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# Unidirectional(UD) Prepreg Machine

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The Prpreg's by preimpregnated material's abbreviated word

Matrix is intermediate material of composite material product by of sheet from that make impregnation beforehand to reinforced fiber. Reinforced fiber are used carbon fiber, glass fiber, Aramid fiber etc. mainly and bonding material are used epoxy resin, polyester resin, thermoplastic resin etc.

Composite material that produced using prepreg is used variously in production of space-air industry, general industry, sports, leisure, car article etc. because can improve various special quality of strength, stiffness, corrosion resistance, fatigue life, wear resistance, impact resistance, weight reduction etc.

Unidirectional prepreg machine is to produce prepreg by sheet from making impregnated to epoxy resin after arrange reinforced fiber by one-way. and making impregnated resin to woven fabric

Like this, produced prepreg makes composite material product that quality is very excellent by method of manufacture of vacuum forming, mold forming, autoclave forming, rolling etc.

### **Application and Uses of Unidirectional Prepregs and Sheet**

- Space and Air craft structure and parts
- Blades for wind turbines
- Automotive parts and components
- Recreational sports equipment
- Industrial structure and parts
- Military
- Civil and Building Reinforcement

### **Advantages**

**Cost Savings** – Prepreg can be produced in your factory at a cost savings of 30% to 50% compared to prepreg purchased from suppliers. This large savings results in a rapid return on your investment. Normally, your savings will pay for a complete prepreg line in one year or less.

Thus we have earned an excellent reputation in the market of composite materials, both for hardware and software technology, and we now supply high-precision prepreg machines in addition to our original technology.

We introduced our advanced technology Model "D-UDx" series Prepreg Machine that features high precision bed-frame construction and many other new innovations. Precise resin content and fiber areal weights can be controlled at

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high production speeds. It's unique construction gives it superior rigidity and is the world's **most** advanced and user-friendly prepreg machine. Our prepreg machines are available in product widths from 20 inches to 80 inches **and other**.

A model "D-UD1-xxxxHD" series is produced for heavy weight prepreg, that model is can with out release paper production system. so very economical system for user

The **Dasan Engineering** has grown to many different types of machines, each manufactured to the highest quality standards. We can produce any conceivable type of equipment including complete turnkey installations.

The same equipment can be used to produce multitude of applications in diverse industries.

**\* Strong point of D-UDx series**

- Simple to Operate
- Precision one piece construction
- Precision Bed-Frame Construction
- Four precision compaction roll sets
- Uniformity fiber creel
- Proratable Fiber Spreading System

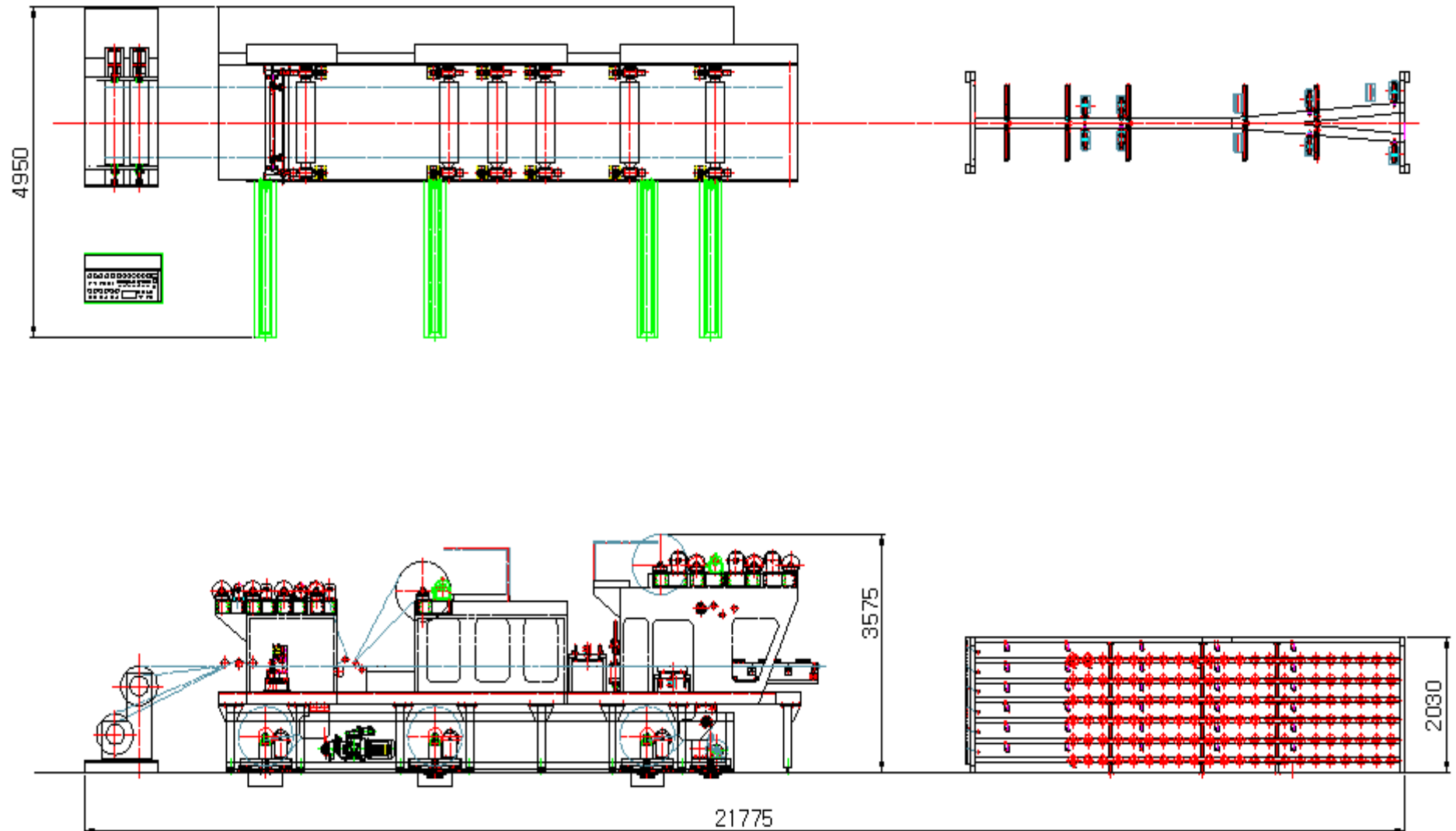
**\* The Machine is composed of the following sections :**

