DRONESTOP®
COUNTER-UAS SHIELD

Capability Statement



A High-Performance Counter-UAS Solution by KnitMesh Technologies

KnitMesh® Technologies

Protecting People, Property and our Planet

DRONESTOP®
COUNTER-UAS SHIELD

Overview

DroneStop® is a high-performance counter-UAS solution developed, manufactured, and tested by KnitMesh Technologies in the UK.

Established in 1957, KnitMesh Technologies is a global leader in bespoke knitted wire mesh solutions for defence, military, prison security, and critical infrastructure applications. Headquartered in the United Kingdom, with an additional manufacturing facility near New Delhi, India, the company brings more than 70 years of engineering expertise to some of the world's most demanding operational environments.

Developed specifically for military and prison security applications, DroneStop® provides a lightweight, high-strength physical barrier designed to help mitigate the risks posed by hostile and unauthorised drones as part of a layered Counter-UAS strategy. The stainless steel mesh maintains visibility, natural light, and day-to-day operations, complementing electronic and procedural countermeasures with a passive physical barrier.

DroneStop® is designed to integrate with existing security infrastructure and can be deployed as either a permanent installation or a rapid-response solution. Lightweight, durable, and low maintenance, it supports a defence-in-depth approach to evolving drone threats while preserving operational effectiveness.

Manufactured from 304L stainless steel, with 316L marine-grade options for above-water marine applications and Duplex stainless steel options for below-water marine applications, DroneStop® can be configured using twin or single filament constructions, a range of finishes, and optional reinforcement variants to meet specific operational requirements. The lightweight, corrosion-resistant design supports long service life and straightforward integration into both permanent and rapidly deployable security installations.



Applications

Military and Defence

- Military bases and operational facilities
- Bulk fuel installations (BFIs)
- Ammunition depots and munitions storage areas
- Vehicle parks and equipment compounds
- Aircraft hangars and rotary-wing facilities
- Radar and critical communications infrastructure
- Forward and Main Operating Bases (FOBs/MOBs)
- Accommodation areas, mess facilities, walkways and courtyards
- Critical National Infrastructure (CNI)
- Trench systems and protected positions
- Medical and field healthcare facilities
- Electricity sub-stations and transformer rooms

Prison and Correctional Security

- Exercise yards and accommodation areas
- Perimeter security systems
- Secure compounds, movement corridors and transfer areas

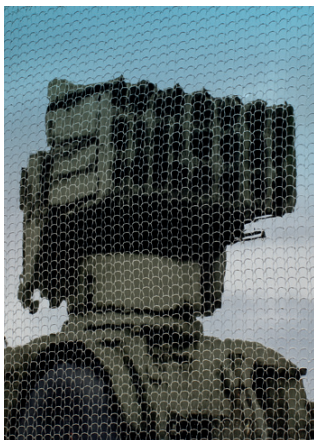
DroneStop® adds a physical layer to modern Counter-UAS defence-in-depth strategies.



Key Benefits

- **A Layered Approach:**
  Works alongside existing Counter-UAS measures
- **Passive Protection:**
  No power, jamming, or RF interference required
- **Physical Drone Mitigation:**
  Helps reduce the risk of unauthorised drone access
- **Lightweight Construction:**
  Reduces structural loads and installation time
- **Rapid Deployment Capability:**
  Suitable for temporary or permanent use
- **Rapid Repair Capability:**
  Repair kits allow damaged sections to be replaced quickly
- **Fire Resistant Construction:**
  Stainless steel mesh will not burn or propagate flames
- **Maintains Visibility and Natural Light:**
  Supports operational continuity and site visibility
- **High Strength and Durability:**
  Engineered for demanding environments
- **Low Maintenance Requirements:**
  Corrosion-resistant and built for long service life
- **Bespoke Engineering Solutions:**
  Tailored to specific operational requirements









DRONESTOP®
COUNTER-UAS SHIELD

Specifications

	0.28mm Twin Filament Temporary Installations	0.40mm Single Filament Permanent Installations
• **Material**	304L Stainless Steel (316L and Duplex available on request)	304L Stainless Steel (316L and Duplex available on request)
• **Mass**	1,500g/m²	1,500g/m²
• **Optional Reinforcement**	UHMWPE Fibre Reinforcement*	UHMWPE Fibre Reinforcement*
• **Finish Options**	Plain or Camouflage	Plain or Camouflage
• **Roll Widths**	950mm (other widths available on request)	950mm (other widths available on request)
• **Roll Lengths**	Bespoke (typically 15m)	Bespoke (typically 15m)

* UHMWPE: Ultra-High Molecular Weight Polyethylene

Additional technical information, performance data and supporting documentation are available upon request. Please contact our team for further information.

KnitMesh® Technologies | DRONESTOP® COUNTER-UAS SHIELD

The information in this document is believed to be accurate at the time of publication and is provided for general guidance only. Specifications are subject to change without notice. Product performance may vary depending on application, installation and operating conditions.