



## THE TEST STAND MZGS-100Ph

### Description

The machine MZGS-100Ph is designed to the fatigue tests of structural materials under cyclic bending and torsion with phase shift between bending moment  $M_b(t)$  and torsion moment  $M_s(t)$  in the range  $0-180^\circ$ . Histories of these moments are independent (separate drives and control systems) and they are harmonics. The stand can be used to determine the fatigue characteristics of materials and for fatigue crack growth tests under proportional and non-proportional loading. The stand is equipped with the control system and consumes only 0.5 kW of electric power.

### Technical data

- range of the loading amplitudes:
  - bending moment 0–120 Nm
  - torsional moment 0–120 Nm
- range of the phase shift 0–180°
- frequency of loadin 29 Hz
- supply 220 V/50 Hz
- power 0.5 kW