

Nuclear Industry

Case Study: 140mm Mild Steel

Challenges: A customer in the nuclear sector have been developing parts for a machine that requires thick (140mm) Mild Steel. The customer was looking at options to reduce the cost involved in making the parts away from traditional CNC from solid block. There has also been waste in production cost due to the heat created whilst machining.

Solutions: Our accurate nesting software enabled us to cut 2 parts from 1 solid block of material. Due to the thickness the customer used both the waterjet process and a CNC to provide highly accurate parts but reducing costs with a more efficient cutting method the waterjet process. With no heat affected zones the part was at much less risk of damage and warping. We increased the speed of the cutting providing a part with 3mm all round using a lower quality that could then be machined to customer requirements.

Benefits: The customer benefited significantly using the OMAX nesting facilities reduced material usage and cost. The parts had a reduced machining time and therefor reduced cost to manufacture.

