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pinion z 1 20 gear z 2 40 reference diameter of pinion d 1 20 2 40 reference diameter of gear d 2 40 2 80 center distance a
40 80 2 60 c 0 25 2 0 5

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travelling operation mass to be moved m 820 kg

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teeth this pinion engages a linear gear the rack to convert rotational motion into translational motion

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racks opposite each other and the teeth surfaces are tangent to the faces the center pinion is a 20 tooth 2 module gear

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pinion to produce the distance of the rack and is commonly used in vehicle and other types of engines and mechanical
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web the minimum number of teeth required on pinion in order to avoid the interference were computed using following

relation $z \geq \frac{1}{\sin^2 \phi} \left(\frac{1}{\cos \phi} + 1 \right)$ substituting values in above equation minimum number of teeth on pinion are 18 standard gear ratio for rack and pinion 1.5 therefore no. of teeth on rack 18 $\times$ 1.5 = 27 $\pm$ 3 selection of

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