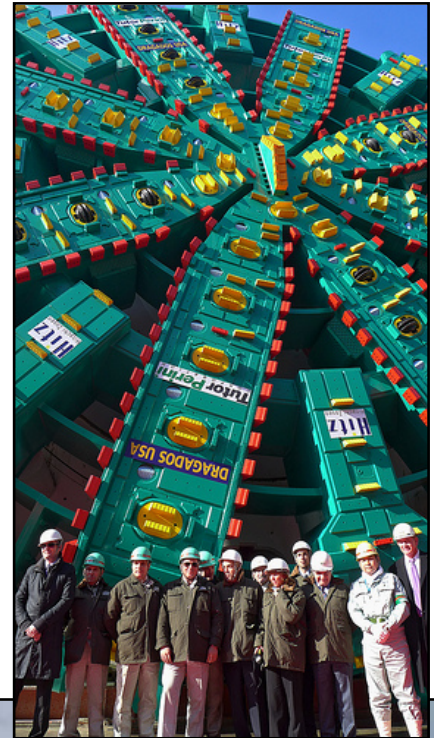


TBM Bi-Component (A/B Type) Grout Plant

**Seattle Tunnel Partners
SR99 Viaduct Replacement Tunnel Project
Seattle, WA**



SIZE / CAPACITY
30 m³/hr

SERVICES PROVIDED

Conceptual Design
Mechanical Engineering
Fabrication of all Equipment
Commissioning
On-Site Training and Site Support

SUPPLIED EQUIPMENT

40' Heated Container
Tornado 1600 Colloidal Mixer
4000 litre Agitation Tank
Three 108 m³ Capacity Silos
Three Screw Conveyors
Automated PLC/MCC Control System
Pneumatic System
Admix System
Water Weigh Hopper
100 mm Grout Peristaltic Pump
Two 50 m³ Heated Accelerator Tanks
50 mm Accelerator Peristaltic Pump

In July 2013 the world's largest diameter tunneling machine began a historic journey beneath downtown Seattle. Its purpose: dig a tunnel to replace the State Route SR 99 Alaskan Way Viaduct, a double-deck highway that has spanned the downtown waterfront for more than half a century but was damaged in a 2001 earthquake.

The project includes a 1.7 mile long tunnel beneath downtown Seattle, a mile-long stretch of new highway that connects to the south entrance of the tunnel, near Seattle's stadiums and a new overpass at the south end of downtown that allows traffic to bypass train blockages near Seattle's busiest port terminal.

Team Mixing Technologies Inc. provided a 30 m³/hr capacity bi-component (A/B type) grout plant, with colloidal mixer, to feed the giant 17.6m (58 ft) diameter Hitachi-Zosen manufactured TBM. Also provided were insulated and heated 50 m³ capacity sodium silicate storage tanks along with a peristaltic pump to transfer the accelerator to the TBM.