



Quality, Commitment & Service

One Stop Solution For Consumables For Composite Industry



[www.vactechcomposites.com](http://www.vactechcomposites.com)



ISO 9001:2015, ISO14001:2015 & ISO 45001:2018 CERTIFIED

**MANUFACTURER OF**  
**Consumables for**  
**Advance Composite Industries**



Straight from MD's desk

## **Bhavin** Jawaharlal Shah Managing Director

Innovation is at the heart of everything we do. It always begins with our customers and is driven by a desire to intimately understand their needs, expectation and provides novel technologies & services that challenge the status quo. Our extensive know-how is focused on Continual Improvement for partnering with customers and providing real advantages over the long term."



### **Vision**

To become a Global Leader in the Composites Industry as a supplier through Quality, Commitment and Services.



### **Mission**

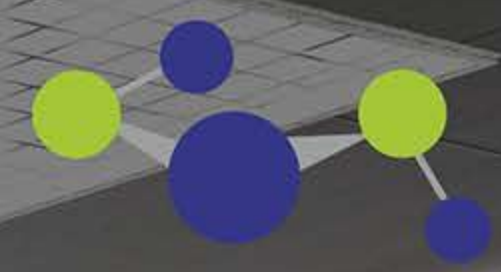
To promote Initiative, Innovation and Teamwork by providing high standard technically excellent products along with cost effective solutions that improve competitiveness and facilitate superior values for all our clients.



### **Values**

Quality, Commitment & Service with added vigor and strength.

Since 2001, our journey as a supplier for composites material, in more than two decades of presence in the composite industry, we are able to be one of the preferred suppliers for the major wind industries.



# Reliable Materials for Composite Applications



At present, we are serving majorly in the Wind segment. About 80% of our business is from this segment.

However, we are trying to expand our business and have our wings spread in the other segments too, such as Automobile, Defence, Aerospace, Marine and Construction.

& Service



Vactech provides an extensive and impeccable range of products, Our products are immensely appreciated and favoured due to the Quality and Standardization. We have a team of Experts to make customize products with Zero tolerance towards faults. Our dedicated SCM network helps to deliver products through out the country and Globe

### Some qualities that make us a renowned company

- o Range of standard Quality products accepted globally
- o Customer-centric approach
- o Competitive price
- o Customization of the products
- o Wide distribution network
- o Global Customer base
- o One stop Solution

### Certificates & Systems

Vactech is extremely proud to announce that we are an IMS certified company with ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 certification.

We continuously review and improve the quality through KAIZEN, 6S & 8D. This certification not only anticipates the demands of our customers, but also reveals our commitment to providing quality products and services to all our existing and prospective customers.



# VACTECH'S NEW STATE OF ART MANUFACTURING FACILITY

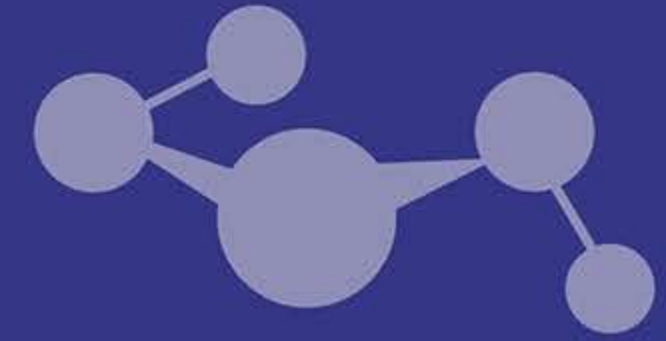
Vactech is committed to continually reinvest in building and capacity and capabilities to and intends to align our mission and goal with our clients and partners.

