

Cygnat Texkimp offer a range of filament winding equipment for multifilament tows. Solutions are tailored to the application with the number of axis dependent on component complexity.

The most complex version of a filament winder is the newly released 3D winding system. This system has 9 individual axes and the ability to wind around complex shapes. This concept was awarded the innovation in manufacture award by the Composites UK trade association.

For more information contact us:

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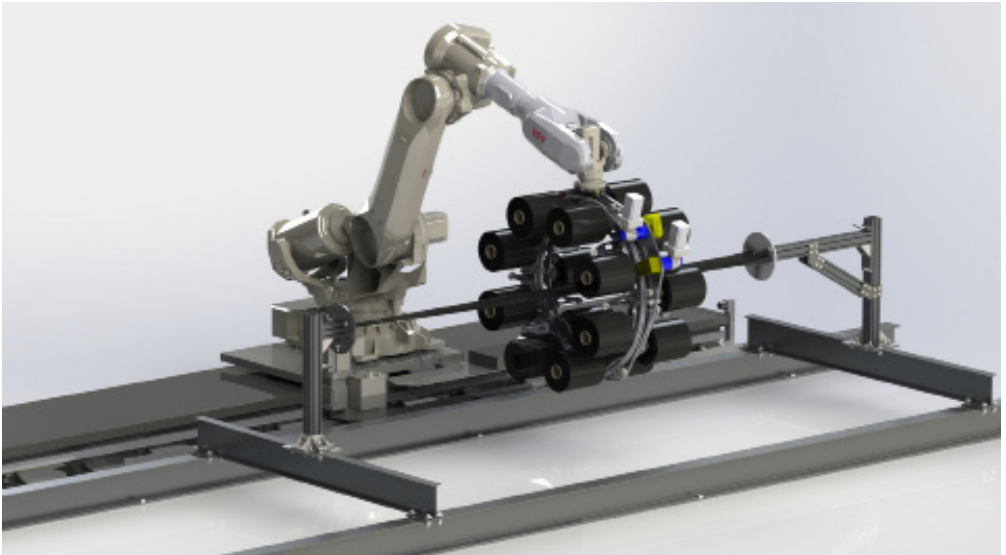
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Filament winding of:

- Dry fibre, with or without online resin impregnation
- Slit tape
- Tow preg

FILAMENT AND 3D WINDING



Process	Filament winding of multiple tows onto a rotating or stationary mandrel
Materials / Applications	Carbon, Aramid, Glass Thermoset resin systems, with or without metering
Typical Speed	Typical speeds of up to 60m/min, when winding hoop layers dependent on part geometry
Unwinding	Unrolling or over end feed of fibre into the placement head
Features Available	<ul style="list-style-type: none"> Full driven control of fibre tension to ensure constant tension between hoop and helical courses Stationary creel minimising head loads Multiple end fibre feeding On line tow spreading Fully metered resin application Exotherm alert Integrated data logging Integration with winding software. Automated handling of wound components through downstream processes Application of slit tape or tow preg High visibility threading system for easy inspection – eliminates misthreading