

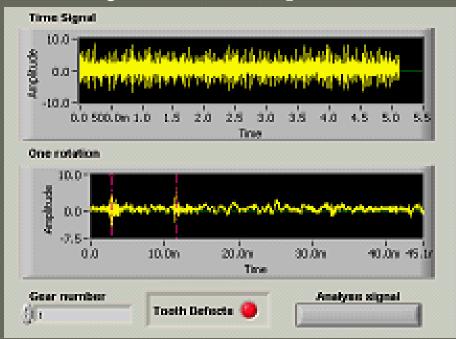






Introduction:

Gearboxes play a vital role in the power transmission chain. Their untimely failure can lead to unplanned machine downtime. Hence, Gearbox condition monitoring is of critical importance to both manufacturers and users





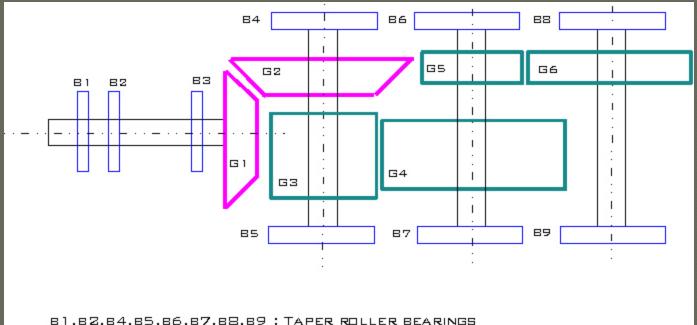
We, at Quantum Age, have developed a data acquisition, analysis and presentation system which helps engineers to better monitor and plan their maintenance schedule.

The system detects and rates the following defects:

- · Eccentricity
- · Backlash
- · Tooth defects
- · Misalignment
- · Bearing defects
- · Imbalance
- · Mechanical Looseness
- · Stator/Rotor Defects
- · Rubbing



