

Abstract Details

Title: Startup low cost mechatronics product design of a spring load tester

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Abstract: Springs possess an inevitably prominent position in the vast applications of mechanical systems. Springs have its usage in almost everything ranging from small toys, wrist watches to large dies and vehicles. Startup india is a flagship initiative of the government of india, intended to empower and grow through innovation and design. During innovation, one has to clearly define the problems, needs and specifications of project. Specifications translate the problems and needs into the realization of the project design, subsequent manufacturing, testing and launch of the product in a competitive market. In the present work, a spring load tester has been developed at a much lower than available in the market using mechatronics product design concept. It has no wear and tear, is smaller in size and accuracy is better than other available products in the market. Spring load testing equipment is suitable for use in industry and academic institutions for various practical applications.

Keywords: *spring, stiffness, innovation, mechatronics product design, startups.*