

Lift, Transport and Lowering of 320 Tonne Tunnel Boring Machine, St Paul Airport, Minnesota, USA

Client: Obayashi / Johnson Bros.



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CIVIL 36



Above: TBM appearing, taken at ground level.



Above: South portal placing on to SPMT's



The operation of this project was the lifting of the TBM (Tunnel Boring Machine) out of a 40 ft (12m) pit by means of a tower system combined with hydraulic gantries and strand jacks. The TBM was then transported at night, when air traffic is low, across the airport runway by two self propelled 12 axle transporters and lowered into the new pit at the other side of the airport. Fagioli PSC USA's scope included the rigging of our lift system, the derigging of it upon completion of lift and again the rigging at the other end for the lowering.

The turn around time for the whole project was 11 days.

Left: North portal - Lift system in action, TBM half way.