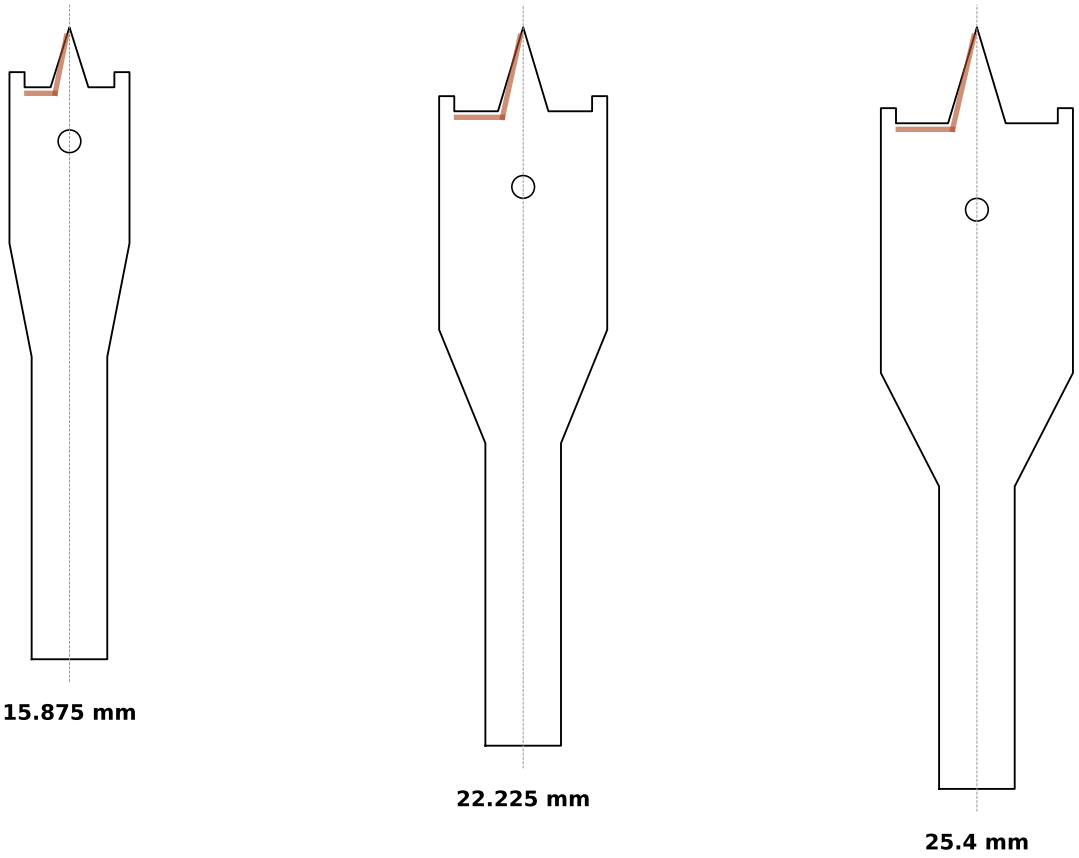
Williams fluted-shoulder spade bits (US 4,682,917, 1987): grinding template, FULL SIZE

Outlines for 5/8, 7/8 and 1 inch bits from 10 mm octagonal tool steel; the shank continues below.



50 mm: print at 100 %

Black: the outline, with a 2 mm spur at each outer corner. Red, on THIS face: the point flute along the point's left edge and the shoulder flute along the left shoulder, joined, stopped at the left spur. Bevel that spur's inner edge into the flute. On the OTHER face the same along ITS left edge and shoulder. Circle: the 3 mm hanging hole.

Our sizes: his test sizes 5/8, 7/8 and 1 inch; blade 2.5 mm thick; point half the width long on 0.3 of it.