Draw a Flanged Mace: Head Geometry and Handle Attachment

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw a six-flange mace head with a 30 mm outer radius, a 10 mm core radius, flange widths of 8 mm at the core and 4 mm at the tip, and a handle 120 mm long with top diameter 12 mm and bottom diameter 8 mm. Add a collar 14 mm wide and 10 mm tall. Label core, one flange, collar, and handle.

Answer: The drawing shows a centre point with six radial tick marks at 60-degree spacing on a 30 mm outer circle. A 10 mm core circle sits at the centre. Each flange tapers from 8 mm at the core to 4 mm at the tip, with a 2 mm offset line on one side. The handle centre line extends 120 mm downward, with sides converging from 12 mm at the top to 8 mm at the bottom. A 14 mm by 10 mm collar sits at the top of the handle and touches the core circle. Labels are placed outside the object with leader lines.