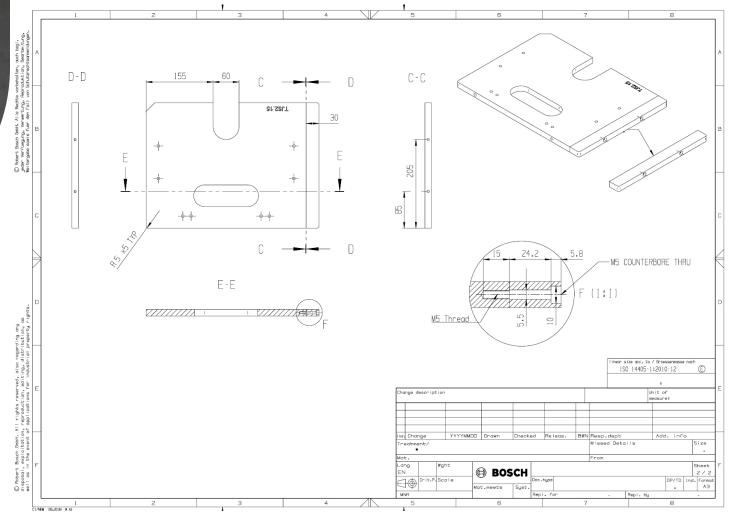
Owen Exon Droitwich Spa High



I played a part in the process of the recreation of this Jig and provided a suggestion on a way to standardise across the different assembly lines.

