VEL TECH – DR. BALDEV RAJ
NON DESTRUCTIVE TESTING LABORATORY

EDDY CURRENT TESTING

Eddy-current testing is one of many electromagnetic testing methods used in nondestructive testing (NDT) making use of electromagnetic induction to detect and characterize surface and sub-surface flaws in conductive materials.

The facility includes wide range of equipment's like:

Eddy current flaw detector NORTEC 600 (Olympus make):

The high-performance, state-of-the-art electronics and unique vibrant display with outstanding signal performance makes the NORTEC 600 an ideal instrument for real-world applications such as surface inspection, wheel inspection, bolt hole testing, conductivity and coating thickness measurements, and weld inspection.

Eddy current flaw detector NORTEC 600 (Olympus make)

Probes:

The **probe** plays two important roles: it induces the **eddy currents**, and it senses the distortion of their flow caused by defects. Design of **probe** / sensor is an important task and a variety of aspects such as component geometry, impedance matching, magnetic field focusing, and environment etc. Some of the probes like:

- SI.No.K19278, P/N 9222164.01-100 to 500KHz
- SI.No.K20101, P/N 9403399-200Khz to 1MHz
- SI.No.K19040, P/N 9222341 480KHz with cable