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**22 AUGUST 2022**

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# Limpopo September Physical Science P1 Memorandum 2014

**JR Anderson**



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tie rod helps the wheels to turn by pushing the steering arm  
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ackerman condition for a two wheeled steering is expressed as here track width distance between left and right knuckles

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web rack and pinion calculator the following online calculator computes the basic dimensions and tooth profiles of a meshing rack and pinion based on the pinion s module number of teeth pressure angle usually 20 and profile shift the rack s teeth are trapezoidal while the pinion has an involute tooth profile

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web 1 introduction the function of the steering system is to provide directional control to the vehicle for this a gearbox is used which converts rotational motion of steering wheel into translational motion of tie rod which in turn rotates the tires

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web jul 15 2018 to calculate the amount of travel that the pinion will have across the rack you need to look at the pinion gear as a circle the line of action on the pinion is the pitch diameter so the circumference at this point is the distance that the pinion will travel in one revolution the formula for circumference is

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web jan 2 2019 to determine the maximum rotational speed of the pinion simply divide the maximum linear speed of the application by the pinion circumference  $\pi$  diameter convert from millimeters to meters and convert from seconds linear speed m s or ft s to minutes rotational speed rpm  $n_p$  maximum rotational speed of pinion rpm

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web calculation examples the following are calculations for center distance  $a$  and tip and root clearance  $c$  when module  $m = 2$   
pinion  $z_1 = 20$  gear  $z_2 = 40$  reference diameter of pinion  $d_1 = 20$  reference diameter of gear  $d_2 = 40$  center distance  $a = 40$   
tip clearance  $c = 0.25$

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condition  $F_u$  per  $F_u$  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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web dec 17 2021 what is the optimum distance between a rack and centerline of a pinion in the image below i have two 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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web we can calculate the accuracy of various low backlash gearboxes racks pinions and complete systems from 250 mm up to 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 of the total drive which is why we can provide the calculation and accuracy sheet for your

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relation  $z_2 \sin^2 \phi \geq 1$  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  $18 \times 1.5 = 27$  selection of

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