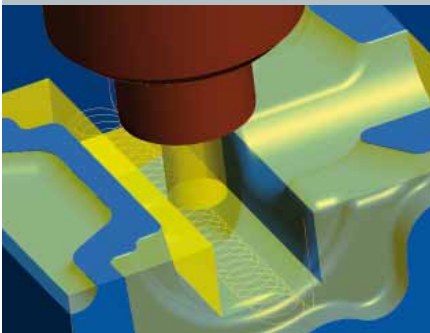


## HSC cavity milling using the HSC 75 linear

Providing 2D, 3D, HSC and 5AXIS strategies all within one user interface, *hyperMILL®* is a flexible and powerful CAM solution. For the machining of hard materials, special HSC functions such as „Fillet corners, smooth steppover“ and „Spiral machining“ ensure high cutting capacities, excellent surface quality, runtime optimisation and process reliability.

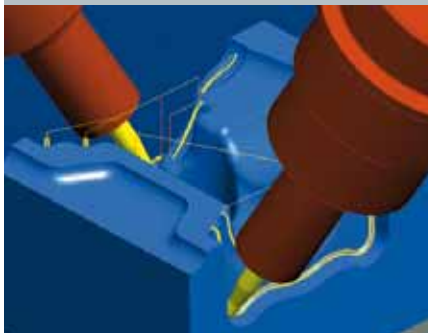
### Trochoidal slot cutting

When cutting slots in HSC, spiral steppover movements ensure an even load on your high-quality tools. Tool lifespan is optimised.



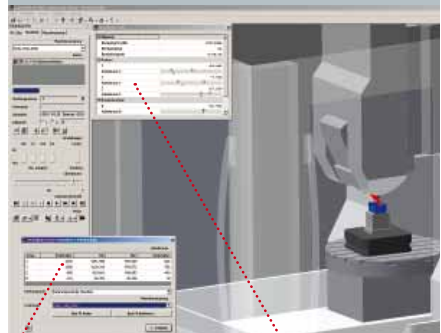
### 5axis rest machining

This strategy combines automatic indexing with 5AXIS simultaneous milling. The machining job is optimised automatically; the user only needs to select a collision avoidance method.



### Workspace monitoring

Machining and removal simulation is available for checking whether the machining job can be completed inside the machine's workspace. Tool paths, clamping position and workpiece orientation are simulated based on the machine model in question.



**Machine:** HSC 75 linear

**Clamping surface:** diameter 750 mm (option)

**Max. workpiece weight:** 800 kg

**Travel speed X/Y/Z:** 90/ 90/ 90 m/min

**Traverse path X-axis:** 750 mm (885 mm 5AXIS version)

**Traverse path Y-axis:** 600 mm

**Traverse path Z-axis:** 560 mm (600 mm 5AXIS version)

**Tilt area B axis:** -10° to 110° (option)

**NC-controlled C axis:** 360° (option)

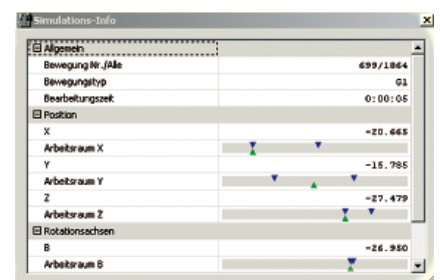
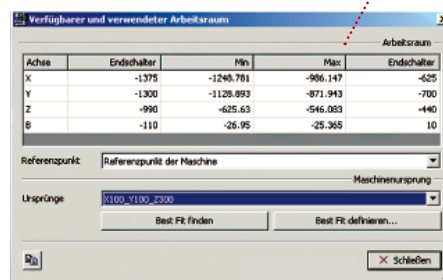
**RPM up to:** 28,000 min<sup>-1</sup> (18,000; 42,000)

**Controller:** Heidenhain iTNC 530

**Workpiece:** HSC cavity

**Material:** Steel, tempered 52 HRC

**Stock:** 100 x 76 x 60 mm



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