

**Protect  
your  
crew  
and assets.**

**Crummock  
delivers  
without  
compromising  
production.**

**The growing threat of piracy means protecting your crew and assets is vital. Crummock has earned an international reputation for combating this threat.**

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Pirates or terrorists attempting to board or hijack vessels is not restricted to moving vessels. Stationary oil and gas facilities offer prime targets for valuables, IT equipment and hostages for ransom. The consequences of these actions are detrimental to the well-being of your crew and the negative publicity can compromise your brand and share price. Just as the safety of your crew is paramount, so too is the protection of your facilities and continued oil and gas production.

Crummock is leading the field in providing pre-emptive security systems to protect your people and business. Crummock can provide the design, fabrication and on location installation of security solutions that can include: threat detection, boarding prevention, access restriction, and a citadel (safe area) using certified bullet-proof doors and portholes, in the living quarters of your offshore oil and gas facilities. Should pirates board your facility, your crew will be safe until rescue services arrive.

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Design, supply and installation of detection systems, security lighting, CCTV and access control can be incorporated into our solutions to suit your requirements.

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Design of the citadel is undertaken in Nigeria or the United Kingdom. Replacement doors and windows are designed and fabricated in the UK.

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Certification and classification is to A60, ABS, Lloyds, DNV and MED and bullet-proof to UL752. Higher levels of ballistic certification are available.

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Crummock's Nigerian trained tradespeople undertake the offshore installation with minimal disruption to normal operations.

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Multidisciplinary tradespeople reduce the need for multiple visits and reduce accommodation requirements.

**Topside  
security  
solutions  
to protect  
crew.**

**On  
location  
upgrades  
to extend  
asset  
life.**

**To protect your crew and assets,  
contact Crummock by phone, email  
or through our website.**

**t (+234) 1 4613450  
e info.ng@crummock.com  
w www.crummocknigeria.com**

# Refurbish your living quarters.

# Crummock delivers without compromising production.

**Crummock excels at extending the life of your offshore assets  
and we have been instrumental in substantial upgrades to Living Quarters.**

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We deliver changes to the Living Quarters including the upgrade, or if necessary the construction of new galleys, the provision of cold, freezer and dry stores, HVAC systems, accommodation, washrooms and flooring.

Any assemblies that require construction are designed, fabricated and test-assembled in Nigeria or Scotland and then dismantled, shipped out, reassembled and installed by our own trained tradespeople. Our extensive experience and working practices ensure that complex refurbishments to extend the life of your assets don't compromise your production targets. Your asset stays on location whilst we refurbish.

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Crummock's Nigerian trained tradespeople undertake the offshore installation with minimal disruption to normal on-board operations.

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Multidisciplinary tradespeople reduce the need for multiple visits and minimise accommodation requirements.

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Design, fabrication and testing in Nigeria and Scotland with Scottish precision engineering using the finest quality materials.

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Requirements analysis and site survey to tailor our solution to your requirements and to your asset.

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Contact us on (+234) 1 4613450 or email [info.ng@crummock.com](mailto:info.ng@crummock.com) to discuss your requirements.

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# Replace those leaking water pipes.

# Crummock delivers without compromising production.

**The health and safety of your crew is of paramount importance especially when they are living and working hundreds of miles offshore.**

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Clean, fresh water is essential and Crummock knows how to combat the dangers inherent in providing this vital service. Bacterial infection of potable water supplies is prevented by chlorination. Running chlorinated water through copper and zinc piping, however, produces an electrochemical reaction that rots the pipes, resulting in heavy corrosion, leaks and blockages. This in turn produces dangerous and dirty water.

Apart from the health and safety issues, the danger of corroded piping also has a detrimental impact on the morale of the crew, which can then impact on production. Crummock will replace all your leaking or corroded pipes with composite piping. Composite piping offers a more cost-effective solution to traditional materials and leads to lower life cycle costs with minimal maintenance.

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Quicker installation as our composite pipes use quick patented compression fitting and are easily contoured and bent.

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Crummock's Nigerian trained tradespeople undertake the offshore installation with minimal disruption to normal on-board operations.

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Greater safety during replacement because patented compression fittings means pipe connections are crimped, therefore no hot work is required.

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Multidisciplinary tradespeople reduce the need for multiple visits and reduce accommodation requirements.

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Full certification for use offshore by ABS, DNV and Lloyds.

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