

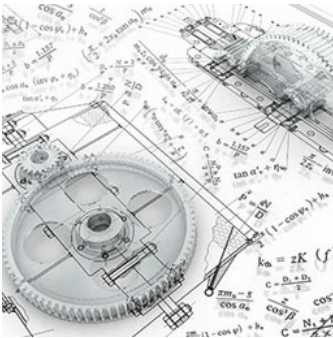


MITCalc 2.02

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Shaft design and calculation

Calculate shaft

Clear table of results

i

Calculation without errors.

ii

Project information

?

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Input section

1.0

Preliminary shaft diameter design

2.0

Shaft shape and dimensions

2.1

The scale of the displayed shaft diameter.

Calculation units

Imperial (lbf, in, HP,...)

1.5

1

0.5

0

-0.5

-1

-1.5

1

2

3

4

5

6

7

8

9

Db

Da

da

db

L

R

2.2

Table

	1	2	3	4	5	6	7	8	9	10
Origin	0,00	0,80	1,20	5,20	5,60	6,40	8,40	8,40	8,40	8,40
L	0,800	0,400	4,000	0,400	0,800	2,000				
ø Da	0,800	1,200	2,000	1,600	1,200	1,000				
ø Db	0,800	1,200	2,000	1,600	1,200	1,000				
ø da	0,200	0,200	0,200	0,200	0,200	0,000				
ø db	0,200	0,200	0,200	0,200	0,200	0,000				
R	0,039	0,039	0,039	0,039	0,039	0,039				

2.3

Total length of the shaft

8,40

[in]

2.4

X-coordinate of the left support (bearing)

Fixed

0,40

[in]

2.5

X-coordinate of the right support (bearing)

Free

6,00

[in]

2.6

The shaft surface (Roughness Ra)

C...Ground (32)

3.0

Notches and necking-down on the shaft

4.0

Loading of the shaft

5.0

Rotating masses

6.0

Material and the manner of loading

?

+

Results section

7.0

Results - summary

8.0

Graph - Deflection, Bending angle

9.0

Graph - Bending moment, Bending stress

10.0

Graph - Radial force, Stress in shear

11.0

Graph - Axial force, Torsional moment

12.0

Graph - Torsional angle, Reduced stress, Safety coefficient

13.0

Graphic output, CAD systems



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