## Test report no: 026-06



Test 2

Competitor

12

Machine		Haas VF4		
Spindle type		SK 40		
Max RPM		8.000		
Power Kw		15		
Cutter holder		Weldon		
Workpiece material		AIMg 4,5		
Hardness		Alu 51ST		
Application				
Side milling				
Slotting	X	Up-milling		
Profiling		Down-milling		
Plunging		Circular		

Sketch	
	( <b>4</b> ±1)

Test 1

van Hoorn Carbide

VHRAW 3 120 078 12 15 12

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

3	3
15	Not Coated
302	302
8.000	8.000
0,167	0,094
4.000	2.250
12	12
12	12
576,0	324,0
dry / air / minimum lub. / emulsion	dry / air / minimum lub. / emulsion
Internal External	Internal External

## Remarks

Test 1; Started with cutting conditions similar like competitor. Optimized till cutting conditions according Test 1. Chip removal rate; more than 1,5 times Fette.

Test 2; Maximum cutting conditions for competitor endmill.