

CASE STUDY



Design, Manufacture and Supply of Bespoke Connectors

CUSTOMER

UK manufacturer of equipment to the United Kingdom Ministry of Defence.

CUSTOMER REQUIREMENT

The design, manufacture and supply of a range of components that eliminated galling, are safe to use at test pressure, did not introduce contamination during the test and included bespoke permanent markings such as serialisation.

HYDRASUN SOLUTION

Complete delivery of a full engineered design, manufacture and quality control service, including engineered drawings, models, pressure test results and serialised permanent markings.

BENEFITS

- Minimise Galling and Recertification
- Maximise Testing 'Right First Time'
- Security of Supply
- Delivery Lead Time
- Overall Value for Money





BACKGROUND

During testing of manufactured equipment the customer was introducing a safety hazard that was inconsistent with their safety standards and policies.

The components used to connect the test equipment to the manufactured equipment were not designed sufficient for the test pressures of the application. The components required third party cleaning to prevent contamination, marking and packing processes, and also had a high incidence of galling that was expensive and time consuming to rectify.

Although the components in use were commercially available to international standards they were not of a sufficient quality standard to meet the demanding requirements of the application.

CUSTOMER REQUIREMENT

Hydrasun was requested by the customer to design, manufacture and supply a range of components with drawings, models, design calculations and validation testing that demonstrated the components were safe to use at the test pressures. Furthermore, the customer required components that reduced galling, did not introduce contamination during the test and were supplied from the manufacturer with bespoke permanent markings including serialisation.



HYDRASUN SOLUTION

Hydrasun Precision Manufacturing division produce an industry leading range of high quality precision machined products for a range of hydraulic interface applications.

Building on this capability our experienced team delivered a full engineering design, manufacture and quality control service. Hydrasun provided engineering drawings, models, design calculations, torque test results, pressure test results and supplied the fittings cleaned with bespoke permanent markings and in individual vacuum packs.

The designed connectors were a success with Hydrasun receiving multi-million GBP repeat orders and supplying many thousand connectors. The customer valued the certification to ISO 9001, BS EN ISO 14001 and ISO 45001 and identified the engineering design, high quality manufacturing and quality control as key Hydrasun differentiators.

THE RESULT

Hydrasun successfully delivered to the customer fully certified ranged bespoke connectors to the agreed specification and within overall delivery timescales. This successful completion of the project highlighted Hydrasun capabilities including;

- Clearly identify customer need
- Design
- Precision manufacture
- Control of critical subcontractors
- Certification
- Serialised marking
- Functional testing
- Back up service and support

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