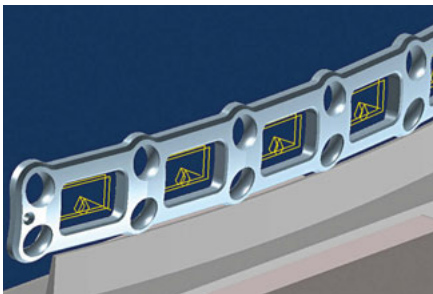
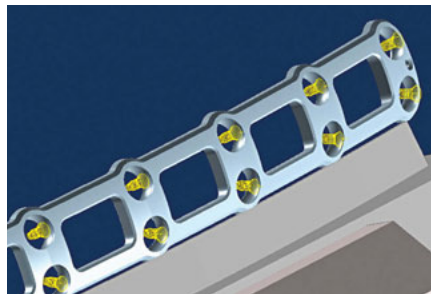


Medical part: milled on a MIKRON HSM 400U

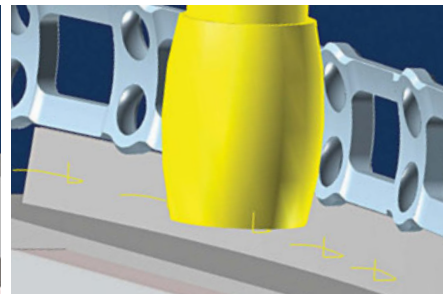
hyperMILL® integrates everything from 2.5D, 3D and HSC up to 5-axis strategies on a simple Windows-based user interface. Thus the user can choose from a comprehensive spectrum of milling strategies, all of which follow a uniform operating principle – considerably facilitating training and daily use.



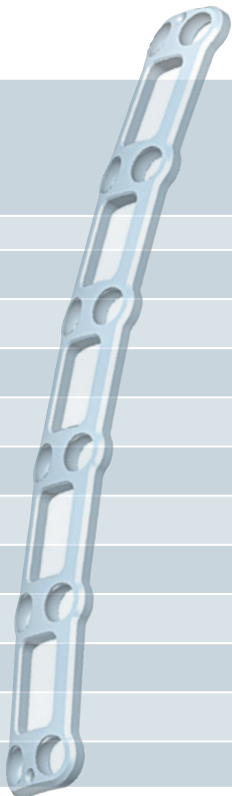
2D contour machining: 2.5D machining supports the output of control cycles. This enables tool radius correction, feedrate compensation and subsequent editing on the controller.



3D roughing and finishing: hyperMILL® offers various 3D roughing and finishing strategies. Therefore the user can always choose the most efficient method depending on the surface shape.



5-axis swarf cutting: Where the geometry enables swarf cutting, the machining time can be greatly reduced. The cycle also supports tapered and barrel-shaped tools.



Machine: Mikron HSM 400U

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	End mill	10	-	4	3.000	1.200	1	10	6'0''
Prefinishing	Ball mill	8	4	2	12.000	1.000	1	0,5	3'0''
Center	NC-drill	6	-	2	4.000	50	-	-	2'0''
Drilling	Drill	1,5	-	2	8.000	100	-	-	0'30''
Drilling	Drill	5	-	2	3.800	300	-	-	1'0''
Finishing surface	Ball mill	4	2	2	28.000	4.500	0,15	0,2	9'30''
Contouring	Contour tool	4,5	2,86	2	5.000	50	0,05	-	3'0''
Roughing pocket	End mill	-	0,5	3	40.000	600	0,015	0,02	1'30''
Finishing pocket & walls	End mill	-	0,6	2	8.000	500	0,01	0,015	3'0''
Chamfer milling	Chamfer tool	0,5	0	2	20.000	500	0,01	0,01	2'30''
Processing Time (Total)									32'00''

Spindle with 42.000 min⁻¹ Material Titanium (3.7165) Focus Medical



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