Description:

In the manufacturing of various Machine Components, a number of machining operations are carried out. Hence, it is essential to study the metal cutting process for economical aspects. To investigate the performance of cutting tools during metal cutting, the measurement of cutting forces is essential.

In short, the tool forces measurement i.e. Tool- Dynamometer is as essential tool to analyze the process of metal cutting theoretically. Further, the test results are used to solve shop floor problems such as tool performance, load exerted on the machines, or on the jigs and fixtures.

Technical Specification:

1. **SENSING UNIT:** It consists of M. S. cylinder with strain gauges mounted on it. The unit accurately senses thrust force Fv and feed force Ff independently.
2. **BRIDGE BALANCING UNIT (PANEL): -** It consists of power supply unit, balancing pots for initial zero.
3. **STRAIN GAUGES:**
   QTY – 8 NOS,
   RESISTANCE: - 350 Ω
   GAUGE FACTOR: - 2 ±1
4. **Balance pot (Tare):** ten turn helical potentiometer for balancing channel 1&2.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.