



**Mahavir SpinFab**

Fabric | Garment



# Defence Textile Solutions



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**Mahavir Spinfab** is a leading innovator and producer of textile systems, developed for the safety of humans. We work with various industries and defence organisations, delivering them innovative products – to protect their people from life-threatening situations.

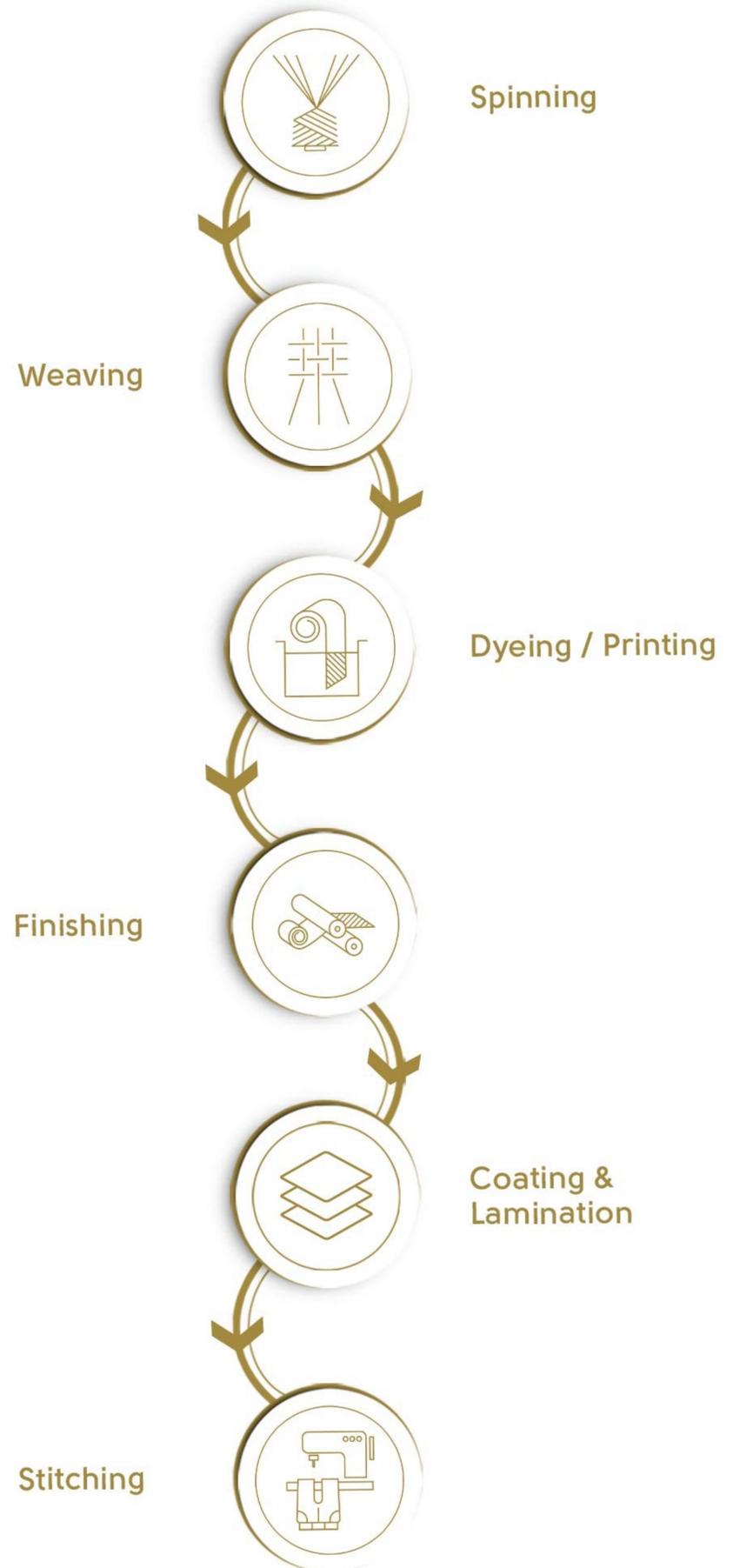
**Established in 1995**, with a vision to harness the advancements in technical textiles to produce garments and safety solutions for challenging environments. The organisation started as small coating facility in Kanpur, India. Since then, we have grown, both vertically and horizontally, expanding and cultivating our team and capabilities.

Innovation stands as one of **Mahavir Spinfab's** three core values. Our internal laboratories enable rigorous testing of raw materials and products throughout the development process. With a team of highly qualified professionals in our research and development department, we prioritize our customers, delivering customized, innovative, and high-quality solutions swiftly. This commitment ensures that we meet evolving needs while maintaining the highest standards of excellence.

