



Roxtec on site

Seals for entire mining systems



Protecting more than E-houses

The mining system of the Kostolac open pit mine in Drmno, Serbia, is equipped with reliable protection against water, dust and rodents. Design and engineering firms ThyssenKrupp and Sandvik specified Roxtec transits for everything from machines and buildings to control cabinets.

The engineers at the mine did not want to use foam or cable glands in vain anymore in the struggle against moisture, dust and pest issues. They had seen the superior protection provided by Roxtec seals in previous projects and were happy to use them as standard for the entire ECS (excavator-conveyor-stacker) system.

With Roxtec seals, they got a water and rodent barrier – and better protection for the cable

insulation. They even ensured bonding, grounding and electromagnetic shielding wherever needed.

Recommends Roxtec

“Roxtec solutions are fully in line with the requirements in mining with surface exploitation,” says Zoran Miladinovic, head engineer for maintenance, Termoelektrane i kopovi Kostolac. “There is an obvious improvement in the places

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Dusan Nikolic, Termoelektrane i kopovi Kostolac

where we have applied the Roxtec solution. The degree of reliability of equipment increased and so did the production availability of the plant and mining machinery. We would without doubt recommend anyone to go in the direction of Roxtec's intake application."

Simplifying revitalization

The contractors, Mikro Kontrol and Energotehnika Juzna Backa (EnT Juba), were able to benefit from the simplicity of the space and time saving seals. Unlike foam or cable glands, Roxtec seals allow for changes and provide spare capacity for new cables or pipes in existing openings. This reduces the time needed for maintenance or retrofit work as well as the need for keeping sealing items in stock.

One and same solution

Roxtec standard and customized seals handle high cable density and cables of different sizes all over the mine, and protect the cables from damage due to vibration. The seals keep both E-houses on excavators, spreaders and transporter stations and operator cabins, control centers and substations tight and safe. Roxtec supported the project through installation training and follow-up inspection.

Easy to ensure protection

Dusan Nikolic, head of excavators and spreaders, electrical maintenance, Termoelektrane i kopovi Kostolac, experienced several benefits in replacing the cable glands by Roxtec seals:

"We got space saving and excellent dust, rodent and moisture protection for easy installation and reinstallation in electrical rooms. We can easily install a frame, route all the cables and then fit the modules."



Why use Roxtec?

- Protection against multiple risks
- Electrical safety
- Quick and easy to install
- Ideal for standardization
- Built-in spare capacity for future needs

Project facts

Project description

New ETD system in open pit mine in Drmno, Serbia

Involved companies

- EPS (Elektroprivreda Srbije), Termoelektrane i kopovi Kostolac – owner
- ThyssenKrupp and Sandvik – design/engineering
- Mikro Kontrol and Energotehnika Juzna Backa (EnT Juba) – contractors
- GOSA FOM, Zimpa UB – subcontractors

Applications

Sealing of cable and pipe entries in E-houses, operator cabins, control centers, motors, substations and cabinets

Sealing requirements

- Watertight
- Moisture-proof
- Dust-tight
- Bonding and grounding
- Electromagnetic shielding

See more on roxtec.com/mining

Protecting life and assets

Roxtec is the world leader within flexible cable and pipe transits. Since the start in Sweden in 1990 we have grown successfully to cover all continents. Our passion is innovative sealing solutions, and our goal is to make our world a safer place.

- Extensive R&D resources and advanced test facilities
- Customers in more than 80 markets
- Inventor of Multidiameter™