

## SALES AND RENTAL OF HEAT TREATMENT EQUIPMENT

Dragon Works, Chester Road, Saltney, Chester CH4 8RW

**Tel:** +44 (0) 1244 670810 **Fax:** +44 (0) 1244 680491

**E-mail:** sales@rapidheatsystems.com **Website:** www.rapidheatsystems.com



### SHRINK FIT APPLICATIONS

**Customer:** UMC International / Seatec Engineering

**Client:** Ministry of Defence H.M.S ILLUSTRIOUS

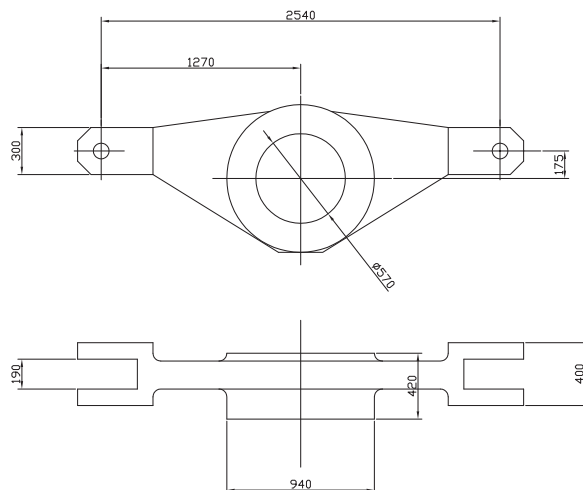
**Job Description:** To heat up a Tiller Assembly to enable removal from the rudder stock to which it is attached, The removal of the Tiller Assembly is to enable engineers to assess the wear and carry out any repairs, the Tiller Assembly is on a 1:15 taper with two locating keys and is installed using a pilgrim nut. The Tiller Assembly has not been removed for a good many years.

**Job Location:** Portsmouth Dockyard

**Job Date:** 29.07.08

**Equipment:**  
1 x 35kw RHS Induction Heating Machine  
1 x 140ft Induction Heating Cable  
1 x 50ft Induction Heating Extension Cable

**Results:** We wound six turns of a 140ft induction heating cable around the tiller assembly, and applied 35kw of heat at 12.00 noon, it took only 50 minutes for the outside temperature of the tiller assembly to reach 120 this was enough heat to allow the tiller assembly to expand enabling the engineers to jack the tiller assembly off the rudder stock shaft seating, the job was a complete success and the customer was very impressed with the set-up of the induction heating application and the total time required from set-up to strip-down.



RUDDER CROSSHEAD

