

1.2 COIL SPRINGS TEST STAND

The Spring Test Stand is designed to perform a static test of conical bonded rubber spring, helical springs and springs sets. It can be manufactured with a system enabling buckling measurement. Dedicated software package allows to control the test stand, aid in test data analysis. Fully customizable by the operator with new test procedures, different springs parameters or specific test reports required by the user.

FEATURES

- Testing in manual or automatic mode,
- Measurement of height of the spring under near zero load and under set by operator load,
- Measurement of spring stiffness,
- Force/way diagram report,
- Testing of the bowing angle and force of the spring - option,
- Operator implement pre-programmed test modes, set tolerances and warning limit values of the springs,
- Collect and save measurement data, create reports as PDF or measurement files.

COMPONENTS

- Closed steel frame is designed to support of all main components,
- Load cells are built inside stainless steel material,
- Linear position sensor are installed inside the hydraulic cylinder,
- Mobile table for easiest loading/unloading process,
- Electrical cabinet with control panel, PLC controller, laptop or built in computer with a database and printer,
- Hydraulic unit,
- Emergency stop and safety crates.

CHARACTERISTICS	DATA
Axial test load (maximum)	180 kN
Actuator stroke	450 mm
Measurement error of applied load	0,1 kN
Measurement accuracy of vertical movement	±0,1 mm
Loading and & unloading table	650 mm

NOTE: The test stand is designed to test springs according to VPI measurements requirements. Our test stands are Deutsche Bahn Certified.

