

## APS Antriebs-, Prüf- und Steuertechnik GmbH worldwide presence with high quality testing machines for research and engineering

### Field of application

- Standard and special testing machines with specific efficient software for asphalt, bitumen and unbound material testing in research and practice
- Static and dynamic universal and special testing machines for recent and projected EN-tests
- Customized solutions for all applications
- Upgrading and modernization of existing testing devices
- Multifunctional data acquisition and high-speed controlling software for all standard test procedures

The APS Antriebs-, Prüf- und Steuertechnik GmbH is worldwide with its brand Wille Geotechnik® one of the leading companies for quality construction materials testing equipment, particularly in the field of dynamic testing devices.



Static and dynamic universal testing machine

### Different asphalt testing jigs for universal machine



Cyclic compression test



4-point bending test



Indirect tensile test



Dynamic shear test



Wehner/Schulze device for determination of friction after polishing



Cyclic triaxial testing system for unbound material testing



Electromechanical universal asphalt testing machine for cyclic tests



Universal testing system for measuring asphalt characteristics at low temperatures

## Selection of our product range

- Static and dynamic universal asphalt testing machines for analysis of rheologic properties of bituminous mixtures
- Complete laboratory testing device for skid resistance prediction and polishing resistance of asphalt, concrete and aggregates by Wehner/Schulze method according to EN 12697-49:2014
- Servohydraulic modular universal testing machines with 24/40/60 and 100 kN for high accuracy and high frequency test up to 100 Hz
- Low noise/energy electromechanic dynamic testing machines up to 30 kN and 30 Hz
- Modular testing jigs for different applications (e.g. indirect tensile test, cyclic compression test, 4-point bending test, direct tensile test, low temperature cracking test, uniaxial tension test, static and dynamic shear test, etc.)
- Different temperature and climate chambers from -40 to 85 °C
- Dynamic special triaxial testing machines with dynamic axial load and confining pressure for unbound material
- Gyrotory compactor to produce asphalt specimen
- Permeability apparatus for asphalt samples
- Automatic digital Ring and Ball apparatus
- General laboratory equipment

## Development of integrated closed-loop systems and software modules

- Digital transducers and data loggers for high resolution and precise measuring
- Intelligent software modules for complex testing procedures and analyses
- Integrated controlling, data acquisition and evaluation software



**APS**  
ADAPTIVE SOLUTIONS

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