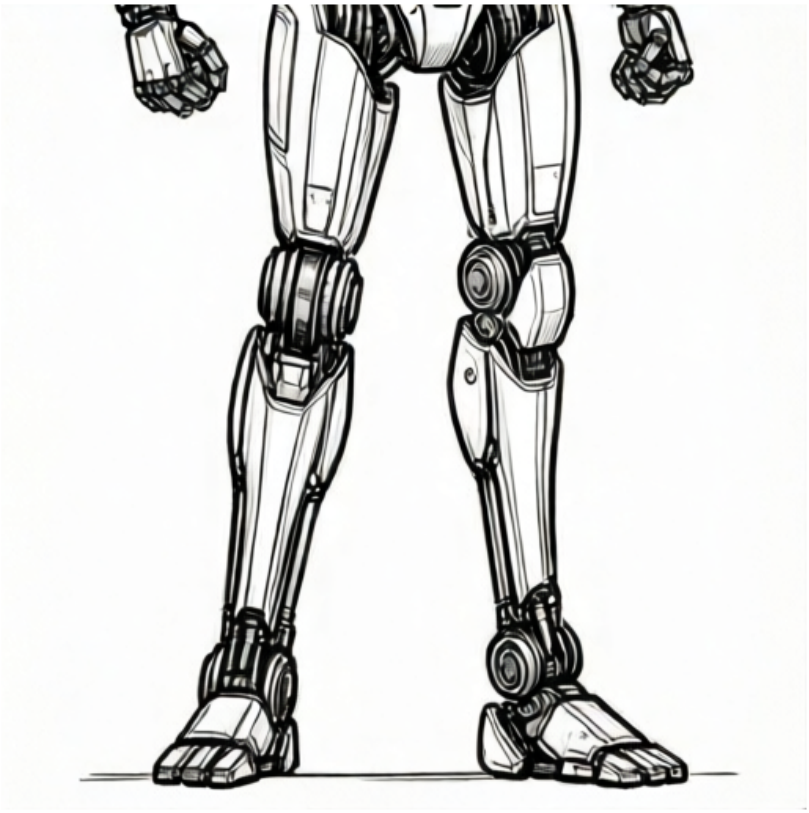
Robot Leg Drawing: Joints and Segments

Ordinary topic reference / separately checked pixels



Robot Leg Drawing: Joints and Segments

Original worked example / unchanged complete key

Prompt: Draw a side-view robot leg with a hinge hip, hinge knee, and ball ankle. Use upper segment 6 cm, lower segment 5 cm, foot 2 cm. Label all joints and lengths.

Answer: A vertical center line with three joint centers. Hip: circle with bar, labeled hinge. Knee: circle with bar, labeled hinge. Ankle: circle with center dot and arc, labeled ball. Upper segment drawn as two parallel lines 1.2 cm apart from hip to knee, labeled 6 cm. Lower segment same width from knee to ankle, labeled 5 cm. Foot block 2 cm long at ankle. Motion arrows at hip and knee only. Measured lengths within 0.5 cm of plan.