PAK 400 EP

The PAK 400 EP is especially developed for the coating of high viscous resin films in the prepreg and composite industry.

Since 1984 we supply film coating lines for the composite material manufacturing industry based on solvent-free epoxy resins. The majority of worldwide renowned producers in this sector rely on our technology. By using standard components, each line is tailored to the needs of the particular customer.

The spectrum comprises high-performance stations enabling the lowest coating weight tolerances of +/- 0.5 g/m². Temperature accuracies of +/- 1 °C of the high precision coating rollers are fulfilling and even exceeding the highest requirements. Operation speeds up to 150 m/min can be achieved.

The PAK 400 EP can be fitted with both, single and turret winders for flying reel-change without stopping the line.

Possible applications

- Aerospace
- Automotive
- Structural components
- Wind turbines
- Ship building
- Aircraft interior

High-performance filer
FOR EPOXY
RESIN COATINGS
Ideal for use in the composite materials industry

The PAK 400 EP is characterized by particular features necessary for the operation in the composite materials industry:

- 4 roller coating station
- High-precision rollers and roller bearings with tight tolerances for very precise coating accuracies
- Blending compensation for the applicator and metering rollers
- Ceramic coating of the application rollers for an elongated lifetime compared to chrome plated rollers
- Precise temperature control of the rollers and of the feeding box to assure accurate coatings
- Fast changeovers from forward to reverse coating mode and vice versa
- Precise and clean mass transfer from the coating roller to the substrate due to pressure roller with small diameter
- Coolable steel supporting roller
- Non-stick coating of the parts in contact with the resin for easy cleaning
- Controlled cooling of the coated substrate
- Precise and efficient resin melting and feeding by the RESINMELT
- Modern control and drives for precise roller and substrate speeds as well as web tension

The following options are available in order to adapt the line to various customer requirements:

- Comma bar coating station
- Slot die coating station
- Laminating station to allow PE film or scrim lamination
- Coating weight measurement (beta radiation or ultrasonic)
- Stripe coating
- Sleeve technology of pressure roller
- Optical roller gap measurement
- Motorized roller gap adjustment
- Shafted and shaftless operation of winders
- Menu-driven control of the line and data management
- Master or Turnkey installation
- Various executions of resin melting and feeding devices (e.g. RESINMELT)

Technical data

| Working width | 500 - 1,800 mm |
| Operation speed | up to 150 m/min |
| Viscosity | 2 - 1,000 Pas |
| Min. coating weight | approx. 10 g/m² |
| Max. coating weight | approx. 500 g/m² |
| Temperature | up to 180 °C |
| Reel diameter | 500 - 1,500 mm |