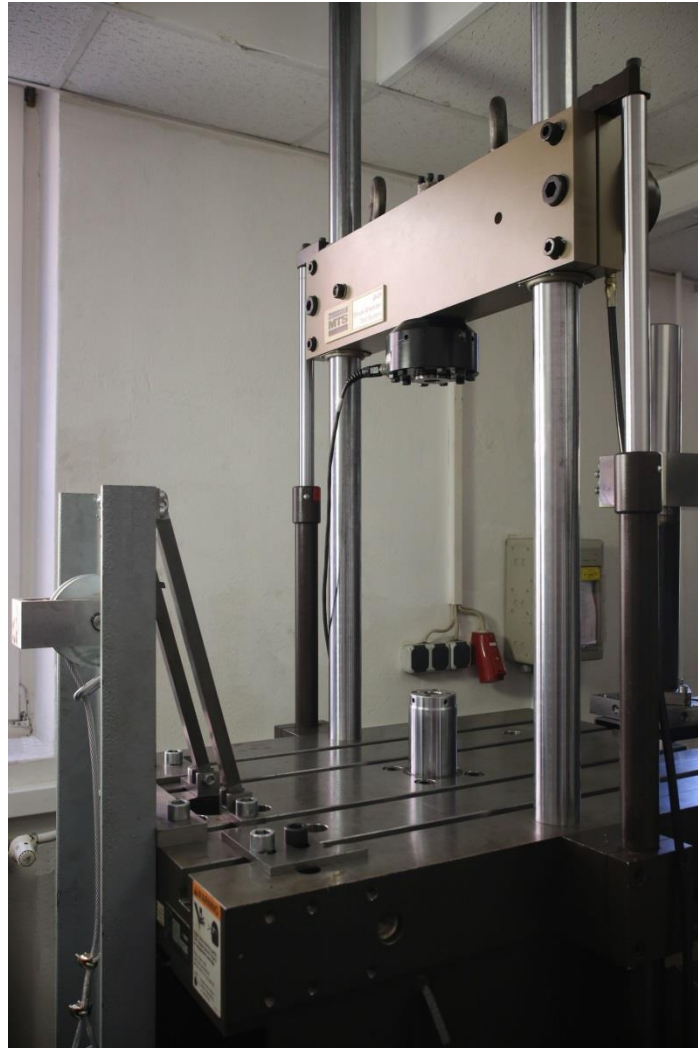


10_Single-Axis Hydropulser



<p>Main Applications</p> <ul style="list-style-type: none"> • static Load Tests uniaxial • dynamic Load Tests • Determination of static/dynamic Component Parameters • Recording of Friction Force Characteristics • Recording of Damper Characteristics according to VDA (Verband der Automobilindustrie e.V.) • optional: multi-axis statics Prestressing possible 	<p>Technical Data</p> <p><u>static:</u></p> <ul style="list-style-type: none"> • Load Range: +/- 50 kN • Travel: max. +/- 125 mm, Accuracy 0,01 mm <p><u>dynamic:</u></p> <ul style="list-style-type: none"> • Frequency Range: 0 - 100 Hz at approx. 0,5 mm Travel
<p>Specimen</p> <ul style="list-style-type: none"> • Shock Absorber • Elastomers • Hydromount • Tires • Driving Axle Components • Tire Samples 	<p>Characteristics</p> <ul style="list-style-type: none"> • max. Dimensions of the Test Specimens: L x W x H: 1000 x 533 x 1270 • max. Load Capacity of the Test Table: 100 kN • Heat Chamber up to max. 90°C for Bearing Measurements
<p>Measured Values</p> <ul style="list-style-type: none"> • Force: 1-axis, static/dynamic 3-axis • Displacement: 1-axis • Acceleration: 3-axis (Extension possible) • Temperatures PT100 	<p>Measurement Devices</p> <ul style="list-style-type: none"> • Load Cells: - MTS 661.20 F-02 50 kN - Kistler Load Cell 20 kN • inductive Displacement Measuring System integrated in the Working Cylinder • external Sensors for Force, Displacement, Pressure, Acceleration and Temperature Measurement
<p>Components of the Test Rig</p> <ul style="list-style-type: none"> • Hydropulser MTS 248.05 (height adjustable, braceable) • Test Table (Load Unit) • Pressure Accumulator (pmax = 375 bar, V = 4 l) • Oil Cooler • various Clamping Devices: inner Thread M27 x 2 • PC-Hydropulser Measuring Computer in the Test Room • FlexTest 40 – Control Unit (Excitation: sin-Function, Ramp, Rectangle, rpc Files) • Control Panel in the Test Room • Heat Chamber for Elastomer Components (20°C to 90°C) 	
<p>Software for Control and Data Acquisition</p> <ul style="list-style-type: none"> • Measuring and Control System: MTS • Evaluation: DIAdem, Matlab, Excel 	
<p>Available Supplies</p> <ul style="list-style-type: none"> • electrical Connection 16 A (32 A if necessary) • compressed Air 10 bar 	