**Mahavir Spinfab** is a leading textile company dedicated to sustainability. Acknowledging the substantial environmental impact of the textile and workwear industries, we are actively reducing our environmental footprint and promoting sustainable practices across our supply chain

## Our Capabilities

Owing towards our commitment – we control the manufacturing process – right from the fiber stage. We weave, process, finish and fabricate everything in-house. We have developed an expertise in textile and apparel technology and continue to leverage it to build robust systems that can withstand the test of time and the challenging environments that they can be used in.



# Army Combat Suit

This uniform is designed specifically for defence forces, offering a perfect blend of comfort, lightweight construction, and durability for tactical operations. Made from NFPA-compliant non-melting Aramid fabric, it provides superior protection and performance in demanding environments, ensuring that combat soldiers are equipped with the highest quality gear for mission success.

## Design features :

- Contemporary fold down collar for a neat, professional appearance
- Zippered with hook & loop front closure for a smooth uniform appearance.
- Longer loop faced shoulder pockets for patches and skill tabs with front zipper closure and glint tape above pocket.
- Button cuff closure with 3-button hole positions for convenient adjustment.
- Trousers are designed for excellent manoeuvrability. Built for comfort and ease of functionality.
- Reinforced seat and knees for rugged usage specially while running and bending movements.



## Fabric Properties :

Fabric	: Aramid
Composition	: Meta Aramid, Para Aramid, Antistatic
Weight	: 150 - 220 GSM
Properties	: Inherent Flame Resistant and Antistatic

## Can be customised

# Naval Combat Suit

This uniform is expertly designed for defence forces, offering the ideal combination of comfort, lightweight construction, and durability, making it perfect for tactical operations. Built from cotton-rich fabric, it provides a comfortable and breathable solution for personnel in the field, while meeting the rigorous demands of military service.

## Design features :

- Contemporary fold down collar for a neat, professional appearance
- Zippered with hook & loop front closure for a smooth uniform appearance.
- Longer loop faced shoulder pockets for patches and skill tabs with front zipper closure and glint tape above pocket.
- Button cuff closure with 3-button hole positions for convenient adjustment.
- Trousers are designed for excellent manoeuvrability. Built for comfort and ease of functionality.
- Reinforced seat and knees for rugged usage specially while running and bending movements.



## Fabric Properties :

Fabric	: Cotton Rich
Composition	: 80% Cotton, 20% Polyester
Weight	: 180 - 240 GSM
Properties	: Mercerised and Pre-Shrunk

## Can be customised

# Forest Combat Suit

This uniform is specifically designed for defense forces, offering the perfect balance of comfort, lightweight construction, and durability for tactical operations. Engineered from NFPA-compliant treated FR fabric, the material provides reliable flame resistance, ensuring safety in environments where exposure to heat or fire is a risk.

## Design features :

- Contemporary fold down collar for a neat, professional appearance
- Zippered with hook & loop front closure for a smooth uniform appearance.
- Longer loop faced shoulder pockets for patches and skill tabs with front zipper closure and glint tape above pocket.
- Button cuff closure with 3-button hole positions for convenient adjustment.
- Trousers are designed for excellent manoeuvrability. Built for comfort and ease of functionality.
- Reinforced seat and knees for rugged usage specially while running and bending movements.



## Fabric Properties :

Fabric : FRC 700  
Composition : 100% Cotton  
Weight : 250 GSM  
Properties : Flame Resistant and Antistatic

## Can be customised

# Greenland Combat Suit

This uniform is designed specifically for defence forces, offering a perfect blend of comfort, lightweight construction, and durability for tactical operations. Made from NFPA-compliant non-melting Aramid fabric, it provides superior protection and performance in demanding environments, ensuring that combat soldiers are equipped with the highest quality gear for mission success.

## Design features :

- Contemporary fold down collar for a neat, professional appearance
- Zippered with hook & loop front closure for a smooth uniform appearance.
- Longer loop faced shoulder pockets for patches and skill tabs with front zipper closure and glint tape above pocket.
- Button cuff closure with 3-button hole positions for convenient adjustment.
- Trousers are designed for excellent manoeuvrability. Built for comfort and ease of functionality.
- Reinforced seat and knees for rugged usage specially while running and bending movements.



## Fabric Properties :

Fabric : Ara Eco Plus  
Composition : Aramid, FR Viscose  
Weight : 150 - 220 GSM  
Properties : Inherent Flame Resistant and Antistatic

**Can be customised**

# Inherent Flame Resistant Flying Overall

These suits, made from aramid fabric (like Nomex or Kevlar), offer essential properties such as heat resistance, durability, and lightweight comfort. They meet important safety standards like NFPA (National Fire Protection Association) for fire resistance and MIL-C-83141 for military specifications.

