

DynaCheck (Shock Absorber)

System for automatic testing and qualification of shock absorbers

The system is specialized in functional testing of closed and fully assembled 1-and 2-pipe shock absorbers. Tests can be performed with defined test parameters and variably adjustable measuring tasks.

By two integrated linear drives all motion profiles can be driven. This enables testing of different strokes at varying speeds. The test application's user interface is fully integrated into the system control and adapted to the production requirements. The entire operation of the testing system is carried out via a central panel.

In special menus all information relevant to the test engineer can be displayed and managed.

Technical specification:

- Non-destructive 100% testing of shock absorbers
- Variable positioning with two linear drives
- Real-time capable measured value analysis
- Controlling of the integrated actuators
- Configurable test cycle

Cycle time: 30 sec



Technical data

Piston rod \varnothing:	10 mm - 28 mm
Damper length:	400 mm - 1500 mm
Damper tube outside \varnothing:	20 mm - 80 mm
Test stroke:	min. 10 mm, max. 100 mm
Max. test force:	10 kN
Load cell:	20 kN
Max. testing speed:	1,2 m/s
Max. acceleration:	50 m/s ²
Sampling rate:	10 kHz
Test frequency:	1 - 15 Hz
Tracking accuracy:	Max. 2% deviation from the ideal sinus curve

