



Design of Rolling Contact Bearing Formulas

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List of 86 Design of Rolling Contact Bearing Formulas

Design of Rolling Contact Bearing 🕑

Angular Contact Bearing 🕑

1) Axial Load for Back to Back Bearings when Fa by Fr is greater than 1.14

fx
$$\mathbf{F}_{\mathrm{a}} = rac{\mathbf{P}_{\mathrm{b}} - (0.57 \cdot \mathbf{F}_{\mathrm{r}})}{0.93}$$

$$2969.355N = \frac{7350N - (0.57 \cdot 8050N)}{0.93}$$

2) Axial Load for Back to Back Bearings when Fa by Fr is less than or equal to 1.14

fx
$$F_a = \frac{P_{eq} - F_r}{0.55}$$
 Open Calculator (2)
ex $2909.091N = \frac{9650N - 8050N}{0.55}$





Open Calculator

3) Axial Load for Singly Mounted Bearings when Fa by Fr is greater than 1.14

fx
$$\mathrm{F_a} = rac{\mathrm{P_s} - (0.35 \cdot \mathrm{F_r})}{0.57}$$

ex
$$2951.754\mathrm{N} = rac{4500\mathrm{N} - (0.35 \cdot 8050\mathrm{N})}{0.57}$$

4) Equivalent Dynamic Load for Back to Back Bearings when Fa by Fr is greater than 1.14

fx
$$\mathrm{P}_\mathrm{b} = (0.57 \cdot \mathrm{F}_\mathrm{r}) + (0.93 \cdot \mathrm{F}_\mathrm{a})$$

ex 7378.5N = $(0.57 \cdot 8050$ N) + $(0.93 \cdot 3000$ N)

5) Equivalent Dynamic Load for Back to Back Bearings when Fa by Fr is less than or equal to 1.14

fx
$$\left[\mathrm{P}_\mathrm{b} = \mathrm{F}_\mathrm{r} + (0.55 \cdot \mathrm{F}_\mathrm{a})
ight]$$

 $ex 9700N = 8050N + (0.55 \cdot 3000N)$

6) Equivalent Dynamic Load for Singly Mounted Bearings when Fa by Fr is greater than 1.14

fx
$$\mathrm{P_s} = (0.35 \cdot \mathrm{F_r}) + (0.57 \cdot \mathrm{F_a})$$

Open Calculator

Open Calculator 🕑

$$4527.5N = (0.35 \cdot 8050N) + (0.57 \cdot 3000N)$$



Open Calculator

Open Calculator

7) Radial Load for Back to Back Bearings when Fa by Fr greater than 1.14 Open Calculator ${
m F_r} = rac{{
m P_b} - (0.93 \cdot {
m F_a})}{0.57}$ ex $8000\mathrm{N} = rac{7350\mathrm{N} - (0.93 \cdot 3000\mathrm{N})}{}$ 0.578) Radial Load for Back to Back Bearings when Fa by Fr less than or equal to 1.14 Open Calculator fx $\mathrm{F_r} = (\mathrm{P_{eq}} - (0.55 \cdot \mathrm{F_a}))$ ex $8000N = (9650N - (0.55 \cdot 3000N))$ 9) Radial Load for Singly Mounted Bearings when Fa by Fr is greater than 1.14 Open Calculator ${
m F_r} = rac{{
m P_s} - (0.57 \cdot {
m F_a})}{0.35}$

$$\begin{array}{c} \textbf{ex} \end{array} 7971.429 \textbf{N} = \frac{4500 \textbf{N} - (0.57 \cdot 3000 \textbf{N})}{0.35} \end{array}$$