22,000  
SQ FTS

Manufacturing  
Facility

4,000  
SQ FTS

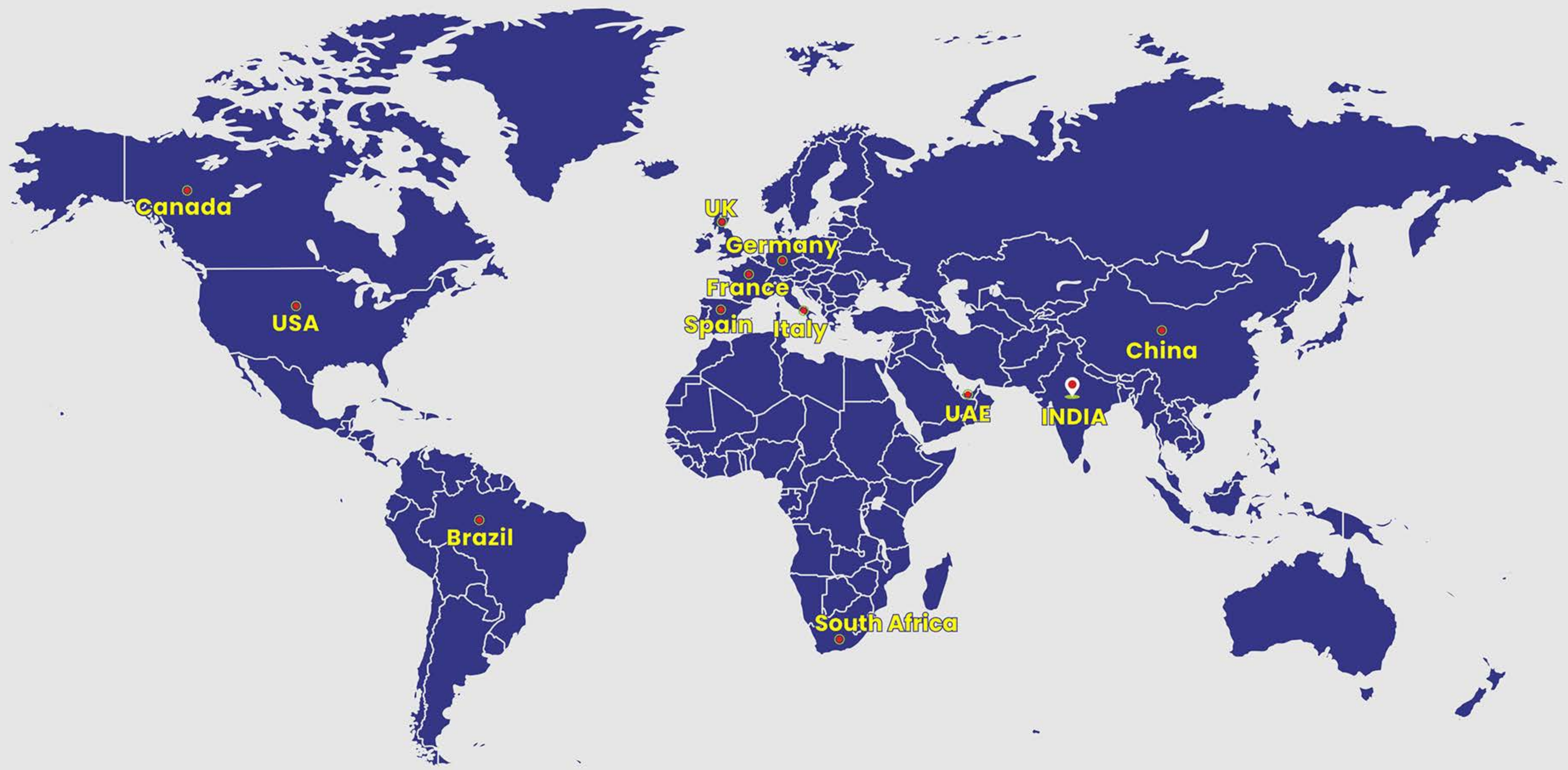
Corporate  
Office



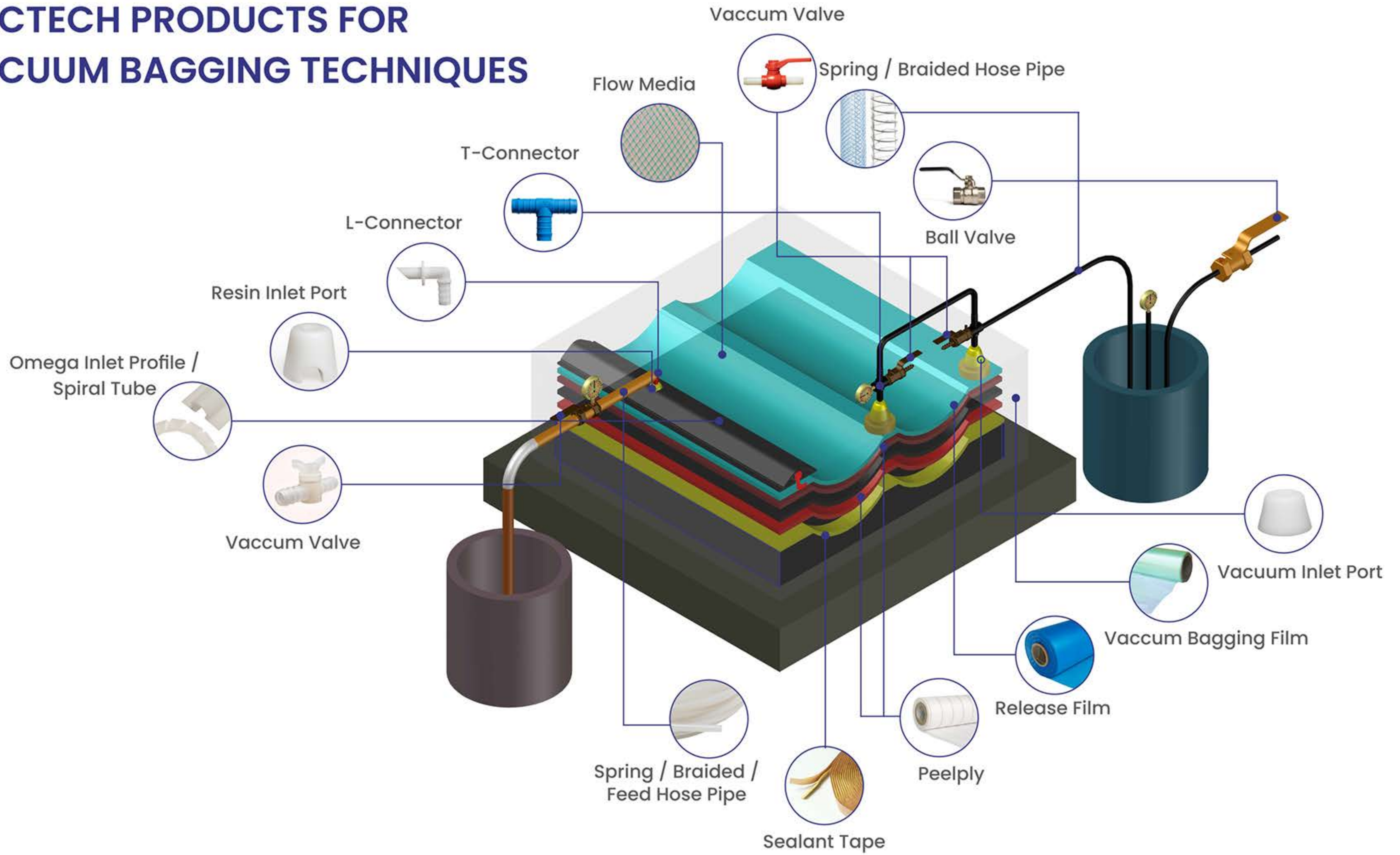


Quality, Commitment & Service

**GLOBAL**PRESENCE



# VACTECH PRODUCTS FOR VACUUM BAGGING TECHNIQUES



Vaccum Bagging Film

Release Film

Flow Media

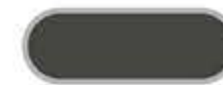
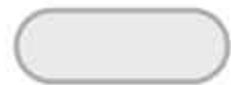
Glass Fibre / FRP

