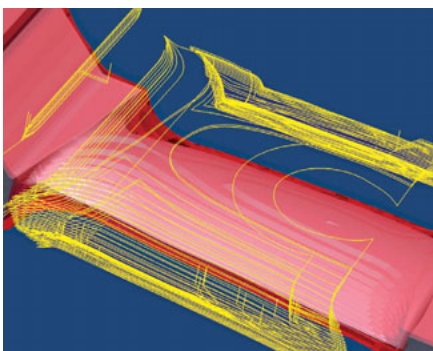
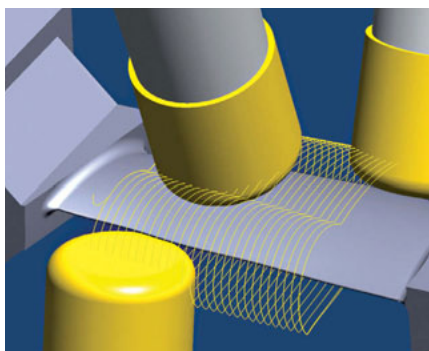


## Turbine blade: milled on a FIDIA PV 6060/20

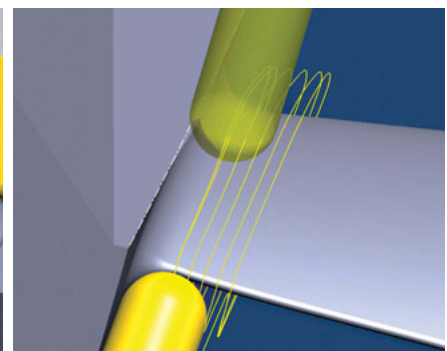
The single blade package of *hyperMILL*® offers optimised machining strategies for turbine blade machining. For efficient programming, special requirements on geometry and technology are considered. Beside the optimised machining strategies, general 2.5D, 3D and 5-axis features are available in *hyperMILL*®. This offers the user a whole set of machining strategies and the freedom of choice to find the best and efficient way to machine the part.



**2.5D and 3D strategies** For efficient roughing and finishing of turbine blades with any hub and shroud geometry, different strategies are available – like arbitrary stock roughing, profile and Z-level finishing and contouring.



**5-axis blade top milling** Blade surfaces will be finished in a continuous spiral. With endmills and bullnose endmills, the lead angle is automatically adjusted to avoid tool contact (machining) with the rear side.



**5-axis blade swarf cutting** Through the rolling ball radius, the tool holds contact with the blade and with the limit of the lateral surface at the same time. A perfect transition to the next blade will be created.



### Machine: FIDIA PV 6060/20

<b>Spindle</b>	<b>RPM</b>	<b>16.000 min<sup>-1</sup>, 20kW</b>
<b>Work area</b>	<b>Rapid feed (linear)</b>	<b>25 m/min</b>
	<b>Traverse path X/Y/Z</b>	<b>2.000/600/600 mm</b>
<b>NC swivelling rotary table</b>	<b>Clamping surface</b>	<b>2.280 x 710 mm</b>
	<b>Torque</b>	<b>98 Nm</b>
	<b>Max. work piece weight</b>	<b>2.500 kg</b>
<b>Work piece</b>	<b>Material</b>	<b>Ovar</b>



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