



**FIGURE P11-9**

Problem 11-16

†11-16 Figure P11-9 shows a surface grinder table drive that operates at 120 rpm. The crank radius is 22 mm, the coupler is 157 mm, and its offset is 40 mm. The mass of table and workpiece combined is 50 kg. Find the pin forces, slider side loads, and driving torque over one revolution.

† These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs.