

Machine	
Spindle type	
Max RPM	
Power Kw	
Cutter holder Hydro Chuck	
Workpiece material 14Cr17Ni2	
Hardness -	
Application	
Side milling <input checked="" type="checkbox"/>	Up-milling <input type="checkbox"/>
Slotting <input 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	Competitor
HAMF 8 200 102 20 03 050	
20	20
8	6
03	TiAlN

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	H _m 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

157	157
2.500	2.500
0,035	0,035
700	525
50	50
0,2	0,2
7,00	5,25
0,00350	0,00350
dry / air / minimum lub. / emulsion	dry / air / minimum lub. / emulsion
Internal External	Internal External
200 components	200 components

Remarks

Due to 8 flutes compared to 6 flutes, higher table feed, so also higher chip removal rate.
~20% faster than competitor