



DELIVERING  
**DYNAMIC**  
**PERFORMANCE**  
IN DIVERSE APPLICATIONS



**CUSTOMIZED TEXTILE COMPOSITES  
REINFORCING EXCELLENCE**



**HEADQUARTERS :**

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**SKAPS INDUSTRIES INDIA PVT. LTD.**

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Manufacturing of technical textiles require innumerable varieties of raw materials, processes, product applications and most importantly high degree of expertise. SKAPS delivers that precise edge to your composites business through innovation, excellence and expertise.

We are a market leader in developing, manufacturing and supplying technical textiles like fiber glass multi-axial fabrics, woven roving fabrics, stitch mat, combi-mat and flowmat. Our composite fabric solutions are highly sought-after for their hall mark quality, cost-efficiency and innovation. Driven by commitment of continuous excellence, we are ready to gear up your composites business for high performance.

## Reliable partner for textile applications in...

- Wind Energy
- Marine/Sports
- Transport/Aerospace
- Civil/Oil/Gas/Chemical
- Pultruded Profiles
- Defence

Product Description	Input Glass Yarn	Weight Range		Width Range	
		Minimum	Maximum	Minimum	Maximum
Unidirectional (0° or 90°)	E/E-CR Glass Fibre	400 g/m <sup>2</sup>	1700 g/m <sup>2</sup>	100 mm	2540 mm
Bidirectional (0° , 90°)	E/E-CR Glass Fibre	200 g/m <sup>2</sup>	2400 g/m <sup>2</sup>	100 mm	2540 mm
Double Bias (±20° to ±60°)	E/E-CR Glass Fibre	265 g/m <sup>2</sup>	1500 g/m <sup>2</sup>	100 mm	2540 mm
Triaxial (0°, 90° +/- 20° to +/- 60°)	E/E-CR Glass Fibre	600 g/m <sup>2</sup>	2400 g/m <sup>2</sup>	100 mm	2540 mm
Quadraxial (0°, 90° +/- 20° to +/- 60°)	E/E-CR Glass Fibre	300 g/m <sup>2</sup>	1800 g/m <sup>2</sup>	100 mm	2540 mm
Flow Mat (CSM + PP Core + CSM)	Refer TDS				



# MULTIAXIAL FABRICS FOR TRANSPORT & AEROSPACE INDUSTRY

Over the years, public transportation has emerged as the best solution for traffic management and reducing carbon footprint in developed and developing nations. **SKAPS Multiaxial Fabrics** are ideally aligned to help responsible nations in such pursuit and are heavily used in the transportation and aerospace sectors for flexibility and ability to handle extreme pressures without undergoing wear and tear. Our high quality multiaxial fabrics also make sure that the surface of the finished component remains smooth. We understand that the automotive and aerospace sectors are price conscious and we will work together with our customers to reduce overall cost without compromising the quality and properties. At the same time, we also have expertise and experience to deliver fabrics quickly and in precision with the highly competitive demands of the customer.

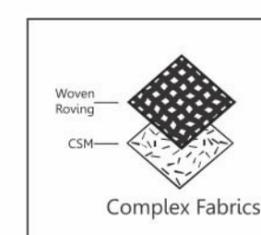
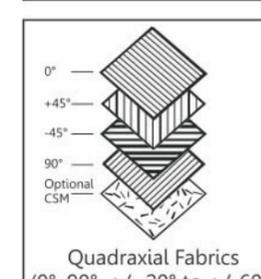
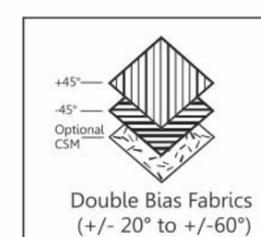
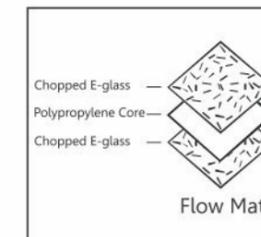
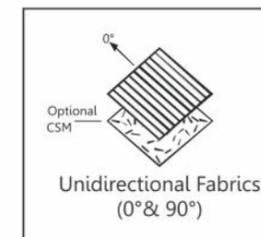
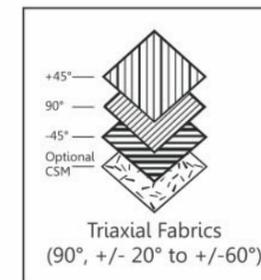
**SKAPS Multiaxial Fabrics** enable reinforcement glass fibers to be laid at angles between 20° and 60° (+/-45° is most common). Further, these angled glass fibers can be added to the standard 0°/90° construction in various combinations with maximum of five layers. The individual layers are connected by stitching according to custom requirements. On special request we can use hot melt yarn for stitching the selvedge of the tapes and woven roving.

