

Max Bögl – reliability, flexibility, innovation





Company group Max Bögl

- 90 years of successful company history
- 35 locations worldwide
- Over 6,500 highly qualified employees
- Annual turnover of € 1.7 billion
- Family-owned in the 3rd generation
- Serial manufacturing processes

Future oriented Product portfolio

- Renewables
- Living
- Building Construction
- Infrastructure
- Mobility

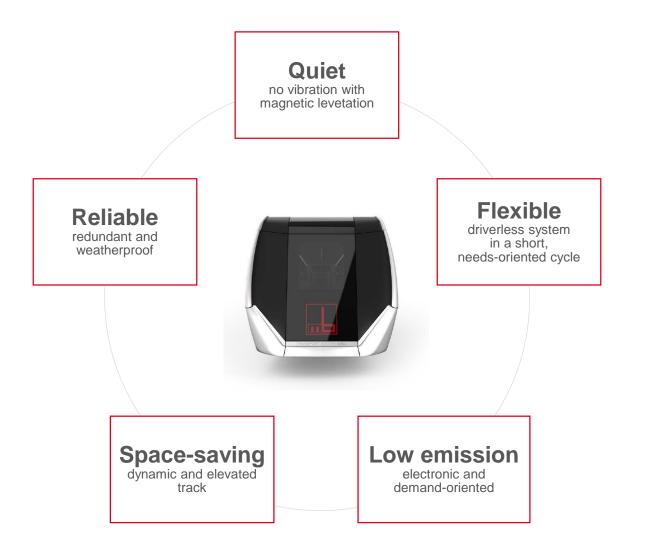


Moving megacities

TSB - Transport System Bögl

759 – Perfect for urban regions







Efficient technology

- Speed up to 150 km/h
- Acceleration 1.0 m/s²
- Curve radius up to 45 m
- Transverse inclination up to 8°
- Gradient up to 10%
- Electromagnetic levitation
- Short stator linear drive (passive track, drive in vehicle)
- Up to 127 people per section
- 2 to a maximum of 6 sections per vehicle







Production of standard segments

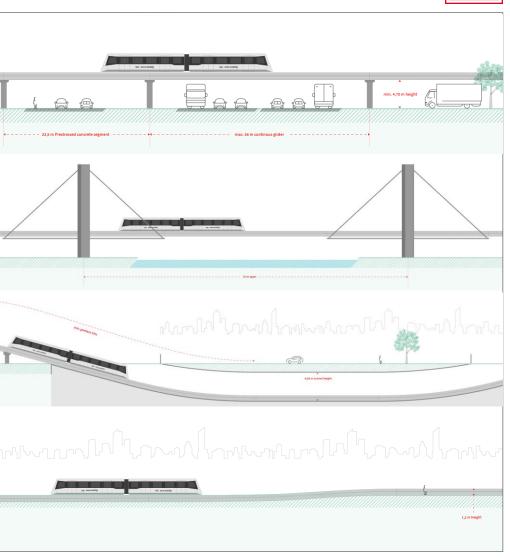
- Slim primary supporting structure (H 1.2 m / L 36 m)
- Fully equipped prefabricated elements
- Fast assembly of industrially manufactured guideways

Flexible integration in cities

- Aesthetic route guidance for urban use
- No overhead line necessary
- Flexible use: elevated, at ground level or in tunnels
- Minimal nuisance to residents due to short construction times

Project size

Optimal solution from less than 3 to more than 50 kilometers



759 – Economic overall solution

All from a single source

- Vehicle, track, operations control system as a turnkey service
- One partner from planning to execution and operation

Industrial production

- Standardized and efficient production in the main plant
- Worldwide transportation with standard sea containers

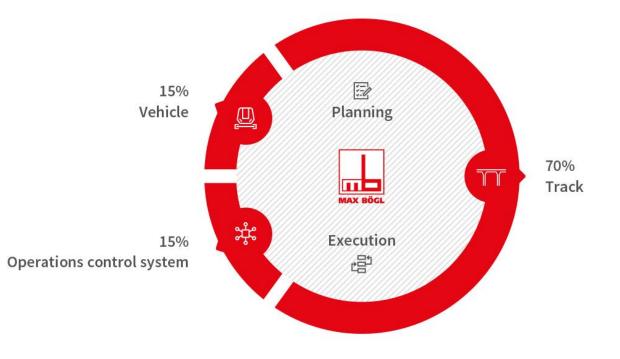
Low operating costs

- Optimization of personnel deployment thanks to autonomous driving operation
- No wear due to contactless floating

Investment costs

- 30 50 Mio. EUR per double km (overall system)
- Depending on individual project parameters







Test track Max Bögl headquarters, Sengenthal

- 850 m long test track
- Operation of new vehicle generation started in January 2020
- New maintenance center completed in December 2019

Demonstration track China

- License agreement with partner Xinzhu Road & Bridge Machinery Co. Ltd. for use in the Chinese and Taiwanese market
- Construction of a 3.5 km demonstration track in Chengdu for customer acquisition and approval in China
- All components are delivered, including the first switch and serial vehicles





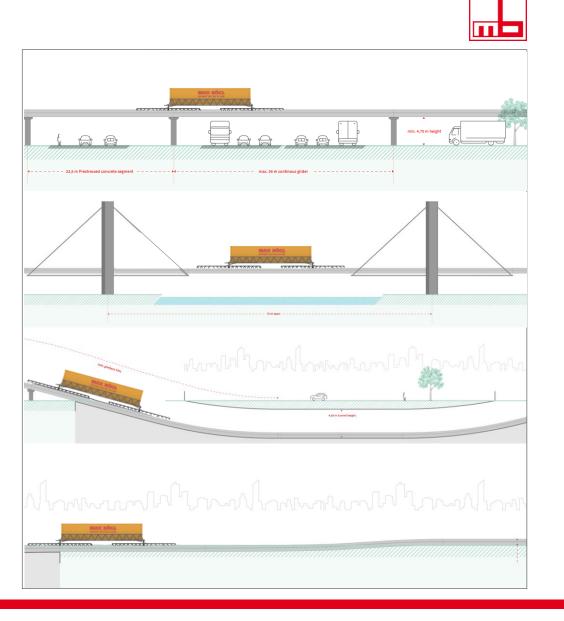


Efficient technology

- Separate, noiseless and independent transport of standard ISO containers
- Headway 20s
- Maximum speed 150 km/h
- Identical infrastructure, running gear and operational control system compared to passenger transport system → Mixed traffic operation possible
- Loading and unloading of the vehicles with standard and existing crane infrastructure
- Energy-efficient overall system

Investment costs

- 30 50 Mio. EUR per double km (overall system)
- Depending on individual project parameters





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