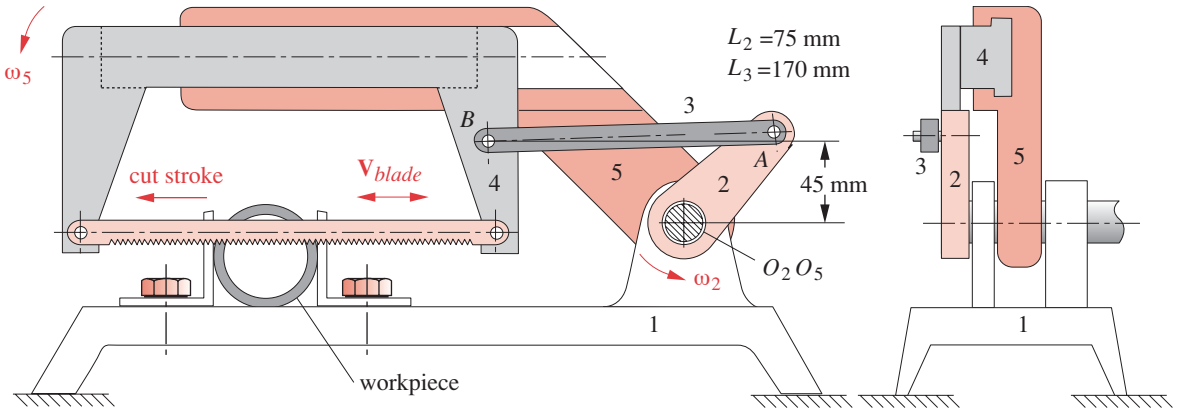

FIGURE P4-7

Problem 4-20 Power hacksaw. *Adapted from P. H. Hill and W. P Rule. (1960). Mechanisms: Analysis and Design, with permission.*

†4-20 Figure P4-7 shows a power hacksaw, used to cut metal. Link 5 pivots at O_5 and its weight forces the sawblade against the workpiece while the linkage moves the blade (link 4) back and forth on link 5 to cut the part. It is an offset slider-crank mechanism. The dimensions are shown in the figure. For one revolution of driving link 2 of the hacksaw mechanism on the cutting stroke , find and plot the horizontal stroke of the saw blade as a function of the angle of link 2.

* This figure is provided as an animated Working Model file on the CD-ROM. Its filename is the same as the figure number.