## Design features :

- 2-way Flame Retardant zip at front with protective flap underneath.
- Adjustable waist & sleeves cuff ensures better manoeuvrability.
- Utility pockets: A right and left chest pocket, a pocket on each leg, a pocket on inner left thigh. All pockets are with zipper closure.
- A knife pocket at lower part of right leg with press-stud closure and flame retardant quick-release cord and a pencil pocket on left sleeve with zipper closure.
- Reinforced shoulder preventing tear and improve motion.
- Seams felled through out for high durability.
- Ergonomically designed for Comfort & ease of movements.
- Customization possible.



## Fabric Properties :

Fabric : Aramid  
Composition : Meta Aramid, Para Aramid, Antistatic  
Weight : 150 GSM  
Properties : Inherent Flame Resistant and Antistatic

## Available in :



# AIR FORCE JACKET

The Air Force aramid jacket seems to be a high-quality garment designed to provide excellent protection in demanding environments. Constructed with high-performance aramid fibers like Nomex or Kevlar, this jacket is specifically engineered for resilience against heat, flames, and abrasions—key considerations for aviation personnel and military applications.

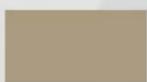
## Design features :

- Perfect for high-intensity operations, this jacket ensures safety without compromising mobility.
- Front zipper closure with storm flap.
- Fully lined double-stitched cargo pockets with Velcro closure.
- Tonal Velcro patch

## Fabric Properties :

Outer Layer : Aramid 450  
Inner Layer : Aramid 450  
Middle Layer : Padding Insulation  
Composition : Meta Aramid, Para Aramid, Antistatic  
Weight : 150 GSM  
Properties : Inherent Flame Resistant and Antistatic

## Available in :



# ECC JACKET

The ECC Jacket is specifically designed for defense forces, offering a combination of comfort, lightweight construction, and durability, making it ideal for tactical operations. Made from high-quality polyamide fabric, the jacket is built to military specifications to ensure optimal performance for combat soldiers.

## Design features :

- Suitable for 11,000 ft, sub-zero temperatures up to -10 °C, wind velocity up to 40 km/h.
- Thermal Insulation : Min. 3.0 Clo, weight  $\leq$  3.0 kg
- Water Vapour Transmission : Effective for comfort.
- Multiple layers for flexibility based on cold intensity and individual metabolic response.

## Serge Polywool Fabric Properties :

Outer Layer : Polyamide  
Middle Layer : Microfill  
Inner Layer : Fleece



## ECC TROUSER

### Wind Cheater & Serge Polywool

The ECC Trousers, a combination of wind cheater and serge polywool fabric, is designed specifically for defense forces. This uniform offers the perfect balance of comfort, lightweight construction, and durability, making it ideal for tactical operations.

#### Design features :

- Contemporary fold down collar for a neat, professional appearance
- Zippered with hook & loop front closure for a smooth uniform appearance.
- Longer loop faced shoulder pockets for patches and skill tabs with front zipper closure and glint tape above pocket.
- Button cuff closure with 3-button hole positions for convenient adjustment.
- Trousers are designed for excellent manoeuvrability. Built for comfort and ease of functionality.
- Reinforced seat and knees for rugged usage specially while running and bending movements.

#### Serge Polywool Fabric Properties :

Fabric : Polywool  
Weight : 425 GSM

#### Wind cheater Fabric Properties :

Fabric : Nylon 75 PU  
Weight : 75 GSM



# Rain Poncho

Constructed from high-quality PU coated polyester, this poncho is both durable and waterproof, offering exceptional protection against rain and moisture. Designed specifically to withstand harsh weather conditions, ensuring you stay dry and comfortable.

## Design features :

Rain Poncho Made from high-quality PU coated polyester durable and waterproof for excellent rain protection.

- Rainproof quick-drying poncho.
- Hood with drawstring and cord adjuster.
- Snap buttons along the sides and metal eyelets in corners.
- All stitch lines are sealed using seam seal tape.

## Fabric Properties :

Fabric : NTEX 75  
Composition : Nylon 6,6  
Weight : 85 gsm  
Properties : PU Coated

## Can be customised



# Sleeping Bag

Our military sleeping bag offers exceptional warmth and protection in diverse terrains. Crafted with durable, high-quality materials, it ensures comfort and reliability during prolonged use. Designed to withstand harsh weather, its insulation keeps you warm, while the breathable fabric prevents overheating. Ideal for long missions, it combines durability and comfort, making it an essential part of your gear for any environment.

## Design features :

- The sleeping bag is quite soft, comfortable, skin-friendly and waterproof.
- 100% Polyester with a double layer allows perfect ventilation without exposing you to harsh weather.
- It comes with a thermal channel throughout the zip, comfort collar, and curling aid roll controls.
- Hood with drawstring cord helps you cover your head and allow you to snugly protect your head from the cold weather.

