

Electronic Fibre Bundle Strength Tester for Jute (Semi-Auto)

Background:

For measuring bundle strength of jute & allied fibres, Bundle Strength Testing Instrument is used, which has been developed by ICAR-NINFET and accepted by Bureau of Indian Standards. The instrument is controlled by hand so the human errors are there. To eliminate the human error totally an electronic automated instrument has been developed with the aim to replace the manual system with automatic system. The instrument is more precise, very simple, easy to operate and maintain.:

Technology Details:

The conventional instrument for jute fibre bundle strength tester has been modified and fabricated by introducing motorized constant loading system and digital representation of data. In this way possibility of human error in the testing method has been eliminated and also the testing time become less. In addition to breaking strength it can display the tenacity/quality index value, time to break and breaking extension (elongation). Moreover it can store the results in the built-in memory unit of the instrument, which can be down loaded in a computer at later stage in Excel format using USB interface.