

## ***And They Said It Would Never Work...***

**Extensive testing of the CGear Tactical Helimat by military organisations world wide has been extremely successful and attracted praise from military personnel for the Tactial Helimat's unique ability to eliminate Brownout and FOD from Helicopter landings.**

**Yet some sectors of the military were sceptical how the mat would perform under the harsh and extreme conditions that a large double rotor helicopter would present.**

**Recent testing of the Tactical Helimat in Abu Dhabi in November 2007 used a Chinook helicopter. The CGear Tactical Helimat worked exactly as it was designed eliminating Brownout and FOD.**

**Footage of this testing can be viewed on the CGear website. [www.cgear.com](http://www.cgear.com), click through to military section of the site and under the DVD downloads section the footage can be viewed under the title 'Abu Dhabi Testing Nov 2007'.**

### ***Tactical Helimat***

The CGear Tactical Helimat has been designed and manufactured to quickly and simply solve the problem of 'Brownout' on helicopter-landing zones.

The unique ability of the helicopter to hover above, take off from, and land on unprepared areas – deserts, rocky fields, mountain tops - makes it vulnerable to 'Brownout' the phenomenon of dust and foreign object debris (FOD) thrown up by the helicopter rotor downwash.

A 'Brownout' can occur whether landing, taking off, or hovering. It can blind operators, sandblast and erode helicopter rotor blades, and force sand into sensitive engine parts, filters and can effect the helicopters sensitive electronic equipment.

The cost of 'Brownouts' is vast. In Iraq, Afghanistan and North Africa 'Brownouts' caused three out of every four helicopter accidents, with unnecessary loss of lives and hundreds of millions of dollars of equipment.

The CGear Tactical Helimat prevents 'Brownout' with multi-layering of polyethylene mesh with a unique open-weave design. It inhibits the sand and dust underneath from coming back up – even when pounded by the most powerful rotor down wash.

The Helimat is easy to deploy, being lightweight and easily transportable. It is also tough and durable. The fabric will not tear or fray because of its 'Rip Stop' weave technology and it is impervious to petrochemicals.

The size of each segment is 20 feet by 20 feet (6.1 metres by 6.1 metres). Sizing of the helimat is dependant on the rotor span of each particular helicopter, with dimensions of the helipad approximating 33 feet (6.1 metres) wider than rotor span, in all directions.

The 100 ft by 100 ft (30.5 metres x 30.5 metres) helipad configured with 25 segments (suitable for a 'Black Hawk', 'Huey' or 'Super Puma') can be contained in less than 211 cubic feet, 6 cubic metres. A 'Chinook' would require a configuration of 6 by 6 Helimat segments [120 feet by 120 feet (36.6 metres by 36.6 metres).

The CGear Tactical Helimat has been extensively tested by the US Marine and other military organisations. In US Marine Corps trials at Navair Lakehurst Airbase, the CGear Tactical Helimat stood fast, even when the Marines attempted to lift and rip apart CGear's joining and anchoring systems using a 'Huey', a 'Black Hawk', and a 'Super Stallion' helicopter. There was no risk of the Helimat being sucked up and tangled in the rotors when correctly installed. Footage of this testing can be viewed on the CGear website. [www.cgear.com](http://www.cgear.com)

The Tactical Helimat can be purchased complete in a 'Fly-away kit', including fixing system, 'Whacker', repair kit and 'How To' book.

A newly developed night vision version of the CGear Tactical Helimat can now be purchased.

### **Applications**

The CGear Tactical Helimat provides a stable, safe helipad in the desert, snow or any arid or dangerous condition where Brownout or FOD occur.

The shape of the CGear Tactical helipad can be customised to suit individual requirements, and it can be quickly and easily moved from one task to another.

It can be packed up and deployed at Forward Arming and Refuelling Points (FARPS) increasing helicopter 'time over target'.

### **Lightweight Flooring**

The CGear flooring mats are made from similar materials to the Tactical Helimat. The innovation comes from the use of multi layering mesh that allows sand and dirt to fall through the mat and not return to the surface.

Construction of the lightweight flooring comprises two layers of woven polyethylene mesh sewn together, with reinforced binding at the edges. It is contained in a carry bag made from the same mesh with drawstring closing. Fixing eyelets are brass with black oxide treatment.

Forest Green, Black and Sandstone are typical colours available for the flooring. A customised colour range can be ordered for volume production runs.

Current production is sized on the two standard Australian Army issue tents 11 feet by 11 feet (3.7 metres by 3.7 metres) and 14 feet by 14 feet (4.2 metres by 4.2 metres). The flooring can be ordered in sizes as required subject to volume.

### **Company Profile**

CGear Australia Pty. Ltd. was established in May 2003 to hold patents that cover technology of multi layered polyethylene mesh.

Continual research and development by the CGear team has seen the introduction of products for use by the military and the outdoor/recreational markets. These two divisions of CGear are internationally recognised innovators in these specialised fields.

The CGear Tactical Helimat is currently distributed throughout: USA, United Kingdom, Netherlands, Belgium, Germany, Norway, Denmark, Italy, Greece, Israel, Turkey, India, South Korea, Portugal and Singapore.

The CGear Recreational Division is currently retailing the CGear Multimat throughout Australia. The Multimat uses the same synthetic meshing system as the Tactical Helimat. Its application in the camping and recreation has been a huge success with over 120 retailers stocking the products nationally.

The CGear team continues to expand and further develop their product range in both the military and outdoor/recreational markets and will be launching new product ranges in the coming months.

For further information please contact CGear's CEO, Glen Sinclair-Gibson

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**PRESS RELEASE**



**Chinook\_1.tif**



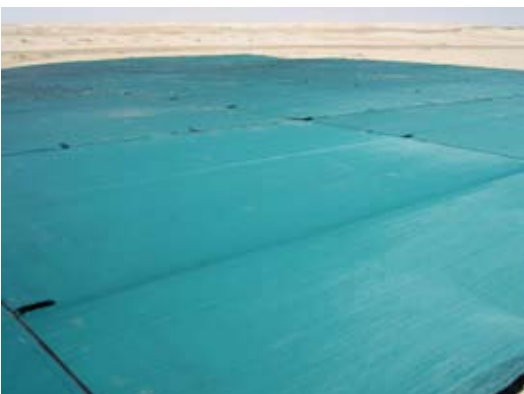
**Chinook\_2.tif**



**Chinook\_3.tif**



**Chinook\_4.tif**



**Tactical Helimat Set Up\_1.tif**



**Tactical Helimat Set Up\_2.tif**



**Tactical Helimat Set Up\_3.tif**