

BMS-4020 ϕ 10.0mm End mill Application (A6061)

Motor Spindle BMS-4020
Machine Sodick MC (MC430L)
Tools NS TOOL ϕ 10.0 3-Flute Power "Z" End mill for Aluminum ALZ345 ϕ 10
Work Aluminum Alloy (A6061)
Cutting W : 12.9mm Depth : 6.1mm slotting / Side milling
Coolant Non-water-soluble cutting oil
Cutting Condition

		NS TOOL	NAKANISHI
Cutting Speed [m/min]		350	377
Spindle Speed [min ⁻¹]		11,100	12,000
Groove cutting	Feed[mm/min]	2,600	500
	Feed Rate[mm/tooth]	0.078	0.014
	Depth of cut $A_p \times A_e$ [mm]	10 $\times$ 10	1 $\times$ 10
Side milling	Feed[mm/min]	3,800	900
	Feed Rate[mm/tooth]	0.114	0.025
	Depth of cut $A_p \times A_e$ [mm]	10 $\times$ 3	6 $\times$ 1 Finishing : 6.1 $\times$ 0.05
Processing Time(sec)			29
E4000 Controller load meter		—	2 load meter lighting (continuous duty operation)

