

Gear Less Power Transmission System: Case Study

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Abstract: *In modern machineries, the motion and power need to be transferred from one shaft to other for various and complex activities. Also, it is essential to achieve such objectives with maximum efficiency and minimum cost. For transmitting power between different orientations of shaft, various medium like belt, chain and especially gears are used. But due to cost of manufacture of gear, interchangeability in parts and very limited shaft orientations, need arises for an alternative system. In this project a Gearless power transmission system has been studied, a possible gearless power transmission layout is designed and developed where it can transmit power from one shaft to other without any gear being used. This project deals with transmission of power from one shaft to other at right angle by means of sliding links that form revolute pair with the hub.*

Keywords: Gearless drive, Power transmission, Sliding links, Elbow power transmission.

