

DATA SHEET

Model: POSEIDON

Tow Preg - Industrial

Product INFO

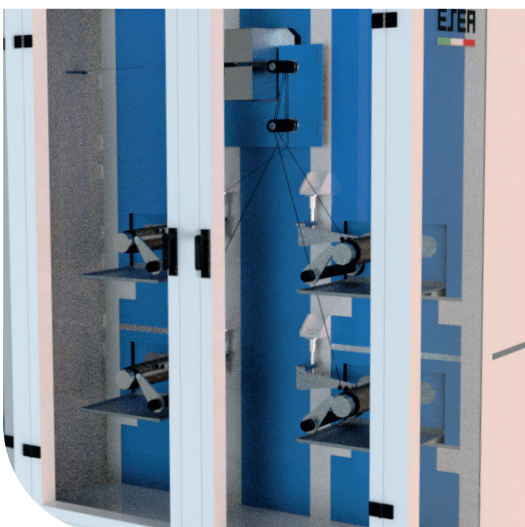
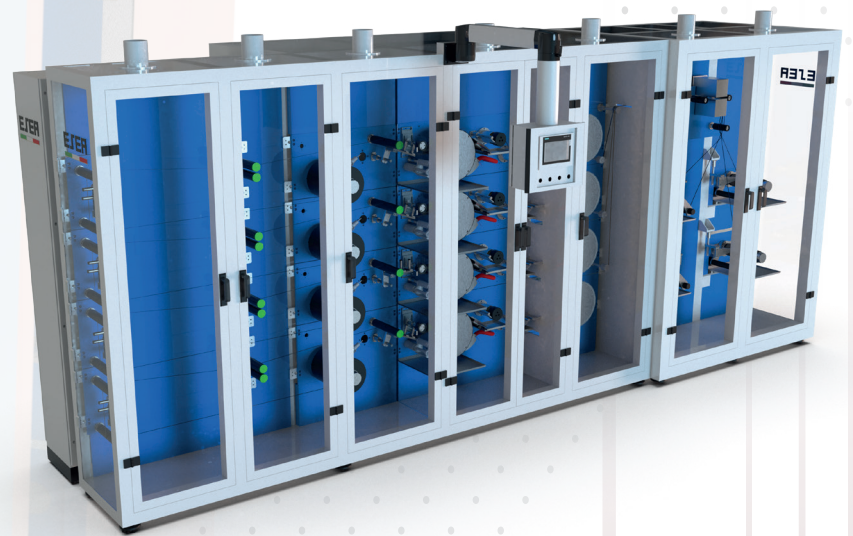
Industrial impregnation machine to produce high quality Tow Preg. ESEA's impregnation technology guarantees a constant resin fraction with deviation of less than $\pm 0,4\%$.

The maximum machine speed is 200 m/min. (3,3 m/s.)

The machine is able to process different resins with different viscosities.

Moisture and temperature control for the rewinding section.

Tailored machine sizes for 4 to 8 spools.



TECHNICAL DATA

INDUSTRIAL IMPREGNATION PROCESS SPECIFICATIONS

Modular configuration	Modular approach with the opportunity to increase the production rate of the machine between 4 and 8 spools.
Frame	4 spools
High accuracy resin content	+/- 0,4%
Fiber Yield	6 to 24K, more upon request
Maximum impregnation speed	200 m/min. (3,3 m/s)
Rewinding technology	Programmable cross winding
Rewinding ratio	Electronic set-up
Traverse length	Max. 250 mm
Package diameter	Max. 320 mm
Package weight	Up to 8 kg
Tube inside diameter	76.2 mm
Tube length	280 mm
Fibre tension	Electronically adjustable
Separate tension control	For each level
Tow Preg Bandwidth	Customizable
Impregnation Technology	Automatic volumetric dosage
Automatic Tension control	Rewinding unit / Unwinding unit
Moisture and temperature control	Rewinder section

MACHINE CONFIGURATION

Unwinding Unit	
Impregnation unit	
Dosing unit	
Spreading roller	
Chill roller	
Rewinding unit with air condition system	
Electrical cabinet	Insulation code IP56 and air condition system

COMPONENTS

PLC	Siemens
Motor axis	Servomotors Siemens
Pneumatic	Festo

MATERIALS

Thermoset Prepreg resin	Hotmelt resin 1K / Hotmelt resin 2K
Dry fiber	HT Carbon fibre / IM Carbon fibre

OPTIONS

IP Camera	Visual control cam during operation
Profilometer	
Closed loop resin content control	
Smart maintenance service with augmented reality functions	
Mixing Unit	