Peelply

Sealant Tape

Mould

Base







**Nylon Peel Ply (6,66)**



**Nylon Pink Peel Ply (66)**

## **Nylon Peel Ply**

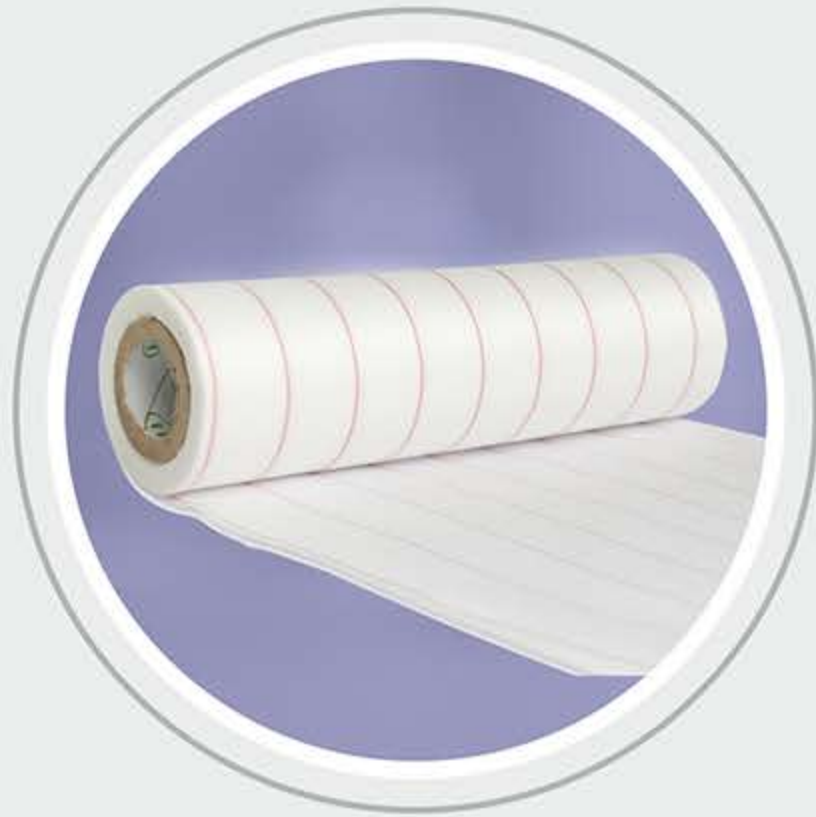
Peelply is a Nylon Base woven Fabric used in the advance composites industry. Peelply is placed against the surface of the laminate where rough surface is required. Peelply leave the woven impression on the rough surface ensuring roughness of the laminate.



## **Teflon Peel Ply**

PTFE fabrics, or heat-sealing fabrics, consist of a woven fiberglass and are coated with a PTFE resin. They are extremely resistant to high temperatures, contain outstanding electrical properties, have excellent release surfaces and superior chemical resistance.





## **Polyester Peel Ply**

Peelply is a Polyester woven Fabric used in the advance composites industry. Peelply is placed against the surface of the laminate where rough surface is required. Peelply leave the woven impression on the rough surface ensuring roughness of the laminate.



## **Adhesive Peel Ply**

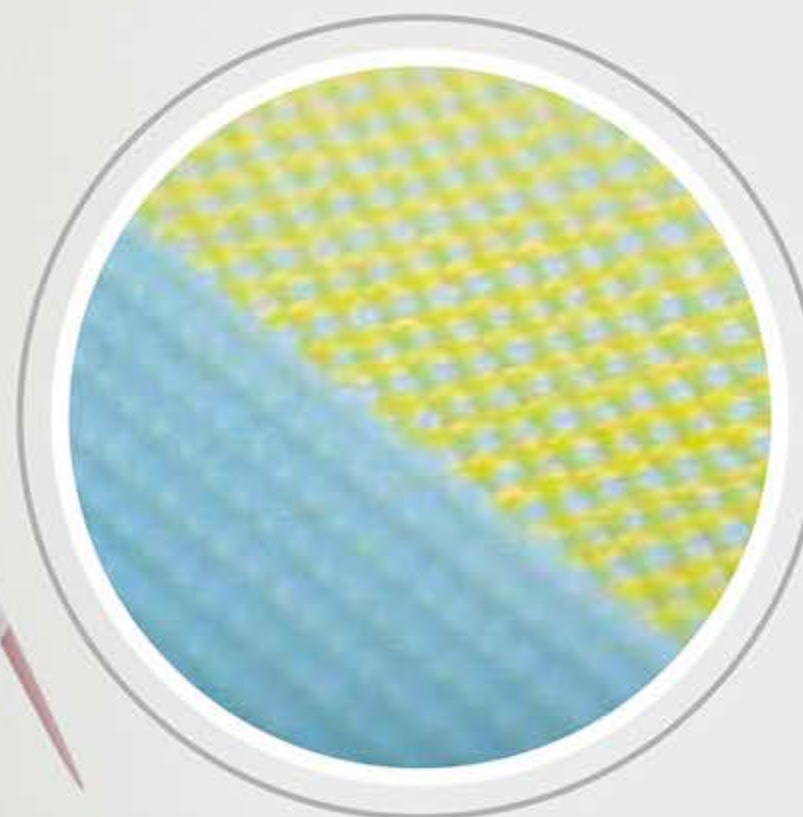
Peelply coated on one side with a adhesive layer. Peelply is used on the surface of composite parts as a removable layer which when removed leaves a surface suitable for bonding.





## Knitted Fabric

This is a knitted net made from Polyethylene mono filament. This is used for the even resin flow in all direction in the Mould for making a laminate or the product through vacuum infusion process. It's evenly distributed and properly calibrated net structures helps in even flow of resin across the Mould area.



## Combi Mesh

Combimesh is a bonded composite made from a combination of a woven mesh and a perforated release film which is used for the vacuum infusion process.

