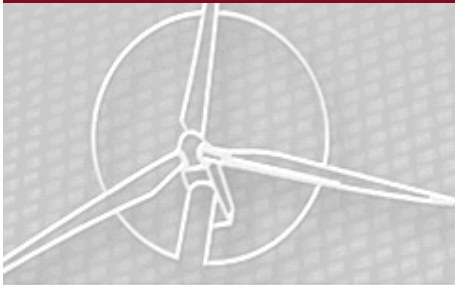


application *focus*

Wind industry



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RenPaste	High accuracy, mega size patterns in 1/3 of normal production time
Application Summary	Composite industry world wide demands increasing larger and more accurate patterns. Short production time, and less dependency on manual processes to improve accuracy are other important drivers for this growing industry. Such challenge is being by successfully integrating all key technologies involved.
Products used	RenPaste
Process used	The first step is to transform the part geometry into a suitable pattern model, and design/select the appropriate backing structure for the pattern. The top layer of the pattern, i.e. the critical surface for the composite part manufacturer, is made in SMP, i.e. Seamless Modeling Paste. The SMP layer is applied to a backing structure, designed to meet the basic requirements of weight, strength and cost. On this geometrically near perfect base, the SMP is applied using CNC equipment. Immediately following the extrusion, the pattern with the SMP material is postcured in-situ then check before the final milling. After the final milling, only a light sanding is needed before the pattern is complete, and final quality checks and application of wax or release agent can be carried out.
Main characteristics	Technologies involved : modern CAD/CAM, controlling large CNC machines, RenPaste for the pattern surface layers and IT technology.

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