

Chapter 15

- 15-1** Given: Uncrowned, through-hardened 300 Brinell core and case, Grade 1, $N_C = 10^9$ rev of pinion at $R = 0.999$, $N_P = 20$ teeth, $N_G = 60$ teeth, $Q_v = 6$, $P_d = 6$ teeth/in, shaft angle = 90° , $n_P = 900$ rev/min, $J_P = 0.249$ and $J_G = 0.216$ (Fig. 15-7), $F = 1.25$ in, $S_F = S_H = 1$, $K_v = 1$.

Mesh $d_P = 20/6 = 3.333$ in, $d_G = 60/6 = 10.000$ in

Eq. (15-7): $v_s = \pi(3.333)(900/12) = 785.3$ ft/min

Eq. (15-6): $B = 0.25(12 - 6)^{2.3} = 0.8255$
 $A = 50 + 56(1 - 0.8255) = 59.77$

Eq. (15-5): $K_v = \left(\frac{59.77 + \sqrt{785.3}}{59.77} \right)^{0.4255} = 1.374$

Eq. (15-8): $v_{Lmax} = [59.77 + (6 - 3)]^2 = 3904$ ft/min

Since $785.3 < 3904$, $K_v = 1.374$ is valid. The size factor for bending is:

Eq. (15-10): $K_s = 0.4867 + 0.2132/6 = 0.5222$

For one gear straddle-mounted, the load-distribution factor is:

Eq. (15-11): $K_m = 1.10 + 0.0036(1.25)^2 = 1.106$

Eq. (15-15): $(K_L)_P = 1.6831(10^9)^{-0.0023} = 0.862$
 $(K_L)_G = 1.6831(10^9/3)^{-0.0023} = 0.893$

Eq. (15-14): $(C_L)_P = 3.4822(10^9)^{-0.0002} = 1$
 $(C_L)_G = 3.4822(10^9/3)^{-0.0002} = 1.069$

Eq. (15-19): $K_R = 0.50 - 0.25 \log(1 - 0.999) = 1.25$ (or Table 15-3)
 $C_R = \sqrt{K_R} = \sqrt{1.25} = 1.118$

Bending

Fig. 15-13: $s_w S_t = s_w = 44(300) + 2100 = 15\,300$ psi

Eq. (15-4): $(\sigma_w)_P = s_w = \frac{s_w K_L}{S_F K_v K_s} = \frac{15\,300(0.862)}{1(1)(1.25)} = 10\,551$ psi

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