

Contacts in Germany



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BARTEC

In 1975, Reinhold Barlian established the company BARTEC under the name of Barlian Technik. Since day one and to this date, the company has been committed to ensuring the safety of personnel and the environment and guaranteeing reliable operation of machinery and equipment.

In recent years the company has expanded into other sectors of manufacturing and has also launched new lines of business and set up new production sites. One of them is BARTEC Sicherheits-Schaltanlagen GmbH, a plant in the town of Menden, Germany.

This production site draws on many years of experience in the following areas:

- Compact stations for power distribution, real-time monitoring and control of industrial machinery in coal mines and underground ore mines; frequency converter, automation systems, meters and controllers, energy conservation equipment
- Explosion-proof electric motors
- Intrinsically safe microprocessor control systems for the mining industry

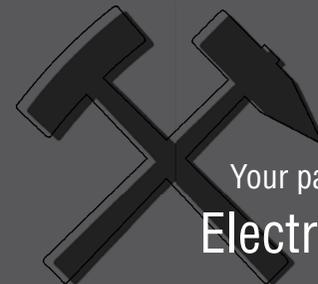


Your partner will help you find solutions
Sicherheits-Schaltanlagen BARTEC, Menden

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Your partner for extra solutions
Electrical equipment



Electrical equipment for the mining industry

Frequency converters

Output power: up to 630 kW
 Voltage: up to 1140 V

VSD

With an intermediate voltage circuit
 Two-quadrant operation mode

DYNAVERT

With an intermediate current circuit
 Four-quadrant operation mode
 Recuperation

Compact high and low voltage stations (equipped per client specs)

Electric motors

Low and high voltage; Air/water cooled
 Output power: up to 2000 kW
 Voltage: up to 10 kV

Means of automation

Explosion-proof industrial computers
 Video cameras; Power supply units
 Input and output modules; Control panels
 Network components (PROFIBUS, CANopen)

Modular transformer substations

Input voltage: up to 10 kV
 Output voltage: 660 V; 1140 V; 3300 V

PDC transformer substations



Electric parameters

Rated voltage at input side:	6000 V
Rated voltage at output side:	3300 V; 1140 V; 600 V
Output:	1000 kW; 1250 kW; 1500 kW; 1800 kW; 2000 kW

More than 200 testimonials on BARTEC explosion-proof frequency converters are available:
 Germany - Poland - Ukraine - Belarus - Russia - China

Frequency converters

Designed for powering multi-motor drives with torque balancing for belt and scraper conveyors

VSD

Rated shaft power:
 Type: VSD for 2Q mode: 90 kW 315 kW 630 kW
 Cooling medium: water
 Type: VSD with a fixed water-to-water heat exchanger

Features

- Optimized startup (stable and high torque from startup)
- Lower dynamic loads
- Controllable torque and speeds of conveyor belts for improved operational safety
- Low startup current and low voltage drop
- Reliable startup even in unreliable power grids
- Energy conservation through conveyor speed coordination with the amount of load
- Low load on the grid during motor startup
- Load balancing in multi-motor drives

DYNAVERT

Rated shaft power:
 Type: BbD for 4Q mode: 250 kW 315 kW 500 kW
 Cooling medium: water
 Type: BbD, heat exchanger with water cooling or water-to-air heat exchanger

Features

- Less wear of belt conveyor rollers and drums (Extended belt service life)
- Lower peak loads - thinner belt
- Less wear of the chain and reduction gear of scrape conveyors
- Different process speeds
- Possibility to increase productivity of the conveyor, by increasing the speed of the belt to max. 20 % of the nominal speed
- Utilization of the accumulating function of the conveyor
- Controllable braking for a sorting conveyor with electricity recovery back into the grid
- Reliability and high safety of the system