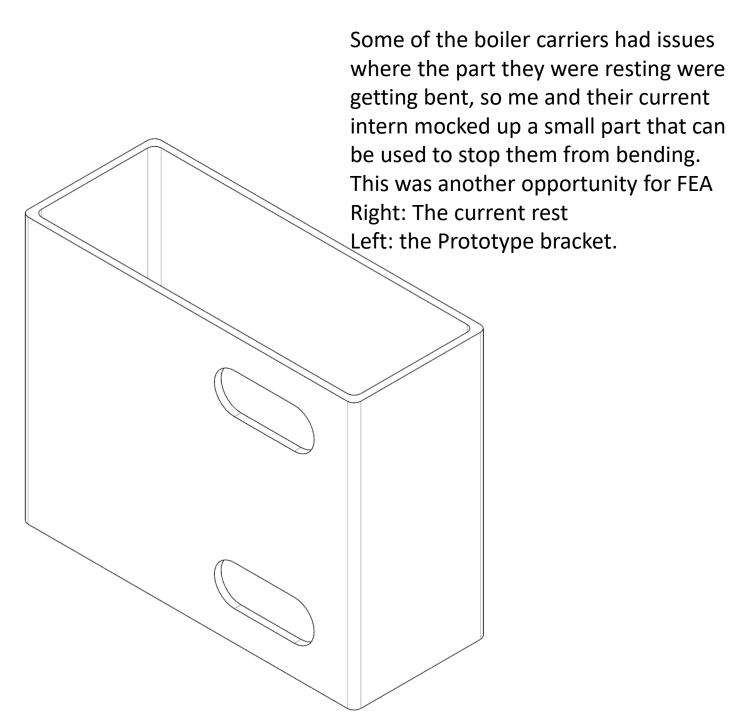
Left: The Jig

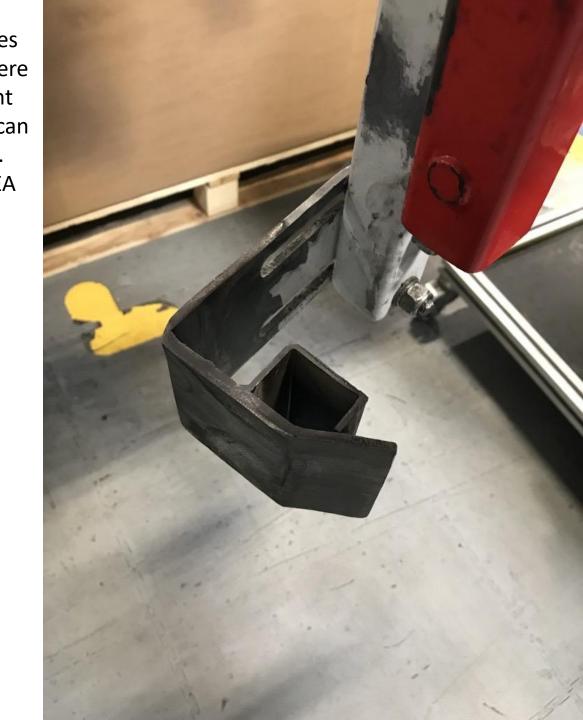
Below Left: shows the part I designed to standardise



This is a holder for a pistol drill that I played a small part in designing, so that it can be hung from a cable on the line. The person I worked on this with also showed me how to do an FEA for it.









This is a workstation on the pre-assembly line that I redesigned from scratch. It's made of Rexroth beams and will be more ergonomic for the operator and easier for logistics to feed boxes of parts in and out.

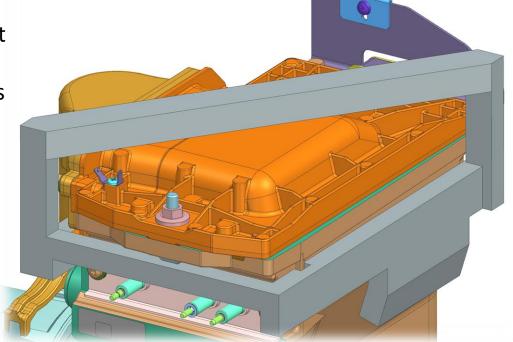
Right: Racking CAD model

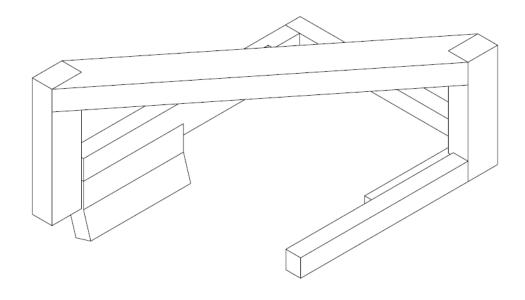
Up: The old workstation



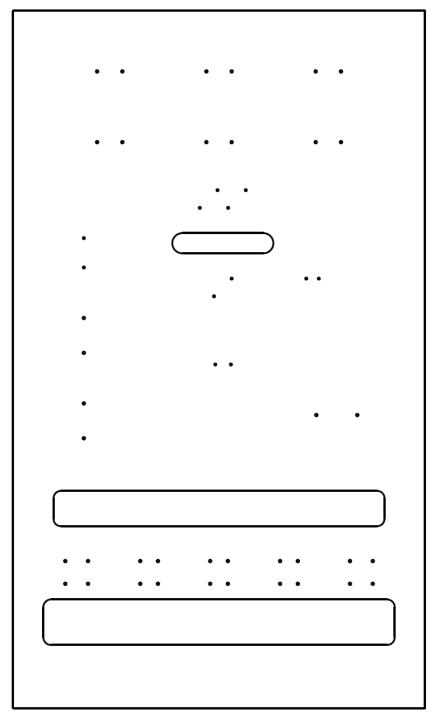
This is a prototype hoist for a heat exchanger.
The current hoist bends over time as it is a very thin piece of metal lifting the entire part.

Right: Heat exchanger Top: Shows how it fits.









The test rigs on one of the assembly lines were getting replaced so I was asked to take one of the old ones and CAD up and rearrange the fixing holes to be appropriate for the new base plate.

Left: Redesign

Right: The Old Test Rig





This is a small tool on preassembly for pushing in clips that they needed putting into CAD and redesigning slightly so a spare can be made.

Left: the current tool Right: the redesign