## HIGH PERFORMANCE DELIVERED

- Better tensile, flexural and compressive properties in the finished laminate
- Improved strength and lower resin consumption
- Flexibility to suit custom requirements
- Fabric can be precisely draped to fit any end application
- Fewer layers needed in the finished laminate due to thickness of fabrics which increases component build speed

**Be One – Be SKAPS!**

## OUR PRODUCT RANGE



## VERSATILE APPLICATIONS

Application	Material	Weight
Rail	Double Bias + CSM	400 to 800 gsm
	Tri-Axial	1500 to 2200 gsm
	Flow mat	700 to 2500 gsm
Automotives (Cars/Buses etc.)	Double Bias + CSM	400 to 800 gsm
	Bi-Axial	800 to 2000 gsm
	Bi-Axial + CSM	600 to 1000 gsm
Space Crafts	Double Bias + CSM	400 to 800 gsm
	Tri-Axial	1500 to 2000 gsm
	Quadraaxial	800 to 2000 gsm

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# MULTIAXIAL FABRICS FOR CHEMICAL TANKS & PIPES

SKAPS is a trusted partner for composite fabrics used in chemical tanks and various applications of pipes in desalination, cooling towers, sewage, chemical plants, refineries and more. Our robust fabrics can also be used for pipe joints, tanks joints and making prepreg to carry out repairs on site. Exhibiting properties to offer enhanced resistance to corrosion as well as extreme temperatures, it delivers sustainability to the product. Our multiaxial fabrics are ideal for applications in oil & gas and transportation where frequent maintenance or periodical replacement is not feasible. You can rest assured that our multiaxial fabric solutions will provide you with quality materials!

