

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:

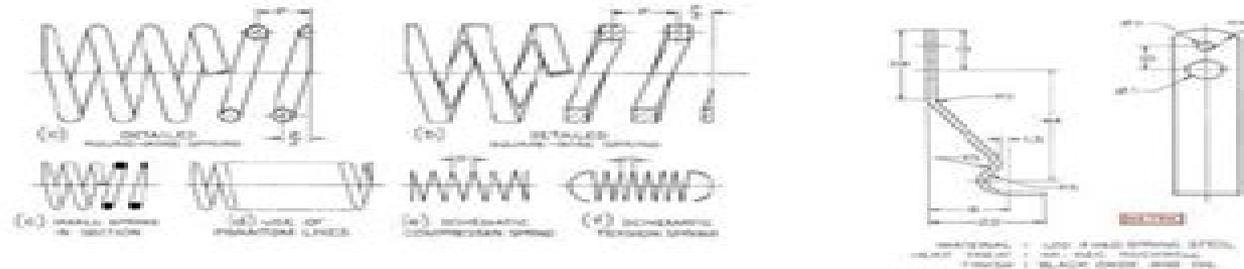
T-Square
Pencil
Eraser
30° x 60° & 45° x 90° Triangle
Protractor
Ruling Pen or Technical Pen (0.2, 0.5,
0.8 & 1.2)

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

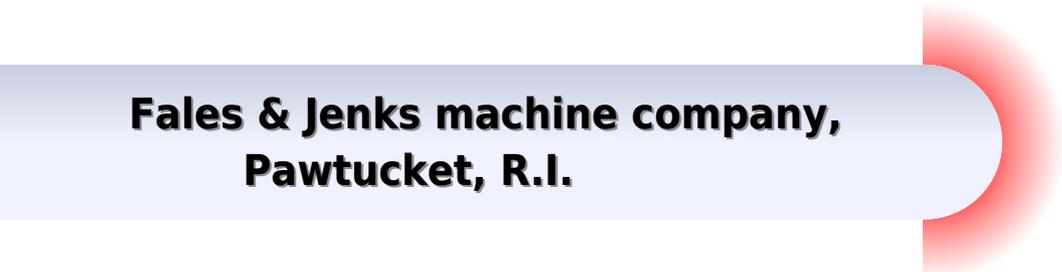
Compression Springs are open-coil helical springs wound or constructed to oppose compression along the axis of wind. Helical Compression is the most common metal spring configuration. These coil springs can work independently, though often assembled over a guide rod or fitted inside a



Fig. 3 Compression

Gears Drafting Manual

**Fales & Jenks machine company,
Pawtucket, R.I.**



Gears Drafting Manual:

Handbook of Practical Gear Design Stephen P. Radzevich, Darle W. Dudley, 1994-10-21 For more than 30 years the book Practical Gear Design later re titled Handbook of Practical Gear Design has been the leading engineering guide and reference on the subject It is now available again in its most recent edition The book is a detailed practical guide and reference to gear technology The design of all types of gears is covered from those for small mechanisms to large industrial applications The presentation is designed for easy reference for those involved in practical gear design manufacture applications and problem solving The text is well illustrated with clear diagrams and photographs The many tables provide needed reference data in convenient form

Dudley's Handbook of Practical Gear Design and Manufacture Stephen P. Radzevich, 2016-09-15 Dudley s Handbook of Practical Gear Design Manufacture Third Edition is the definitive reference work for gear design production inspection and application This fully updated edition provides practical methods of gear design and gear manufacturing methods for high medium and low volume production Comprehensive tables and references are included in the text and in its extensive appendices providing an invaluable source information for all those involved in the field of gear technology

American Standard American Drafting Standards Manual American Standards Association, 1958

Dudley's Handbook of Practical Gear Design and Manufacture, Second Edition Stephen P. Radzevich, 2012-04-02 A unique single source reference for all aspects of gears Dudley s Handbook of Practical Gear Design and Manufacture Second Edition provides comprehensive and consistent information on the design and manufacture of gears for the expert and novice alike The second edition of this industry standard boasts seven new chapters and appendices as well as a wealth of updates throughout New chapters and expanded topics include Gear Types and Nomenclature Gear Tooth Design Gear Reactions and Mountings Gear Vibration The Evolution of the Gear Art Novikov Gearing and the Inadequacy of the Term and thoroughly referenced Numerical Data Tables Features Offers a single source reference for all aspects of the gear industry Presents a comprehensive and self consistent collection of knowledge practical methods and numerical tables Discusses optimal design and manufacture of gears of all known designs for the needs of all industries Explains concepts in accessible language and with a logical organization making it simple to use even by beginners in the field Provides adequate recommendations for gear practitioners in all areas of gear design production inspection and application Includes practical examples of successful use of tools covered in the Handbook Logically organized and easily understood the Handbook requires only a limited knowledge of mathematics for adequate application to almost any situation or question Whether you are a high volume gear manufacturer or a relatively small factory the Handbook and some basic common sense can direct the sophisticated design of any type of gear from the selection of appropriate material production of gear blanks cutting gear teeth advanced methods of heat treatment and gear inspection No other sources of information are necessary for the gear designer or manufacturer once they have the Handbook

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