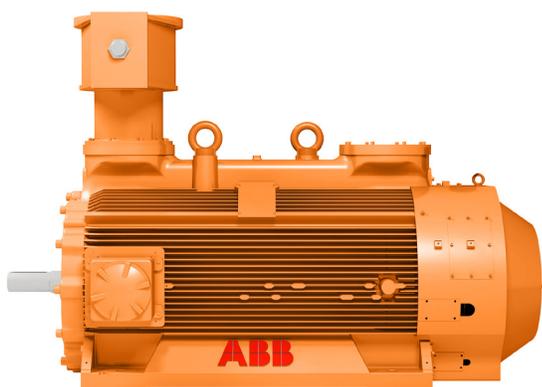

Underground mining motors from ABB

Certified solution for safe, reliable and sustainable operation



High voltage flameproof motors from ABB offer great performance, reliability and safety for applications in underground mines.

Safe choice for demanding application

Underground mining is one of the most demanding sub-segment in mining industry distinguished by remote conditions, energy intensive applications and presence of potentially explosive atmospheres.

ABB has long experience in the industry that leads to a high quality of delivery and safety for customers. Mining certified motor's design is directly derived from ABB proven experience in flameproof motors for Oil & Gas.

Customers are welcome to visit our factories and inspect every aspect of our manufacturing process. We only use high-quality materials and components, and thoroughly test every motor before it leaves the factory.

High productivity and reliability

Potentially explosive atmosphere motors made in ABB are designed to fulfill safety and technical standards. ABB's motors are designed on the basis of experience from thousands of installed units.

Versions are available for both direct-online (DOL) and variable speed drive (VSD) operation. Certified ABB motor-drive packages, with optimized thermal behavior, reliability, efficiency and power range, offer even higher productivity and energy efficiency.

We support the energy efficiency and lowering carbon intensity effort in the industry. ABB motors reduce power consumption, energy costs and emissions with highly efficient solutions.





Application focus

Our R&D and Industry team focus on optimizing the complete set performance (motor, variable speed drive and equipment) in order to meet the most stringent requirements. In fact application such as conveyor is crucial to mining customer's operation in demanding environment.

ABB is leading solution provider with a complete portfolio in mining industry with extended expertise for conveyors, pumps, fans and many other applications.

Your reliable partner

With ABB you always have a partner to discuss different motor solutions to optimize your process. Our services do not stop at sales. We make it easy for you to reach us at every stage of your motor's life cycle.

ABB's extensive global network ensures local service delivery whenever and wherever you need it. The worldwide network includes over 60 service centers and more than 150 authorized service providers.

We offer predefined maintenance programs for all lifetime phases of all ABB motors, and preventive diagnosis and updates can help to further boost your competitiveness when needed.

Main specifications

Rib cooled motors, type AMDR

Output power	100 to 1,600 kW
Frame size	355 to 500
Number of poles	2 to 18
Voltage	Up to 11 kV
Frequency	50/60 Hz, VSD
Cooling	IC411, IC416
Ambient temperature	-20° to 40°C (as option up to 60°C)
Protection	IP55 (as option up to IP66)
Enclosure material	Cast iron
Bearings	Antifriction
Mounting	Horizontal or vertical
Ex protection types	Ex db I Mb
Equipment group	I
Standards	IEC and EN

IECEX Certificate

AMDR355	IECEX LCI 08.0001X
AMDR400	IECEX LCI 07.0008X
AMDR450-500	IECEX TPS 17.0005X