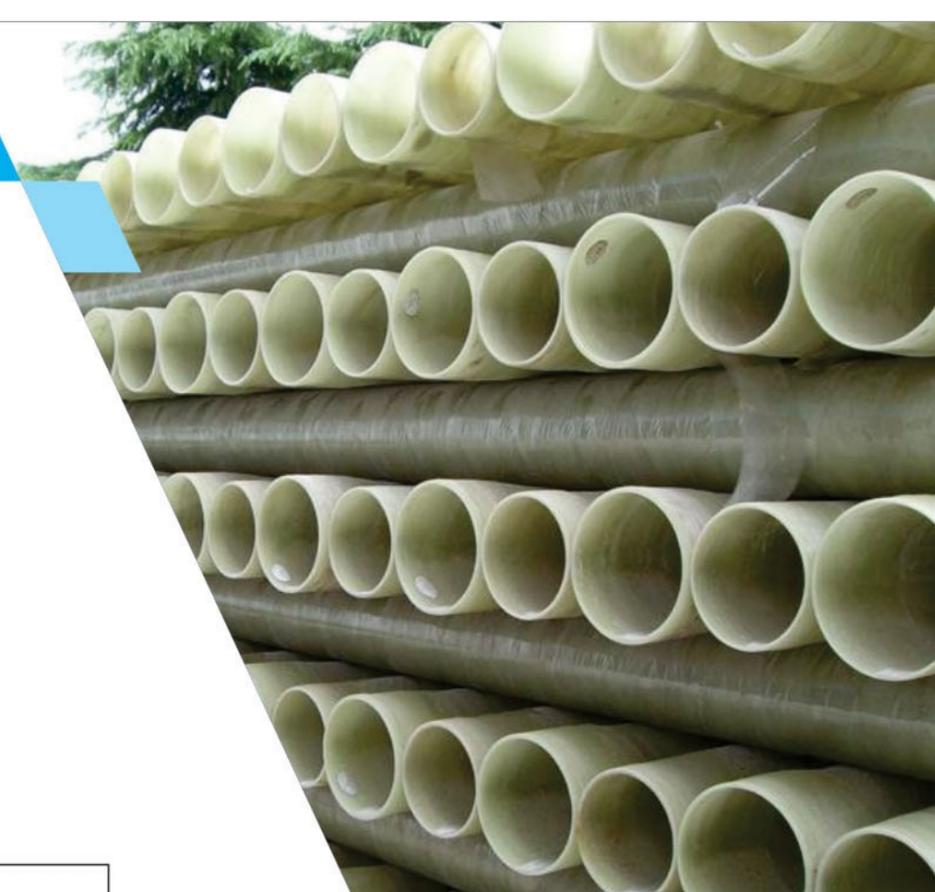
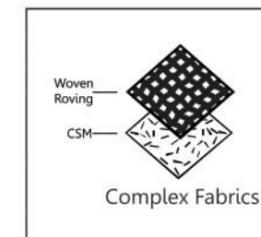
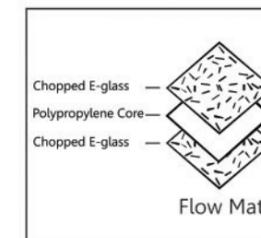
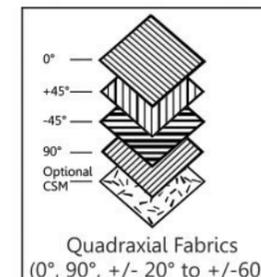
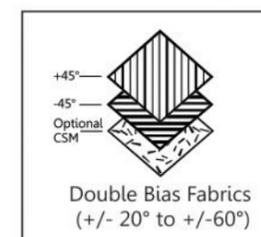
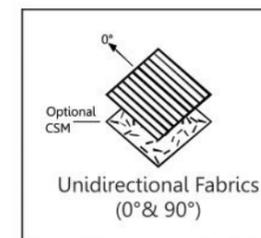
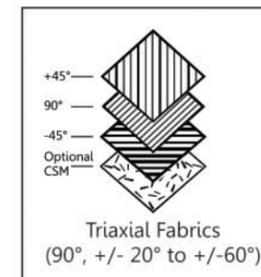
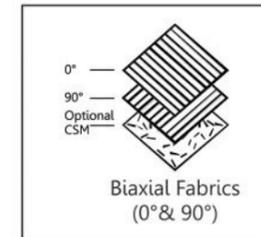
SKAPS Multiaxial Fabrics enable reinforcement glass fibers to be laid at angles between 20° and 60° (+/- 45° is most common). Further, these angled glass fibers can be added to the standard 0°/90° construction in various combinations with maximum of five layers. The individual layers are connected by stitching according to custom requirements. On special request we can use hot melt yarn for stitching the selvage of the tapes and woven roving.

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## OUR PRODUCT RANGE



## VERSATILE APPLICATIONS

Application	Material	Weight
Pipes (Oil Transportation/ Sewage Industrial Applications/Domestic Applications)	Uni-Directional and Bi-Axial	400 to 700 gsm
	Tri-Axial	600 to 1000 gsm
Chemical Tanks	Uni-Directional and Bi-Axial	400 to 700 gsm
	Tri-Axial	600 to 1000 gsm
Pipes & Joints	Woven Roving	270 to 800 gsm
	Tapes	50 mm to 250 mm

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# MULTIAXIAL FABRICS FOR DEFENCE SECTOR

**SKAPS Multiaxial Fabrics** are ideal for applications in the defence sector. Its high tensile strength renders the much required sturdiness and durability to the product, which makes sure that the end application is fit to face extreme conditions. While its light weight makes it suitable for transportation, and so strategically viable. Equipped with cutting-edge resources and our expert team, we are capable of supplying precise-to-need wide assortment of multiaxial fabrics such as Bi-Axial, Tri-Axial, Quadraaxial, Core Mat (Flow Mat) for applications in armor boxes, radar domes, helmets, drones and many more products.

