

CASE STUDY

Hydraulic Power Units (HPU) Manufacture for Aker Subsea



Background

Aker Subsea Ltd offer a comprehensive subsea product and services portfolio with a key focus on providing global subsea production systems and products.

Within their Aberdeen workshops Aker Subsea had acquired a variety of mobile Hydraulic Power Units (HPU's), the majority of which were rented, meaning the units were all designed and configured differently.

Customer Requirements

Aker Subsea had a desire to introduce higher levels of standardisation and consistency into ongoing pressure testing and flushing operations, to deliver significant productivity, efficiency and capacity improvements whilst realising commercial benefits.

In order to address the above, Aker Subsea identified that their HPU requirements should be provided from a single source of manufacture and supply.

Hydrasun's Solution

Working closely with the customer, Hydrasun's engineering team established design requirements and offered additional suggestions in order to address specific requests in terms of improved productivity and a reduction in cross contamination risk.

Upon completion of final design and customer sign-off, Hydrasun manufactured seven identical HPU's, incorporating an interchangeable reservoir, electrical motors, hydraulic pumps, accumulators, control valves, barrel lance, filters & soundproofing.

Interchangeable tanks were utilised to enable the fast change out of different water based or oil based fluids, reducing downtime and the risk of contamination. In addition, these tanks had their own pumps/filters which meant that the fluid could be pre-flushed to allow production to begin immediately.

Upon completion and testing the HPU's were delivered to the customer and site commissioning work was undertaken.

The supply of units built to an identical design resulted in a single set of operating instructions and the establishment of a stock of common spares. In addition, a standardised after sales service offering including training, maintenance and servicing was provided to supplement the standard Hydrasun warranty.

Result

The design, supply and installation of seven mobile HPU's, manufactured in accordance with the agreed customers technical specifications that facilitated the delivery of real added value to the customer's workshop operations.

Improved efficiencies of pressure testing and flushing operations, with a reduction in potential cross contamination, reduction in unnecessary downtime due to excessive set-up time and a reduction in routine maintenance problems through improved competency and training.

From a commercial standpoint the return on investment for the customer was one year, due to the elimination of the ongoing rental costs they had previously been incurring.

Hydrasun's dedicated and experienced team, with extensive project management capability, was key to effectively managing the scope of supply to ensure scheduled delivery dates were met and that commissioning and handover of units was efficiently undertaken.

At a glance

Customer

Aker Subsea Ltd

Location

Aberdeen

Customer Requirements

Standardised mobile HPU's for pressure testing and flushing from a single source of manufacture and supply.

Hydrasun Solution

Design, supply and installation of seven identical portable HPU's for testing and flushing delivering workshop efficiencies and significant commercial benefits.

Benefits

- Bespoke single source design, manufacture, supply & commissioning
- Improved standardised design facilitating workshop efficiencies & risk mitigation
- After sales service covering training, maintenance & servicing
- Improved spare parts management
- Significant cost savings from Asset ownership versus Rental
- Project Management



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