



Precision

Measurements Lab

معمل القياسات الدقيقة

Thermocycler «SD-Mechatronik»



- Thermal loading
- Artificial Aging
- Shock Cooling / Heating
- cyclic thermal cycling

Chewing simulator CS-4 «SD-Mechatronik»



- Simulation of various chewing movements
- Abrasion & Fatigue
- Implants, bridges, crowns, composite, jaw models
- Simulation of Bruxism especially to test bite splints
- Complete chewing cycles by linear 2-axis motion
- Circular dual-axis movement up to 5Hz



Universal Testing Machine «Instron»



- Tensile / Micro-tensile Test
- Shear / Micro-shear Test
- 3-Point Bending Test
- Compression Test
- Tension / Retention Test
- Indirect tensile Test
- Creep Test
- Push-Out Test
- Pull-Out Test

Linear Precision Saw «IsoMet5000 BUEHLER»



- Automatic precise linear cutting of various materials without deformation
- Automatic serial sectioning for multiple cuts to a desired thickness

Hardness Testing Machine «ZwickRoell»



- Vickers Micro hardness test
- Knoop Micro hardness test