

# Cutting protocol milling

Company: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_

Administrator: \_\_\_\_\_

Machine: \_\_\_\_\_ P: \_\_\_\_\_ [kW]

Type: \_\_\_\_\_ n(s): \_\_\_\_\_ [min<sup>-1</sup>]

Tool arbor: \_\_\_\_\_  $V_M$ : \_\_\_\_\_ [mm/min]

Workshop no.: DIN des.:						Date: Analysis [%]:					
C	Si	Mn	P	S	Cr	Ni	Mo	V	W		
N/mm <sup>2</sup>			HB			HV			HRC		

CNC controller

Test	Current situation	Test 1	Test 2	Test 3
<b>Tool</b>				
Machining conditions				
Manufacturer				
Cutter type				
Arbor				
Overhang				
Cooling (air/water)				
<b>Cutting material</b>				
Cutting material type				
Manufacturer				
Cutting material designation				
Coating				
<b>Cutting data</b>				
$V_c$ [m/min]				
$V_f$ [mm/min]				
n(s) [min <sup>-1</sup> ]				
$D_c$ [mm]				
$f_z$ [mm/tooth]				
$a_p$ [mm]				
$a_e$ [mm]				
T [min]				
<b>Results</b>				
Number of runs				
Tool life [min]				
Tool life [m]				
Chip volume [cm <sup>3</sup> /min]				
Power consumption [kW]				
Assessment*	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
Sketch/comment:				

\*1 very poor, 5 satisfactory, 10 very good