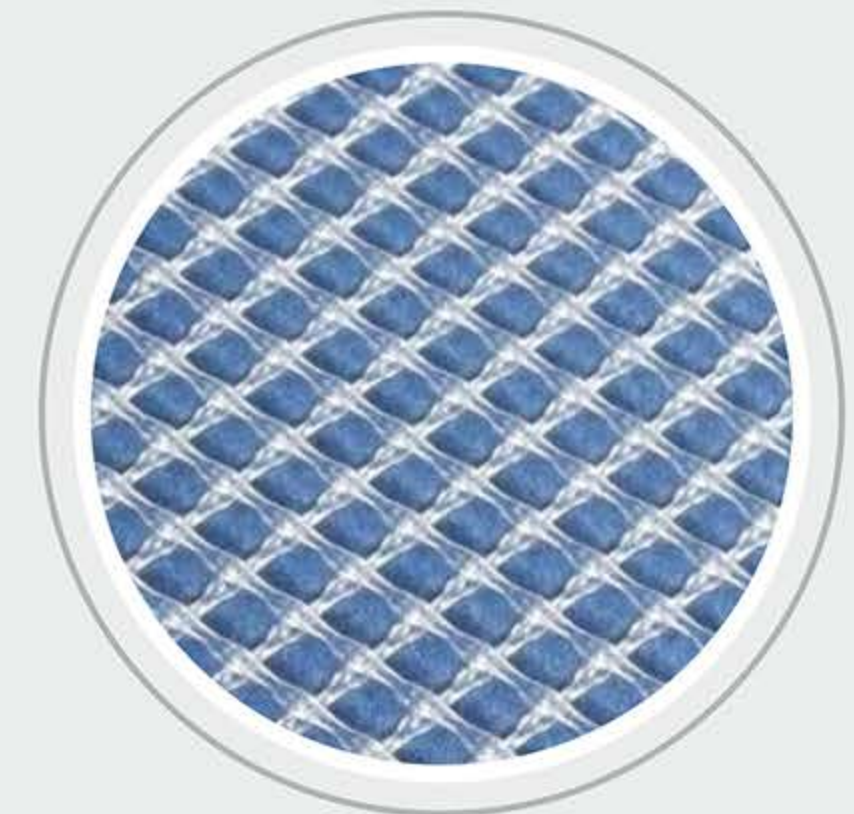


## Infusion Mesh (Diamond Shape) PE

This is the polymer mesh in Rhombic shape used in advance composites industry. It is laid flat through- out the mould surface to ensure the even flow of resin throughout the mould surface. It is used under high vacuum and can with stand high negative pressure. It is generally used in green color for better visual clarity of flow of the resin throughout the mould surface. After the resin is cured it is removed from the surface of the mould area.

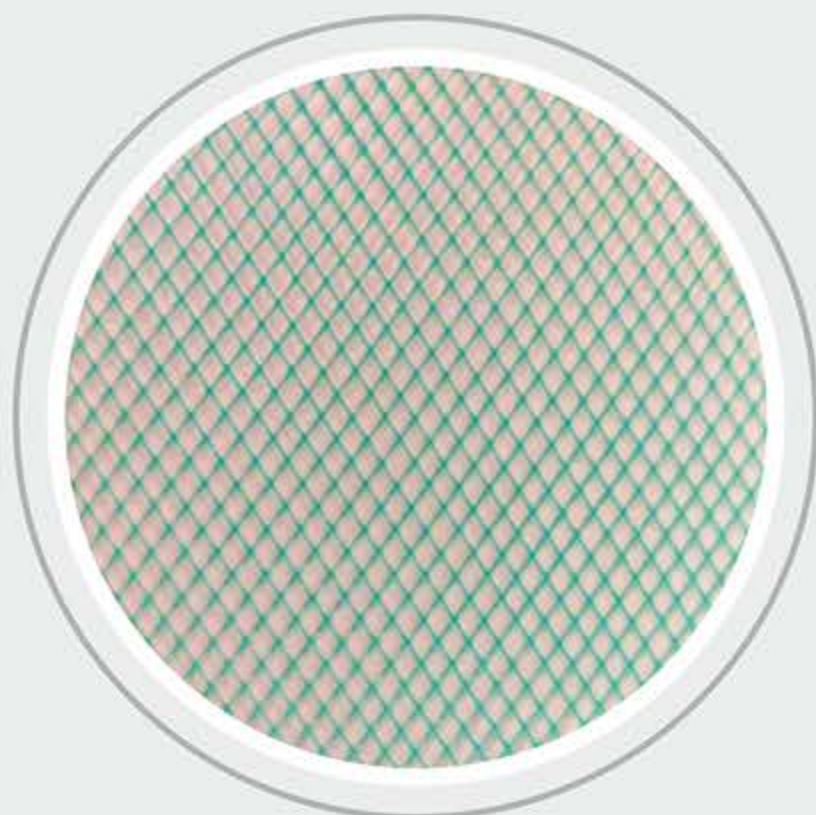
## Extruded Mesh (Square Shape) PP

This mesh is having diamond aperture, used in advance composite industry. It is laid flat through out the mold surface to ensure the even flow of resin throughout the mold surface. It is used under high vacuum and can withstand high negative pressure. After the resin is cured it is removed from the surface of the mold area.



## Flow Media PP

Peelply coated on one side with a adhesive layer. Peelply is used on the surface of composite parts as a removable layer which when removed leaves a surface suitable for bonding.





## Perforated Release Film (PE)

Basic purpose of the release film is to ensure the proper release of the helping material use for vacuum bagging. Release films are placed directly in contact with the laminate. Release films are often perforated in order to ensure that any trapped air, volatiles or excess resin, which may affect the physical properties of the laminate, can be removed.

