

ABSTRACT

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Gear is one of the most critical components in a mechanical power transmission system, and in most industrial rotating machinery. It is possible that gears will predominate as the most effective means of transmitting power in future machines due to their high degree of reliability and compactness. In addition, the rapid shift in the industry from heavy industries such as shipbuilding to industries such as automobile manufacturing and office automation tools will necessitate a refined application of gear technology. Design the spur gear model using design software. By the impact analysis and torque loading of cast steel and composite materials. Finally, comparing the analysis results of the composite gear (with the existing steel gear is to be done). In this project, we compare the gear wheel with two different materials such as structural steel and Aluminium silicon carbide.