

Technical drawing of a vertical mechanical part, showing a side view and a cross-section view.

**Dimensions and Tolerances:**

- Top flange outer diameter:  $\phi 16^{-0.05}_{-0.10}$
- Top flange thickness: 10
- Top flange fillet radius:  $2-R10$
- Shaft diameter:  $\phi 10 \pm 0.05$
- Shaft length: 120
- Bottom flange thickness: 50
- Total height: 220

**Geometric Tolerances:**

- Circular runout of top flange:  $\phi 0.015$  (A-B)
- Circular runout of shaft:  $\phi 0.012$  (A-B)
- Circular runout of bottom flange:  $\phi 0.02$  (B)
- Surface texture (top flange): 0.4
- Surface texture (shaft): 0.8
- Surface texture (bottom flange): 1.6

**Sectional View:**

- Section A-A: Shows the internal structure of the top flange, including a central hole and fillet.
- Section B-B: Shows the internal structure of the bottom flange, including a central hole and fillet.

1. Surface of samples should be smooth enough without cracks.
2. The R10 arc at two ends, and the  $\Phi 10$  section should be smooth, it should be produced by CNC lathes by one time.
3. The same batch of samples should be produced by same material.
4. Surface of the samples should not be processed by any means.

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									扭转试样（ $\phi 10$ ）		
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