

# ASSET SUPPORT

FUTURE PROOFING | REPAIR SERVICES | MAJOR REFURBS & LIFE EXTENSIONS | ASSET INSPECTION | UPGRADE & ENHANCEMENTS



We know every customer is different, with a unique requirement for support based around asset fleet size, geographic locations and the level of internal resource available. SMD Services is proud to provide our customers with a wide range of industry leading support solutions which are specifically designed to ensure that you are always prepared for operations and benefit from maximum equipment operating time.

For over 45 years we have been assisting our customers in future proofing their operations by continually monitoring equipment and spares for obsolescence to prevent avoidable delays and emergency expenditure.

## OBSOLESCENCE MANAGEMENT AND FUTURE PROOFING

It is widely accepted that obsolescence within assets can result in serious operational issues and equipment downtime. There's nothing worse than being caught unaware that a critical component has become obsolete in the supply chain and the potential risk this can pose to project delivery. At SMD we aim to help you optimise your assets and future proof your business operations by providing early notification of potential component or system obsolescence and offer you the most advantageous appropriately engineered solutions.

SMD Service engineers are experts in devising tailor-made solutions based around customer asset holdings to ensure the impact of obsolescence is managed and controlled in the most cost effective way. We aim to take the hassle out of asset management and maintenance through early review and notification which enables customers to avoid unplanned downtime by pre-planning essential component changes and system upgrades.

We will not only identify a solution to protect you against long-term obsolescence challenges, our engineers will always present you with the best option that will benefit both the product build and the long-term functional capability of the asset. Wherever possible significantly extending the operational life of the asset to give customers maximum value on their investment.

SMD engineers are experienced in developing design change packs which consist of work instructions and parts to facilitate obsolescence-enforced design changes to protect customers and prevent unnecessary delays to critical operations. As well as responding to specific infield incidents, SMD also provides Obsolescence Review and Protection reports on single or fleet-wide customer asset holdings.

SMD's Obsolescence Management service is provided as part of a wider suite of Asset Support Services which includes Critical path cover / Upgrades / Enhancements, Major Refurbishment / Life Extension, Maintenance, Asset Inspections, and a Repairs service which can be delivered at short notice either in the field or at our facilities. As well as providing pre and post operational repair, all SMD engineered solutions come with the assurance of the Original Equipment Manufacturer's warranty and a continuation of design authority.

# ASSET SUPPORT

FUTURE PROOFING | REPAIR SERVICES | MAJOR REFURBS & LIFE EXTENSIONS | ASSET INSPECTION | UPGRADE & ENHANCEMENT

"SMD upgraded our Subsea EPOD and MUX system on our SMD HD3 plough within the agreed 10 weeks. This included the transport of the EPOD and topside MUX from the Netherlands to the UK and back. The old PRIZM MUX system was upgraded to a new Focal 907 MUX system with 4 additional Gigabit Ethernet ports and Arcnet connectivity. The Subsea EPOD faceplate was renewed and fitted with 4 extra Power / Ethernet Connectors. The new system was commissioned by SMD onboard our vessel CLV "Ndurance" and the PLC control system was updated for the control of the Power on the 4 Ethernet ports. Since then we did more than 100 km's of ploughing with the HD3 and all worked fine."

*Boskalis*



## BOSKALIS CASE STUDY

### The Client

Based in the Netherlands, Boskalis is a leading global dredging and offshore contractor and maritime services provider. The company offers a wide range of dredging, offshore transport and installation solutions, as well as maritime services, including towage and salvage.

### The Brief

Initially, Boskalis approached SMD Services seeking an upgrade to their HD3 Plough. The scope of work was a POD upgrade, which entailed supplying a new faceplate with four additional connectors. This would allow for an Ethernet upgrade and the ability to include Arcnet, a communications protocol for local area networks.

### The Solution

Following a thorough assessment by SMD engineers. They identified that in addition to the upgrade, the Plough had a Prizm Mux which was obsolete. SMD presented Boskalis with two solutions. One to retain the existing Prizm Mux and fit a new 'Focal 907' Mux. The existing Prizm Mux would still keep its existing functions, however the 'Focal 907' Mux would enable the requested Ethernet/Arcnet upgrade. Option two involved replacing the obsolete Prizm Mux with a new 'Focal 907' Mux. As well as replacing, it would also be compatible with the Ethernet/Arcnet upgrade.

Boskalis selected option two despite it requiring more time to deliver. This was due to re-engineering the on-board software to replace the obsolete Prizm Mux. Both the client and SMD engineers agreed this was the most reliable and cost effective solution in the long term.

The client's only concern was the short lead-time of 10 weeks. Boskalis required the Plough for a new campaign, leaving no room for error. Working closely with Boskalis, SMD engineers got to work securing the parts in line with the critical path. Once all long lead items were confirmed for delivery within the agreed timescale, Boskalis shipped its POD to SMD's facility in Newcastle for the upgrade and testing to take place in time for their campaign.

SMD completed the engineering works and shipped the POD back to Boskalis in time for their campaign. This was also accompanied by a dedicated team of offshore engineers to install the system on the vessel.