- Fiber creel
- Precision Fiber Spreader
- Precision Bed-Frame
- Precision compaction roll sets
- Pull roll sets
- Two heated Platens
- One chill platen
- Edge trimming wind
- Top and Bottom Paper Rewind
- Top and Bottom Resin Paper Let-off
- Poly film rewind for Resin Paper let-off
- Resin scraper of edge resin on paper
- Top Scrim cloth Let-off (Optional)
- Prepreg slitte
- Dual Prepreg Winder

Model No	D-UD2-XXXX	D-UD7-XXXXH	D-UD1-XXXXHD
Production width	20" width 40" Width	20" width 40" Width 50" Width 60" Width 80" Width	10" width 20" width 30" width 40" Width 50" Width
Production capacity (meter per minute)	0.2 ~ 10  0.2 ~ 25	0.2 ~ 5 0.2 ~ 10 0.2 ~ 15 0.2 ~ 25 0.2 ~ 35	0.2 ~ 5
Remark's	With or with out release paper Non resin product Solvent free	With release paper Solvent free	With out release paper Solvent free
Application	Civil and construction reinforce	Space and Air craft structure and parts Blades for wind turbines Automotive components and parts Recreational sports equipment	Industrial Structure Blades for wind turbines

\* Other custom machines can be manufacturing to specific application requirements.

# Unidirectional Prepreg Machine layout drawing

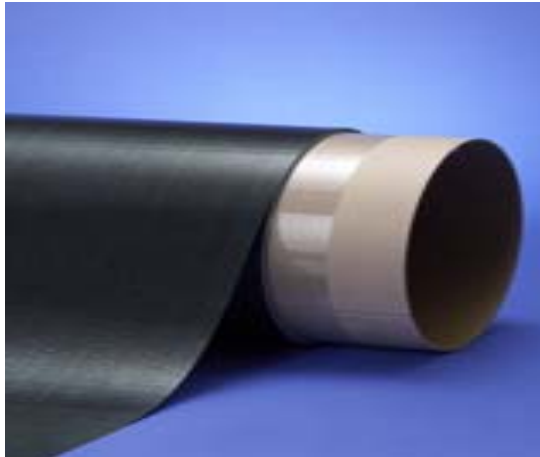
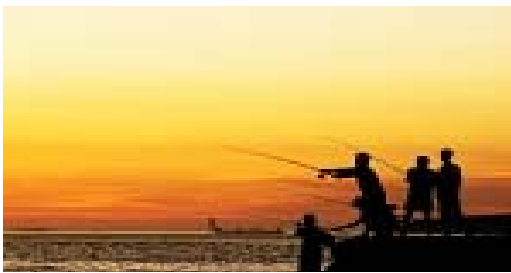


Composite process equipment, Glassfiber production equipment, GRP Pipe production plant

Unidirectional prepreg production equipment, F.A system, Biodiesel Plant

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