

Amberg Slab Track Plus GRP 1000





The configuration consists of

- Premium hardware GRP 1000
- Application specific software Slab Track Plus
- Robust and guaranteed precision thanks to GRP Fidelity
- First-class application support

Technical data GRP 1000 for Amberg Slab Track Plus

System configuration		Positioning	
Gauge (mm)	1000, 1067, 1435, 1520/24, 1600, 1668/76	Leica total stations, - motorised, ATR - radio modem	TS30 TPS1200 TPS2000
TGS FX		Power supply	
Gauge - for nominal gauges	- 25 mm to + 65 mm		Leica GEB171, battery, rechargeable
Superelevation (Cant) - at 1435 mm gauge	+/- 260 mm (+/- 10°)		
Sensor performance		Battery life*)	> 8 h
Track geometry measurement (Position, Gauge, Superelevation)		Panasonic control computer	Panasonic Li- lon battery, rechargeable
Single measurement Final adjustment	4 s	Battery life*)	> 4 h
Tracking mode Rough adjustment	0.3 s		ATPC 1000 PowerCube,
Depending on conditions and surveying mode of total station type.		control computer - also suitable for TPS/GPS supply	lead acid battery, rechargeable
System accuracy		Battery life*)	> 10 h
Absolute system accuracy *)		*) Depending on conditions.	
Single measurement	+/- 1.0 mm) Depending on conditions.	
Tracking modus	+/- 3.0 mm	Environmental spec	ifications
Gauge	+/- 0.3 mm	Working temperature -10	-10° to
Superelevation	+/- 0.5 mm		+50° C
Inner system accuracy	+/- 0.5 mm		< 80 %
*) Depending on e.g. control point quality, atmospheric conditions, total station type, sur-		- non-condensing System weight	
veying mode and project conditions.		GRP 1000	27 kg

- ready to measure - incl. battery and computer (without ATPC 1000)

System use and typical system performance

Slab Track applications				
Typical project applications	- High performance lines - Light rail - Metro - Tunnel refurbishment - Industrial tracks			
Installation Slab Track				
Suitable for Slab Track systems	Track based construction methods, e.g. - Rheda 2000 - Iron-Horse method,			
Production rate - depending on construction method and project conditions	> 400 m/d			
Installation Slab Track – turnouts				
Suitable for turnout systems, incl. structual gauge enlargement (e.g. FAKOP®)	- BWG - Cogifer,			
Documentation and acceptance				
Compatible with Slab Track systems	- Bögl System - J-Slab - Rheda 2000 - Iron-Horse method - Züblin Slab Track,			
Measurement performance - precision track as-built per sleeper	> 100 m/h			
Amberg Slab Track reference extract				
Ambergs' Slab Track solution has proven its high performance all over the world. Demanding projects have been successfully realised e.g. in Germany, Great Britain, Sweden, Spain, China, Taiwan, Singapore, Arab Emirates.				

Amberg Slab Track Plus

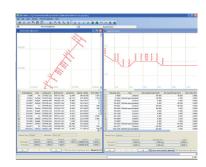
Amberg Rail 2.0

Amberg Slab Track

394.3 km/h? No problem! Amberg Slab Track is the integrated surveying solution, optimised for the typical requirements during construction, monitoring and maintenance of slab track projects.

Project data management

- Central database for input, visualisation and management of all track project data – including route data chronology, control points, and survey and construction progress.
- Supports all common geometry element types for track axis, gradients, station axis, superelevation range, gauge range including gauge enlargement at high-speed points (e.g. FAKOP®).
- Provision of all track project data for subsequent surveying tasks and evaluations.



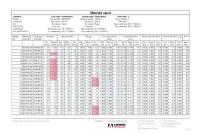
Surveying

- Determination of current track position during construction together with precision total station.
- Display of relative deviations (direction and height) to design in real-time -Data update frequency up to 3 times per second.
- Amberg Compensation Method Real-time compensation of control point inaccuracies - resulting in improved track geometry quality already during construction.



Evaluation

- Automatic survey data processing and evaluation including automatic linking of subsequently surveyed track sections.
- Complete surveyed data management including automatic incorporation of subsequent re-measurements.
- Comprehensive analysis and documentation of inner and outer track geometry quality.
- Interactive creation of correction lists supported with real-time simulations about the resulting final track position.



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