

MANUFACTURING STEPS FOR PART/DRAWING 2:

Based on the drawing, the manufacturing process for this part involves the following steps:

1. Machining Operations:

- **Turning & Facing:** Turning would be used to shape the various diameters and facing to reduce the length of the parts.
- **Milling:** Milling will be used to create the various features like the rectangular cutouts, the chamfers, and the overall shape of the part.
- **Drilling:** The holes are drilled to the specified diameters.
- **Boring:** If high accuracy is required for the holes, boring can be used to enlarge and precisely size them.
- **Thread Cutting:** The M8-1 thread is cut using a threading tool.

2. Finishing Operations:

- **Surface Grinding:** To achieve the specified surface roughness (Rz20, 40), surface grinding would be used to remove any remaining irregularities and create a smooth finish.
- **Polishing:** The surface may be polished to improve appearance and reduce friction.
- **Plating:** The part may be plated with a protective coating like chrome or nickel to improve corrosion resistance and appearance.