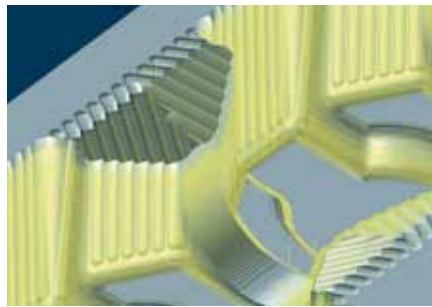


Biscuit shape: milled on a VCE 900 Pro-X

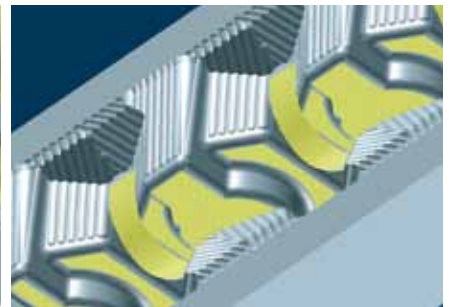
Thanks to its 2D, 3D, HSC and 5-axis strategies and numerous optimisation functions, *hyperMILL*® enables tool and mould manufacturers to respond quickly and flexibly to customer requirements. All machining strategies are available under one user interface, which means that even rarely used strategies are easier to apply.



2D contour milling: Based on canned cycles support for 2D machining, for example the actual diameter of the tool used can be taken into account by means of radius compensation, and the milling precision can easily be achieved.



Z-level finishing with path filleting: Machining takes place close to the contour on planes with uniform Z in-feed, and additional functions allow a targeted optimisation of the machining. In the inner corners, paths can be filleted e.g. for HSC machining.



Profile finishing: The definition of milling and stop surfaces for profile finishing makes high-precision machining possible. Bordering areas are not touched and the surface quality is improved.



Machine: VCE 900 Pro-X

Processing	Tool	Diameter [mm]	Corner Radius [mm]	Number of Teeth	Spindle Speed [min ⁻¹]	Feed Rate [mm/min]	Lateral Feed [mm]	Axial Feed [mm]	Processing Time [min']
		D	R	z	n	v _f	a _e	a _p	t
Roughing	Torus cutter	12	1,5	2	14.000	5.000	6	2.5	12'43"
Counterboring	End mill	3	–	2	12.000	2.000	–	0.5	2'00"
Rest machining	Torus cutter	6	1	2	12.000	3.000	3	1	18'10"
Rest machining	Torus cutter	6	1	2	12.000	3.000	3	0.3	13'39"
Finishing	Conical ball mil	3	1,5	2	13.000	1.500	–	–	404'48"
Processing Time (Total)									451'20"

Spindle with 16.000 min⁻¹ Material Aluminium Specification high surface quality



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



Mikron Agie Charmilles AG
 HSM Competence
 Ipsachstrasse 16 • 2560 Nidau • Switzerland
 Phone: +41-32-366 11 11 • Fax: +41-32-366 11 66
 E-mail: info@mikron-ac.com
 Internet: www.gfac.com

AgieCharmilles