## Fabric Properties :

Outer Layer : Nylon 75R  
Inner Layer : Nylon 75R  
Insulation : Polyfill  
Weight : 75 GSM  
Shape : Mummy

## Can be customised



# Army

## Tactical Polo T-Shirt

This Army tactical Polo T-Shirt is built for army personnel, combining performance, protection, and comfort. Made from durable, breathable fabric, it ensures ease during field operations. Camouflage sleeves enhance concealment, while the beige torso provides ventilation under body armour. With utility sleeve pockets and a reinforced collar, it delivers reliable functionality and endurance in demanding military conditions.

### Design features :

- Durable cotton-polyester blend offering breathability, flexibility, and long-lasting comfort.
- Contemporary fold down collar for a neat, professional appearance.
- Tactical utility pockets placed on the sleeves for small essentials like pens, ID cards, or field tools.
- Hook-and-loop Velcro patch area on both right sleeve for easy attachment of unit insignia and name tags.
- Standard tactical buttons with reinforced stitching on placket and velcro on cuffs to ensure reliability and quick adjustability during operations.

### Fabric Properties :

Composition : Polyester Cotton  
Weight : 180 - 190 GSM  
Properties : Camouflage Printed

### Available in :



### Can be customised



# Army

## Tactical Round Neck T-Shirt

This Army Tactical Roundneck T-shirt is designed for army personnel, blending comfort, protection, and mobility. Its durable beige body with digital camouflage sleeves offers concealment and breathability. Reinforced stitching ensures durability, making it an ideal base layer under body armour for reliable tactical performance.

### Design features :

- Premium cotton-polyester blend for optimum breathability, moisture management, and durability in rugged field conditions.
- Crew-neck design with reinforced rib binding for comfort and shape retention.
- Reinforced double-needle and flatlock seams to prevent irritation and ensure long-term durability.
- Athletic silhouette that ensures mobility, comfort, and professional appearance both in training and on duty.

### Fabric Properties :

Composition : Polyester Cotton  
Weight : 180 - 190 GSM  
Properties : Camoflauge Printed

### Available in :



### Can be customised



# Next Gen Multi Spectral Camouflage Net (MSCN)

## Woodland & Plain

The Next Gen Multi Spectral Camouflage Net (MSCN) – Woodland & Plain delivers advanced concealment with real-terrain, non-repeatable printing and a dual-terrain reversible design. Lightweight and low in thermal transmission, it ensures superior stealth and mobility while providing complete multi-spectral protection from UV to Radar.

### Advanced Features :

- Non Repeatable Camouflage Printing
- Real Terrain Camouflage Printing
- Dual Terrain Reversible Design
- 1 : 1 Printing Resolution
- Thermal Transmission < 20%
- Ultra-Light Weight GSM <285.

### Other Features:

- Inherent Fire Retardant
- Light & Washing Fastness >4
- Low Water Absorption
- High Printing Resolution
- Rugged construction
- Cost Effective

### MSCN Properties :

✓  
UV  
(Ultra violet)

✓  
NIR  
(Near Infrared)

✓  
VIS  
(Visual)

✓  
MW  
(Radar)

✓  
TIR  
(Thermal Infrared)

✓  
SWIR  
(Short Wave Infrared)



# Next Gen Multi Spectral Camouflage Net (MSCN)

## Desert & Semi-Desert Terrain

The Next Gen Multi Spectral Camouflage Net (MSCN) – Desert & Semi-Desert Terrain delivers advanced concealment with real-terrain, non-repeatable printing and a dual-terrain reversible design. Lightweight and low in thermal transmission, it ensures superior stealth and mobility while providing complete multi-spectral protection from UV to Radar.

### Advanced Features :

- Non Repeatable Camouflage Printing
- Real Terrain Camouflage Printing
- Dual Terrain Reversible Design
- 1 : 1 Printing Resolution
- Thermal Transmission < 20%
- Ultra-Light Weight GSM <285.

### Other Features:

- Inherent Fire Retardant
- Light & Washing Fastness >4
- Low Water Absorption
- High Printing Resolution
- Rugged construction
- Cost Effective

### MSCN Properties :

- ✓ UV (Ultra violet)
- ✓ NIR (Near Infrared)
- ✓ VIS (Visual)
- ✓ MW (Radar)
- ✓ TIR (Thermal Infrared)
- ✓ SWIR (Short Wave Infrared)







## Infrastructure

4  
Production units

2000  
Skilled  
Workforce

Exporting to  
50+  
Countries

From  
FIBER  
to  
FINISH

## Production Capacity

1.4M  
meters fabric  
per month

400K  
Garments  
per month

## Certification





**Mahavir SpinFab**

Fabric | Garment



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