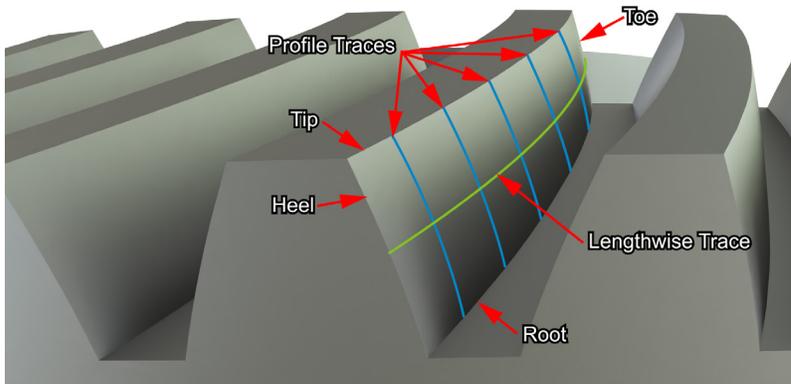


# Gear Chart Interpretation: Elemental Measurements on Bevel Gears

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## Learning Made Simple, Visual, and Interactive

The THORS *Gear Chart Interpretation: Elemental Measurements on Bevel Gears* explains the elemental measurement parameters used to evaluate bevel gears. This course introduces all the critical parameters that must be measured to ensure gear accuracy, along with the various methods used to perform these measurements.

Credit Hours **2**

## Learning Objectives

- 💡 Define the elemental measurement parameters.
- 💡 Understand the importance of measuring each elemental measurement parameter.
- 💡 Describe the methods used for pitch deviation and total runout deviation measurement on bevel gears.
- 💡 Differentiate the two methods used to measure tooth form deviation on bevel gears.
- 💡 Explain the common method used to measure tooth thickness deviation.

## Table of Contents

### I. Measurement Parameters

- Pitch Deviation
  - ▣ Single Pitch Deviation
  - ▣ Total Cumulative Pitch Deviation
- Total Runout Deviation
- Tooth Form Deviation
- Tooth Thickness Deviation

### II. Measurement Methods

- Pitch Deviation Measurement
  - ▣ Indexing Method
  - ▣ Comparator Method
- Total Runout Deviation Measurement
- Tooth Form Deviation Measurement
  - ▣ Grid Point Method
    - Tooth Form Reference Data
    - Grid Point Measurement
    - Interpreting Results
  - ▣ Tooth Trace Method
- Tooth Thickness Deviation Measurement

