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 $V_c$  = cylinder swept volume [ $\text{cm}^3$  (cc) or L]  $A_c$  = cylinder area [ $\text{cm}^2$  or  $\text{cm}^2 / 100$ ]  $d_c$  = cylinder diameter [ $\text{cm}$  or  $\text{cm}/10$ ]  $L$  = stroke length (the distance between the TDC and BDC) [ $\text{cm}$  or  $\text{cm}/10$ ]  
BDC = Bottom Dead Center. TDC = Top Dead Center.

## Engine Formulas

engines. and to describe what actually Internal Combustion Engine is. What are its main components and structure. How the engine indeed operates. Also

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$V_c$  = cylinder swept volume [ $\text{cm}^3$  (cc) or L].  $A_c$  = cylinder area [ $\text{cm}^2$  or  $\text{cm}^2/100$ ].  $d_c$  = cylinder diameter [ $\text{cm}$  or  $\text{cm}/10$ ].  $L$  = stroke length (the distance between the TDC and BDC) [ $\text{cm}$  or  $\text{cm}/10$ ]. BDC = Bottom Dead Center TDC = Top Dead. Page 11/28. Download File PDF Diesel Engine Design Calculations.

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## **Diesel Engine Fundamentals**

1 ci. = 16.39 cc. Piston Acceleration.  $G_{max} = \left( \frac{N^2 \times L}{2189} \right) \times \left( 1 + \frac{1}{2A} \right)$   $G_{max}$  is maximum piston acceleration, in feet per second squared. N is crankshaft speed, in RPM. L is stroke, in inches. A is the ratio of connecting rod length, between centers, to stroke. Piston Stroke Motion.  $S = R \cos X + L \cos Z$ .

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