

## STIFFNESS TESTER

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### ABSTRACT

Majority of manually operated fabric stiffness tester uses a light source and a person lie at 41.5°, On which a shadow at the fabric under test is formed and the length is measured using steel ruler. However, with this approach only length is measured at a final bent angle (41.5°) of the fabric.

Our approach uses the above methodology with automation for fabric feeding and measuring of intermediate lengths and bending angles using a light intensity sensor mounted on a rotating disc connected to an encoder and a stepper motor. The bending angles are automatically noted and can be recorded in excel sheet, further reports can be generated in tabular and graphical format.

**KEYWORDS:** Fabric, Tester, Light Source & Stepper Motor

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