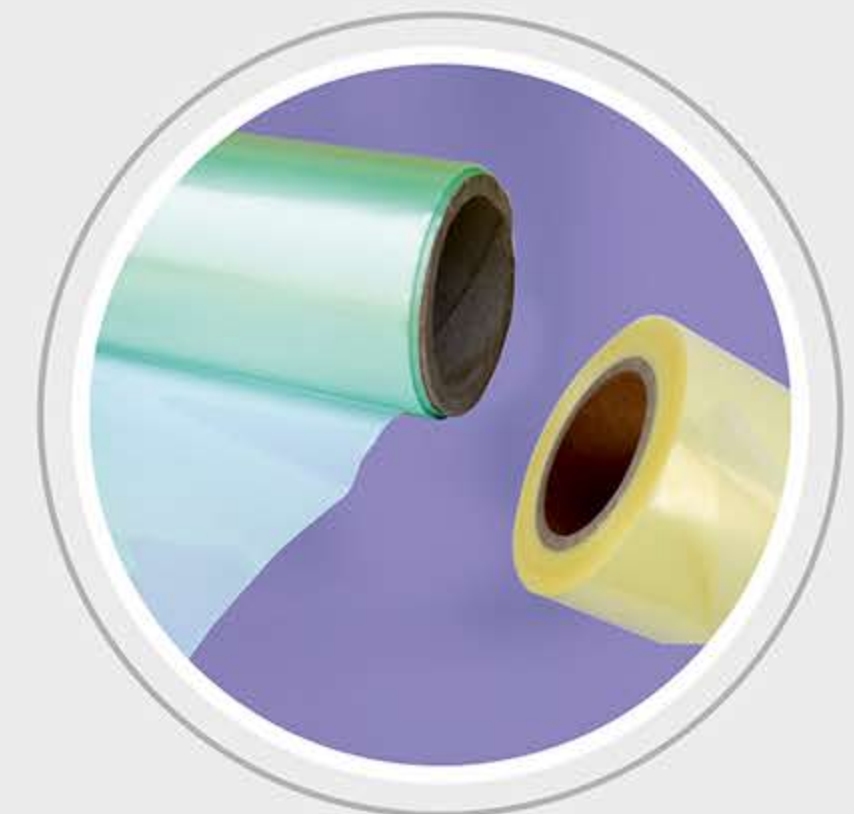


## Perforated Release Film (PP)

## Vacuum Bagging Film

The Vacuum Bagging Film is widely used in Advance Composites Industries. This film is used to cover and seal the mold surface under vacuum condition in the process called Vacuum Infusion.

This film is widely used due to its excellent physical properties such as high temperature resistance, toughness, good flexibility, high elongation and very less permeability.





## Vap Membrane

VAP Membrane is a kind of air permeable membrane. By using special materials and advanced production technology, the membrane can separate air and liquid, a high-tech gas-liquid separation membrane that penetrates the air and blocks the liquid on the surface of the substrate.



## Breather Cloth

Breather cloth's function is to allow air and volatiles to be removed within the vacuum bag and across the corner of the laminate or the mold. It helps in maintaining the vacuum throughout the mold during the process. Its basic material is non-woven polyester, nylon or synthetic constructions.



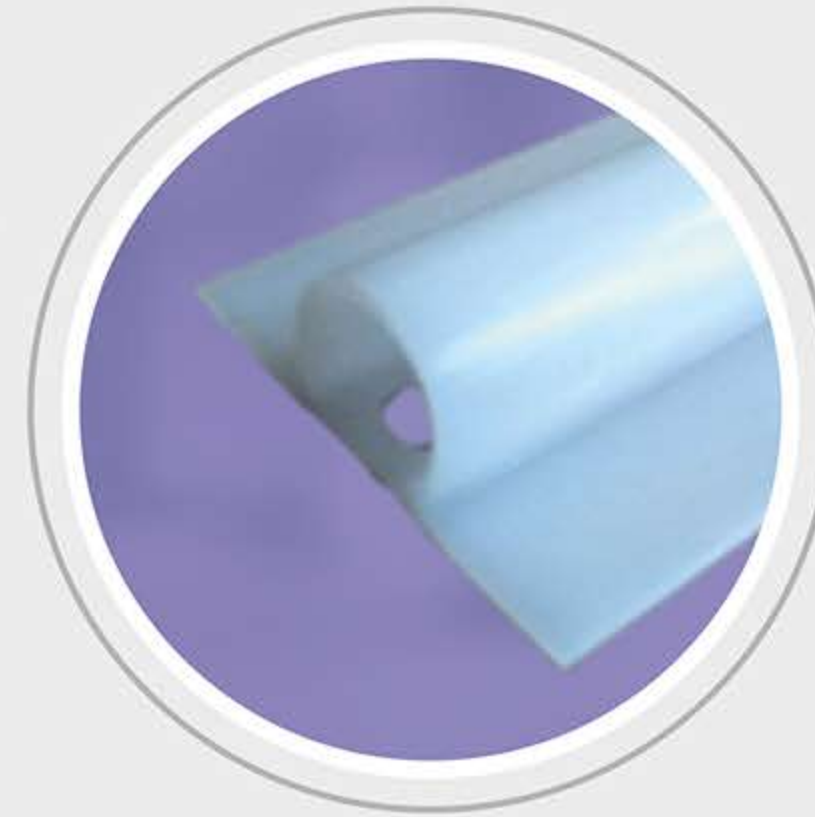
## PIPES & PROFILES



(12mm, 18mm, 22mm, 25mm)



(D Shaped 50mm)



Closed Omega Profiles

### Omega Profiles (Varied Types)

Omega Profile is used in advance composites industries where in the manufacturing process is VARIM. They are used as a Resin transfer medium in Infusion Process. The Omega like design helps in a controlled distribution of resin through the surface of the laminate laid on the surface of the mould.



### Feed Hose Pipes (ID - 8mm To 25mm)

Feed Hose Pipes are used in advance composites industries where in the manufacturing process is VARIM. They are used as a Resin transfer medium in Infusion Process.

