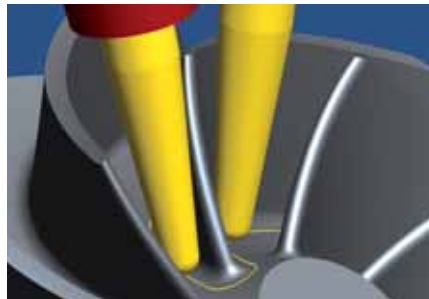


## Impeller: milled on a Hermle C 40 U dynamic

Milling impellers is a highly challenging technical process. For instance, optimum use of the space between the blades must be made to ensure the tool maintains maximum rigidity, and technical parameters such as the lead angle and feedrate need to be set. The Multiblade package from *hyperMILL*® makes programming a snap without the need for any special skills. A range of automatic functions, together with fully automated collision avoidance, reduce programming times and make programming that much easier.



**Multiblade Roughing** Ball mills and bullnose endmills with a cylindrical or conical cutter and a reinforced shank can be used for efficient roughing.



**Multiblade Flank Milling** The best fit function automatically detects the best fit of the tool to the blade geometry, which in most cases is doubly curved. The result is highly precise machining.



**Multiblade Edge Milling** The leading edges are finished separately, as it is not possible due to their curvature to generate these in one step at the same time that flank milling of the blade geometry is performed.



### Machine: Hermle C 40 U dynamic

Main Spindle (motor spindle)	RPM range	18.000 RPM <sup>-1</sup> / 15 kW
Workspace	Rapid traverse linear Traverse path X/Y/Z	45/60 mm/min 850/700/500
NC rotary table	Clamping surface Tilt area Speed A/C axis Max. table load	Ø 420 mm +91°/-139° 55/65 min 450 kg
Automation	Controller	HEIDENHAIN iTNC 530
Workpiece	Dimensions Material	Ø 210 mm x 144 mm Aluminium



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