Dynamic and Equivalent Load 🕑

10) Axial Thrust Load on Bearing given Equivalent Dynamic Load 子

$$f_{a} = \frac{P_{b} - (X \cdot V \cdot F_{r})}{Y}$$
Open Calculator (*)
$$1293.6N = \frac{7350N - (0.56 \cdot 1.2 \cdot 8050N)}{1.5}$$
11) Dynamic Load Capacity for Ball Bearing (*)
$$C = P_{b} \cdot \left(L_{10}^{\frac{1}{3}}\right)$$
Open Calculator (*)
$$C = P_{b} \cdot \left(L_{10}^{\frac{1}{3}}\right)$$
12) Dynamic Load Capacity for Bearing given Rated Bearing Life (*)
$$C = P_{b} \cdot \left(L_{10}^{\frac{1}{p}}\right)$$
Open Calculator (*)
$$C = P_{b} \cdot \left(L_{10}^{\frac{1}{p}}\right)$$
Open Calculator (*)
$$C = P_{b} \cdot \left(L_{10}^{\frac{1}{p}}\right)$$
13) Dynamic Load Capacity for Roller Bearing (*)
$$C = P_{b} \cdot \left(L_{10}^{0.3}\right)$$

$$Qpen Calculator (*)$$

$$C = P_{b} \cdot \left(L_{10}^{0.3}\right)$$

$$Qpen Calculator (*)$$

$$Q$$



14) Equivalent Dynamic Load for Bearing given Radial Factor 💪 Open Calculator $\mathbf{f}_{\mathbf{k}} \mathbf{P}_{\mathbf{b}} = (\mathbf{X} \cdot \mathbf{F}_{\mathbf{r}}) + (\mathbf{Y} \cdot \mathbf{F}_{\mathbf{a}})$ $ex 9008N = (0.56 \cdot 8050N) + (1.5 \cdot 3000N)$ 15) Equivalent Dynamic Load for Back to Back Bearings 🗹 Open Calculator fx $P_{b} = (X \cdot V \cdot F_{r}) + (Y \cdot F_{a})$ ex $9909.6N = (0.56 \cdot 1.2 \cdot 8050N) + (1.5 \cdot 3000N)$ 16) Equivalent Dynamic Load for Back to Back Bearings when subjected to Pure Radial Load 🕻 Open Calculator fx ${
m P}_{
m b}=1\cdot{
m F}_{
m r}$ **ex** $8050N = 1 \cdot 8050N$ 17) Equivalent Dynamic Load for Back to Back Bearings when subjected to Pure Thrust Load 💪 fx ${
m P}_{
m b}=1\cdot{
m F}_{
m a}$ Open Calculator



ex $3000N = 1 \cdot 3000N$



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18) Equivalent Dynamic Load for Ball Bearing 🗹

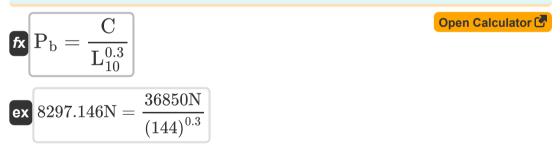
$$fx P_{b} = \frac{C}{L_{10}^{\frac{1}{3}}}$$
Open Calculator
 $rac{P}{}$

19) Equivalent Dynamic Load for Bearing given Rated Bearing Life 🕑

fx
$$P_b = \frac{C}{L_{10}^{\frac{1}{p}}}$$

ex $7030.453N = \frac{36850N}{(144)^{\frac{1}{3}}}$

20) Equivalent Dynamic Load for Roller Bearing 🖸





21) Race Rotation Factor for Bearing given Radial Factor 🕑

$$V = \frac{P_{eq} - (Y \cdot F_{a})}{X \cdot F_{r}}$$
Open Calculator (*)
$$V = \frac{P_{eq} - (Y \cdot F_{a})}{X \cdot F_{r}}$$
ex 1.142413 = $\frac{9650N - (1.5 \cdot 3000N)}{0.56 \cdot 8050N}$
22) Radial Factor of Bearing given Equivalent Dynamic Load (*)
$$X = \frac{P_{eq} - (Y \cdot F_{a})}{V \cdot F_{r}}$$
Open Calculator (*)
$$0.533126 = \frac{9650N - (1.5 \cdot 3000N)}{1.2 \cdot 8050N}$$
23) Radial Load of Bearing given Radial Factor (*)
$$F_{r} = \frac{P_{b} - (Y \cdot F_{a})}{X \cdot V}$$
Open Calculator (*)
$$4241.071N = \frac{7350N - (1.5 \cdot 3000N)}{0.56 \cdot 1.2}$$
24) Thrust Factor on Bearing given Equivalent Dynamic Load (*)
$$Y = \frac{P_{eq} - (X \cdot V \cdot F_{r})}{F_{a}}$$
Open Calculator (*)
$$1.413467 = \frac{9650N - (0.56 \cdot 1.2 \cdot 8050N)}{3000N}$$





