

Machine	Mikron VCP 600
Spindle type	Step-Tec
Max RPM	20.000
Power Kw	18 KW
Cutter holder	collet chuck
Workpiece material	RVS 316Ti (1.4571)
Hardness	
Application	
Side milling	<input checked="" type="checkbox"/> Conventional <input type="checkbox"/>
Slotting	<input type="checkbox"/> Climb - 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	
<b>Cutting conditions</b>	
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]
Chip thickness	H <sub>m</sub> [mm]
Coolant type	
Coolant pressure	P [Bar]
Cutting time / comp	T <sub>comp</sub> [min]
Toollife	T <sub>total</sub> [mtr]
Power consumption	P [Kw]
Edge wear	V <sub>b</sub> [mm]
Successful	

High Cutting Speed	Conventional Cutting Speed
van Hoorn Carbide	van Hoorn Carbide
VHVTR 4 100 070 10 03 050	VHVTR 4 100 070 10 03 050
10	10
4	4
400	75
12.732	2.387
0,065	0,050
3.310	477
15	10
2	4
250	250
99,30	19,08
0,02907	0,03160
<b>dry</b> / air / minimum lub. / emulsion	dry / air / minimum lub. / emulsion
Internal External	Internal <b>External</b>
50	250
<b>Yes</b> / Average / No	Yes / <b>Average</b> / No

Remarks  
**Dry machining!**  
**400 m/min cutting speed (Vc)**  
 More than 5 times higher chip removal rate (Q)!