

## SPRINGS & GEARS

### Objectives:

At the end of the lesson, the learners can:

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

### Materials Needed:

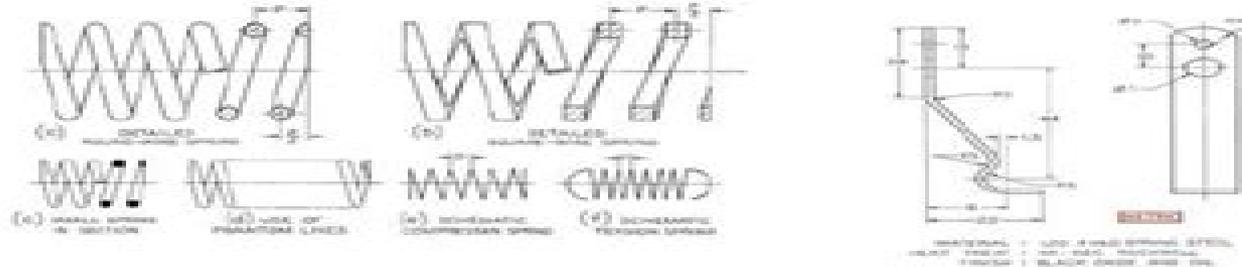
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Pencil  
Eraser  
30° x 60° & 45° x 90° Triangle  
Protractor  
Ruling Pen or Technical Pen (0.2, 0.5,  
0.8 & 1.2)

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

**B Lingard**



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