



Pipeline Performance™



**SmartPlug® isolation technology makes it possible to isolate pipelines at high operating pressures. This means that maintenance and repairs can be conducted quickly, without bleeding down the entire system.**

**Downtime worries? Problem solved.**

A pipeline under repair bleeds money with every passing hour. The solution? SmartPlug® isolation technology. Operated by remote control, the SmartPlug tool's "double-block and monitor" isolation capabilities ensure a safe, reliable pressure isolation.

**One system, many applications.**

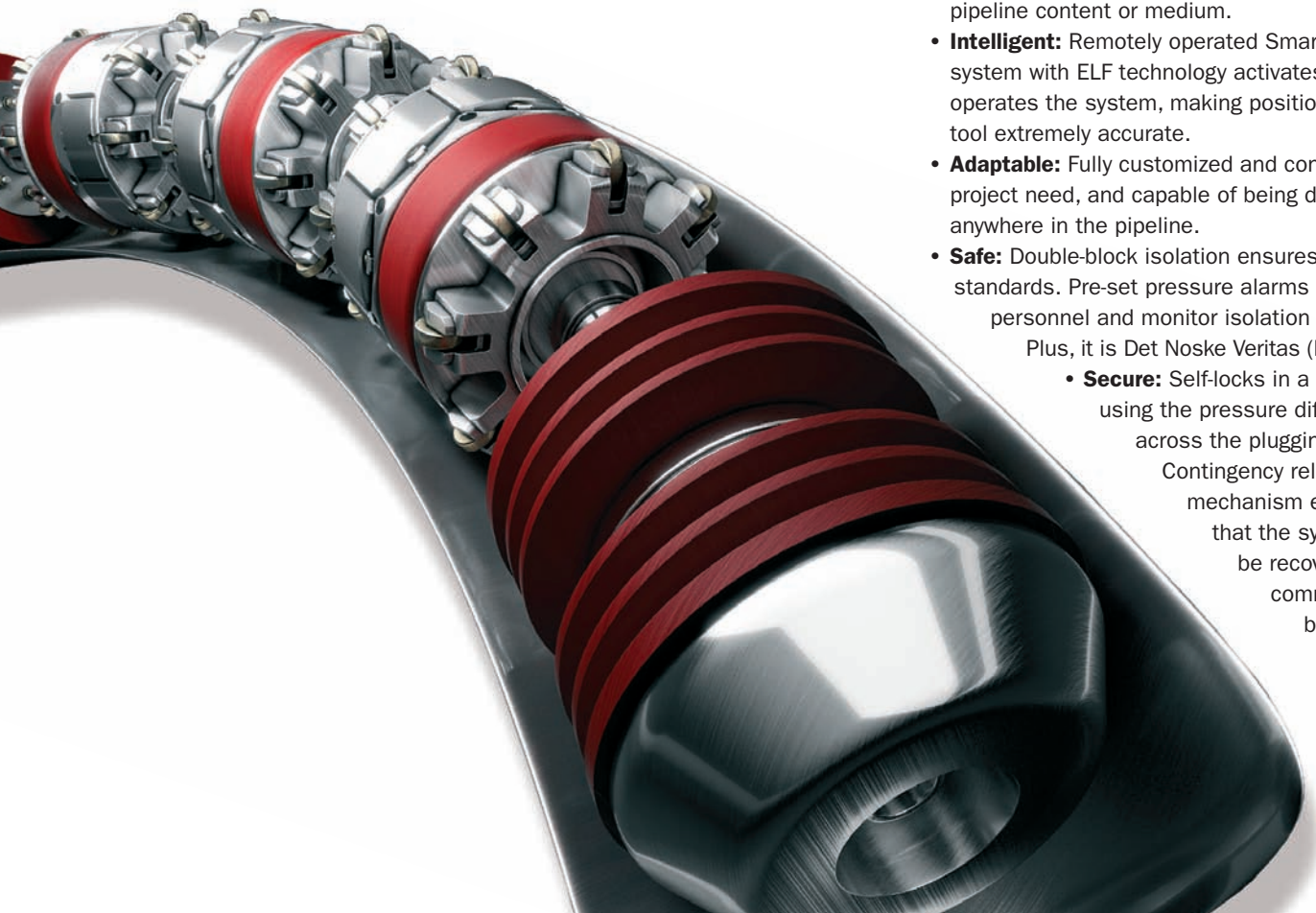
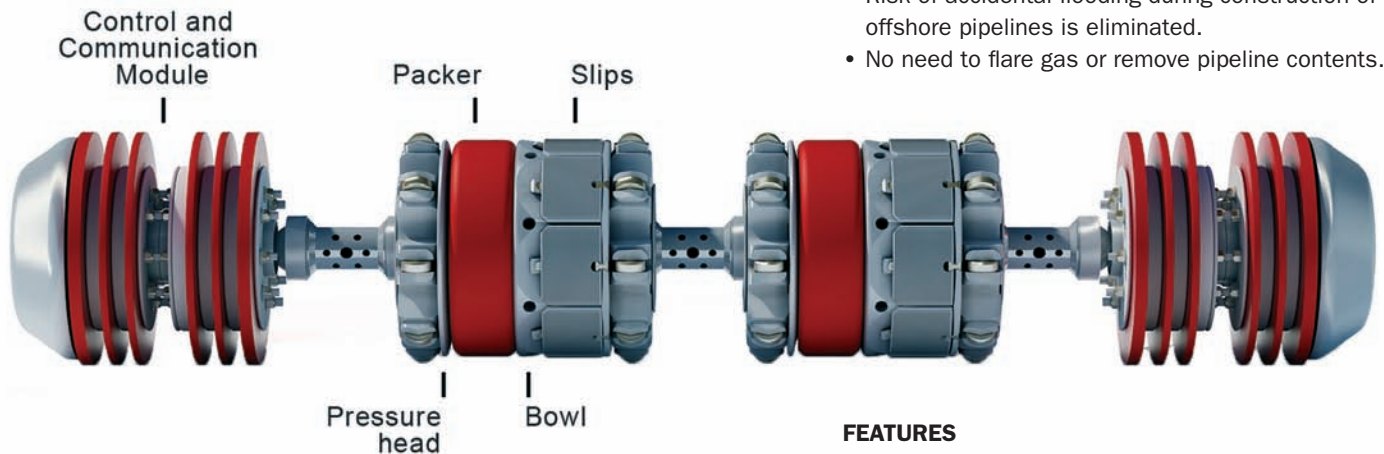
TDW has used the SmartPlug® technology to maintain production while facilitating hundreds of operations like these:

