CASE STUDY

Coal Underground Mine Hoist Huaibei Mining Industry (China)



Applications:

Metals: Mill stands, winders, pumps, fans. Marine: Main propulsions, thrusters, pumps and compressors, dredgers.

Oil & Gas: Drillings, pumps, compressors, blowers. Water,

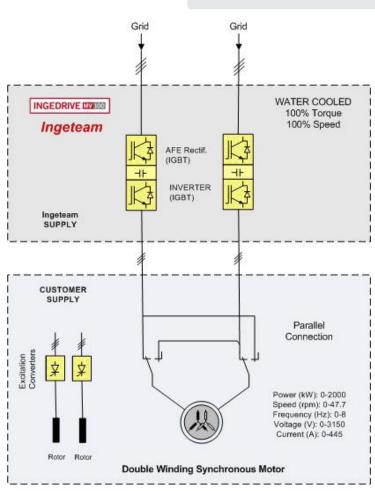
Wastewater and Power Generation: Fans and pumps.

Cement, Mining and Minerals: Mine hoists, grinding mills (SAG mills, ball mills, etc.), conveyors, crushers, fans



In April 2012, the Chinese company Shanghai Hualing awarded Ingeteam a contract for the design and supply of the main frequency converter for a mine hoist to be installed in Tongting, Anhui province, China. Shanghai Hualing is an electrical system integrator that delivers projects mainly in the mining sector.

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Ingeteam

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General Description

INGEDRIVE

Scope of Supply

Project management Basic and detailed engineering Equipment supply: Redundant Ingedrive MV100 converter Commissioning After sales services (360°CRS)

Technical Features

Ingedrive MV100

Fully-regenerative Active Front End (AFE) type, based on HV-IGBT, 3-level NPC topology Totally controlled HV-IGBT bridge, 3-level NPC topology, using PWM modulation techniques based on voltage vectors Consisting of high-capacity long-life polypropylene capacitors

Water cooled with redundant set of pumps with water heat exchanger

Converter type Rectifier Inverter

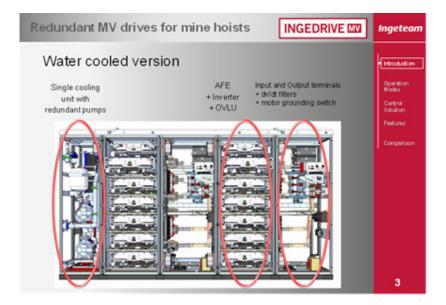
Cooling method

DC-Bus system

Type Hoist characteristics

Other Features

Multi-rope friction hoist Shaft diameter: 2800 mm Hoist distance: 586,5 m Hoist capacity: 12 tn Max. speed: 9,96 m/s



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