

TECHNOLOGIES TRANSFERRED FROM ISRO

TT / 2000 / ISAC

AUTOMATIC TENSILE TESTING

(Technology Transferred to M/s Hydro Controls Pvt. Ltd.)

Testing of mechanical components for their behaviour under various loading conditions such as tension, compression, bending etc., is an inevitable part of any manufacturing / production process to assure the quality of the end product. Presently most of the instruments available in the market for conducting such tests are very costly and complex in design and operation. Though some low cost versions are also available, they have very limited applications. Whereas the universal testing machine developed at ISRO is a low cost cum versatile system which is fully automated, PC compatible. This machine can find applications in laboratories for material testing purposes. Typically tension, compression, bending, shear tests can be performed to study the material properties like Young's Modulus, Shear Modulus, Poisson's Ratio etc. Since it is inexpensive, even design / production shops could afford to have one to check the incoming materials or for design validation.

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2009