machinery

TMEIC manufactures and sells variable frequency drives, motors, photovoltaic inverters and advanced automation systems for a range of industrial applications. Our North American headquarters in Roanoke, Virginia, designs, develops and engineers advanced automation systems, specializing in Port Cranes, Renewable Energy, Metals, Oil & Gas, Mining, Testing and other industrial markets worldwide.

TMEIC power and speed control solutions deliver significant energy and maintenance savings in the mining industry. From mine processing to conveyors, grinding mills and hoists, our solutions maximize output and encourage system efficiencies in mines around the world.



TMEIC

TMEIC Corporation, Roanoke, Virginia Headquarters and Engineering Center Over 300 employees

Mining Applications

TMEIC brings years of medium voltage experience in high torque, slow speed applications like mine hoists, conveyor systems, and grinding mills. Variable frequency drives (VFDs) are used to soft start large motors and continuously adjust speed and torque, as dictated by the process.



Hoists

Grinding Mills

Conveyors

Hoists

The hoisting system is essential for the transportation of equipment and mined ore within the mine shaft. Modern hoists are powered using electric motors, however, VFDs can also be used to power large hoists.

SAG and Ball Mills

Grinding mills are crucial to mining operations. TMEIC has served hundreds of applications in processing of ore, minerals, rocks, and coal worldwide.

Conveyors

Variable frequency drives provide controlled torque for conveyor starting and stopping. Speed is varied to meet process demand and reduce mechanical wear and maintenance.

Variable Speed Fan and Pump Control

Fans and pumps produce water and air flow, which must often be varied to match process requirements. The supervisory control system continuously monitors these process flows, then commands the speed of the variable speed AC drive to provide the required flow for optimum process efficiency and demand.



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