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web technical data and calculations preload dependent frictional drag fr_1 ball runner blocks n normal on ball guide rail with cover strip ball runner blocks l long on ball guide rail with cover strip load dependent frictional drag fr_2 component mass m_{co} thrust force of travel axis f_l thrust force of stroke axis f_l

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web design and fabrication of rack and pinion lift thirugnanam praphul das and lenin rakesh department of mechanical engineering bharath institute of science and technology p o 600073 chennai india abstract a rack and pinion lift is composed of two gears and a rack and pinion arrangement