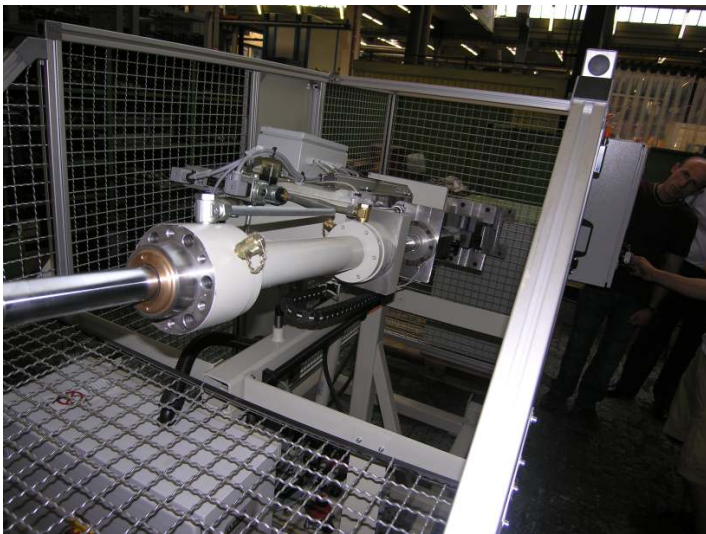


Universal shock absorber test machine



ULBRICH

www.ulbrich-group.com



Main features as follows

- Max. Press and Extension force 25 kN
- Max. Stroke 360 mm (i.e. +/- 180 mm)
- Max. total length of the shock absorber = 1100 mm
- Max. speed of the Sinus curve profile = 350mm / sec.
- Test position from 0° vertical to 120° , fully adjustable.
- Hydraulic system controlled by Servo-valves incorporating a Synchronous cylinder and a Driven by a 7,5 kW motor

Overview of the main components

• Steel construction

with high stability floor frame and C-profile load aperture. The Loading aperture can be swung from a vertical position by 120 °. Within this range, the actual testing position can be further adjusted by using a joystick.

• Actuator

The integration of servo valves and the Synchronised Hydraulic cylinders enables the operator to generate an opposing force from the shock absorber of 25 kN-over a stroke of 360 mm. Swivel cylinder allows the realignment of the loading frame aperture.

• Power Drive

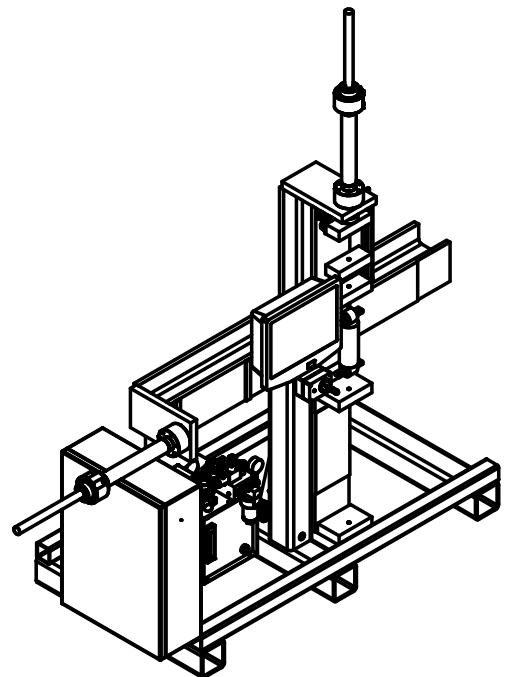
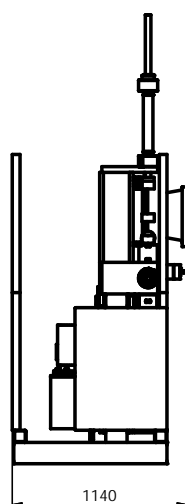
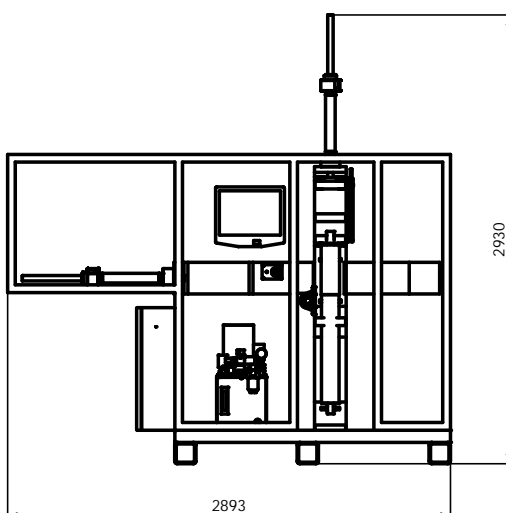
Variable flow pump with 7,5 kW, Oil tank 60 Ltr., Air-Oil heat exchanger, Pressure accumulator, proportional-servo valves plus filter.

• Sensors

High precision pressure sensor for measuring of the shock absorber compression and extension force. Travel distance sensor for measuring shock absorber stroke. Protractor sensor for controlling force direction / angle of test run.

Control Interfacing / Software

System control with the "Ulbrich © Shock absorber test programme". Interface connectivity via a Siemens PC based Automation system. The control system transmits the "cylinder motion signal" via Regulating valves which allow the setting of speed, also the pre-programming of sinus curve profiles or simple trapezoid movements can be simply achieved using the Ulbrich © test programme Software. The speed input is fully variable up to a Max. of 0,35 m/sec over the complete stroke length. For shorter strokes, it is possible to increase this speed depending on the length of stroke given.



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