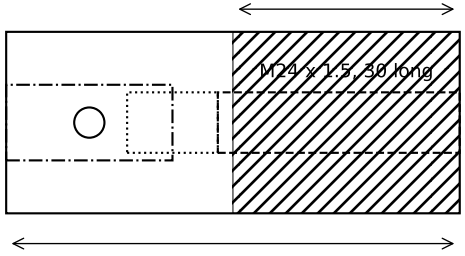
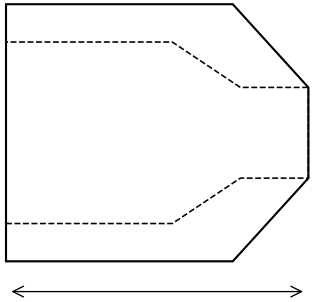
Brace chuck after Amidon (US 73,279, 1868) - parts at 1:1, print at 100 %. All sizes ours.

FOOT: 24 mm round steel bar

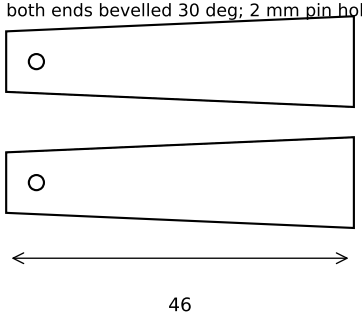


THIMBLE: 34 mm round bar, knurled

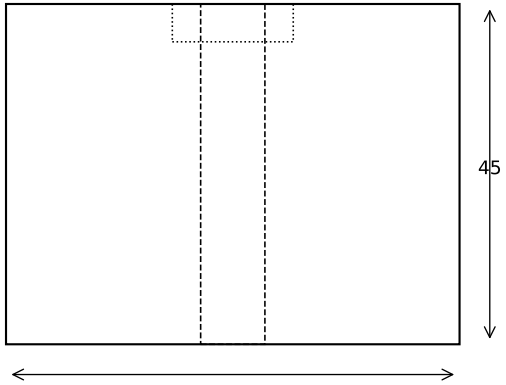


M24 x 1.5 inside, 22 deep; then a 60 deg cone to a 12 mm mouth

JAWS (2): 7.5 mm steel flat; 8 wide at the pin end, 12 at the mouth; 90 deg V-groove 3 deep on the inner face (dashed); both ends bevelled 30 deg; 2 mm pin hole 4 mm from the inner end (pin tight in one jaw, loose in the other)



HEAD: hardwood, turned

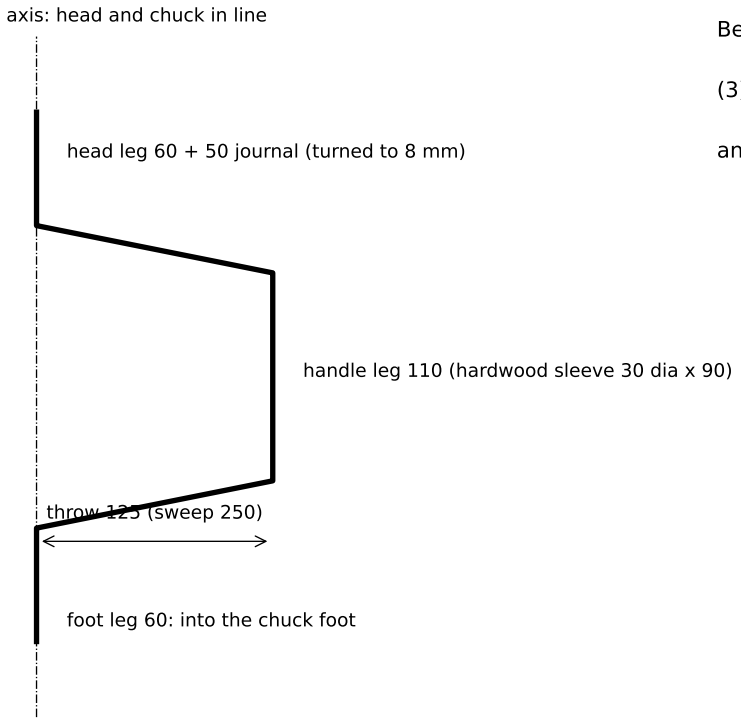


8.5 mm bore through; 16 dia x 5 counterbore on top for the riveted washer



check: 50.0 x 10.0 mm at 100 %

Crank: 10 mm mild steel rod, cut 540 mm. Layout at 1:4 (sizes in full-size mm).



Bend order: (1) foot bend, (2) slide the hardwood sleeve onto the rod, (3) the two handle bends, (4) head bend. Keep all bends in one plane and the head and foot legs on one line.