



# Umbilical Termination Assemblies

Design and  
Manufacture



we have **EXPERIENCE ...** with a  
wide range of umbilical systems





# Umbilical Termination Assemblies

design and manufacture



System design and manufacture are carried out at our facility in Glenrothes. HCS Control Systems have experience on a vast range of umbilical systems and can comply with customer / operator design guidelines and standards.

**Topside:** the Topside Umbilical Termination Unit (TUTU) provides the interface between the main umbilical and the topside control equipment. The unit is a free standing enclosure that can be bolted or welded in a location adjacent to the umbilical hang-off in a hazardous exposed environment onboard the topside facility. These units are usually tailor made to customer requirements with a view to hydraulic, pneumatic, power, signal, fiber optic, and material selection.



design and manufacture of umbilical termination assemblies for topside and subsea applications

**Subsea:** the Subsea Umbilical Termination Assembly, sitting on top of a mud mat, is a multi-plexed electro-hydraulic system that allows many subsea control modules to be connected to the same communications, electrical and hydraulic supply lines. The result is that many wells can be controlled via one umbilical. From the UTA, the connections to the individual wells and SCMs are made with jumper assemblies.

**The main functions of umbilical termination units:**

- Provide hydraulic power to subsea control systems, such as to open/close valves
- Provide electric power and control signals to subsea control systems
- Deliver production chemicals for subsea injection at tree or downhole
- Deliver gas for gas lift operation



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