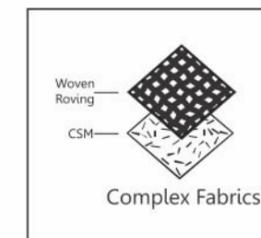
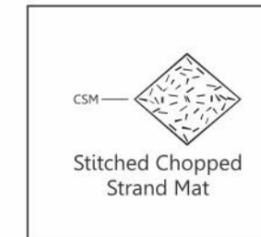
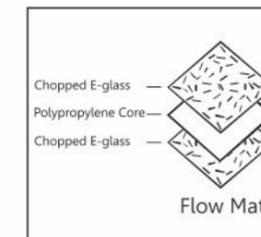
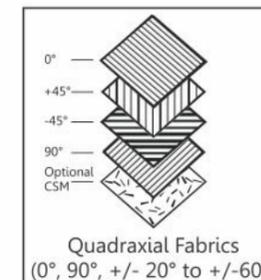
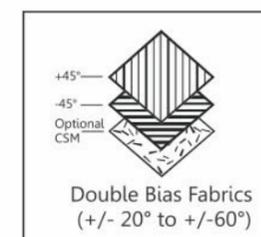
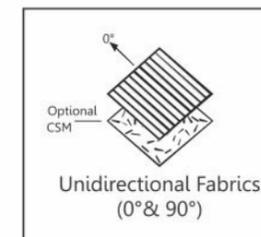
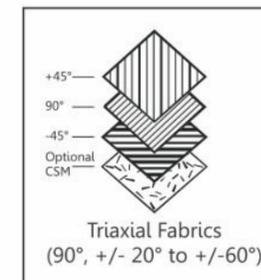
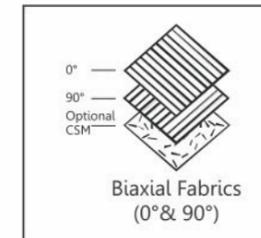
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## OUR PRODUCT RANGE



## VERSATILE APPLICATIONS

Application	Material	Weight
Armour Boxes/ Canisters	Bi-Axial and Tri-Axial	400 to 1000 gsm
Radar Domes	Double Bias & Tri-Axial	400 to 1000 gsm
Helmets	Double Bias	200 gsm
	Core Mat (Flow Mat)	400 to 2000 gsm
Drones	Double Bias + CSM	400 to 1000 gsm
	Tri-Axial	600 to 1800 gsm
	Quadraaxial	500 to 2000 gsm
Surveillance Boats/ Mine Sweepers (Defence and Navy)	Double Bias	200 to 600 gsm
	Tri-Axial	400 to 2200 gsm
	Quadraaxial	800 to 2200 gsm

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# MULTIAXIAL FABRICS FOR WIND ENERGY SECTOR

As non renewable energy resources are aggressively depleting, clean (renewable) energy has gained momentum. Every nation is pledging to generate more clean energy with increasing commitment towards reducing the carbon footprint. In response to rising demands, **SKAPS Multiaxial Fabrics** are contributing ideally to wind energy generation by offering applications in blade manufacturing, blade repairing and nacelle covers. In addition to that, our composite reinforcements are specially engineered for wind energy markets and when assembled with traditional materials, assure excellent compatibility and the best mechanical performance in all applications.

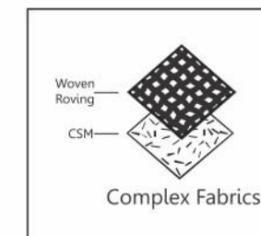
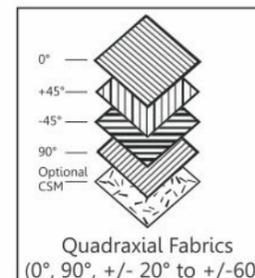
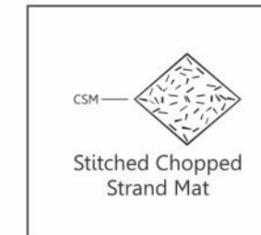
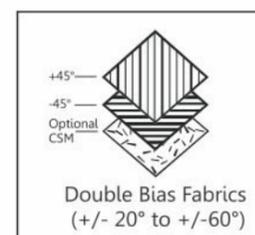
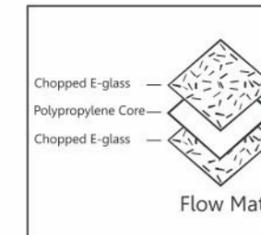
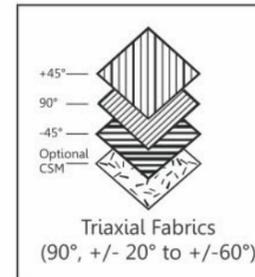
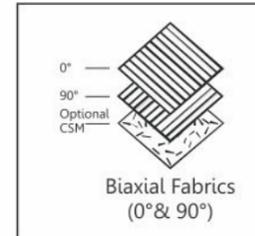
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## OUR PRODUCT RANGE



