



# Oil and Gas heavy welding project

Renown Engineering Ltd has over 25 years' experience in welding and fabrication complex and heavy projects in various materials. The following project exemplifies the depth of welding capability, and the willingness to take on challenging projects.

In this example, Vector International were seeking a supplier to step in on a short lead time after being let down by a different vendor.

## The project

Renown Engineering were tasked to weld 100mm thick eye beams to a base plate for an oil and gas application. Renown were required to turn the project around quickly as the customer had already been let down by a supplier who could not fulfil the welding demands.

## Issues to overcome

The original subcontractor machined the items, meaning any distortion during the welding process would ruin the project. The machining was also so acute that access for welding was impossible.

## Renown's approach

To overcome the difficulties of allowing access for welding, Renown redesigned and re-machined the weld preparation to enable access for welding to take place.

Renown qualified a welding procedure to cover the thickness range (200mm) and qualified welders against the procedure.

When the welding began, pre-heat was critical, therefore Renown used STORK for pre-heating equipment. Heating pads then needed to come off every other shift to allow the job to be rotated, staggering the welding to minimise distortion. Renown also manufactured a frame to hold the component during the welding process.

Due to the speed of response, Renown was able to deliver to the customer's specifications and on time.



*Top: 100mm thick eye beams positioned into re-machined slots ready for welding*

*Above: The eye beams welded into the base plate*