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Image: 4 x jpg

September 18, 2017

Contour-accurate finishing in turbine production

The new geometry of the FRANKEN Pagode form end mill allows for a higher feed and a smoother run compared to previous form end mill with pine-tree profile.

Rueckersdorf, Germany - Milling cutters with pine-tree design are used for finishing blade root grooves and blade roots of turbines. FRANKEN has reworked their geometry and linked it with the name Pagode. The Pagode form end-mill has a different design of the chip flutes, in which the chip depth is individually adapted to the machining allowance of the workpiece. This contour-accurate adaptation of the chip flutes allows for a doubling of the number of teeth and thus an increase in feed. In order to supply the cutting edges with sufficient coolant despite the reduction of chip space, the Pagode form end mill was equipped with significantly more coolant exits. Due to the larger helix angles, two cutting edges always work simultaneously on the workpiece. This results in a smoother run and an excellent surface quality. The tangential relief grind of the cutting edges contributes to less wear and a longer tool life. The Pagode form end mill is produced individually according to customer specification and it can be used in high-alloyed and highly heat-resistant steels. It is configurable in diameters from 40 to 200mm and cutting lengths from 50 to 200mm.

About EMUGE-FRANKEN:

For nearly 100 years, the German company group EMUGE-FRANKEN has been one of the world's leading manufacturers of precision tools for thread cutting, gauging, clamping and milling. With 1,800 employees, EMUGE-FRANKEN offers an innovative product program with 40,000 in-stock items and a multiple of that with customer-specific tools. The product range is focused on applications in the automotive industry, power plants, aerospace industry, medical technology as well as mechanical and plant engineering. As a system supplier for machining industry, EMUGE-FRANKEN has own branch offices or sales partners in 49 countries.

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Images:

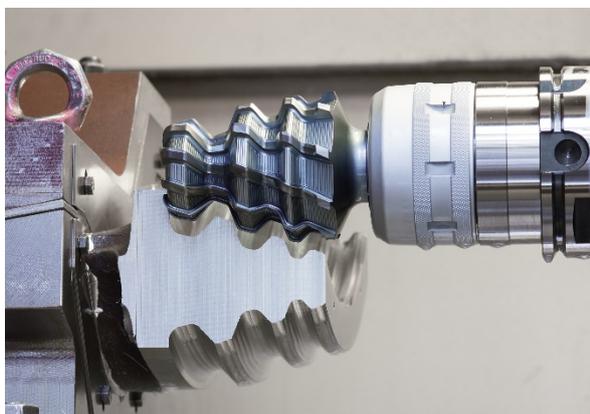


Image 1: Machining a blade root with the FRANKEN Pagode form end mill

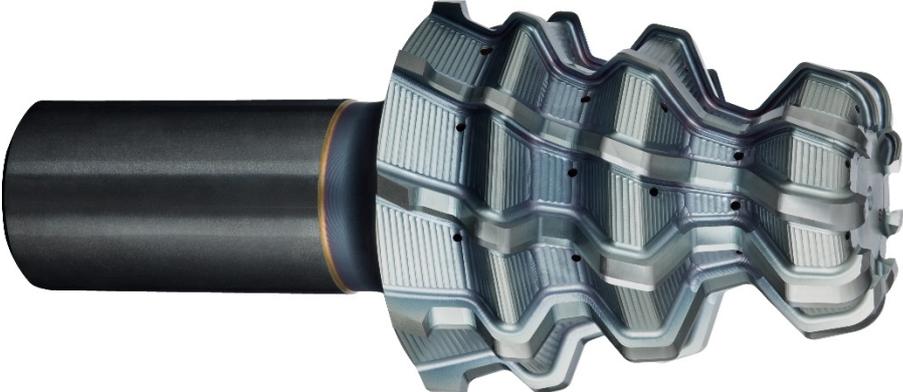


Image 2: FRANKEN Pagode form end mill for blade roots



Image 3: FRANKEN Pagode form end mill for blade root grooves

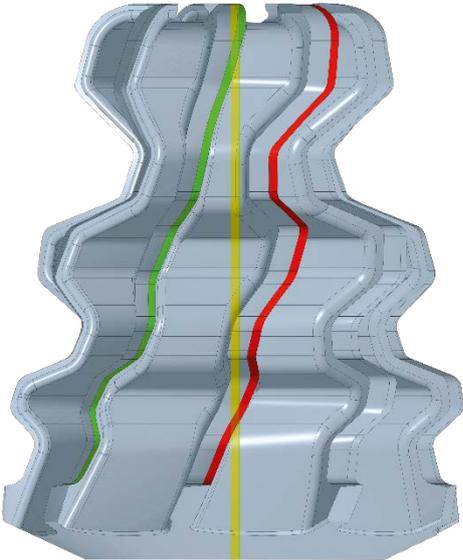


Image 4: Two rows of flutes simultaneously in operation (red and green) allow for a smooth run and a high surface quality (the yellow line represents the contour of the workpiece).