Rated Bearing Life 🖸 25) Rated Bearing Life in Hours 🖸 fx $\mathrm{L_{10h}} = \mathrm{L_{10}} \cdot rac{10^6}{60 \cdot \mathrm{N}}$ Open Calculator 🕑 ex $6857.143 = 144 \cdot \frac{10^6}{60 \cdot 350}$ 26) Rated Bearing Life in Million Revolutions for Ball Bearings 💪 Open Calculator $\left| \mathrm{L}_{10} = \left(rac{\mathrm{C}}{\mathrm{P}_{\mathtt{L}}}
ight)^3
ight|$ ex $126.0232 = \left(\frac{36850N}{7350N}\right)^3$ 27) Rated Bearing Life in Million Revolutions for Roller Bearings 🕑 Open Calculator fx $L_{10} = \left(\frac{C}{P_{\text{L}}}\right)^{\frac{10}{3}}$ ex $215.6919 = \left(\frac{36850\mathrm{N}}{7350\mathrm{N}}\right)^{\frac{10}{3}}$



28) Rated Bearing Life in Million Revolutions given Bearing Speed 🗹

fx
$$L_{10} = 60 \cdot N \cdot \frac{L_{10h}}{10^6}$$

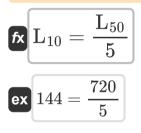
ex $168 = 60 \cdot 350 \cdot \frac{8000}{10^6}$

29) Rated Bearing Life in Million Revolutions given Dynamic Load Capacity

fx
$$L_{10} = \left(\frac{C}{P_b}\right)^p$$

ex $126.0232 = \left(\frac{36850N}{7350N}\right)^3$

30) Rated Bearing Life in Million Revolutions given Median Life 🕑



Open Calculator 🕑

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31) Rated Bearing Life in Million Revolutions given Nominal Life 🕑

$$f_{\mathbf{Z}} L_{10} = \left(\frac{1000}{\pi \cdot D}\right) \cdot L_{10s}$$

$$e_{\mathbf{X}} 144.6863 = \left(\frac{1000}{\pi \cdot 880 \text{ mm}}\right) \cdot 0.4$$
Rolling Contact Bearing Configuration C
32) Axial Thrust Load on Bearing given Race Rotation Factor C

$$f_{\mathbf{X}} F_{\mathbf{a}} = \frac{P_{eq} - (\mathbf{X} \cdot \mathbf{V} \cdot \mathbf{F}_{r})}{\mathbf{Y}}$$

$$e_{\mathbf{X}} 2826.933N = \frac{9650N - (0.56 \cdot 1.2 \cdot 8050N)}{1.5}$$

$$33) Axial Thrust Load on Bearing given Thrust Factor C
$$f_{\mathbf{X}} F_{\mathbf{a}} = \frac{P_{eq} - (\mathbf{X} \cdot \mathbf{F}_{r})}{\mathbf{Y}}$$

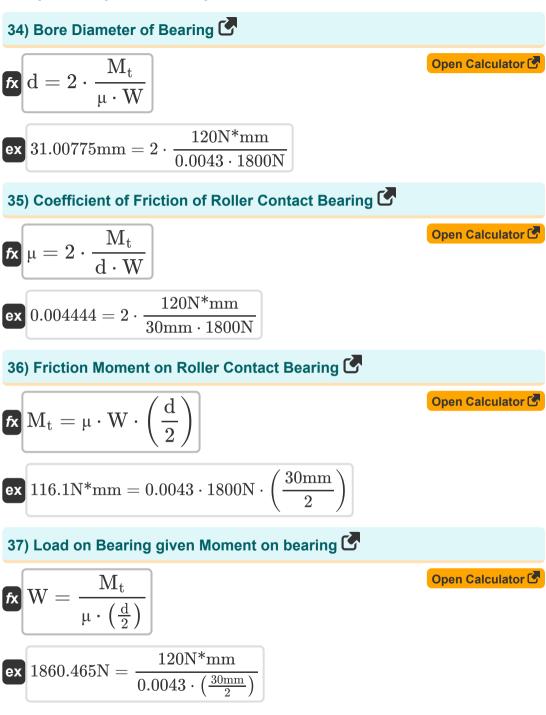
$$e_{\mathbf{X}} 2826.933N = \frac{9650N - (0.56 \cdot 1.2 \cdot 8050N)}{1.5}$$

