

Amberg IMS Family

Tailored for rail professionals



Why choose the Amberg IMS family for your highest demanding tasks?



Half the staff needed



Double your production output

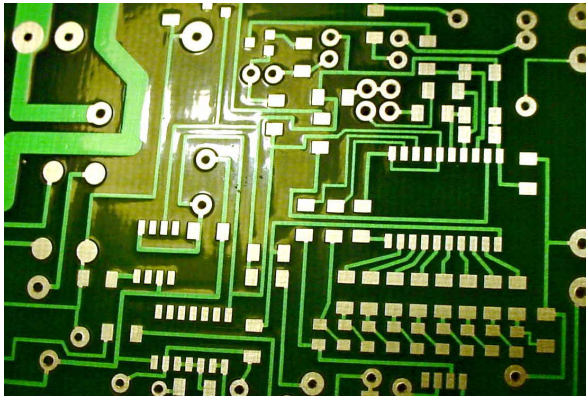


Double measurement accuracy

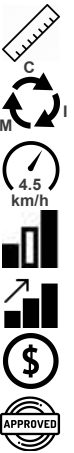


Technology pioneers

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



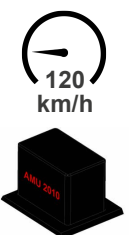
IMS Solution: AMU 2020 For fast and reliable data collection in shortest time slots

- 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



¹ Horizontal/vertical accuracy of 20 m chord
(1 sigma, DI band according EN 134848-4)

² Reproducibility in position and elevation (1 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

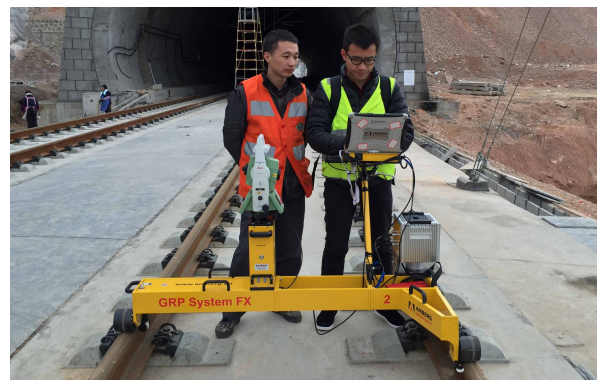
- Efficient system for the preparation of correction data for tamping machine
- Proven long-chord measurement mode with only one trolley
- Data acquisition in very short time slots possible



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!

