

SPRINGS & GEARS

Objectives:

At the end of the lesson, the learners can:

- Define and identify types of springs and gears.
- Define, identify and label the parts of spur gear.
- Draw spur gear.
- Analyze and interpret gear specification.
- Develop accuracy, neatness, speed and good working habits & attitudes.

Materials Needed:

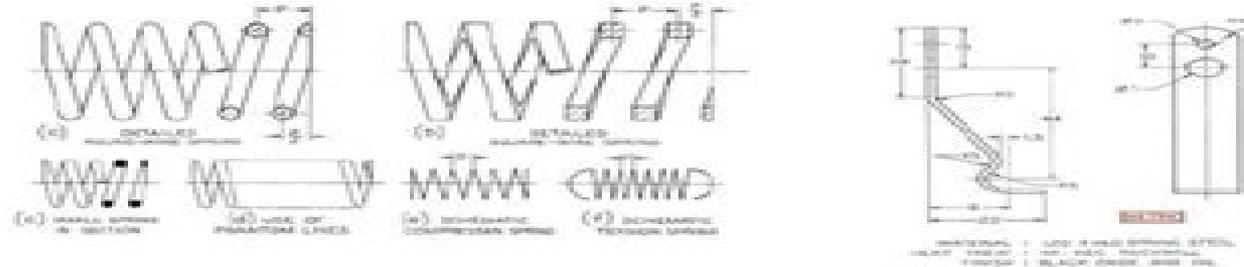
T-Square
Pencil
Eraser
30° x 60° & 45° x 90° Triangle
Protractor
Ruling Pen or Technical Pen (0.2, 0.5,
0.8 & 1.2)

Ink
Compass
Drawing Paper (Cartolina, Board
Paper Long and/or Tracing Paper)
And other materials as needed

Lesson 1. SPRINGS

A **spring** is a mechanical device designed to store energy when deflected and to return the equivalent amount of energy when released. Springs are commonly made of spring steel. Which may be music wire, hard-drawn wire, or oil-tempered wire. Other materials used for compression springs include stainless steel, beryllium copper, phosphor bronze. In addition, compression springs made of urethane plastic are used in applications where conventional springs would be affected by corrosion, vibration, or acoustic or magnetic forces. Springs are classified as **helical springs** or **flat springs**. Helical springs may be cylindrical or conical but are usually the former.

There are three types of helical springs: **compression springs**, which offer resistance to a compressive force; **extension springs**, which offer resistance to a pulling force; and **torsion springs**, which offer resistance to a torque or twisting force.



1. Helical Springs

a. Compression Springs

Compression Springs are open-coil helical springs wound or constructed to oppose compression along the axis of wind. Helical Compression is the most common metal spring configuration. These coil springs can work independently, though often assembled over a guide rod or fitted inside a



Fig. 3 Compression

Gears Drafting Manual

Emilie Sanchez



Gears Drafting Manual:

Gears Drafting Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Gears Drafting Manual**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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