



▼ : CHUCKING    ▨ : DATUM    — : WORK SURFACE    ◀ : TOOL ROUTE

The drawing shows a mechanical part with the following features and dimensions:
 

- Callout Points:** 13 points are marked with blue circles and numbered 1 through 13.
- Dimensions:**
  - Overall length:  $31.4 \pm 0.1$  (AS FORGED)
  - Top diameter:  $\phi 18.6 \pm 0.1$
  - Top shoulder diameter:  $\phi 22.1 \pm 0.02$  (SPH)
  - Top shoulder height:  $19 \pm 1.0$
  - Top shoulder radius:  $R0.8$
  - Top shoulder fillet:  $1.5$  and  $3.50^\circ$
  - Top shoulder chamfer:  $0.5$
  - Top shoulder hole:  $\phi 0.15$  A
  - Bottom diameter:  $\phi 22.1 \pm 0.02$
  - Bottom diameter:  $\phi 28.03 \pm 0.05$
  - Bottom diameter:  $\phi 29.05 \pm 0.05$
  - Bottom diameter:  $\phi 30.95 \pm 0.05$
  - Bottom shoulder height:  $15.03 \pm 0.02$
  - Bottom shoulder height:  $24.3 \pm 0.2$
  - Bottom shoulder radius:  $R0.8$
- Surface Finish:**  $0.5$  (indicated by a square symbol with a circle and the number 0.5).