

06_Multi-Functional-Hydropulser





<p>Main Applications</p> <ul style="list-style-type: none"> • Load testing of specimen with servo cylinders • Measurements of vehicles, elastomer bearings • Determining static and dynamic characteristics • Determining the dynamic transmission behaviour of components and vehicles • Operating loadsheet tests 	<p>Technical Specifications</p> <p><u>Linear Cylinder</u></p> <ul style="list-style-type: none"> • Nominal force: +/- 15 kN • Piston stroke: 250 mm (+/- 125 mm) <p><u>Hydraulic Actuator</u></p> <ul style="list-style-type: none"> • Force: 25 kN • Max. hydraulic pressure: 20.7 MPa <p><u>Load Cell</u></p> <ul style="list-style-type: none"> • Load range: +/- 15 kN • Max. static load capacity: 150% nominal force • Permanent vibration resistance <p><u>Hydraulic Unit</u></p> <ul style="list-style-type: none"> • MTS 505.30S • Motor power: 45 kW @ 50 Hz • Nominal volume flow: 100 l / min • Operating pressure: 207 bar <p><u>Hydraulic Connecting Unit</u></p> <ul style="list-style-type: none"> • Rated pressure: 20.7 bar <p><u>Pressure Reservoir (2 pcs)</u></p> <ul style="list-style-type: none"> • Max. operating pressure: 250 bar • Gas volume: 0.98 l / 4.23 l
<p>Specimens</p> <ul style="list-style-type: none"> • Elastomer bearings • Total vehicles 	<p>Features</p> <p>APC Amplitude Phase Control (adaptive closed-loop control system)</p>
<p>Location</p> <p>Testing Facility Center Nickern Chair of Automotive Engineering Nickerner Weg 8 01257 Dresden</p>	



Measurement Parameters <ul style="list-style-type: none">• Force 1-axis per axis• Position 1-axis per axis• Force 3-axes *• Acceleration/Force div. *•• * ... possible optional extension	Actuating Variables <ul style="list-style-type: none">• Pressure• Position• Force• Acceleration
Components <ul style="list-style-type: none">• MTS FlexTest™ 100• Load cells• Controlling computer	Available Connectors at Testing Room <ul style="list-style-type: none">• Electric supply: 16 A• Cooling water temperature: 50 - 60 °C• Hydraulic oil: HLP 46
Software for Controlling and Data Acquisition <ul style="list-style-type: none">• MTS Test Software• Multi Purpose Testing (MPT) with Amplitude-Phase-Control (APC)• DEWE 2601-mobile data acquisition system by DEWETRON	
Reference Projects <ul style="list-style-type: none">• Various tests for OEM	
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