$$g_{\mathbf{X}} F_{\mathbf{a}} = \frac{P_{eq} - (\mathbf{X} \cdot \mathbf{F}_{r})}{\mathbf{Y}}$$

$$e_{\mathbf{X}} 3428N = \frac{9650N - (0.56 \cdot 8050N)}{1.5}$$$$

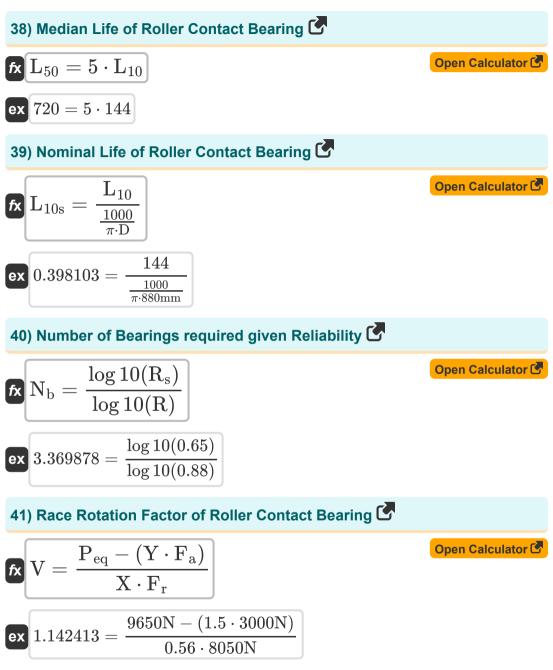


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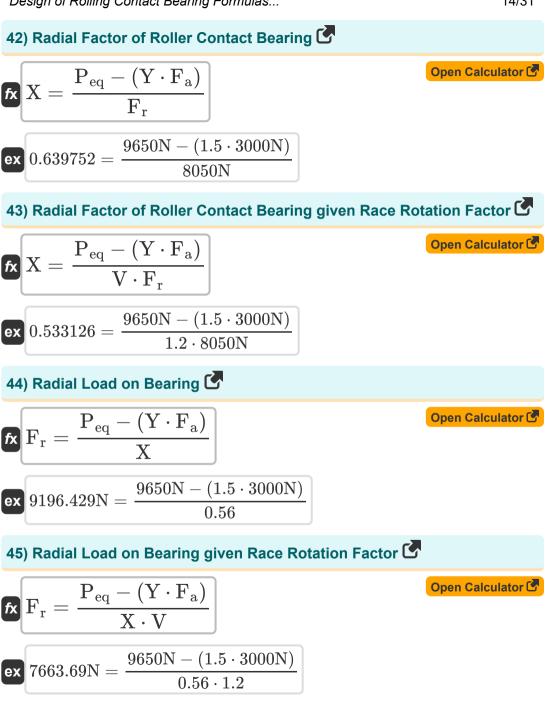


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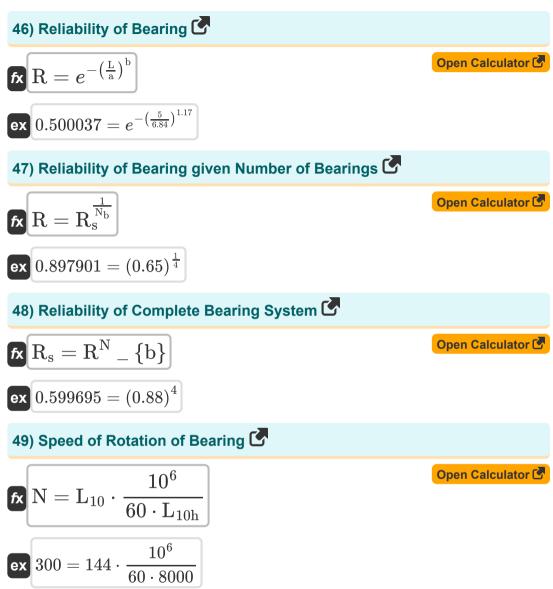






