Texture Analyzer

Stable Micro Systems Texture Analyser

Tool Type: “”
Location: “Elings Hall 2411”

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Description: “Texture Analyzer”
Manufacturer: “Stable Micro Systems”

About

The Texture Analyzer is located in room 2411 on the second floor of Elings Hall. This tool is capable of measuring virtually any physical product characteristic such as hardness, fracturability, adhesiveness, gel strength, extensibility of your materials. The Texture Analyzer is composed of a load cell and a linear actuator enabling the user to measure and control force and displacement with respect to time.

The Texture Analyzer has several fixtures that enables several material characterization testing techniques such as compression, tension, shearing, adhesion, fracture, bending, and penetration experiments.

Training Documentation

Form 2/3 SOP

Detailed Specifications

Force Capacity: 50kg.f (500N)
Force Resolution: 0.1g
Loadcells: 0.5, 5, 30, 50kg.f
Speed Range: 0.01 – 40mm/s
Maximum Aperture: 370mm/590mm
Distance Resolution: 0.001mm
Data Acquisition Rate: 2000pps

Safety Concerns

Common hazards associated with the Texture Analyzer include overheating and flying debris, so wear protective equipment and be very careful when performing hardness tests with hard materials. Pay special attention to how the sample is secure to prevent any flying debris.

Reference Documentation

ta_manual.pdf