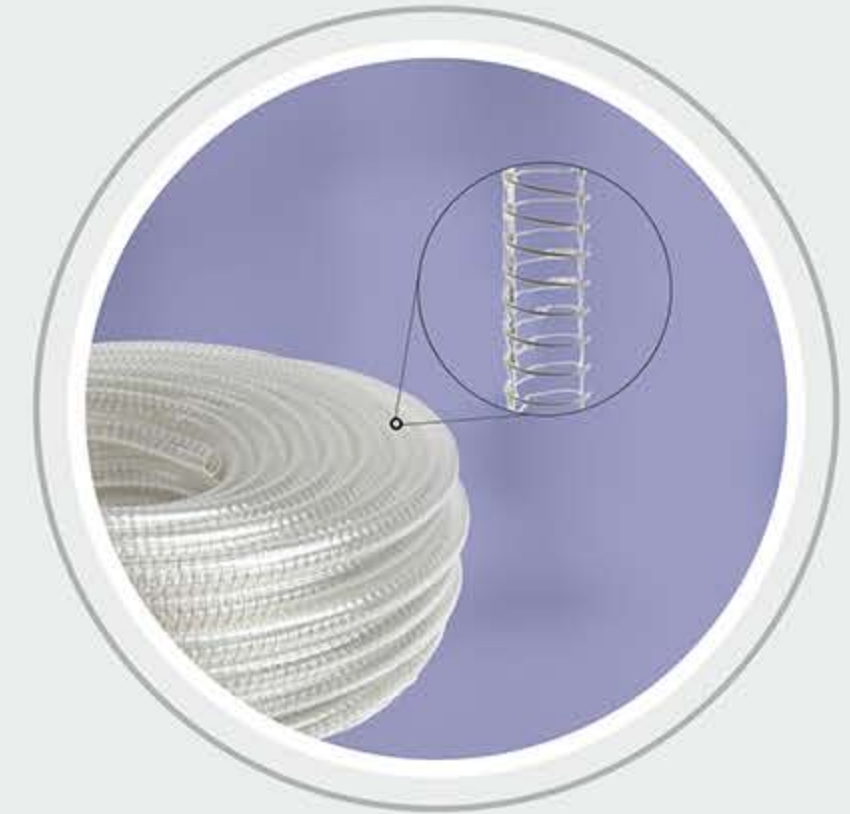


### Spiral Tubes (ID- 8mm To 16mm)

It is used in advanced composites industries where the manufacturing process is VARIM. It is used to establish consistent vacuum evenly throughout the Mold because it is capable of with standing negative pressure without collapsing.

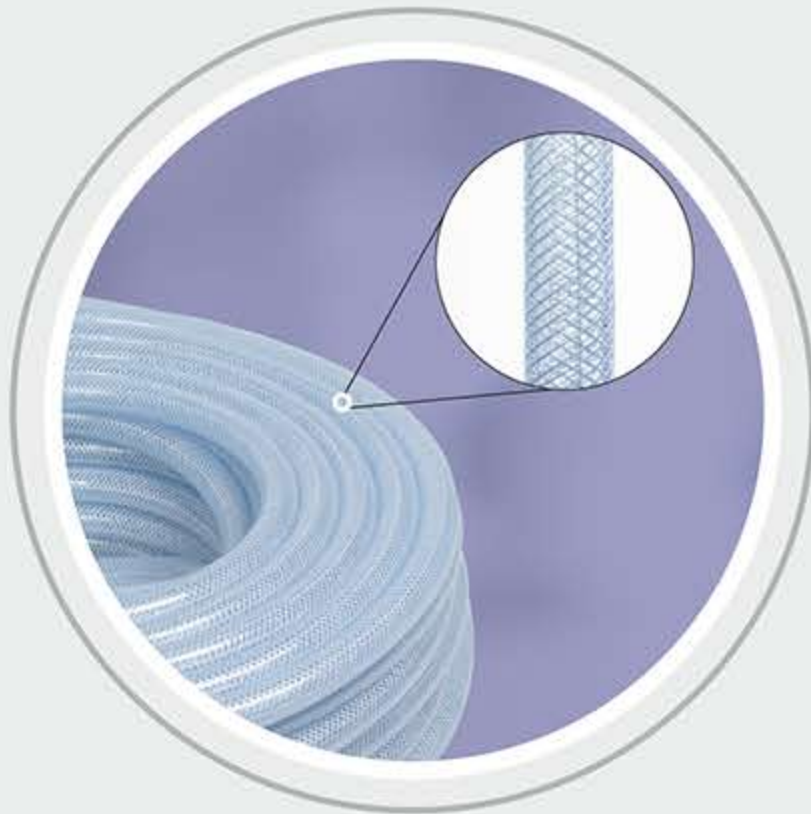
## Spring Hose Pipes (ID - 12mm To 50mm)

This hose with special steel wire reinforced incorporated within the wall of flexible PVC tubing. It is manufactured from non-toxic ingredients. It is crystal-clear transparent with smooth surfaces that provide excellent visual flow characteristics which allows easy detection of blocks and air locks. The hoses are widely accepted by composite industries specially for vacuum application and resin transfer, also by food and beverages industries



## Braided Hose Pipes (ID - 8mm To 32mm)

Flexible PVC transparent Braided Hose with high tenacity Polyester Yarn, is strong enough to withstand high pressure application and permits easy fluid flow.



## Polyamide Hose (ID - 6mm & 8mm)

A Polyamide Hose is a flexible hollow tube designed to carry fluids from one location to another. Usually refers to a rigid tube or more generally tubing. Hose design is based on a combination of application and performance. Common factors are size, pressure rating, weight etc.





