



Hose Engineering Division



A&I Technology's Hose Engineering Division offer a comprehensive flexible hose supply and management service. Our highly experienced staff are able to use their extensive knowledge of a vast range of flexible hose applications to provide our customers with solutions that match their requirements in the most efficient and cost effective way.


Supply

We specialise in providing flexible hose assemblies and associated components for service applications which require an engineered solution, such as; extreme environmental conditions, safety critical service, specific type approval requirements, aggressive medium transfer, very high pressure or impulse cycling.

Products available include:

- **Fireproof Hose Assemblies (Lloyds approved, 5 minutes at 700° C).**
- **Hydraulic Hose Assemblies to Defence Standard 47/2.**
- **Replenishment at Sea (RAS) Hoses.**
- **Hose for all Rail Rolling Stock Applications.**
Railbrake, sanding, hydrostatic drives etc. including low toxic emission types. We also hold an extensive database of BR catalogued assemblies.
- **Specialist Hose & Assemblies as fitted to Naval Weapon Systems.**
We currently supply assemblies manufactured to original Marconi drawings to UK MoD for in-service support of the Sea Wolf missile system and are able to supply hose assemblies for the Sea Dart Missile and Mk8 4.5" gun systems.
- **Specialist Hose Assemblies for Marine Propulsion Systems.**
We currently supply assemblies for Rolls Royce Spey Gas Turbines fitted to ex RN Type 22 & 23 frigates now in service with overseas navies.
- **Specialist Hose & Assemblies as fitted to Infantry Fighting Vehicles.**
We currently supply hose assemblies to UK and overseas customers manufactured to original FV (Alvis) and VDS (Vickers Defence Systems) series drawings.

We supply Hose Assemblies for specialist marine applications that meet the requirements of all major marine classification bodies including: Lloyds Register, DNV, Germanischer Lloyd and Bureau Veritas.



Hose Management Services

A&I Technology's team of experienced engineers and hose technicians are able to provide our customers with a full range of hose management services, ranging from basic hose selection advice to complete system design and through-life management.

Work we undertake includes:

- **Hose & Pipework System Design.**

We use our extensive knowledge of the factors that influence hose life such as environmental conditions, dynamic movement and system operating parameters to ensure our customers achieve a solution that yields through-life reliability.

- **Assembly / Application Proving.**

We can design and carry out a test program to ensure any new component /application match will meet its in-service requirements.

- **Hose Management.**

Costly repairs, machinery down time and the risk of injury to workers can be minimized by implementing a planned maintenance program. We can provide a tailored hose management system to suit your business and either manage it for you or train your staff to do so.

- **Hose Failure Analysis.**

We can determine the cause of failure and advise on how improvements to service life could be achieved.

- **Assembly Pressure Testing.**

We carry out static pressure testing to 3000 bar (fluid) / 50 bar (gas).

- **Quality Plans.**

We can design a bespoke production quality plan that utilises poka-yoke principles to ensure zero defect deliveries in a cost effective manner.

- **Training.**

We develop and deliver training packages covering all aspects of the flexible hose industry.



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