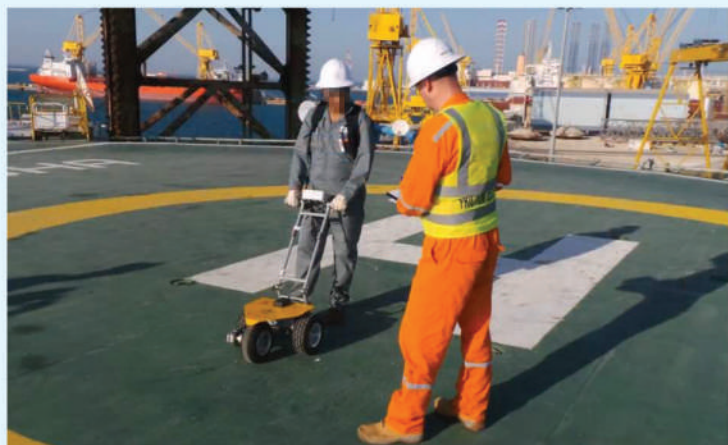


## HELIDECK FRICTION TESTING - UK CAA, CAP 437

CORROCOAT EGYPT- HELITECH / CAP COMPLIANT SERVICES; a Member of British Helicopter Association (BHA) specializes in Helideck Friction Testing on Offshore Installations and Vessels with a team of trained technicians. Elevated helipads and offshore helidecks that do not use a helicopter landing safety net, are required to have an adequate friction surface. CAP 437- Edition 8 (December 2016) clearly specifies an acceptable level of friction and the only way to properly assess the resistance to helicopter slippage and skidding is by a formal and comprehensive friction test.



HFT is conducted using the latest friction measuring equipment micro Grip Tester (MGT). Our friction measuring devices and methodology meets all the strict requirements under UK CAA, CAP 437 - Edition 8 (December 2016). Those of us involved in the offshore industry know more than most about the importance of safe working and risk management. With this in mind, regular helideck friction testing gives offshore installation operators the assurance needed to remove helideck landing nets.

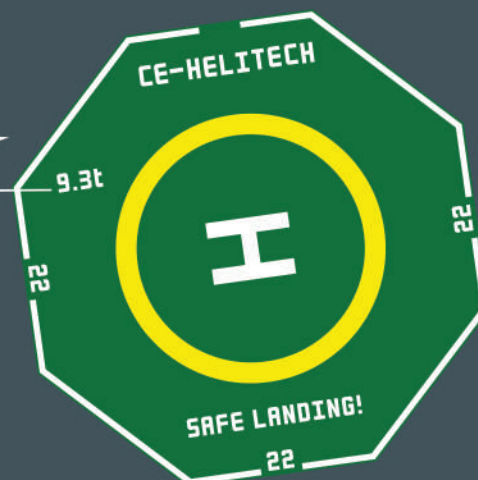
Corrocoat Egypt provide professional CAP 437 Inspections in the region and by utilizing a friction test, we can now offer the complete local service cheaper, quicker and with far greater flexibility.

### ENGINEERING

- ENGINEERING REFURBISHMENT  
Pumps / Valves / Tanks / Vessels / Pipelines
- INDUSTRIAL STEEL WORKS  
Welding / K-Nodes / Steel Replacement / Anodes
- SPECIALISED INSPECTIONS  
NDT / MPI / QA-QC / UT
- UNIQUE TECHNOLOGIES  
Tie Back Clean Out Tool / Sub Sea Positioning Equipment

### SERVICES

- HELIDECK CAP COMPLIANT SERVICES  
Friction Testing / Lighting System / Special Services
- SURFACE PROTECTION & TREATMENT  
Surface Cleaning / Surface Preparation / Surface Protection
- MATERIAL & EQUIPMENT SUPPLY  
Abrasives / HP - UHP Eqp. / JALITE Safety Signs
- CERTIFIED EXPERTISE SUPPLY  
Approved Coating Applicators / Cert. SSPC, NACE, IRATA



