

## Engineering Formulas

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Cylinder Blind End Area = 28.26 square inches. Pounds of Force Needed / Cylinder Area = 50,000 / 28.26 = 1,769.29 PSI. What pressure is needed to develop 50,000 pounds of pull force from a 6 diameter cylinder which has a 3: diameter rod? Pounds of Force = 50,000 pounds. Cylinder Rod End Area = 21.19 square inches.

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Engineering Formula Sheet  
Efficiency Of DC Motor: Electrical Efficiency: e = Converted power in armature / Input electrical Power. Mechanical Efficiency: m = Converted power in armature / output mechanical power. Overall Efficiency: = Output mechanical Power / Input electrical Power. = (Input Power – Total losses) / Input Power. Where.

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Electric energy is power multiplied with time: W = P t (5) where. W = energy (Ws, J) t = time (s) Alternative - power can be expressed. P = W / t (5b) Power is consumption of energy by consumption of time.

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Basic Voltage, Current, Power and Resistance Formulas in AC and DC Circuits. Following are the electrical engineering formulas and equations for the basic quantities i.e. current, voltage, power, resistance and impedance in both DC and AC circuits (single phase and three phase).

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