



**NEURON CONSULT ZT**  
PELIKANSTR.18, 4061 LINZ-PASCHING, AUSTRIA

## **CABLE TUNNEL MAIN RAILWAY STATION GRAZ, AUSTRIA**

### **KORALM RAIL LINE GRAZ - KLAGENFURT**

**OWNER: HIGH SPEED RAILS AUSTRIA - HLAG**



**LOCATION**



**TBM OPEN SHIELD MACHINE,  $D_{exc} = 3.74$  M**

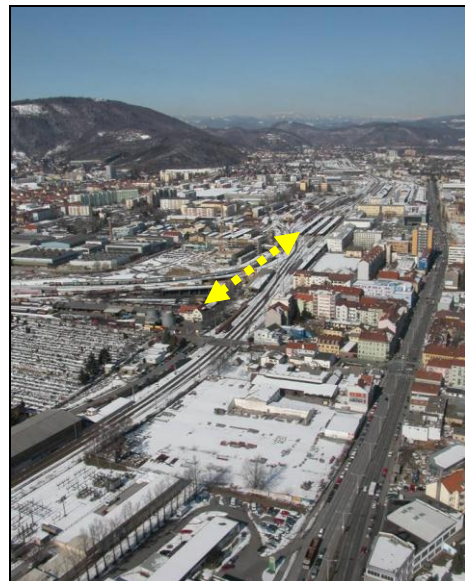
### **PROJECT DESCRIPTION**

AS THE PART OF THE NEW HIGH-SPEED RAIL LINE CALLED "KORALM RAIL LINE" FROM GRAZ TO KLAGENFURT, ONE CABLE TUNNEL UNDERNEATH THE MAIN RAILWAY STATION IN GRAZ HAD TO BE CONSTRUCTED. IT HAS THE LENGTH OF 1000 M, EXCAVATION DIAMETER OF 3.74 M THROUGH GRAVEL LAYERS WITH OVERBURDEN IN THE RANGE OF 6-15 M. THE TUNNEL HAS BEEN CONSTRUCTED USING PIPE-JACKING OF CONCRETE TUBES METHOD, WAS THE BIGGEST AT THE MOMENT PIPE-JACKING TUBE IN AUSTRIA ( $D_{out} = 3.68$ M) AND WAS THE FIRST TUNNEL OF AUSTRIAN RAILWAYS CONSTRUCTED USING TUNNEL BORING MACHINE (TBM).

### **SERVICES PROVIDED**

TENDER AND FINAL DESIGN FOR THE TUNNEL EXCAVATION AND LINING INCLUDING PIPE-JACKING PROCEDURE. QUALITY CONTROL AND QUALITY ASSURANCE OF THE INSTALLED LINING.

PERIOD OF WORK: 12/2003 -10/2005



**TUNNEL LOCATION ON RAILWAY STATION**



**PIPE JACKING FROM START SHAFT**



**STRETCHING UNIT FOR INTERMEDIATE PIPE JACKING**