

APPLIED THERMODYNAMICS

TUTORIAL 2

GAS COMPRESSORS

In order to complete this tutorial you should be familiar with gas laws and polytropic gas processes.

You will study the principles of reciprocating compressors in detail and some principles of rotary compressors. On completion you should be able to do the following.

- Describe the working principles of reciprocating compressors.
- Define and calculate swept volume.
- Define and calculate volumetric efficiency.
- Define and calculate isothermal efficiency.
- Define and calculate indicated power.
- State the benefits of cooling.
- Calculate the heat rejected through cooling.
- Define and calculate the interstage pressures for multiple compressors.
- Define polytropic efficiency.

Let's start by considering the general use of compressed air.

Applied Thermodynamics Tutorial 2 Gas Compressors Study

Daniela Niemeyer



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Journal of Electricity, Power, and Gas ,1911 *SAE Aerospace Applied Thermodynamics Manual* Society of Automotive Engineers. Committee AC-9, Aircraft Environmental Systems,1969 **Elements of Heat-power Engineering: Thermodynamics and prime movers** Clarence Floyd Hirshfeld,William Nichols Barnard, Frank Oakes Ellenwood,1926

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