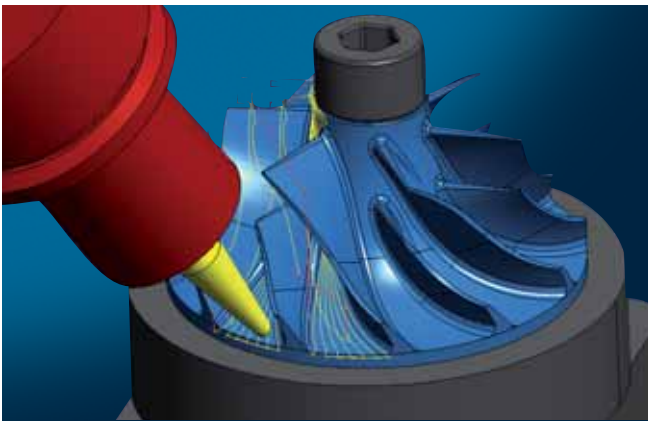
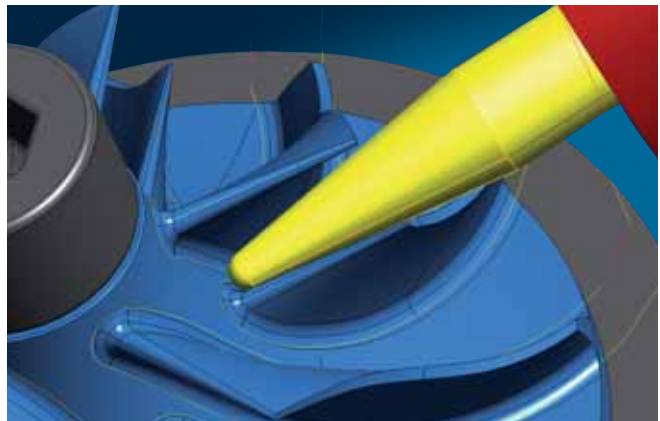


Impeller: Milled on a KERN Triton

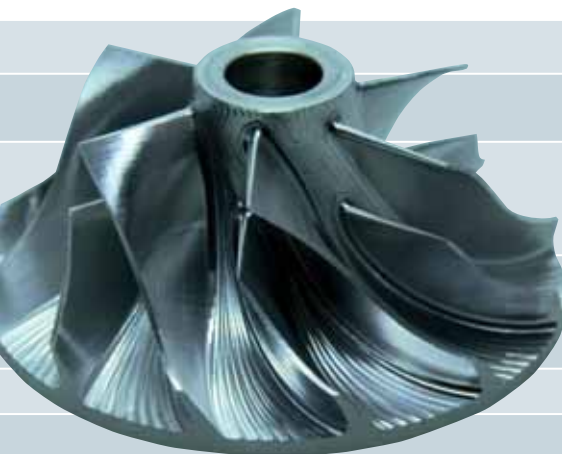
Impellers for passenger car turbochargers are manufactured in large quantities. Every second counts in serial production. The Multiblade package is synonymous with automated programming. And software allows operators to intervene as required, thereby optimising the tool orientation and feedrate so that the machining time is reduced to a minimum. Reliable collision checking and avoidance ensure maximum process reliability.



Multiblade roughing: With this strategy, the blades of a pre-turned stock are machined in a continual process using path distribution that matches the flow, various infeed options and local optimisation features.



Multiblade swarf cutting: Swarf cutting reduces machining times. The Multiblade Flank Milling strategy automatically calculates the best fit between the cutter and the blade surfaces.



Machine: KERN Triton with hydrostatic axes

Main drive	Spindle	40.000 RPM ⁻¹
Workspace	Rapid traverse/feedrate Traverse path X/Y/Z	30 m/min 500/500/400 mm
NC swivelling rotary table	Clamping surface	Ø max. 250 mm
	Tilt Range (A)	+5/-95°
	Turning Range (C)	360° (infinite)
Tool	Max. workpiece weight	60 kg
	Tool magazine	75 positions
	Max. tool length	140 mm
	Max. tool diameter	50 mm
Automation	Controller	Heidenhain iTNC 530 smarT.NC
Workpiece	Measurements	Ø 49 x 22,5 mm
	Material	Aluminium



OPEN MIND Technologies AG
 Argelsrieder Feld 5 • 82234 Wessling • Germany
 Phone: +49-81 53-93 35 00 • Fax: +49-81 53-93 35 01
 E-mail: Info.Europe@openmind-tech.com
 Internet: www.openmind-tech.com



KERN Micro- und Feinwerktechnik GmbH & Co. KG
 Olympiastraße 2 • 82438 Eschenlohe • Germany
 Phone: +49-88 24-91 01 0 • Fax: +49-88 24 / 91 01-1 24
 E-mail: mtsales@kern-microtechnic.com
 Internet: www.kern-microtechnic.com