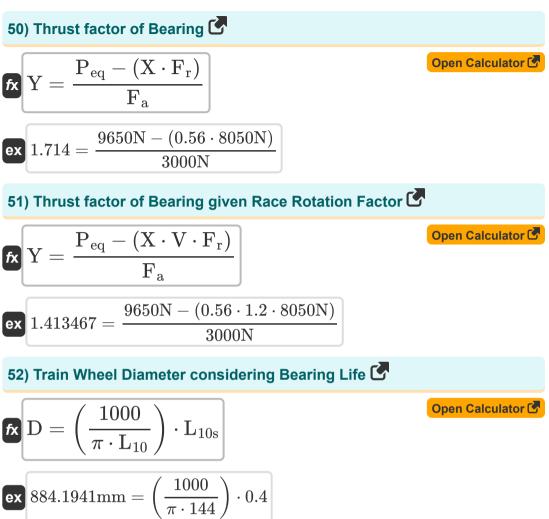


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Self Aligning Ball Bearings 🕑

53) Axial Thrust Load on Self Aligning Ball Bearing when Fa by Fr is greater than e

fx
$$\mathbf{F}_{\mathrm{a}} = rac{\mathrm{Peq}_{\mathrm{sa}} - (0.65 \cdot \mathbf{F}_{\mathrm{r}})}{\mathrm{Y}_{2}}$$

ex
$$3341.667\mathrm{N} = rac{12250\mathrm{N} - (0.65 \cdot 8050\mathrm{N})}{2.1}$$

54) Axial Thrust Load on Self Aligning Ball Bearing when Fa by Fr is less than or equal to e

$$\mathbf{fx} \mathbf{F_a} = \frac{\mathbf{Peq_{sa}} - \mathbf{F_r}}{\mathbf{Y_1}}$$

$$\mathbf{ex} \ 3000 \mathbf{N} = \frac{12250 \mathbf{N} - 8050 \mathbf{N}}{1.4}$$

55) Equivalent Dynamic Load on Self Aligning Ball Bearing when Fa by Fr is greater than e

$$\mathrm{Peq}_{\mathrm{sa}} = (0.65 \cdot \mathrm{F_r}) + (\mathrm{Y}_2 \cdot \mathrm{F_a})$$

Open Calculator

$$imes 11532.5 \mathrm{N} = (0.65 \cdot 8050 \mathrm{N}) + (2.1 \cdot 3000 \mathrm{N})$$

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Open Calculator

Open Calculator



56) Equivalent Dynamic Load on Self Aligning Ball Bearing when Fa by Fr is less than or equal to e

fx
$$\operatorname{Peq}_{\operatorname{sa}} = \operatorname{F}_{\operatorname{r}} + (\operatorname{Y}_1 \cdot \operatorname{F}_{\operatorname{a}})$$

Open Calculator

Open Calculator

ex $12250N = 8050N + (1.4 \cdot 3000N)$

57) Factor Y1 of Self Aligning Ball Bearing when Fa by Fr is less than or equal to e

fx
$$Y_1 = rac{\mathrm{Peq}_{\mathrm{sa}} - \mathrm{F_r}}{\mathrm{F_a}}$$
 ex $1.4 = rac{12250\mathrm{N} - 8050\mathrm{N}}{3000\mathrm{N}}$

58) Factor Y2 of Self Aligning Ball Bearing when Fa by Fr is greater than e

fx
$$egin{array}{l} \mathbf{Y}_2 = rac{\mathrm{Peq}_{\mathrm{sa}} - (0.65 \cdot \mathrm{F_r})}{\mathrm{F_a}} \end{array}$$

ex $2.339167 = rac{12250 \mathrm{N} - (0.65 \cdot 8050 \mathrm{N})}{3000 \mathrm{N}}$

