

First-class Engineering

Our Engineering Services Department (ESD) provide expert technical services & design consultancy for FRP composite structures & pipe systems, with a competitive edge. The unique combination of cutting-edge design & advanced manufacturing provides our clients with a “one-stop-shop” solution whilst maximising safety, efficiency & structural integrity.

Experienced & skilled, our engineers are dedicated to providing sustainable & optimised solutions, solving the most complex of projects in a multimedia environment.

The ESD capabilities consistently develop to encompass broader technical services across a wide range of materials & applications, as required by clients, with the option to work directly within clients own design offices (national or international).

Our engineering services include;

- 3D laser surveys & dimensional control
- Building Information Modelling (BIM) LVL 1
- CAESAR II piping stress analysis - including transient, seismic & dynamic loads
- Composite pressure vessel design
- Computational Fluid Dynamics (CFD)
- Finite Element Analysis (FEA) - includes static & dynamic analysis
- Innovation research & development - including 3D printing & prototyping
- Piping design assistance & verification - including support design & isometric production
- Structural engineering - including CAT II design checks

Advantages of Pipex px[®] Engineered Products



Extended design life



Lightweight



Fast to install



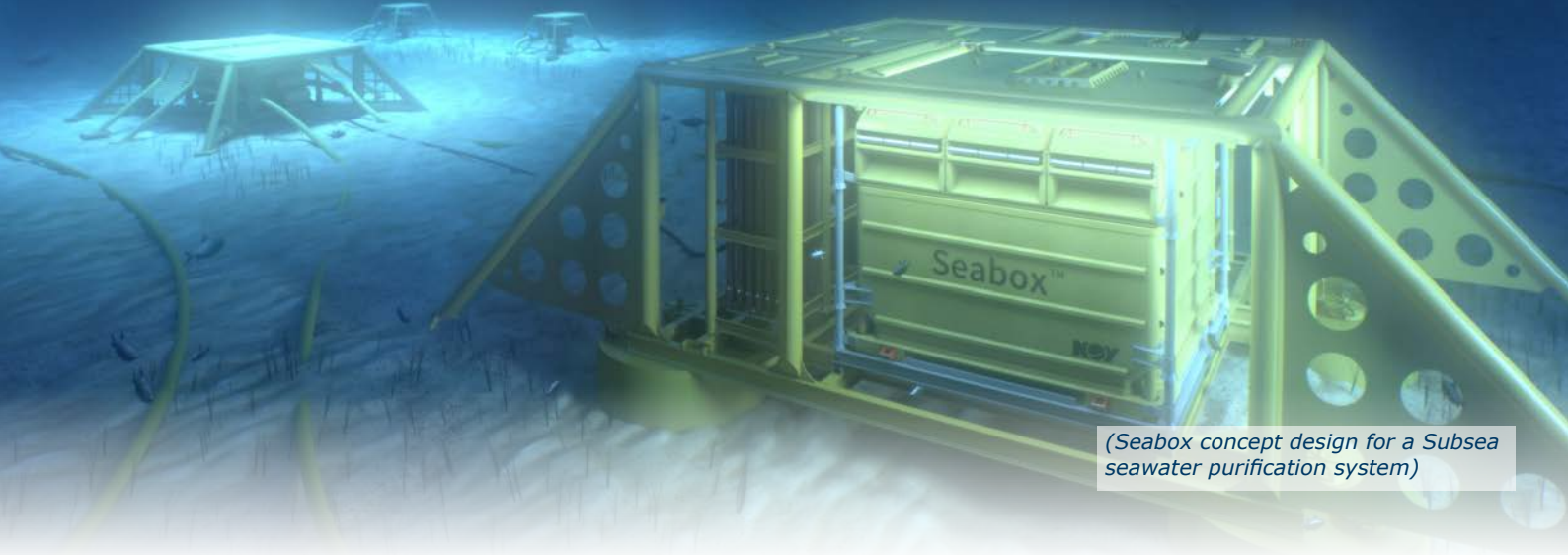
Low maintenance



Pre-fabricated off-site

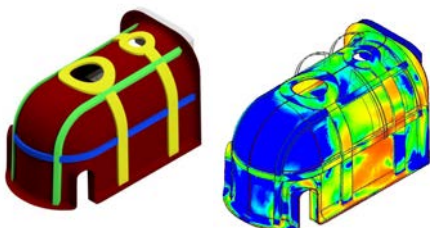


Strong & durable



(Seabox concept design for a Subsea seawater purification system)

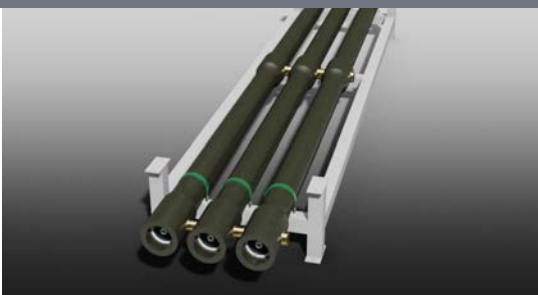
Advanced composite design & manufacture for Subsea impact protection covers



Research, development & innovation for NORSOK compliant Offshore handrails



Advanced Engineering for LoSal® Enhanced Oil Recovery technology



3D Modelling to support BIM LVL 1



A First-Class Service:

- 42+ years of composite and thermoplastic engineering knowledge & unrivalled experience across many applications, including Oil & Gas, Marine & Offshore, Chemical & Industrial, Subsea, Transport & Water
- Multi-skilled engineering with diverse materials & manufacturing expertise; from bi-material products to FRP resin infusion & pultrusion techniques
- 3rd party verification, assurance risk mitigation of engineering houses' composite & thermoplastic designs
- Use of industry standards & bespoke software packages to deliver competitive solutions
- Flexible framework to deliver Engineering Services; from engineering advice/support to fully engineered solutions for worldwide Offshore & Onshore locations
- Pipex px® knowledge & experience will deliver accelerated project programmes & cost effective solutions
- Packaged project solutions, managed in-house; from concept design to manufacture, to testing & installation
- Bespoke manufacturing capabilities to compliment our engineering services if required

Speak to one of our experts today:

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