

06_Multi-Axis Hydropulser



Specimen

- elastomeric Bearings
- complete Vehicle

Characteristics

APC Amplitude Phase Control (adaptive Control Loop)



<p>Main Application</p> <ul style="list-style-type: none"> selective Loading of Test Specimens with the Help of Servo-Cylinders Measurement of complete Vehicle, elastomeric Bearings static and dynamic Characteristic Curve Determination Determination of the dynamic Transmission Behavior of Components up to complete Vehicle Operational Load Simulation Tests 	<p>Technical Data</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 % of the nominal Load fatigue Strength <p><u>hydraulic Unit</u></p> <ul style="list-style-type: none"> 505.30S Engine Power: 45 kW @ 50 Hz nominal Flow Rate of the Pump: 100 l / min working Pressure: 207 bar <p><u>hydraulic Connection Unit</u></p> <ul style="list-style-type: none"> rated Pressure: 20,7 MPa <p><u>Pressure Accumulator (2 Pieces)</u></p> <ul style="list-style-type: none"> max. operating Pressure: 250 bar Gas Volume: 0,98 l / 4,23 l
<p>Measured Values</p> <ul style="list-style-type: none"> Force: - 1-axis per Axle Displacement: - 1-axis per Axle Force: - 3-axis * Acceleration/Force div. * <p>* ... optional Extension possible</p>	<p>Control Values</p> <ul style="list-style-type: none"> Pressure Displacement Force Acceleration
<p>Devices</p> <ul style="list-style-type: none"> FlexTest™ 100 Load Cell Control and Measuring Computer 	<p>Available Supplies</p> <ul style="list-style-type: none"> electrical Connection: 16 A (32 A if necessary) Coolant Temperature: 50 to 60 °C Hydraulic Oil: HLP 46
<p>Software for Control and Data Acquisition</p> <ul style="list-style-type: none"> MTS – Program Multi – Purpose Testing (MPT) with Amplitude – Phase – Control (APC) DEWE 2601 – mobile Measuring System from DEWETRON 	