

## 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:  $\eta_e$  = Converted power in armature / Input electrical Power. Mechanical Efficiency:  $\eta_m$  = Converted power in armature / output mechanical power. Overall Efficiency:  $\eta$  = Output mechanical Power / Input electrical Power.  $\eta$  = (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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