

ALB225 · ALB225-DLC

切削参数参考表 Recommended Milling Conditions

技术资料 K-026

加工材料 Work Material			铝合金 A2017·A5052·A7075							
			一般切削参数 General Milling Conditions				高速切削参数 High Speed Milling Conditions			
刀具伸出量 Tool Overhang			L/D ≥ 10				L/D < 10			
(R)球头半径 Radius	刃长 Length of Cut	有效长 Effective Length	主轴转速 Spindle Speed min ⁻¹	进给速度 Feed mm/min	切深量 Depth of cut ap mm ae mm		主轴转速 Spindle Speed min ⁻¹	进给速度 Feed mm/min	切深量 Depth of cut ap mm ae mm	
0.3	0.45	3	20,000	1,000	0.1	0.2	40,000	2,000	0.1	0.2
0.4	0.6	4	20,000	1,000	0.1	0.2	40,000	2,000	0.1	0.2
0.5	2	—	20,000	2,000	0.3	0.3	40,000	4,000	0.3	0.3
	0.75	5	20,000	1,500	0.3	0.3	30,000	3,000	0.3	0.3
0.75	0.75	10	10,000	1,000	0.2	0.2	20,000	2,000	0.2	0.2
	3	—	20,000	2,000	0.3	0.5	40,000	4,000	0.3	0.5
1	1.1	7.5	16,000	1,600	0.3	0.5	30,000	3,000	0.3	0.5
	1.1	15	10,000	1,000	0.2	0.3	20,000	2,000	0.2	0.3
1.5	4	—	20,000	2,000	0.5	0.5	30,000	4,000	0.5	0.5
	1.5	10	15,000	1,500	0.3	0.5	20,000	3,000	0.3	0.5
	1.5	20	12,000	1,200	0.2	0.5	15,000	2,000	0.2	0.5
2	6	—	18,000	2,000	0.6	1	25,000	4,000	0.6	1
	2.5	15	15,000	1,600	0.6	1	20,000	3,000	0.6	1
	2.5	30	12,000	1,200	0.3	1	15,000	2,000	0.3	1
2.5	8	—	14,000	2,000	0.5	1.5	20,000	4,000	0.5	1.5
	3	20	12,000	1,500	0.5	1.5	16,000	3,000	0.5	1.5
	3	40	8,000	1,000	0.3	1.5	12,000	2,000	0.3	1.5
3	10	—	12,000	3,000	0.8	1.8	20,000	5,000	0.8	1.8
	3.5	25	8,000	2,000	0.8	1.8	15,000	3,000	0.8	1.8
	3.5	50	5,000	1,500	0.5	1.8	10,000	2,000	0.5	1.8
4	12	—	12,000	3,000	1	2	20,000	5,000	1	2
	6	30	8,000	2,000	1	2	15,000	4,000	1	2
5	6	60	5,000	1,200	0.6	2	10,000	2,000	0.6	2
	4	16	10,000	2,000	1	2	15,000	3,000	1	2
6	20	—	8,000	2,000	2	3	12,000	3,000	2	3
6	24	—	6,000	2,000	3	4	10,000	3,000	3	4
备注 Notes			※ 切深量的ap表示轴向切入量, ae表示步距。 ※ 请以相同的比率调整主轴转速和进给速度。 (机床主轴转速使用20,000转以上时, 请进行相同的调整。) ※ 请使用刚性好、精度高的机床和夹具。 ※ 因工件、机械或铣刀刀柄而导致出现振动或异响时, 请变更切削参数。 ※ 建议使用水溶性切削方式。 ※ Depth of Cut: ap=Axial Depth of Cut / ae=Radial Depth of Cut. ※ Adjust both spindle speed and feed at the same rate. (When using spindle speed 20,000 or more, the same adjustment is required.) ※ Use a rigid and precise machine and chuck holder. ※ Adjust milling conditions when vibration and abnormal sounds occur according to the rigidity of the machine and the chuck holder, or work clamping condition. ※ Water soluble cutting fluid is recommended.							