

INNOVATION IN MANUFACTURE

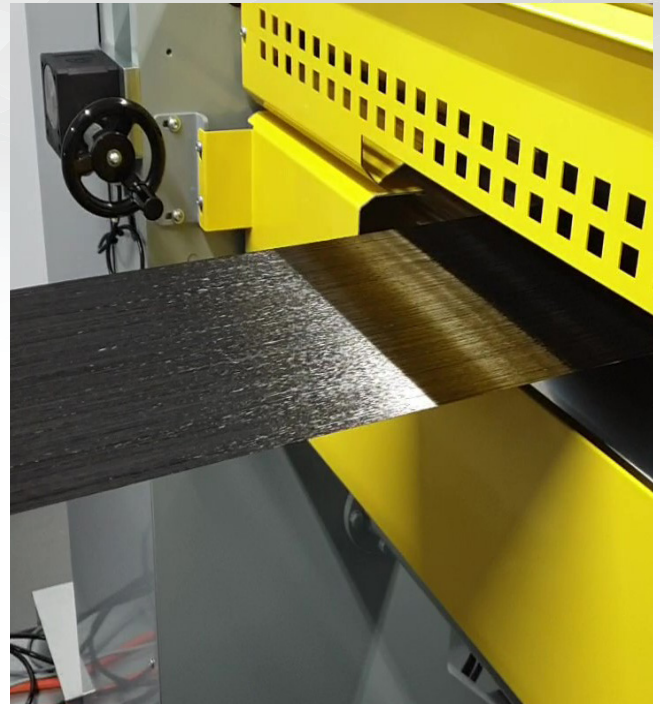
Winner: Cygnet Texkimp

The world's first commercially available thermoplastic manufacturing line capable of using standard polymer to create high-grade thermoplastic preregs on an industrial scale.

The Direct Melt Impregnation Thermoplastic Line is the world's first commercially available thermoplastic manufacturing line capable of using standard polymer, from polypropylene to PEEK, to create high-grade thermoplastic preregs on an industrial scale. The technology makes thermoplastics more easily accessible to a wider range of markets using a method of manufacture that is reliable, cost-efficient, user-friendly, cleaner and more environmentally friendly when compared with conventional approaches.

The technology has been developed by bespoke machine builder and fibre processing technology expert Cygnet Texkimp in partnership with a specialist composite material and processing company. This collaboration has resulted in a production-ready thermoplastic line to manufacture commercial-grade thermoplastic tapes in large volumes. It is a complete solution with a small footprint that can easily be accommodated within a relatively small manufacturing facility and doesn't require any particular specialist knowledge to operate.

Its design is based on the philosophy that to make composites viable in mainstream industrial markets including high-volume automotive and construction, we need to develop a simpler, cleaner, more cost effective way of manufacture that sweeps aside barriers to adoption that have so far prevented all but the highest-end applications - namely air and spacecraft, sports cars and wind turbines - from harnessing their potential.



Cygnet Texkimp's innovation transforms the way thermoplastics are manufactured and has clear value to add to the mainstream automotive and construction markets where thermoplastics can be used to manufacture strong, lightweight, durable, recyclable car parts and building materials quickly and reliably.

Website: www.cygnet-texkimp.com

AWARD SPONSORS

AGC
Your Dreams, Our Challenge

Bindatex
Advanced Materials Cutting

fluency
marketing

minden
Dust Extraction Systems

OB2B
INDUSTRIAL MARKETING & PR

PEGBOX
Technical Recruitment

ZUN
swiss cutting systems