Open Calculator 🗗





59) Radial Load on Self Aligning Ball Bearing when Fa by Fr greater than e

fx
$$\mathbf{F}_{\mathrm{r}} = rac{\mathrm{Peq}_{\mathrm{sa}} - (\mathrm{Y}_{2} \cdot \mathrm{F}_{\mathrm{a}})}{0.65}$$

ex
$$9153.846N = rac{12250N - (2.1 \cdot 3000N)}{0.65}$$

60) Radial Load on Self Aligning Ball Bearing when Fa by Fr is less than or equal to e

fx
$$\mathrm{F_r} = \mathrm{Peq}_\mathrm{sa} - (\mathrm{Y}_1 \cdot \mathrm{F}_\mathrm{a})$$

ex $8050N = 12250N - (1.4 \cdot 3000N)$

Spherical Roller Bearing 🕑

61) Axial Thrust Load on Spherical Roller Bearing when Fa by Fr is greater than e

$$f_{X} F_{a} = \frac{Peq_{sp} - (0.67 \cdot F_{r})}{Y_{2}}$$

$$e_{X} 3074.524N = \frac{11850N - (0.67 \cdot 8050N)}{2.1}$$

$$Open Calculator C$$



Open Calculator 🖸

Open Calculator

62) Axial Thrust Load on Spherical Roller Bearing when Fa by Fr is less than or equal to e

$$fx F_{a} = \frac{Peq_{sp} - F_{r}}{Y_{1}}$$

$$ex 2714.286N = \frac{11850N - 8050N}{1.4}$$

$$fx F_{a} = \frac{11850N - 8050N}{1.4}$$

$$fx F_{a} = \frac{11850N - 8050N}{1.4}$$

$$\mathbf{x} \left[\mathrm{Peq}_\mathrm{sp} = (0.67 \cdot \mathrm{F_r}) + (\mathrm{Y}_2 \cdot \mathrm{F_a})
ight] \, ,$$

ex $11693.5N = (0.67 \cdot 8050N) + (2.1 \cdot 3000N)$

64) Equivalent Dynamic Load on Spherical Roller Bearing when Fa by Fr is less than equal to e

fx
$$\operatorname{Peq}_{\mathrm{sp}} = \mathrm{F}_{\mathrm{r}} + (\mathrm{Y}_1 \cdot \mathrm{F}_{\mathrm{a}})$$

Open Calculator 🗗

Open Calculator

 $\begin{array}{c} \textbf{ex} \ 12250 \text{N} = 8050 \text{N} + (1.4 \cdot 3000 \text{N}) \end{array}$

65) Factor Y1 of Spherical Roller Bearing when Fa by Fr is less than or equal to e

fx
$$Y_1 = \frac{Peq_{sp} - F_r}{F_a}$$

ex $1.266667 = \frac{11850N - 8050N}{3000N}$





Open Calculator 🕑

66) Factor Y2 of Spherical Roller Bearing when Fa by Fr is greater than e ዮሳ Open Calculator $\mathrm{Y}_{2} = rac{\mathrm{Peq}_{\mathrm{sp}} - (0.67 \cdot \mathrm{F_{r}})}{2}$ $\mathbf{F}_{\mathbf{a}}$ ex $2.152167 = rac{11850 \mathrm{N} - (0.67 \cdot 8050 \mathrm{N})}{3000 \mathrm{N}}$ 67) Radial Load on Spherical Roller Bearing when Fa by Fr greater than e **በ**ሳ Open Calculator $\mathrm{F_r} = rac{\mathrm{Peq_{sp}} - (\mathrm{Y_2} \cdot \mathrm{F_a})}{0.67}$ $8283.582N = \frac{11850N - (2.1 \cdot 3000N)}{2}$ ex 0.67 68) Radial Load on Spherical Roller Bearing when Fa by Fr is less than equal to e fx $\mathbf{F}_{\mathrm{r}} = \mathrm{Peq}_{\mathrm{sp}} - (\mathbf{Y}_{1} \cdot \mathbf{F}_{\mathrm{a}})$ Open Calculator

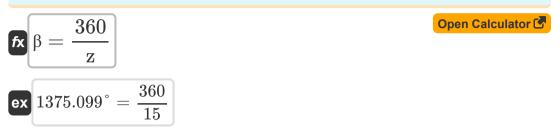
 $ex 7650N = 11850N - (1.4 \cdot 3000N)$



