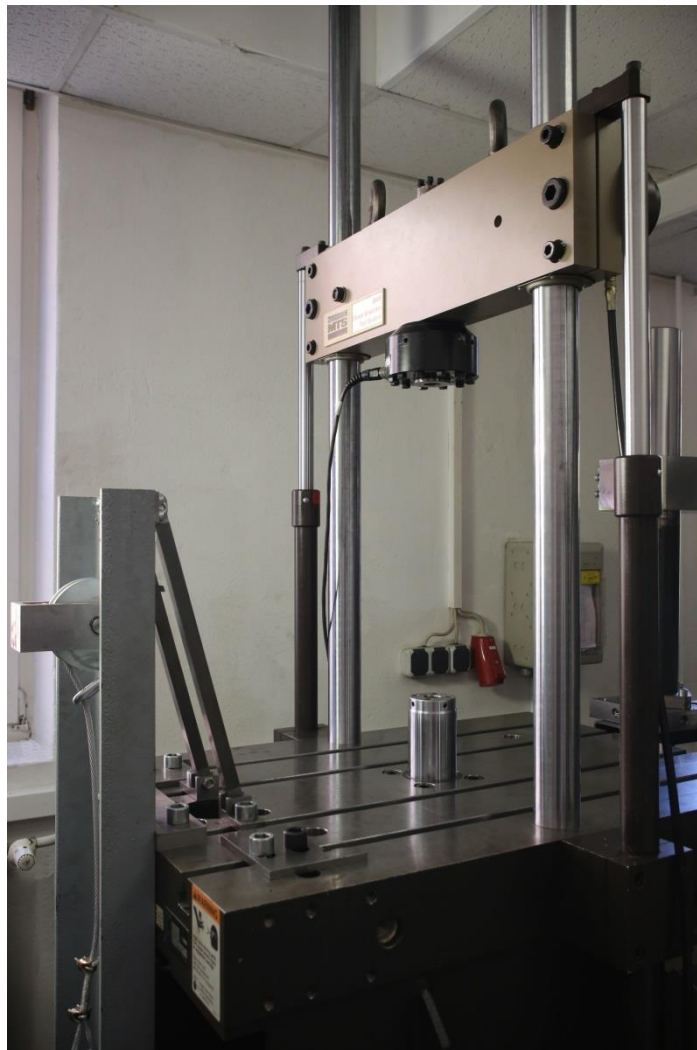


1-axe-hydropulser



<p>Main applications</p> <ul style="list-style-type: none"> • Static load test uniaxial • Dynamic load test • Determination of static component parameter • Determination of dynamic component parameter • Recording of friction force characteristics • Recording of damper characteristics according to VDA • Optional: multiaxial static preload 	<p>Technical data</p> <p>Static:</p> <ul style="list-style-type: none"> • Load range: +/- 50 kN • Travel range: max. +/- 125 mm, accuracy 0,01 mm <p>Dynamic:</p> <ul style="list-style-type: none"> • Frequency range: 0 - 100 Hz at approx. 0,5 mm travel range
<p>Specimen</p> <ul style="list-style-type: none"> • Dampers • Elastomers • Hydro bearings • Tires • Tire samples 	<p>Characteristics</p> <ul style="list-style-type: none"> • Max. dimensions of the specimen: L x W x H: 1000 x 533 x 1270 (mm) • Max. capacity of the testing table: 100 kN • Heat chamber for elastomer components with temperature up to 90°C
<p>Location</p> <p>Fahrzeugtechnisches Versuchszentrum Dresden Lehrstuhl Kraftfahrzeugtechnik August-Bebel-Straße 32 01219 Dresden https://goo.gl/maps/QwMGh6A6cjm</p>	

<p>Measured values</p> <ul style="list-style-type: none"> • Force: uniaxial, static/dynamic 3-axial • Travel: uniaxial • Acceleration: 3-axial (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 cells 20 kN • External sensors for measurement of force, position, pressure, acceleration and temperature • Inductive position sensor included in cylinder
<p>Components of test rig</p> <ul style="list-style-type: none"> • Hydropulser MTS 248.05 (adjustable height, bracing possibilities) • Testing table (Load Unit) • Pressure tanks (pmax = 375 bar, V = 4 l) • Oil cooler • Diverse clamping devices: Inside thread M27 x 2 • Measuring computer • FlexTest 40 – control unit (stimulation: sin - function, ramp, rectangle, rpc-data) • Control panel in test cell • Heat chamber for elastomer components (20°C to 90°C) 	
<p>Software for controlling and data collection</p> <ul style="list-style-type: none"> • Measurement/ controlling system: MTS • Analysis: DIAdem, Matlab, Excel 	
<p>Available supply in test cell</p> <ul style="list-style-type: none"> • Electrical supply 16 A (if necessary 32 A) • Compressed air 10 bar • Hydraulic fluid HLP 46 	
<p>Contact person</p> <p>Dipl.-Ing. (FH) Axel Gerhard Email: axel.gerhard@ tu-dresden.de Phone: +49 (0) 351 / 463 32048 Fax.: +49 (0) 351 / 463 37066</p>	