

Mega Tunnel Boring Machine (TBM)

Achieve significant reduction of substance of concern (Hydraulic oil)

- Achieve significant reduction of hydraulic oil by the following items,
- Install hydraulic power units inside TBM
 - Adopt electric drive system
 - Reduce hydraulic oil tank volume (Adopt the closed circuit)

Significant reduction of substance of concern (Hydraulic oil)

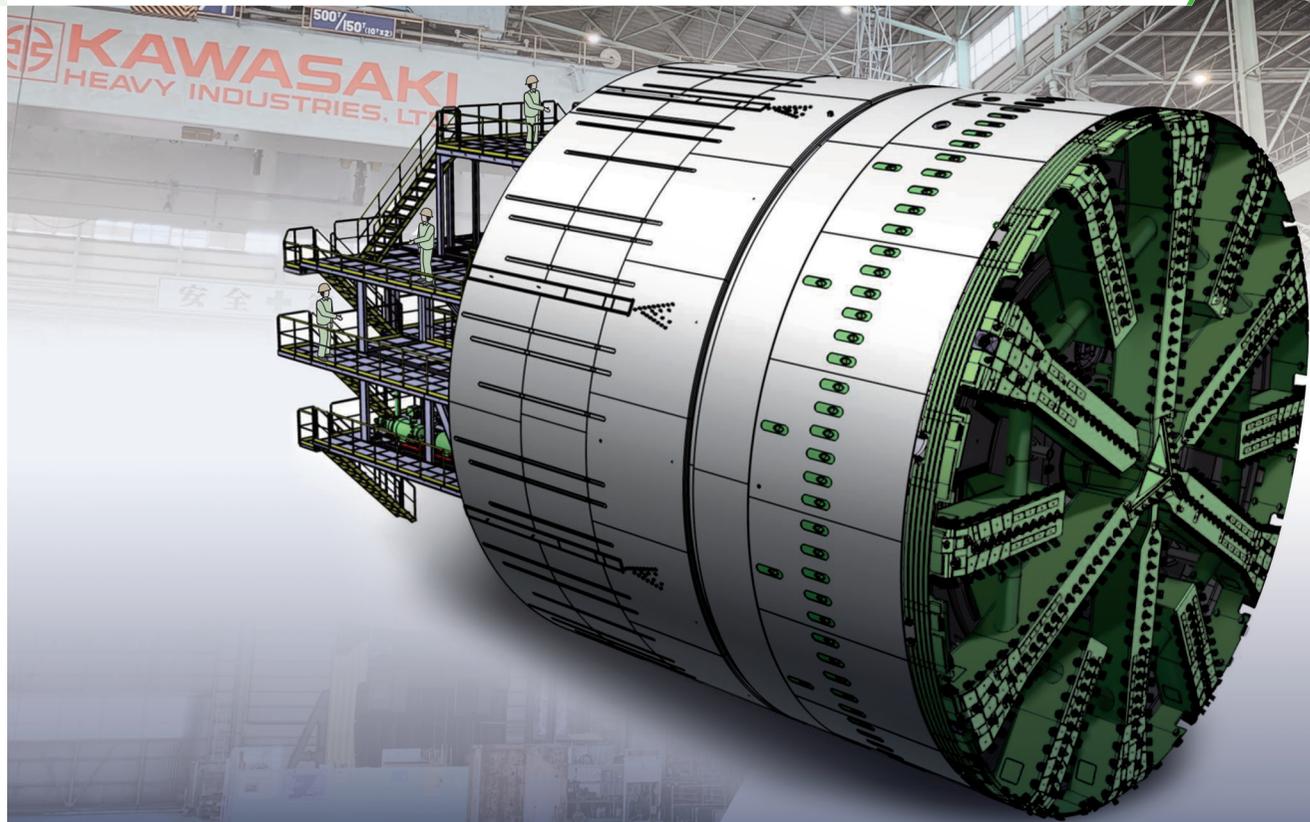
- Reduce the hydraulic piping length by the relocation of power unit from Backup gantries to TBM inside
- Reduce the number of hydraulic power unit by the adopting the downsized actuator and electric drive system (high efficiency)
- Reduce the oil tank volume by the adopting the closed hydraulic circuit

Reduction of thousands to tens of thousands liter of hydraulic oil



2020

Kawasaki
Ecological Frontiers
S class



Product Description

Mega TBM is a construction machinery for mining a road tunnel over 10 m inside dia. Manufacturing record of large dia. TBM is more than 30 sets. Among these TBM, after Mega TBM for road tunnel, manufacturing process has been greatly shortened and required parts number are reduced significantly from conventional model

Features

- 3D design and measurement replace the verification of check item during the full assembly of TBM in the factory. This improves TBM manufacturing process drastically and shortened the overall period