

# CENTRAL SCREW PRODUCTS

*Precision Components Since 1924*

**Volume:** 350 pieces every 6 months

**Material:** 4140H, Heat Treat to HRC 45

**Finish:** Phosphate and Oil

**The Challenge:** The customer's clamping plates were being produced in Detroit using cut blanks and then finish machining operations. At 4.5" outside diameter, there was **significant material cost and material waste** in the cutting of blanks. In addition, there were multiple handlings due to turning, milling, heat treatment, and plating.

**The Solution:** CSP matched material in China so the customer did not have to deviate from the current material and heat treat requirements. By **lean manufacturing the product in China**, CSP was able to save material by near net shape forging the blanks as opposed to cutting them from bar stock. This method saved material cost due to the cut-off width over a 4.5" piece of bar stock and the three holes that were in the part at completion. Forging was not a cost competitive option in the States, but was available in China.