



MAPEI mechanized tunneling solutions

Ground-breaking performance products



SOLUTIONS *for* UNDERGROUND CONSTRUCTION

- Alkali-free setting accelerants for quality shotcrete
- Products for mechanized excavation of tunnels: Foaming agents, polymers, sealants and lubricating oils
- Injection and solidification products
- Products to repair, protect and finish concrete
- Waterproofing products: Synthetic facings, accessories for waterproofing and injection resins



UTT PRODUCTS for MECHANIZED TUNNELING

Tunnel Boring Machine



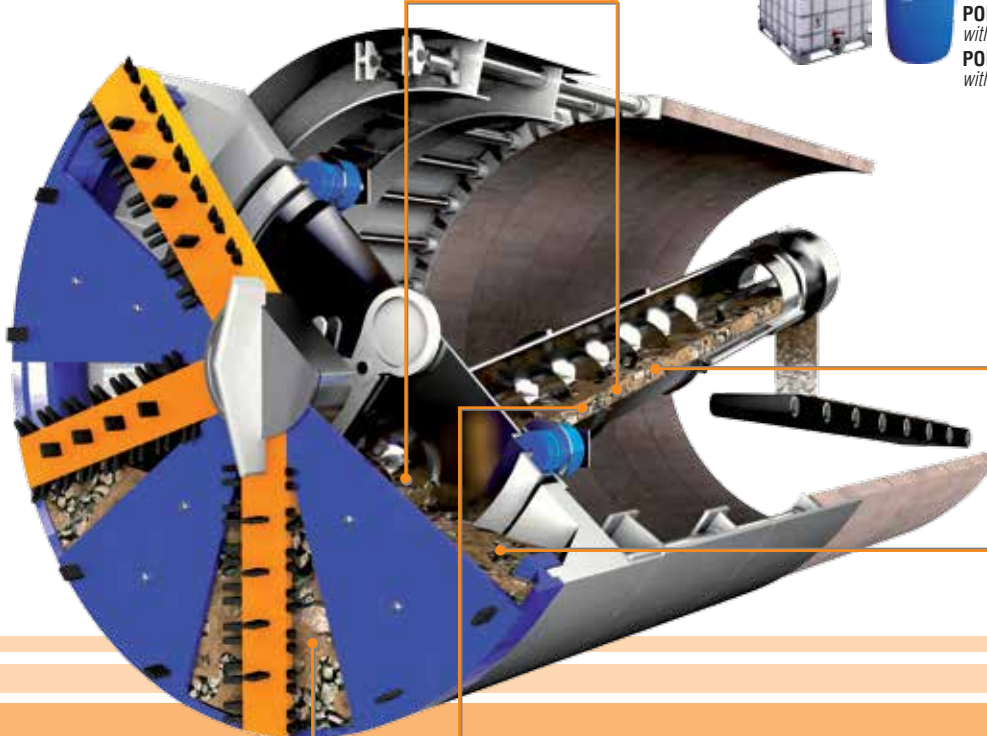
GROUND CONDITIONING

MAPEDRILL F1 *synthetic polymer*
MAPEDRILL SA1 *water absorbent polymer*
MAPEDISP FL *dispersant agent*
MAPEDISP FLS *dispersant agent*



GROUND CONDITIONING

STABILFOAM 250 ÷ 300 *foaming agents*
POLYFOAMER FP *foaming agent combined with polymer*
POLYFOAMER FL *foaming agent combined with dispersant*



GROUND CONDITIONING

MAPEDRILL BIO *natural polymer*
MAPEDRILL BIO K *natural polymer*
MAPEDRILL BIO L *natural polymer*
MAPEDRILL BIO LV *natural polymer*



BACK-FILL GROUT

MAPEQUICK CBS SYSTEM *two-component system for injections with very quick setting time*

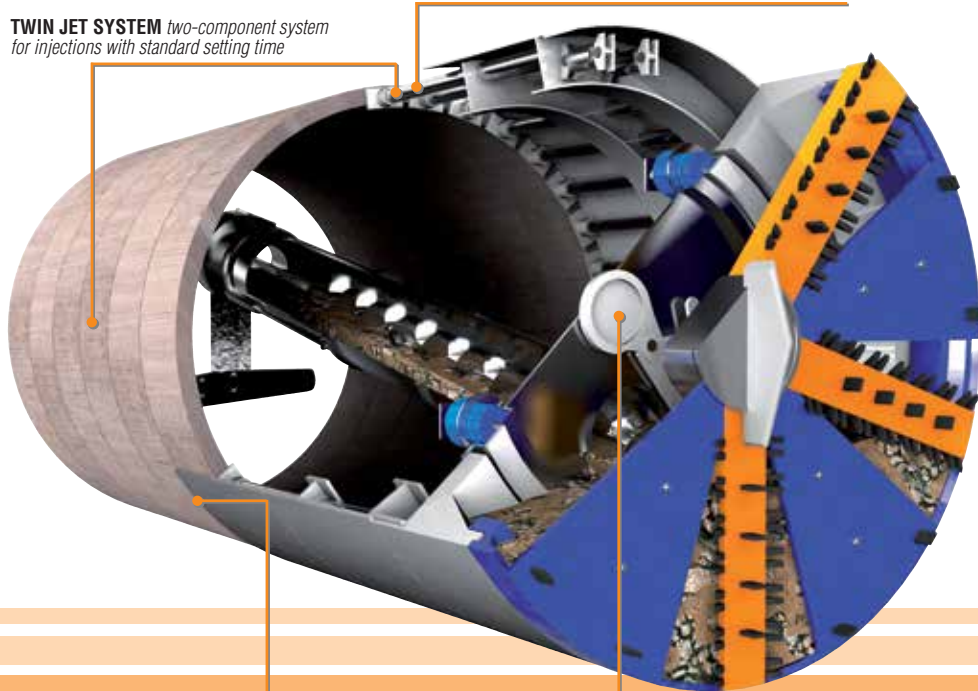
TWIN JET SYSTEM *two-component system for injections with standard setting time*



HYDRAULIC OIL

MAPEOIL HFR 46 *biodegradable high-performance oil for TBM*

MAPEOIL HFR 68 *biodegradable high-performance oil for TBM*



GREASES AND SEALANTS

MAPEBLOX/T *tail seal grease/sealant*
MAPEBLOX/PKG *packing grease*
MAPEBLOX T/S *tail seal grease/sealant*



GREASES AND SEALANTS

MAPEBLOX/H *main bearing grease*

PRODUCTS

- **Polyfoamer FP** foaming agent with polymer
- **Stabilfoam 300** high concentration foaming agent
- **Mapedrill M1** polymer for soil conditioning
- **Mapeblox T** tail sealant
- **Mapeoil HFR 46** hydraulic oil (fire-resistant)
- **Mapequick CBS System** additives for two-component filling mixture behind casting
- **Mapebent CBS 2** high-performance bentonite
- **Mapecoat W SP** paint to protect the concrete





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