## VERSATILE APPLICATIONS

Application	Material	Weight
Blade Manufacturing	Bi-Axial and Tri-Axial, Unidirectional	600 to 2000 gsm
Blade Repairing	Unidirectional	600 gsm
Nacelle Covers	Bi-Axial, Tri-Axial, Flow Mat (PP Non-Woven Core)	600 to 1400 gsm

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# MULTIAXIAL FABRICS FOR MARINE & SPORTS INDUSTRY

SKAPS is an expert in supplying high performance and sustainable composite reinforcements for a broad spectrum of applications in marine and sports industries. Our best in class assortment of multiaxial fabrics are trusted by many market leading players for their compatibility and durability. Owing to our experience in delivering custom-engineered composite reinforcements, we are capable of delivering products that match your exact performance requirements and exceed your expectations.

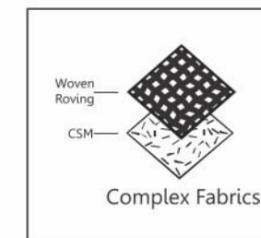
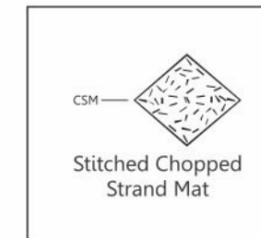
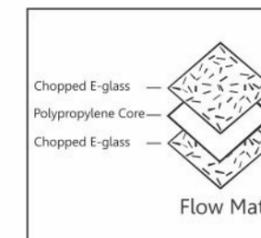
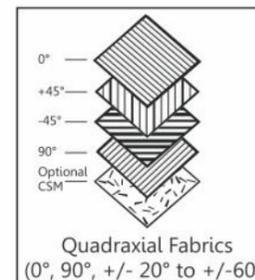
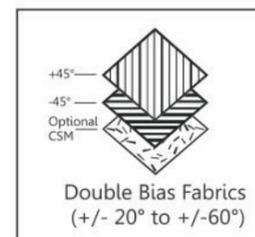
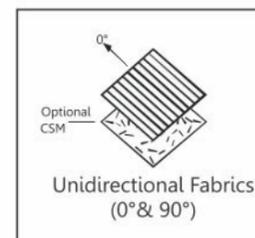
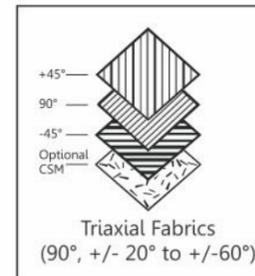
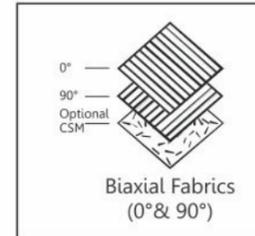
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## OUR PRODUCT RANGE



## VERSATILE APPLICATIONS

Application	Material	Weight
Light-watercrafts	Double Bias	400 to 800 gsm
Powerboats	Quadraxial	600 to 2200 gsm
	Double Bias	400 to 600 gsm
Yachts	Double Bias	200 to 600 gsm
	Tri-Axial	400 to 2200 gsm
	Quadraxial	800 to 2200 gsm
Hull Boats	Double Bias	400 to 600 gsm
	Bi-Axial	800 to 2200 gsm
Sails / Surfs	Double Bias	200 gsm
Snow Boards	Tri-Axial	200 to 400 gsm
	Quadraxial	200 to 400 gsm
Kayaks / Canoes	Double Bias	250 to 400 gsm
Helmets	Double Bias	200 gsm
Gliders	Core Mat (Flow Mat)	400 to 700 gsm
	Double Bias	400 to 600 gsm
	Tri-Axial	400 to 600 gsm

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