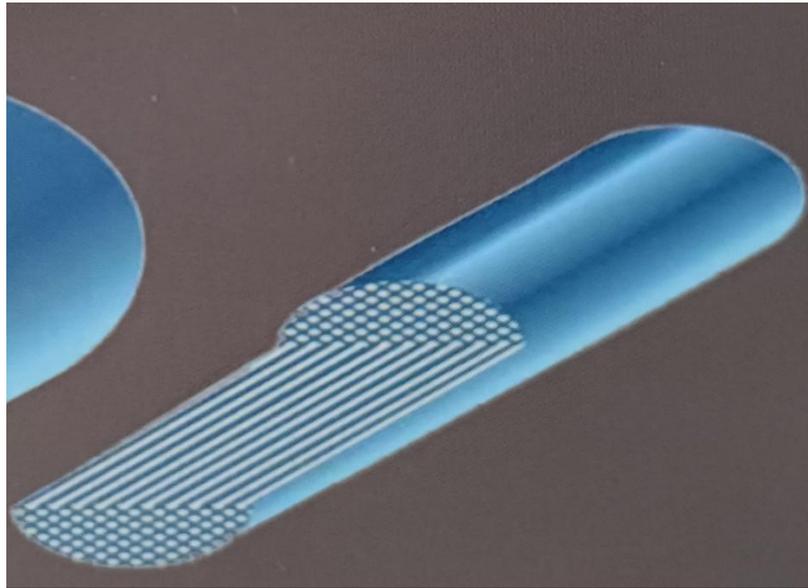


The very new project for BHARAT, to make good business and money now, the ever increasing product applications and demand, the customer class to be OEMs to the Automotive and Defense Manufacturing, difficult for just anybody to enter in to and create lousy competition.

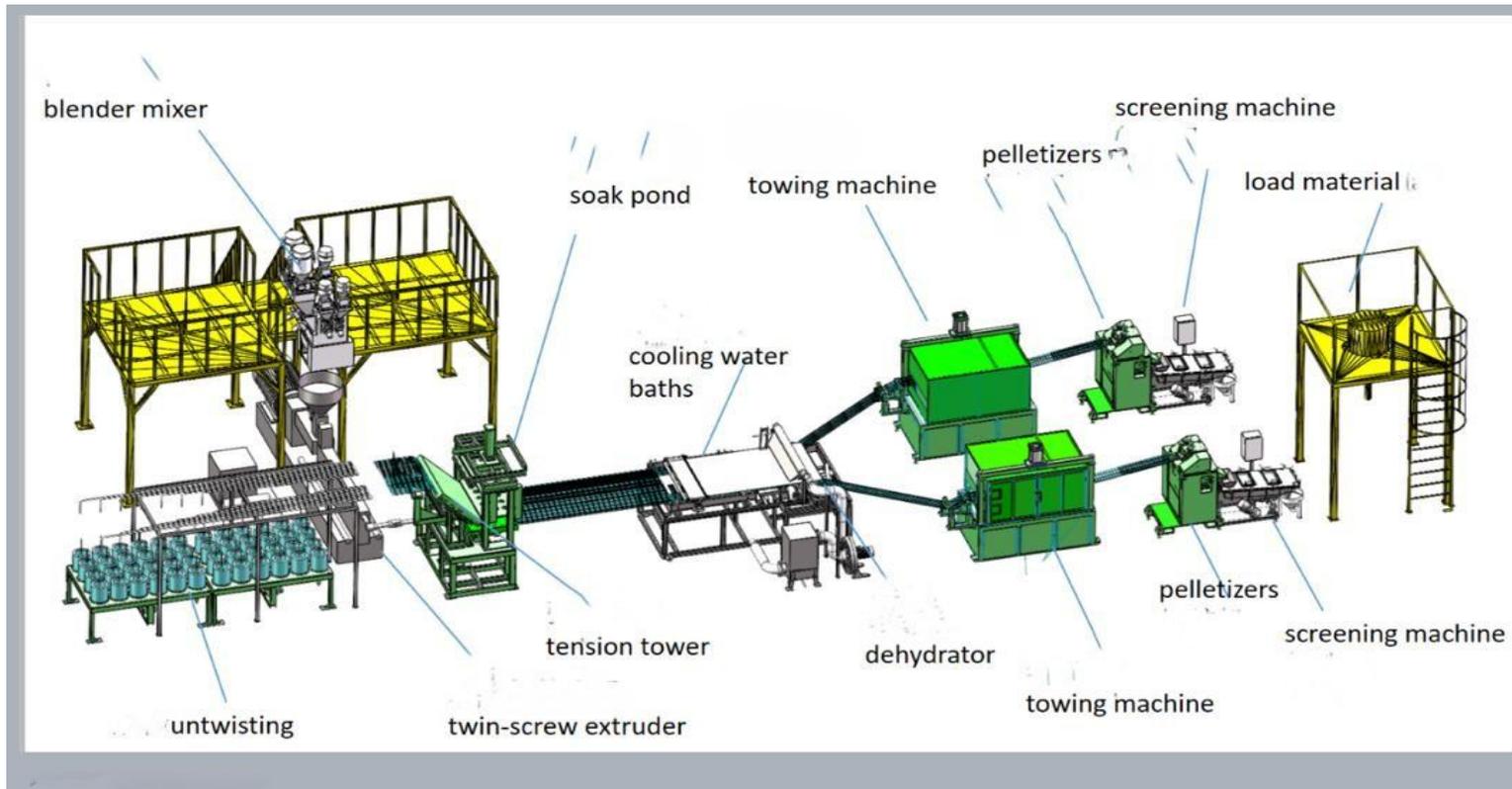
LFT-G = Long Fiber [Length of more than 10 mm] Thermoplastic Composite Pallet making line:

Usually, Continuous fibers are impregnated with Thermoplastic resins to make LFT. fiber roving is pulled through a heated die and impregnated with the resin



LONG Fiber reinforced Thermoplastic Pallet.

