



Case Study: Inconel 718

When somebody comes to B&B Precision for a quote, we don't just price it up and send it off. Our team work hard to ensure each and every client gets the best possible solution. This is a great example of that. A client needed some new push rods to be manufactured from Inconel 718. The issue was that the cost of manufacturing these rods would have been extremely high....

Our Capacity

CNC Milling

6 Machines

1626mm x 813mm x 1062mm

CNC Turning

8 Machines

Max Diam 549mm x 1130mm Long

Grinding

7 Machines

Max Diam 505mm x 1500mm long

EDM Wire Erosion

860mm x 580mm x 250mm

Slotting

Burdett Slotter with swivel head 200mm stroke fitted with anilam DRO

Thermal Spray Coatings

500mm Diam x 1500mm

Contact Us

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Problem Solving

Rather than sourcing and machining Inconel, we saw that it would be more cost effective to thermally spray a cheaper alternative in an Inconel coating. This would give you the same properties as using the metal without the costs.

Inconel is a Nickel-Chromium Super Alloy and we are able to match the base elements of this metal in powder form. We manufactured the Push Rods out of Stainless Steel and coated them in house. B&B have one of only five state of the art CO² controlled booths in europe, and all our coating jobs are carried out by a KUKA robotic arm. This provides the best possible conditions and control for our coatings.

"I was skeptical that we'd get the results we needed, but after seeing the trial parts and testing thoroughly I couldn't be happier. B&B were very helpful throughout and its rare to have a supplier who tries to save you money instead of getting you to spending more!"

Result

The customer was happy with the principals of the proposal but having had no experience of using Thermal Spray Coatings he needed more evidence to prove that the Push Rods would perform as required.

Trial Parts were produced by B&B and provided to the customer for testing. The parts performed as required in the Kiln environment, at half the original price and approval was given for full production. This represented a big win for our customer and significant saving.