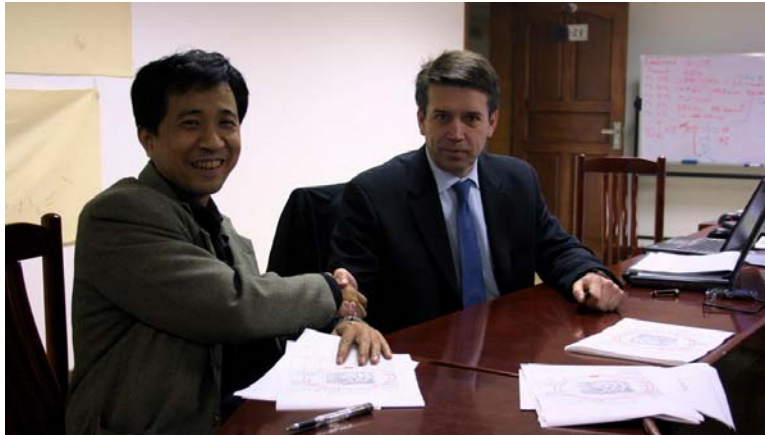
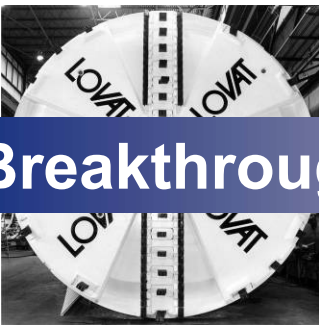


## Two New TBMs for China Railway Tunnel Group - Shenzhen & Guangzhou Metro Projects, China



LOVAT is pleased to announce the recent signing of a contract to supply two new RME246SE Earth Pressure Balance Tunnel Boring Machines [TBMs] to the China Railway Tunnel Group (CRTG). Both TBMs will be used in the construction of the Shenzhen Metro and Guangzhou Metro projects located in Guangdong Province, China.

The 6.3 meter diameter, mixed face TBMs will bore a total of 6,251 meters of tunnel over two drives. Geology along the tunnel alignments is characterized by soft ground and soft to hard conglomerates. The soft grounds are expected to consist of clay, mucky soil, silty and medium to coarse sands. The tunnels will be driven entirely under the groundwater level, with groundwater heights above the tunnel invert varying from 7 to 16 meters. Maximum EPB pressure is anticipated at up to 4 bar. To reduce wear in the abrasive geological conditions anticipated, the TBM will be equipped with chromium carbide plating on the cuttinghead face and rim, in addition to being outfitted with a LOVAT Ground Conditioning System.

LOVAT will manufacture the steel structures for the twin TBMs locally in China. After-sales technical assistance and on-site support will be provided by LOVAT China. Delivery of both TBMs is scheduled for mid 2008.