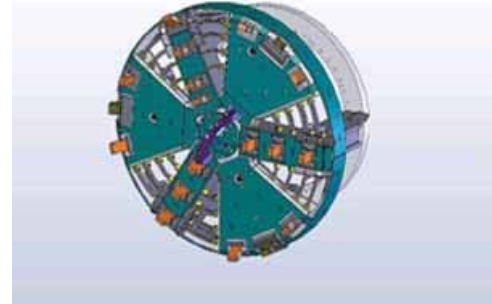
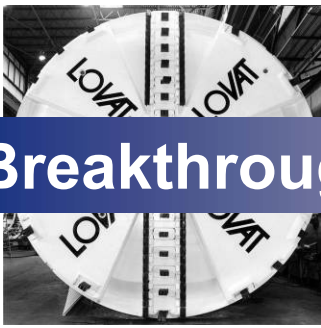


Supply of New Components – RME139SE Series 21100, Moscow Tunnel Project



Russian contractor OAO Bamtonnelstroy have recently signed a contract with LOVAT for the supply of a new Cuttinghead, Cutting Tools, Screw Conveyor and Ground Conditioning System. The new components will be installed on the LOVAT RME139SE Series 21100 Tunnel Boring Machine [TBM] for use in a tunnel project in Moscow.

The new Mixed Face Cuttinghead is a 3 spoke design, with 6 face isolation doors to allow for maintenance & cutting tool changes. The new Cuttinghead will be driven by 6 variable displacement hydraulic motors, with 376 kW of total available power. Two full dressings of cutting tools are supplied with the Cuttinghead, including LOVAT Ripper teeth and Scraper Teeth with Tungsten Carbide inserts and Chromium Carbide plating. Both the Cuttinghead and new screw conveyor casing & auger will also have Chromium Carbide plating applied, offering abrasion protection in the anticipated geological conditions consisting of glaciofluvial deposits. A 1000 liter per minute Ground Conditioning System will provide conditioning to the soil, further aiding excavation.

The TBM will bore along a maximum slope of 0.2%, with the entire tunnel alignment below the groundwater level. Depth of cover above the tunnel crown will vary from 5 to 18 metres, with the majority of the drive expected to be in typical Moscow clay and loamy sands.

LOVAT is also supplying a specialist technician to provide supervision and assistance during the assembly and installation of the equipment on the TBM. Once the new components are installed, the TBM will be fully tested prior to boring. The TBM is expected to commence excavation on its new tunnel project in Moscow later this year.



БАМТОННЕЛЬСТРОЙ