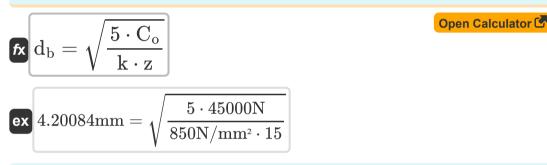
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Stribeck's Equation 🕑

69) Angle between adjacent Balls of Ball Bearing 🗹



70) Diameter of Ball of Bearing from Stribeck's Equation



71) Diameter of Ball of Bearing given Force required to produce Permanent Deformation in Ball

fx
$$d_b = \sqrt{\frac{F}{k}}$$

ex $4.20084mm = \sqrt{\frac{15000N}{850N/mm^2}}$





72) Force required to produce Permanent Deformation of Balls of Ball Bearing

fx
$$\mathbf{F} = \mathbf{k} \cdot \mathbf{d}_{\mathrm{b}}^2$$

Open Calculator 🖸

ex
$$14994\mathrm{N} = 850\mathrm{N/mm^2} \cdot (4.2\mathrm{mm})^2$$

73) Force required to produce Permanent Deformation of Balls of Ball Bearing given Static Load

fx
$$\mathbf{F} = 5 \cdot \frac{\mathbf{C}_{o}}{\mathbf{z}}$$

ex $15000 \mathrm{N} = 5 \cdot \frac{45000 \mathrm{N}}{15}$

74) K Factor for Ball Bearing from Stribeck's Equation 🗹

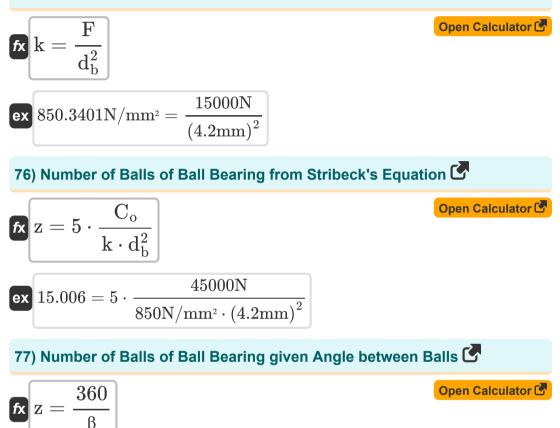
fx
$$\mathbf{k} = 5 \cdot \frac{\mathbf{C_o}}{\mathbf{d}_b^2 \cdot \mathbf{z}}$$

ex $850.3401 \text{N/mm}^2 = 5 \cdot \frac{45000 \text{N}}{(4.2 \text{mm})^2 \cdot 15}$

Open Calculator 🕑



75) K Factor for Ball Bearing given Force required to produce Permanent Deformation of Balls



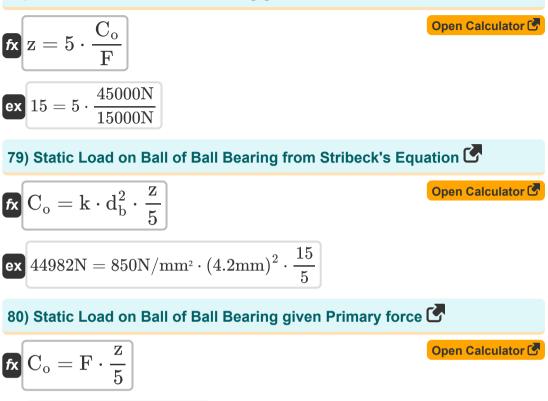
ex
$$859.4367 = \frac{360}{24°}$$





ex $45000N = 15000N \cdot \frac{15}{5}$

78) Number of Balls of Ball Bearing given Static Load 🕑







Taper Roller Bearing 🕑

81) Axial Thrust Load on Taper Roller Bearing when Fa by Fr is greater than e

fx
$$\mathbf{F}_{\mathrm{a}} = rac{\mathrm{Pb}_{\mathrm{t}} - (0.4 \cdot \mathrm{F}_{\mathrm{r}})}{\mathbf{V}}$$

$$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \hline \end{array} \\ 3000 \mathrm{N} = \frac{7720 \mathrm{N} - (0.4 \cdot 8050 \mathrm{N})}{1.5} \end{array} \end{array} \end{array}$$