Gear Schematic



81,82,84,85,86,87,88,89 : TAPER ROLLER BEARINGS

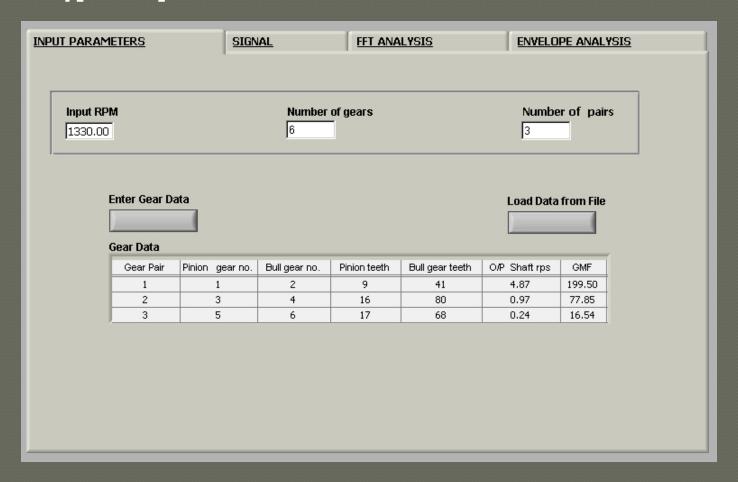
B3: SPHERICAL ROLLER BEARINGS

G1,G2 :BEVEL GEARS

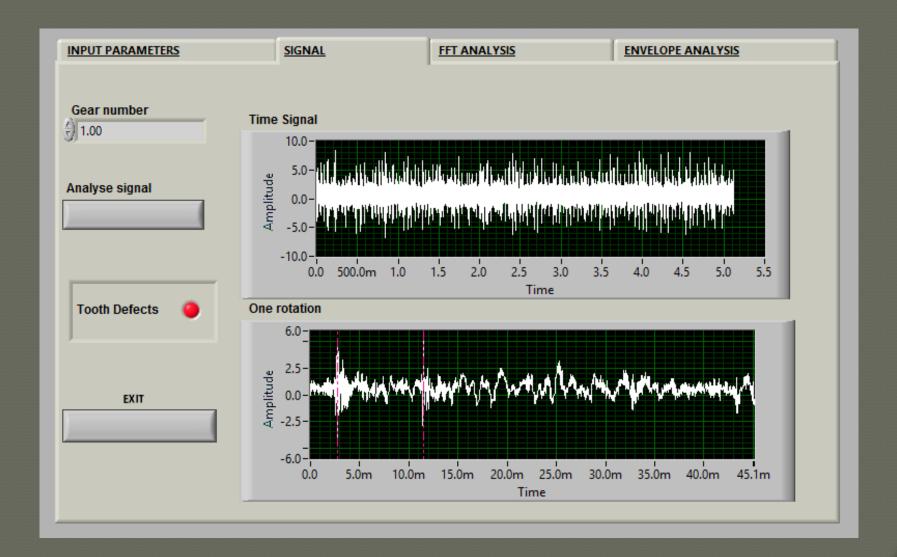
G3,G4,G5,G6 :HELICAL GEARS



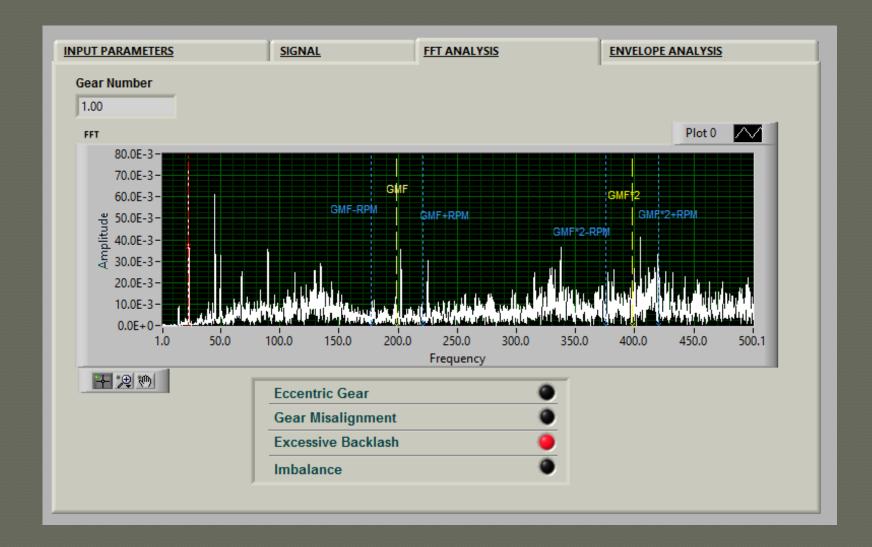
Typical Input Parameters



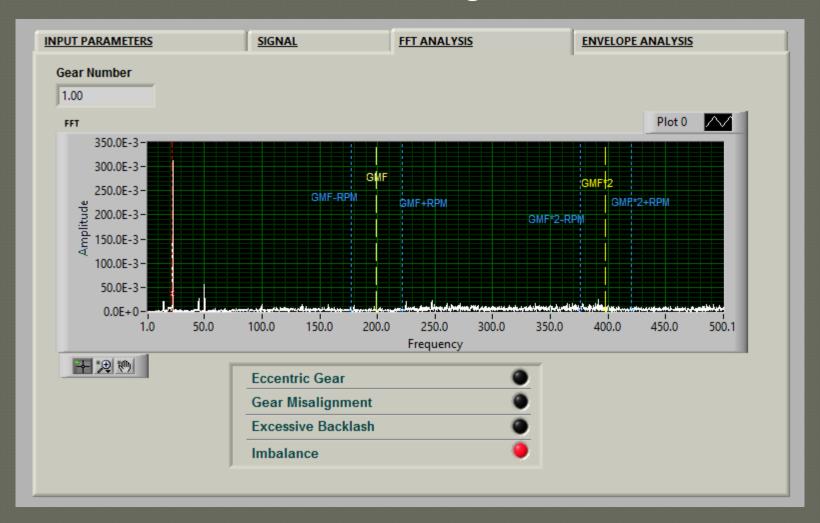














Thanks