# ANCILLARY PRODUCTS



Web Locator



Nylon Tee



Perforated Plate



Resin Inlet Port



Nylon Vacuum Valve



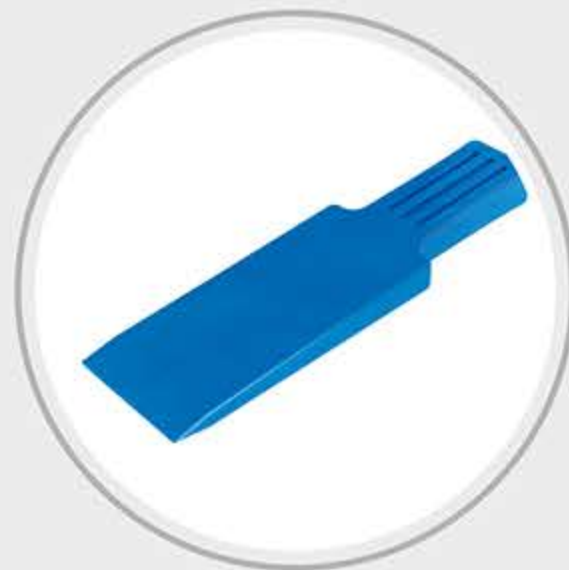
Metal Vacuum Valve



Vaccum Valve



Big Ben Tray



Big Wedge Handle



PTFE Teflon Tape



Threaded Plug

# ANCILLARY PRODUCTS



Sealant Tape (Low Temp.)



Sealant Tape (High Temp.)



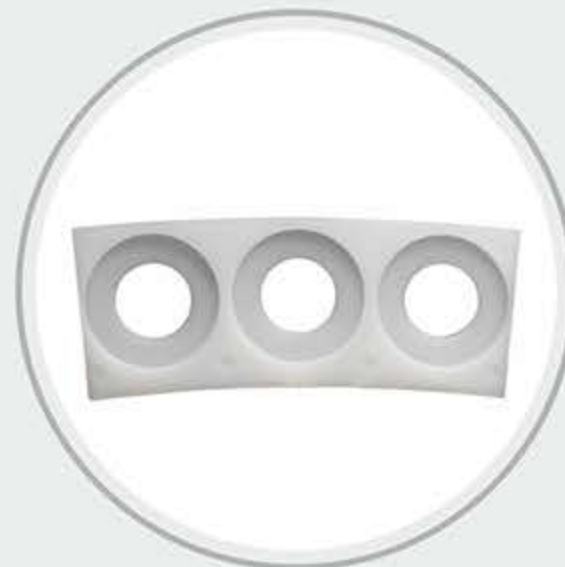
Infusion Shoulder



Tail Piece



Tapes



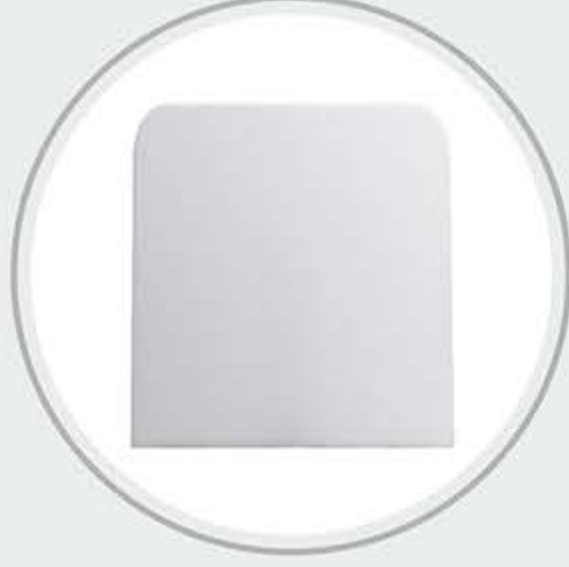
SWR Gasket



L Connector



Resin Inlet Port



Plastic Spatula



Rollers



ITW Plexus

# KITS ASSEMBLY – KITTING



## LE & TE Kits

LE & TE Kits are the customized rolls in widths as per the Leading Edge and Trailing Edge. This kit includes Peel Ply Fabric, Breather Fabric, Vacuum Film and Perforated Release Film



## VAP Membrane Aiding Kit

VAP Membrane Aiding Kit consists of VAP Membrane, Infusion Mesh, Breather Fabric, Sealant tape and Vacuum Film. These kits are prepared based on the Profile dimensions shared by the customers.



## Infusion Aiding Kit

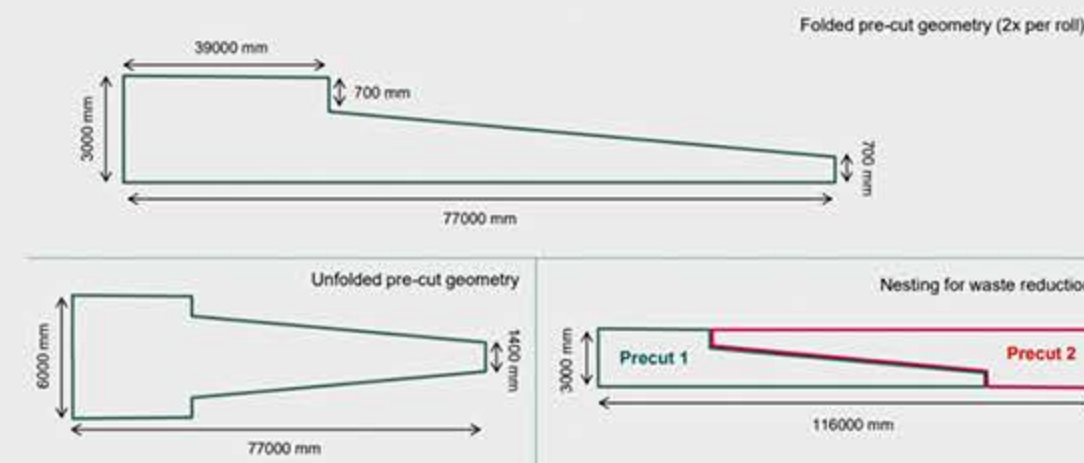
Infusion Aiding Kit consists of Infusion Mesh, Breather, Omega Profile and Release Film. These kits are prepared based on the dimension of the profiles shared by the customers.



## Hose Pipe Kits

Hose Pipe Kits are designed as per the customer requirements. We make kits based on the different lengths shared by the customers as per the different sets required in the parts of blades. We provide kits as only pipes cut in desired lengths or including the connectors as well.

These kits are packed and labeled according to the required sets at different customized blade parts.



