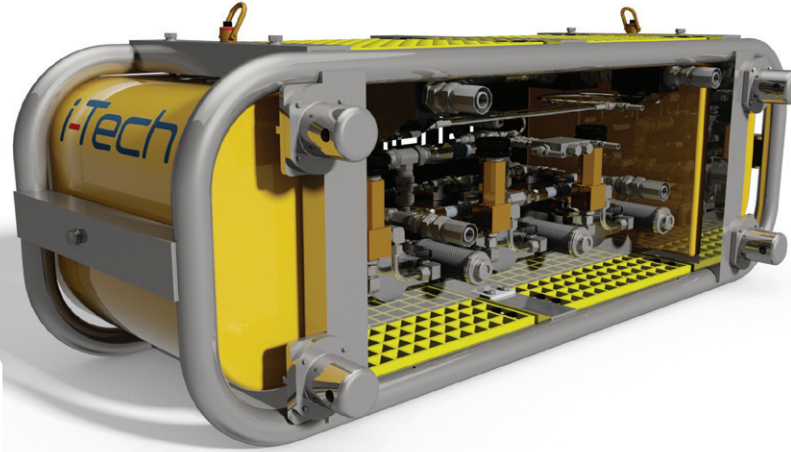


i-Tech Services
**FEATURED
PRODUCT**
MONTHLY | ISSUE 9



IP^{P5K} BOP SHEAR RAM DRIVE UNIT

De-risk drilling operations with cost effective contingency tooling. The i-Tech Services IP^{P5K} BOP Intervention unit is designed and tested to meet the industry standard requirements for the emergency closure of a subsea Blow Out Preventer (BOP). The IP^{P5K} can be deployed by a Work class ROV (WROV), enabling the forced closure of a well should other actuation methods fail, thus mitigating the economic and reputation impact of a runaway well.

Read about how we do it, *overleaf*.

We're a global provider of integrated engineering services and products throughout the oil and gas field life cycle. We focus on what matters most to you: reducing complexity, improving performance and lowering costs. We're all about using innovation and technology to unlock value.

IP^{P5K} BOP SHEAR RAM DRIVE UNIT

The IP^{P5K} system facilitates ROV override of a BOP's shear ram, a crucial element in regaining well control. The unit can be quickly and easily mobilised in backpack form, or can be incorporated within the ROV frame.

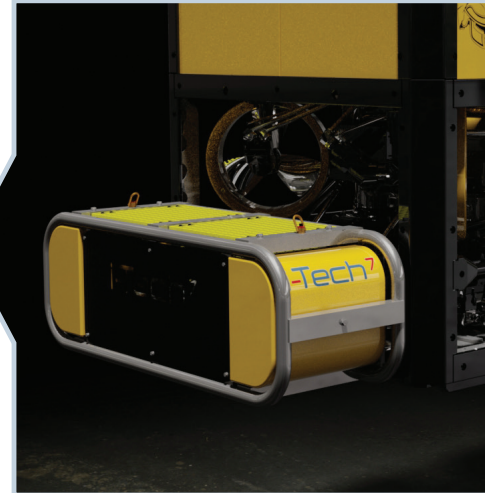
At the heart of the IP^{P5K} system is a triple pump system producing up to 137lpm at 5,000psi. A filtered seawater intake supplies the unit with the hydraulic medium to the required BOP interface. An incorporated inline relief valve prevents over pressurisation to maintain the integrity of the BOP hydraulics.

The IP^{P5K} system is easily interfaced to a WROV, without requiring costly upgrades to the ROV system. This mobility affords the operator greater control over when and where the IP^{P5K} is utilised.

Formal testing of the IP^{P5K} system has been carried out in accordance with API standards and witnessed by DNV GL. Testing mimicked "real life" ROV conditions by using a submerged ROV to power the IP^{P5K} system. This was shown to close a standard BOP in 40 seconds, within the 45 seconds required by API, whilst cutting through the higher specified drill pipe identified in the latest API 16A release.

Features of the IP^{P5K} system include:

- Pressure rating: 5,000psi (345bar) max
- Flow rate at 5,000psi: 137lpm
- Flow Rate at 3000psi: 187lpm
- Representative closure time: 40 seconds.



- Meets the industry requirements for the emergency closure of a BOP
- Compliant with API 53 and API 16A (PR2)
- DNV GL product verification statement
- Backpack mounted or integrated within the ROV frame
- For deployment on WROV system that support drilling operations.



Want to know more about our IP^{P5K} BOP Shear Ram Drive Unit?

Contact: itechservices.clientenquiry@subsea7.com

www.i-tech7.com

i-Tech Services is a Subsea 7 company