

Machine	Ingersoll OPS 600
Spindle type	
Max RPM	40.000
Power Kw	
Cutter holder	Shrink Holder
Workpiece material	Poco Graphite
Hardness	G1700
Application	
Side milling	<input checked="" type="checkbox"/>
Slotting	<input checked="" type="checkbox"/>
Profiling	<input checked="" type="checkbox"/>
Plunging	<input checked="" type="checkbox"/>
Up-milling	<input type="checkbox"/>
Down-milling	<input type="checkbox"/>
Circular	<input type="checkbox"/>

Sketch

Workpiece; 62 x 62 x 40mm

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

Test 1	Test 2
van Hoorn Carbide	Competitor
VHMGK 2 010 064 06 02	
1	1
2	2
02	Diamond Coated

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
Coolant type	
Coolant pressure	Bar
Cutting time / comp	T _{comp} min
Toollife	T _{total} min
Power consumption	P Kw
Edge wear	V _b mm

126	126
40.000	40.000
0,013 - 0,015	0,010
1000 - 1200	800
0,05	0,05
0,1	0,1
0,005 - 0,006	0,004
dry / air / minimum lub. / emulsion	dry / air / minimum lub. / emulsion
Internal External	Internal External
28 - 38 Min	40 Min - 1H02Min

Remarks

First test is made with semi-finishing application, to get the most material away. Table fees is 1200 mm/min
 Finishing with table feed 1000 mm/min.
 Time effort is quiet big. Surfacequality is very good according customer.