

90 Degree Steering System

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Abstract: *The increase of the maneuverability when parking the vehicle is achieved by means of 4-wheel steering, meanwhile the increase of the driving stability at higher speeds is achieved through concordant steering front wheels. A disadvantage of this so-called passive steering system is that it operates even when driving in a straight direction when a single wheel of an axle hits surface irregularity. In this project we made a frame from a square bar. Arrange steering system at front and rear side. When the steering wheel is rotated, the bevel gear will be rotated. Bevel gear is used to transmit vertical motion into horizontal rotating motion. Bevel gear drive shaft provides the same rpm to pinion. Pinion will rotate the rack at the both end of the rack two pinion is meshed due to linear motion of the rack direct angular motion given to the end racks each of the end rack have the steering linkages are provided.*

Keywords: Bevel Gear, Pinion, Drive Shaft, etc.

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