

Sandvik Mining and Construction Oy

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Understanding underground

Sandvik focuses on continuously developing tunneling methods and equipment to be more efficient and more productive, giving a safe result of the highest quality. Sandvik's tunneling expertise covers a range of methods: Drill and blast, mechanical cutting and breaking. The equipment range includes tunneling jumbos, roadheaders and cutting units, bolters and bolts, drilling and cutting tools, hydraulic breakers, loading and hauling equipment, mobile crushers, and financing, parts and consumables, training, technical support, and repair and rebuild service.



We invest heavily in research and development. Our in-house cutting test laboratory lets us address special customer requirements and offer the latest technologies in mechanical cutting. We also have a unique test environment - a test mine - in connection with the drills factory, where practical testing in real life conditions takes place, and a laboratory for measuring drilling dynamics and performing rock drill and tool lifetime tests.

Sandvik works in close cooperation with universities and research institutes everywhere in the world. A good example is a research and development project called "ICUTROC", a result of which is a more effective, energy-saving cutting system for tunneling roadheaders. Not to mention the intelligent tunneling concept - the DTi jumbos with iSURE process optimization tool - in drill and blast: They deliver an uncompromisingly accurate drilling result, with minimum vibrations, taking safety in tunneling, and in tunnels, into new heights.

In 2010, Sandvik equipment was employed, among others, in Monte Ceneri and Sedrun, Switzerland, Berapit tunnels in Malaysia, Express rail link C822 in Hong Kong, Durango-Mazatlan highway in Mexico, Changuinola hydropower project in Panama, Seoul ring road in Korea, La Romaine hydropower project in Canada, Brisbane Airport Link in Australia, the Sochi Olympic Games site in Russia, the metro Bilbao site in Spain, the Citybanan metro site in Sweden and a wide range of projects in Finland.

(Source: ITA-AITES Tribune #40, May 2011, ITA "Prime Sponsors" report 2010)