

— SUB6HLX™

# In-Service Hull Repair

Permanent robotic welding repair for steel hulls without dry-docking.



**No shutdown. No dry-dock. Zero compromise. Full control.**

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## What It Is

### In-service hull life-extension solution

Sub6HLX™ enables permanent robotic welding repair of steel hull structures with low remaining wall thickness while the asset stays in service. By combining pre-qualified welding procedures, robotic execution, remote operations, and full digital traceability, it restores structural integrity without dry-docking, shutdown, cofferdams, or steel replacement.

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## Key Benefits

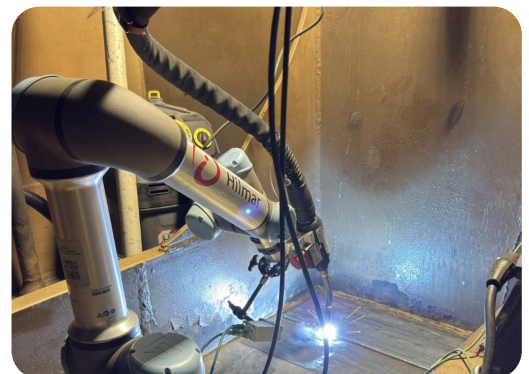
- No dry-docking or shutdown
- Permanent, class-acceptable repair
- Qualified for remaining wall thickness below 6 mm
- Robotic execution with remote operation and full traceability

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## Customer Value Delivered

Effee enabled a safe, shutdown-free FPSO repair using robotic welding on a severely thinned section with only 4.6 mm remaining wall thickness. By using seawater as backing and cooling, the solution prevented burn-through while allowing the repair to be executed safely during ongoing operation.

This approach reduced confined-space entry, minimized repair and inspection scope, and significantly lowered execution risk — helping extend FPSO service life, protect uptime, and improve personnel safety.



**Reduced POB**

**Lower HSE exposure**

**Remote operation**

**Digital traceability**

**Protects uptime**

**Extends asset life**