Normal Line Diagram is as below.



Applications:

- Automotive,
- Airline, Electronics,
- Home Appliances,
- Sports & medical Equipment industry

Need the material with

- High Strength,
- High Dimensional stability,
- Moderate Temperature resistance,
- Low Water absorption & warpage,
- Best Creep Resistance, and
- Good service life

And so, LFT is made from

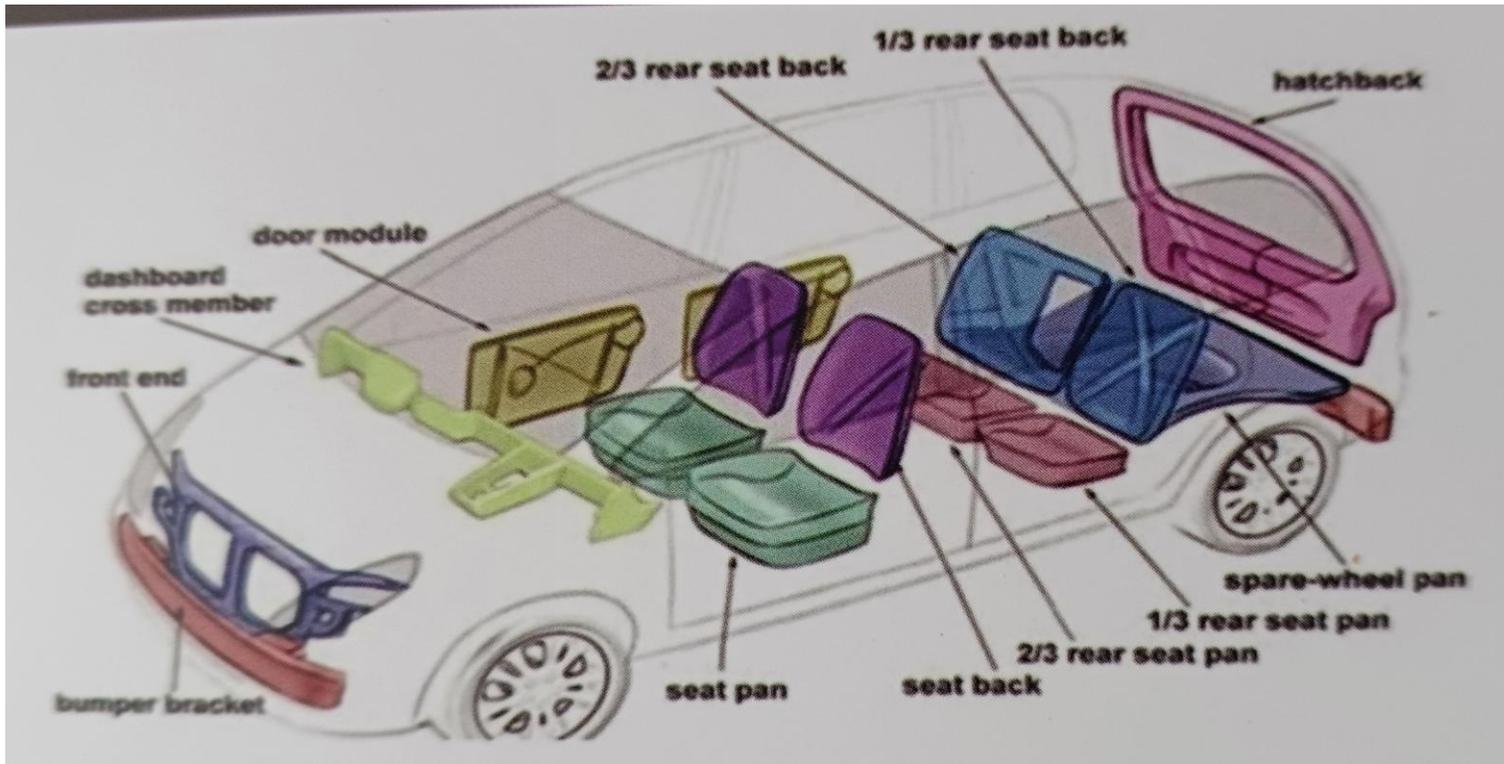
- ❖ Carbon Fiber [It is a material consisting of thin, strong **crystalline filaments** of carbon, used as a strengthening material]
- ❖ Basalt Fiber [Basalt is an aphanitic extrusive igneous rock formed from the rapid cooling of low-viscosity lava rich in magnesium and iron exposed at or very near the surface of a rocky planet or moon. More than 90% of all volcanic rock on Earth is basalt.]
- ❖ Aramid Fiber [Aramid fiber is a strong, heat-resistant synthetic fiber made from aromatic polyamides]
- ❖ Glass Fiber [fiberglass is a type of fiber-reinforced plastic (FRP). Specifically, it's a composite material made of glass fibers embedded in a polymer matrix, Glass fiber is formed when thin strands of silica-based or other formulation glass are extruded into many fibers with small diameters suitable for textile processing.]
- ❖ Nylon Fiber [Synthetic Plastic material composed of polyamides of high molecular weight]

Coupled with PP / PE / PA / PET / PLA kinds of plastic. Depending upon application, 60/50/40/30/20 % of NF / CF / GF / BF / AF is used to make LFT.

The product is as below:



From the Pellets as made above are used to make Automotive, Airlineparts like below.



Normal capacities of the plants available are for 50 to 500 Kg per hour for Pallets making and also can be made available to make 800 Kg per hour, pallets can be made within 3 to 30 mm length.

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