



# Everest Collectors Three Volume Gift Boxed Set

**Robert R. Redfield**



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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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web calculation process results a  $a$  m s2 f u m g  $\mu$  m a f u kn permissible feed force f u tab f u zul per f u zul per f 4 05 kn kn  
condition f u zul per f u kn kn fulfilled rack and pinion drive calculation and selection  $v$  t b calculation example values given  
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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90 meters and more from module 1 to 12 rack quality 4 to 10 straight or helical teeth and so on accuracy is the starting point  
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relation  $z \geq \frac{1}{\sin^2 \phi}$  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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