

Railway Tunnel LK 104

Limanowa, Poland
Full TBM portfolio



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Product Highlights

MasterRoc ACP 143

MasterRoc SLF 543

MasterRoc AGA 370

MasterRoc AGA 255

MasterRoc TSG 800

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Project description

Modernising Poland's LK 104 rail line, this TBM project carved a twin-bore 3.8km tunnel near Limanowa. A core part of the Podłęże-Piekietko link, it slashes travel times to the Tatras and upgrades vital regional infrastructure

Challenge

Both TBMs battled the fickle Carpathian flysch: unstable sandstone, high water pressure and tectonic faults. These geological shifts required precise pressure control and constant monitoring to navigate methane risks and shifting ground.

Solution

"Innovative TBM portfolio flexible to meet all customer requirements"

We engineer geological certainty with a precise chemical suite. Our advance soil conditioning foams converted abrasive flysch into stable paste, reduced tool wear and potential clogging. Inclusion of our eco-friendly two-component Annulus Grout system delivered rapid segment stability. Finally, our biodegradable Tail Seal Grease, offered a low density and high water resistance performance. From torque reduction to watertight seals, our creative solutions keeps TBMs moving through volatile ground



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