



Machinist LEVEL 2 Formulas

1. $D = 0.6495 \times P$

2. $(0.125 \times P)$

3. $D = 0.61343 \times P$

4. $D = 0.5413 \times P$

5. $CW = (0.125 \times P)$

6. $BWS = 0.57735 \times \text{pitch}$

7. $PD = \text{Major Diameter} - (0.6495 \times P)$

8. $M = PD - (0.8663 \times P) + 3W$

9. $RPM = \frac{\text{Cutting Speed} \times 4}{D}$

10. $F = N \times CPT \times \text{rpm}$

11. $RPM = CS \times 320/D$

12. $F = N \times (CPT \times \text{rpm})$



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13. Tailstock Offset $\frac{TPF \times \text{Length of work}}{24}$

14. $d = D - \frac{TPF \times TL}{12}$

15. $TL = \frac{(D-d) \times 12}{TPF}$