

# New Amberg Scanners for Amberg Rail 3.0 and TMS Tunnelscan Applications

## Amberg Profiler 5033

The Amberg Profiler 5033 is a high-resolution 3D scanner with high precision and range. The high-speed phase-shift laser scanner can be used with the tunnel-optimized measurement method (Amberg Positioning Method: APM™) or the Amberg Clearance Plus application. Through the compactness and the accuracy precise area-based results for tunnel and railway applications can be generated.

### Technical Data

Measurement rate max. 1.016 mio. points/sec

Range 187.3 m

Field-of-view 320 x 360

Rotation speed max. 50 rps

Operating temperature -10 C to +45 C

Weight 9.8 kg

Laser class I



TMS Tunnelscan application using Amberg Profiler 5033



GRP 5000 System with Amberg Profiler 5033

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## Amberg Profiler 6012

The Amberg Profiler 6012 is a 2D high-speed scanner, which is ideal for use with Amberg Clearance Plus and the GRP 5000 system. Due to its max. rotation frequency of 200 Hz, it enables a doubling of the previous measurement speed.

Technical Data
Measurement rate max. 1.016 mio. points/sec
Range 119 m
Field-of-view 360
Rotation speed max. 200 rps
Operating temperature -10 C to +45 C
Weight 13.5 kg

Driving speed	Resolution for 200 Hz / 5'120 Pts (distance 7.5 m)	Resolution for 100 Hz / 10'240 Pts (distance 7.5 m)
1.0 km/h	1.4 mm x 9.2 mm	2.8 mm x 4.6 mm
2.0 km/h	2.8 mm x 9.2 mm	5.6 mm x 4.6 mm
3.0 km/h	4.2 mm x 9.2 mm	8.3 mm x 4.6 mm
4.0 km/h	5.6 mm x 9.2 mm	11.1 mm x 4.6 mm



GRP 5000 System with Amberg Profiler 6012

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