



Amberg IMS Family Tailored for rail professionals





📲 Half the staff needed 🕋 Double your production output 💉 Double measurement accuracy 🛧 Technology pioneers



AMBERG IMS Family – select your appropriate model





- Benefit from highly precise geometrical information of inertial technology
- Use the system for construction, inspection and maintenance
- Achieve highest working speeds up to 4.5 km/h
- Select from three different inertial measurement units according to your local requirements
- Easily upgrade your system within the IMS family
- Attractive pricing
- Amberg IMS technology: proven worldwide in countless projects

IMS Solution: AMU 2030 In cases where absolute and relative track surveys demand highest accuracy levels

- Final track acceptance and inspection on high speed lines
- Maintenance works which require integral validation of design data and reference points
- Versine accuracy¹: +/- 0.3 mm
- Max. measurement dist. @3 mm accuracy²: 200 m



400 km/h



IMS Solution: AMU 2020 For fast and reliable data collection in shortest time slots

- Providing survey results on lines with increasing track occupation (mainlines, mixed used)
- Use on railway lines with high quality project data (conventional rail, urban or main lines)
- Versine accuracy¹: +/- 0.5 mm
- Max. measurement dist. @3 mm accuracy²: 100 m







IMS Solution: AMU 2010 Get best possible cost-benefit ratio to achieve your required track quality

- Provides regular maintenance within a moderate budget
- Check track quality in absolute or relative mode
- Versine accuracy¹: +/- 0.7 mm
- Max. measurement dist. @3 mm accuracy²: 60 m





- (I sigma, DI band according EN 134848-4)
- 2 Reproducibility in position and elevation (I sigma)



AMBERG IMS covers all fields of track measurements

Amberg Survey

System for as-built survey of existing railway lines for documentation and future planning

- Global 3D topographic track survey with given 3D control points
- Local 3D topographic track survey with creation of control points (where none are available)
- Relative track geometry survey with stationing as reference system
- GNSS as option for absolute survey

Amberg Tamping

High-performance system solution for track alignment data and tamping survey

- Efficient system for the preparation of correction data for tamping machine
- Proven long-chord measurement mode with only one trolley
- Data acquisition in very short time slots possible



Amberg Slabtrack

Integrated surveying solution optimised for the requirements during construction, monitoring and maintenance of slab track lines

- Fast and highly accurate acceptance measurement
- Frequent track geometry control
- Correction data based on sleeper number



Amberg Clearance

Modular system solution for manual and automatic clearance survey and analysis

- Comprehensive process for the acquisition of scan data for clearance analysis and design purposes
- Sophisticated engine for static and dynamic clearance analysis
- Combined survey of relative and absolute track geometry
- 3D point clouds and track data for transfer to BIM or CAD systems





AMBERG IMS Evolution

More than 160 IMS systems sold worldwide – Amberg, the pioneer in IMU technology!

