

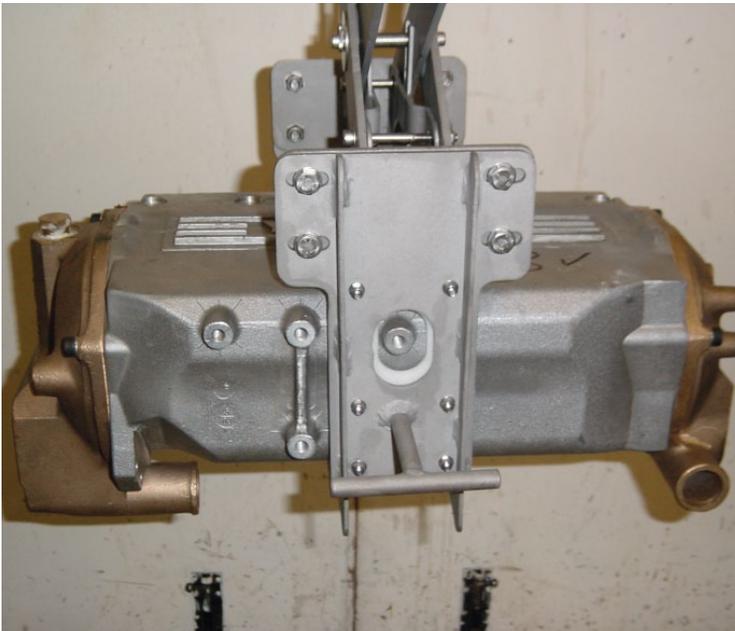
ENGINEERING CASE STUDY

Serck Heat Transfer

Serck Heat Transfer had a contract to manufacture a range of Yanmar marine engine heat exchangers, requiring extensive pressure tests before despatch. Handling the Heat Exchangers required specially designed scissor grabs to enable the Serck Engineers to load the components into sophisticated pressure testing machines.

The brief

Seven different Heat Exchangers needed to be lifted into and out of pressure testing machines, some of which were submerged in water. None of the Heat Exchangers had lifting points built into them, so we were asked to design suitable **non-corrosive** lifting equipment, designed to ensure **non-marking contact** with the product, at the same time ensuring that each Heat Exchanger was **secure and level** whilst suspended in the grab.



The solution

Individual Stainless Steel scissor grabs were designed and manufactured to exacting requirements, featuring laser cut components fabricated into a bespoke solution for each Heat Exchanger.

In most cases, the contact surfaces were high grade non-marking nylon sheet, fixed to the fabricated scissor grab by stainless steel countersunk cap screws, but in two cases, where the centre of gravity or design of the Heat Exchanger did not permit using flat nylon sheet, a high grade plastic locating component was moulded by a local dental laboratory to make use of a feature in the casting for support.



The result

Suspended by lightweight Demag KBK crane and gantry systems, the Serck Engineers were able to rapidly locate and lift each Heat Exchanger into the pressure test equipment and perform pressure tests smoothly and efficiently. Desired productivity was achieved ensuring maximum handling efficiency and safety.

**For all your lifting and crane service enquiries contact
Sales on 01384 370318**