82) Equivalent Dynamic Load on Taper Roller Bearing when Fa by Fr is greater than e

fx
$$\mathrm{Pb_t} = (0.4 \cdot \mathrm{F_r}) + (\mathrm{Y} \cdot \mathrm{F_a})$$

ex
$$7720N = (0.4 \cdot 8050N) + (1.5 \cdot 3000N)$$

83) Radial Load on Taper Roller Bearing when Fa by Fr is greater than e 🛃

fx
$$F_r = rac{Pb_t - (Y \cdot F_a)}{0.4}$$



Open Calculator 🗗

Open Calculator

Open Calculator 🕑



86) Rotational Speed of Bearing given Maximum Axial Load and Maximum Load Factor

fx
$$N = 1000 \cdot \sqrt{rac{\mathrm{F}_{\mathrm{min}}}{\mathrm{A}}}$$

ex $350.07 = 1000 \cdot \sqrt{rac{0.25\mathrm{N}}{2.04}}$

Open Calculator





Variables Used

- **a** Constant a of Bearing
- A Minimum Load Factor
- b Constant b of Bearing
- C Dynamic Load Capacity of Bearing (Newton)
- Co Static Load on Bearing (Newton)
- **d** Bore Diameter of Bearing (Millimeter)
- D Train Wheel Diameter (Millimeter)
- **d**_b Ball Diameter of a Bearing (*Millimeter*)
- **F** Force on Ball Bearing (Newton)
- **F**_a Axial or Thrust Load Acting on Bearing (Newton)
- Fmin Minimum Axial Load Thrust Bearing (Newton)
- **F**_r Radial Load Acting on Bearing (*Newton*)
- **k** K Factor (Newton per Square Millimeter)
- L Corresponding Life of Bearing
- L₁₀ Rated Bearing Life
- L_{10h} Rated Bearing Life in Hours
- L_{10s} Nominal Life in Millions of Kilometers
- L₅₀ Median Life of Bearing
- M_t Friction Moment on Bearing (Newton Millimeter)
- N Speed of Bearing in RPM
- N_b Number of Bearings
- p Constant p of Bearing



- Pb Equivalent Dynamic Load on Back to Back Bearing (Newton)
- **P**eg Equivalent Dynamic Load on Bearing (Newton)
- **P**_s Equivalent dynamic load on singly bearing (*Newton*)
- **Pb_t** Equivalent Dynamic Load on Taper Bearing (Newton)
- **Peq_{sa}** Equivalent Dynamic Load on Self Aligning Bearing (Newton)
- **Peq_{sp}** Equivalent Dynamic Load on Spherical Bearing (*Newton*)
- **R** Reliability of Bearing
- R_s Reliability of Bearing System
- V Race-Rotation Factor
- W Load Acting on Bearing (Newton)
- X Radial Factor
- Y Thrust Factor for Bearing
- Y₁ Factor Y1 of Bearing
- Y₂ Factor Y2 of Bearing
- Z Number of Balls in Bearing
- β Angle between Balls of Bearing in Degrees (Degree)
- µ Coefficient of Friction for Bearing





Constants, Functions, Measurements used

- Constant: pi, 3.14159265358979323846264338327950288 Archimedes' constant
- Constant: e, 2.71828182845904523536028747135266249 Napier's constant
- Function: log10, log10(Number) The common logarithm, also known as the base-10 logarithm or the decimal logarithm, is a mathematical function that is the inverse of the exponential function.
- Function: sqrt, sqrt(Number) A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- Measurement: Length in Millimeter (mm) Length Unit Conversion
- Measurement: Force in Newton (N) Force Unit Conversion
- Measurement: Angle in Degree (°) Angle Unit Conversion
- Measurement: Torque in Newton Millimeter (N*mm)
 Torque Unit Conversion
- Measurement: Stress in Newton per Square Millimeter (N/mm²) Stress Unit Conversion



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