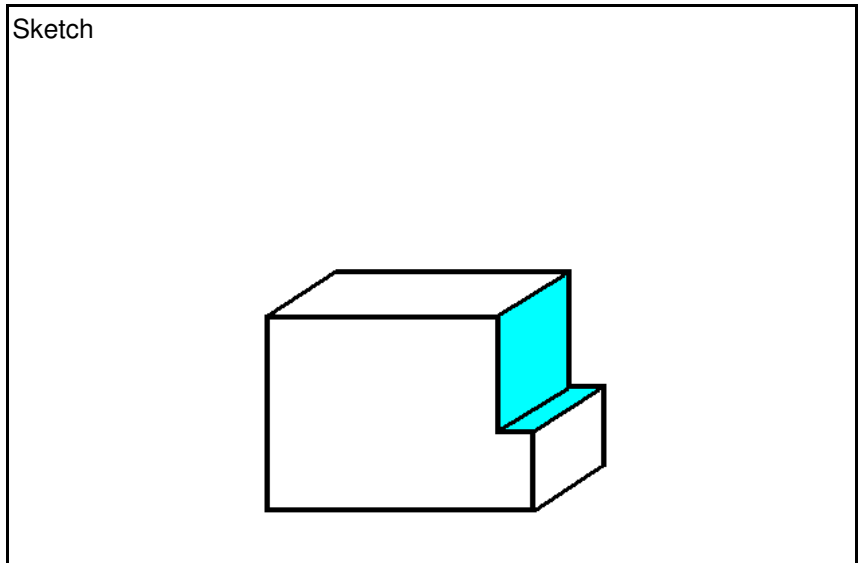


Machine			
Spindle type			
Max RPM	30.000		
Power Kw			
Cutter holder	Shrink Holder		
Workpiece material	Graphite		
Hardness	ISO 63		
Application			
Side milling	<input type="checkbox"/>	Up-milling	<input type="checkbox"/>
Slotting	<input type="checkbox"/>	Down-milling	<input type="checkbox"/>
Profiling	<input type="checkbox"/>	Circular	<input type="checkbox"/>
Plunging	<input type="checkbox"/>		



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>
VHGKF 3 040 060 04 02	
4	4
3	3
02	Diamond 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
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

276	276
22.000	22.000
0,121	0,121
8.000	8.000
5	5
0,1	0,1
4,0	4,0
dry / air / minimum lub. / emulsion	dry / air / minimum lub. / emulsion
Internal External	Internal External
150	150

Remarks

Depth of cut and width of cut can be higher. This test is only made to check the toollife of both endmills. Duration test; After 150 minutes there was no edge-wear visible on the Van Hoorn endmill. The competitor already had edge-wear (Vb 0,07). There is a visibility check every 30 min.