### CE-HELITECH RELATED SERVICES:

HELIDECK LIGHT SYSTEM – UK CAA, CAP 437; CAP 1077  
HELIDECK SPECIAL SERVICES – UK CAA, CAP 437





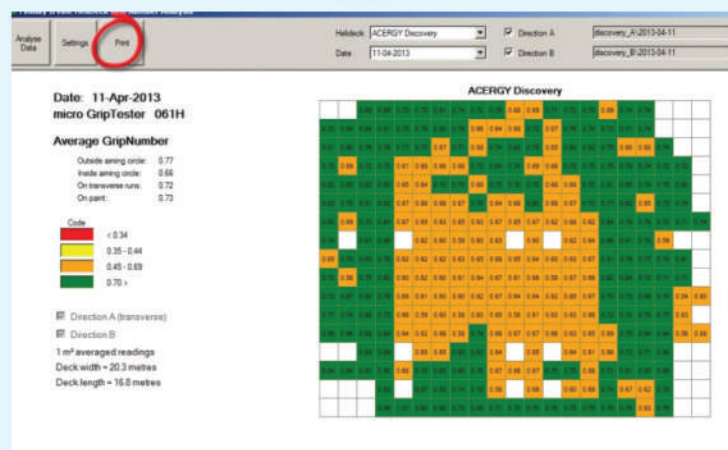
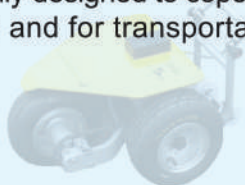
CAP COMPLIANT SERVICES

► Ready to serve you well ...



BRITISH HELICOPTER ASSOCIATION

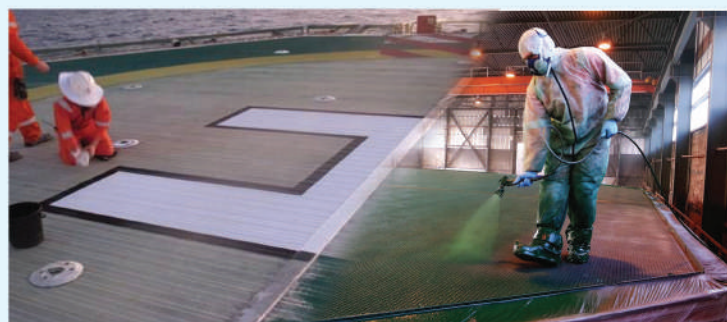
Helideck micro Grip Tester is the world's first purpose built continuous friction measuring device designed specifically for testing Helidecks and Helicopter Landing Zones. It has been specifically designed to cope with the harsh offshore environments and for transportation too hard to reach installations.



Initially designed for Oil and Gas fields, it has now been adopted as the industry standard across the world. The micro Grip Tester is fully compliant with UK CAA CAP437- Edition 8 (December 2016) and was designed in cooperation with the HCA.

Using the same locked wheel system as Grip Tester MK2 and micro Grip Tester it provides Helideck Operators with an accurate friction map to focus maintenance and remove the need for nets.

Helideck micro Grip Tester's light weight, robust construction and reliable performance make it the most deployable push friction tester in the world.



#### ■ HELIDECK RECOATING APPLICATION

In case required parameters of surface friction are not achieved, CORROCOAT EGYPT can carry out Helideck recoating including the application of a Anti-Slip aggregate so as to meet the UKCAA, CAP437 - Edition 8 (December 2016) friction Standard.

#### Extract from UK CAA, CAP 437 Standards for Offshore Helicopter Landing Areas, Edition 8 (December 2016):



3.37 The landing area should present a non-slip surface for helicopter operations. The installation operator should ensure that the helideck is kept free from oil, grease, ice, snow, excessive surface water or any other contaminant (particularly guano) that could degrade the surface friction. Assurance should be provided to the helicopter operator that procedures are in place for elimination and removal of contaminants prior to helicopter movements.

3.38 The minimum average surface friction values that should be achieved are detailed in Table 2. The average surface friction values should be confirmed using a test method acceptable to the CAA – see paragraphs 3.39, 3.40 and 3.41.

**Table 2: Friction requirements**

Section of helideck	Fixed helideck	Moving helideck
Inside TD/PM circle	μ 0.60	μ 0.65
TD/PM circle and H painted markings	μ 0.60	μ 0.65
Outside TD/PM circle	μ 0.50	μ 0.50

3.39 For flat helidecks with a micro-texture finish(e.g. non-slip paint or grit-blasted finish), the helideck friction test method should normally comprise the following:

- A survey of the entire helideck surface in two orthogonal directions to a resolution of not less than 1 m<sup>2</sup>;
- Use of a tester employing the braked wheel technique and a tyre made of the same material as helicopter tyres.
- Testing in the wet condition using a tester that is capable of controlling the wetness of the deck during testing
- Use of a tester which provides electronic data collection, storage and processing.

An example test protocol based on the use of the Findlay Irvine MICRO GRIP TESTER.

NOTE 1: No two adjacent 1 m squares should achieve less than the average surface friction value specified in paragraph 3.38 above.

NOTE 2: Where TD/PM circle and 'H' lighting is installed, testing of the TD/PM circle and 'H' painted markings is not required.

3.40 The helideck should be re-tested annually or when the condition of the deck suggests more frequent testing is appropriate, e.g. build-up of guano or other contaminant(s).



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