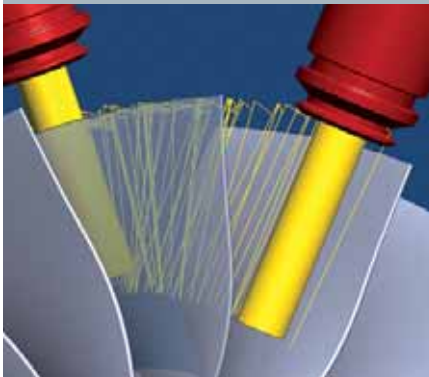


Multiblade milling on an ALZMETALL GS 650/5-T

Complex multiblade geometries such as blisks and impellers place special demands on milling technology. Collision-free tool paths are difficult to program, and they are only the starting point for efficient machining. The spaces between the blades have to be exploited optimally so that even for the most rigid tools will be suitable. Technology parameters such as feedrates and approach angles have to be adapted on a job-by-job basis. The multiblade package provided with *hyperMILL*® integrates strategies and automations that address these special requirements and make for simple programming.

Multiblade plunge roughing

Plunge roughing is a useful alternative when horizontal feed rates do not permit effective machining due to poor machining dynamics with long narrow tools.



Point finishing

This machining strategy enables continuous spiral machining of blades. The tool maintains point contact at all times. Point finishing produces flawless transitions between contiguous areas.



Hub finishing

Tool paths can be accurately adapted to the aerodynamic requirements and visual appearance of the hub area with just a few mouse clicks.



Machine: GS 650GT/5-T
Performance data: 18,000 min⁻¹/23 kW
Clamping area: diameter 360 mm
Rapid movement X/Y/Z: 60,000 mm/min
Traverse path X axis: 650 mm
Traverse path Y axis: 650 mm
Traverse path Z axis: 550 mm
Traverse path B axis: ±120°
Traverse path C axis: infinite
Max. table load: 500 kg
Controller: Heidenhain iTNC530

Workpiece: Blisk

Material: Aluminium

Stock: diameter 300 mm x 80 mm



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