## Pre-cut Vacuum Bagging Film Kits

Precut Vacuum Bagging Films are designed as per the customer requirements. We make kits based on the different lengths and designs shared by the customers as per the different sets required in the parts of blades. We cut the Vacuum Films in nesting formats also. These kits are packed and labeled according to the required sets at different customized blade parts.



## DISTRIBUTORS

Vactech are distributors for major brands which also caters to Wind Industry.



**Enka Channel**

Low and Bonar, Netherland



**Tapes**

TESA, Germany



**Spabond**

Gurit, UK



**Plexus**

ITW Polymers, USA



**Vap Membrane**

Composyst, Germany



**Wooster Rollers**

The Tradecom Group, USA



**FIA Rollers**

Ciret GMBH, Germany



## STATE-OF-ART RESEARCH & Q.C. LAB

Vactech boasts of a state-of-art material research and quality check laboratory. Vactech has a dedicated team of professionals who continually work not just on improving the product quality, but also developing new materials.

### Lab Equipments

- o Mould Setup For R&D
- o Universal Testing Machine (UTM)
- o Denier Machine
- o GSM Machine
- o Bursting Pressure
- o Moisture & Hardness Testing

## TEAM VACTECH

Team Vactech is committed to their goal of becoming world's leading one stop solution providers for consumables for composite industry. This is being achieved through customer-first approach and continually enhancing the capability & capacity.



Right from procurement to delivery, all our raw material and finished good goes through several quality checks to ensure delivery of only highest quality products.



## ENVIRONMENT

### Energy conservation

Vactech uses energy responsibly. Vactech will be installing Panel, as a contribution to less fossil fuel, reducing pollution and greenhouse gas emissions. By switching to solar power we will be doing our part to fight climate change.

### Waste Management

At vactech, we believe in 4 R's Strategy which is Reduce, Reuse, Recycle, Recover.

### Kitchen Garden

We are proud to say that we are having a Kitchen Garden in our premises. The vegetables from the same kitchen garden is used to prepare food in our canteen.

### Rain Water Harvesting

We all know that Rain Water Harvesting is so important. As a part of our contribution, we are replenishing groundwater levels.



## CSR

### Corporate Social Responsibility

At Vactech, we ensure that we have a direct responsibility to the society and are committed to giving back to the communities in which we live and work.

We had organized an event in rural school, wherein we had distributed books to the students.

We had also hosted a Blood Donation camp.

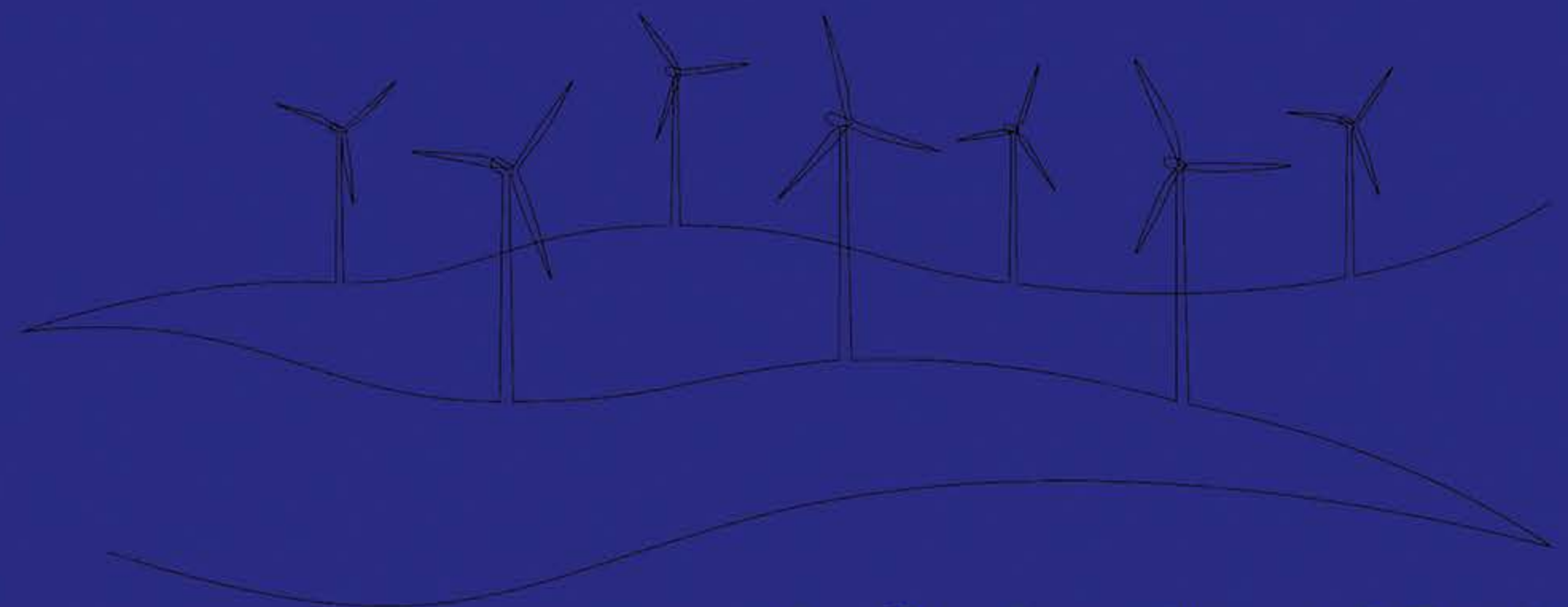
We had organized health checkup camp during covid19 pandemic.

We have also visited an Old age home and spent quality time with them.

## EMPLOYEE WELFARE

The productivity of a company also depends upon the office atmosphere. A positive reinforcement can be planned for the employees in many ways.

At Vactech, we celebrate the Festivals, Events & Birthdays together, within the office. This promotes a spirit of oneness and a sense of ownership among the employees.



Quality, Commitment & Service



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## **Vactech Composites Pvt. Ltd.**

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Vapi, Gujarat - 396191

### **Website & Email**

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[vcare@vactechcomposites.com](mailto:vcare@vactechcomposites.com)

### **Manufacturing Unit**

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