Active FRANK – Subsea Pigging Unit

FEATURE HIGHLIGHTS:

Active FRANK Overview
Kraken's engineering team has designed and built Active FRANK to improve efficiency and reduce the cost of flooding subsea systems while ensuring our clients piece of mind. Active FRANK was designed to be modular, compact, require limited support crew, and be ROV friendly. Our modular design means Kraken Subsea can adapted Active FRANK to meet our customers specific needs.

Subsea Flooding/Flushing
Active FRANK uses hydrostatic seawater head to flood subsea pipelines, the system can also be used to pig subsea pipelines. Once the hydrostatic pressure is no longer able to push the pig train a hydraulically powered subsea booster pump within the unit can be used drive the pig train into the receiver. Our modular design allows Kraken to select the correct pump for the application ensuring the system is optimised for our customers' requirements.

Autonomous Free-Flooding System
The autonomous systems onboard benefit from our extensive knowledge and experience in the pre-commissioning field. These systems regulate chemical treatment of the fluid entering the pipeline ensuring an even distribution of chemicals throughout the operation. The systems standard loadout includes an instrumentation package capable of recording volumes of filtered seawater and chemicals entering the pipeline.

Key Benefits
Significant reduction in crew, decrease deck space requirements, less thermal stabilisation time for hydrotesting, negligible CO_2 emissions, and modular for enhanced flexibility.

TECHNICAL SPECIFICATIONS:

Filter Spec	5-micron to 200-micron	
Flowrate	50 litres/min to 4,500 litres/min	
Subsea Pump	Various pumps up to 2,200 litres/min at up to 10.6 bar	
Chemical Capacity	Unlimited due to modular design (standard loadout up to 6 m³)	
ROV Requirements	Dirty Workpack	165 bar @ 60 litres/min*
Subsea Tie-in Connection	Flexible Hose rated for a depth of 3000 m . (Kraken's solution has been proven at 2,400m)	
Logged Data	Flowrate; Chemical Injection Volume; Total Volume; Time; Additional upon request	