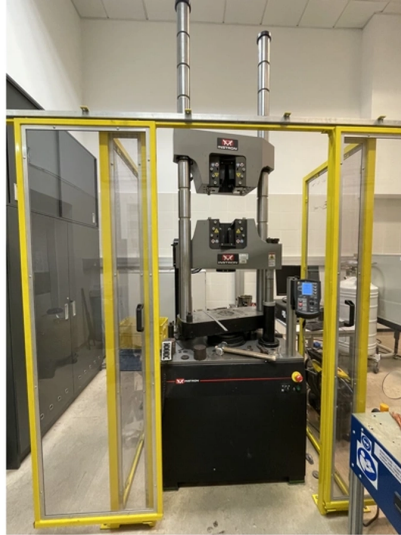


Universal testing machine INSTRON 600DX



Technical description:

Maximum load - 600 kN. Working speed range from 0.1 to 76 mm/min. Strain gauge measuring heads 100 and 600 kN with measuring accuracy class 0.5 and linearity of at least $\pm 0.25\%$ of the measured value in the range 0.4 % to 100 % of the measuring range of the head. Digital transducer for crosshead displacement measurement with a resolution of 1 μm . Test space height 900 mm, distance between columns 526 mm. Dual test space for easy adaptation to tensile and compression testing - no need to change heavy fixtures and grips. Ability to carry out standard tests or create your own individual test based on user-defined calculations (thanks to the ability to control the displacement of the testing machine crosshead as a function of time, displacement, load, stress and strain).

Trade name: INSTRON 600DX

More details: </equipment/maszyna-wytrzymaosciowa-3/>

Access type: External

Type of accreditation / certificate: Not applicable

Contact person: Cios Grzegorz

Contact person url: <https://skos.agh.edu.pl/osoba/grzegorz-cios-7871.html>

Responsible body: Academic Centre for Materials and Nanotechnology

Group / laboratory / team: Department of Materials Engineering

Last update date: March 10, 2025, 1:39 p.m.

Year of commissioning: 2014

IDUB research areas:

(PRA 7) Design, production, and testing of modern materials and the technologies of the future based on a multidisciplinary approach combining materials engineering with chemistry, physics, mathematics, and medicine

Research capabilities:

Material strength testing

Conditions for providing infrastructure:

Apparatus is made available under the terms of the Regulations for the Use of ACMiN Research Infrastructure. (https://acmin.agh.edu.pl/home/acmin/5_Wspolpraca/Aparatura/Zasady_i_koszty_korzystania_z_infrastruktury_badawczej_ACMiN.pdf)