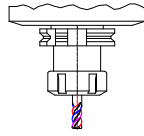


Machine	Mikron VCE600		
Spindle type	Henninger 822		
Max RPM	36.000		
Power Kw			
Cutter holder	Collet Chuck ER11		
Workpiece material	1.2343		
Hardness	40 HRc		
Application			
Side milling	<input type="checkbox"/>	Up-milling	<input type="checkbox"/>
Slotting	<input type="checkbox"/>	Down-milling	<input type="checkbox"/>
Profiling	<input checked="" type="checkbox"/>	Ramping	<input type="checkbox"/>
Plunging	<input type="checkbox"/>	Circular	<input type="checkbox"/>

Sketch



Cutter supplier	
Cutter description	
Cutter diameter eff.	Ød mm
Number of teeth	z
Carbide grade	

Test 1	Test 2
<b>van Hoorn Carbide</b>	<b>Competitor</b>
VHMSK 2 008 064 06 03 L050	
0,8	0,8
2	2
03	TiAlN coated

Cutting conditions	
Cutting speed	V <sub>c</sub> m/min
Revolution	n rpm
Feed per tooth	f <sub>z</sub> mm
Table feed	V <sub>f</sub> mm/min
Depth of cut	a <sub>p</sub> mm
Width of cut	a <sub>e</sub> mm
Length of cut	L mm
Chip removal rate	Q cm <sup>3</sup> /min
Chip thickness	Hm mm
Coolant type	
Coolant pressure	Bar
Cutting time / comp	T <sub>comp</sub> min
Toollife	T <sub>total</sub> min
Power consumption	P Kw
Edge wear	V <sub>b</sub> mm
Successful	

80	80
32.000	32.000
0,010	0,010
645	645
0,2	0,2
0,02	0,02
0,0026	0,0026
0,00159	0,00159
dry / air minimum lub. / emulsion	dry / air minimum lub. / emulsion
Internal External	Internal External
240	80
Yes / Average / No	Yes / Average / No

Remarks

No broken tools, only unsharped edges, VHMSK gives better surface finish.  
Workpiece is a part of mold; cover for halogen (automotive piece)