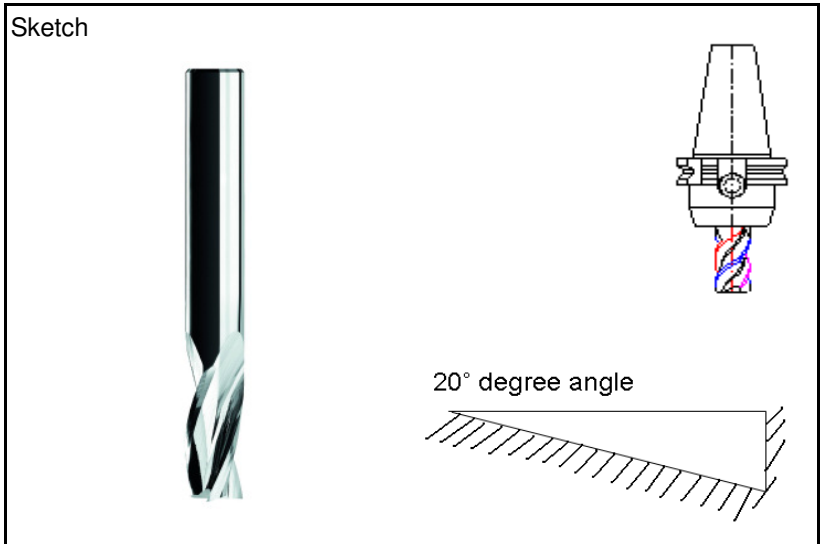


Machine	Hartford VMC1600
Spindle type	Sk 50
Max RPM	8.000
Power Kw	
Cutter holder	Weldon
Workpiece material	Aluminium
Hardness	AlMgSi-1
Application	
Side milling	<input checked="" type="checkbox"/> Up-milling <input type="checkbox"/>
Slotting	<input checked="" type="checkbox"/> Down-milling <input type="checkbox"/>
Profiling	<input type="checkbox"/> Ramping <input type="checkbox"/>
Plunging	<input type="checkbox"/> Circular <input type="checkbox"/>



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

Test 1	Test 2
van Hoorn Carbide	van Hoorn Carbide
VHLA 3 200 102 20 15	VHLA 3 200 102 20 15
20	20
3	3
15	15

Cutting conditions	
Cutting speed	V _c m/min
Revolution	n rpm
Feed per tooth	f _z mm
Table feed	V _f mm/min
Depth of cut	a _p mm
Width of cut	a _e mm
Length of cut	L mm
Chip removal rate	Q cm ³ /min
Chip thickness	Hm mm
Coolant type	
Coolant pressure	Bar
Cutting time / comp	T _{comp} min
Toollife	T _{total} min
Power consumption	P Kw
Edge wear	V _b mm

250	250
3.980	3.980
0,134	0,134
1.600	1.600
8	8
10	20
128,00	256,0
0,09475	0,13400
dry / air / minimum lub. / emulsion	dry / air / minimum lub. / emulsion
Internal External	Internal External

Remarks

Test 1 and Test 2 are made with same endmill.
 Test is still running, total time is already 2 hours.
 Test 2, ramping under 20° degree angle.