- Valve, riser and jumper repair and replacement.
- Pressure testing and leak detection of risers and pipelines.
- Tie-ins of deepwater flow lines and pipelines.
- Abandoned platforms and by-passes.
- Isolation of flex joints for repair.
- Protection of pipelines and inventory during construction and overhead lifting operations.



## Offshore Pipeline Solutions

Traditionally, hydrostatic testing of new pipe work takes place after an isolation operation is completed, causing delays. However, with its optional third plugging module, the SmartPlug® tool is the only system of its kind that makes it possible to test pipe work immediately after isolation, saving time and money.



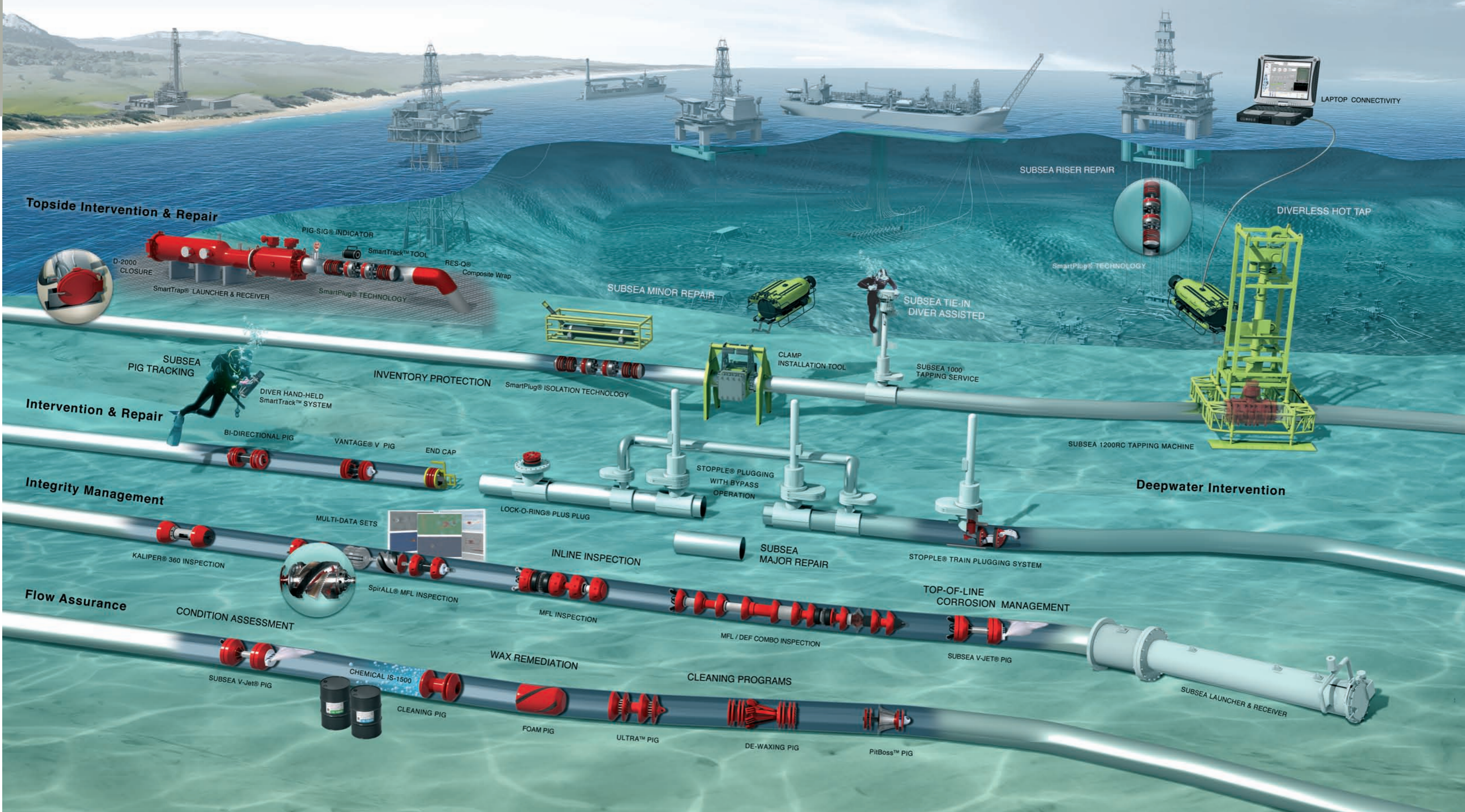
### BENEFITS

The SmartPlug® isolation method helps customers save money while protecting the environment. Intervention and repairs are completed with minimum disruption, meaning that:

- Blow down volume is eliminated or drastically reduced, minimizing release of hydrocarbon vapors.
- No need to treat chemicals or dispose of contaminated water before re-commissioning.
- No holes or potential leak points are left at the isolation location.
- Risk of accidental flooding during construction of offshore pipelines is eliminated.
- No need to flare gas or remove pipeline contents.

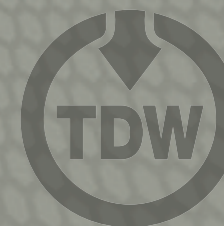
### FEATURES

- **Highly Piggable:** Bi-directional pigging functionality through flexible pipelines.
- **Versatile:** Can be used in every standard pipeline diameter (8" to 48") with any pipeline content or medium.
- **Intelligent:** Remotely operated SmartTrack™ system with ELF technology activates, tracks and operates the system, making positioning of the tool extremely accurate.
- **Adaptable:** Fully customized and configured to any project need, and capable of being deployed anywhere in the pipeline.
- **Safe:** Double-block isolation ensures high safety standards. Pre-set pressure alarms protect personnel and monitor isolation integrity. Plus, it is Det Norske Veritas (DnV) certified.
  - **Secure:** Self-locks in a fixed position using the pressure differential across the plugging module. Contingency release mechanism ensures that the system can be recovered if communication breaks down.



[www.tdwilliamson.com](http://www.tdwilliamson.com)

**T.D. Williamson**





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