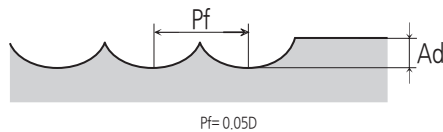


### High Speed Milling Condition

피삭재	프리하든강			고경도강(열처리강)					
Workpiece	Prehardened Steel NAK, HPM			Hardened Steels SKD 61, STAVAX			Hardened Steels SKD 11		
HRC	HRC 30 ~ 45			HRC 45 ~ 55			HRC 55 ~ 65		
Radius of Ball Nose	Depth of Cut Ad(mm)	Speed (min <sup>-1</sup> )	Feed (mm/min)	Depth of Cut Ad(mm)	Speed (min <sup>-1</sup> )	Feed (mm/min)	Depth of Cut Ad(mm)	Speed (min <sup>-1</sup> )	Feed (mm/min)
R0.05	0.003	50,000	170	0.002	42,000	150	0.001	40,000	100
R0.1	0.004	50,000	200	0.003	42,000	180	0.002	40,000	120
R0.15	0.005	45,000	320	0.004	42,000	300	0.003	40,000	180
R0.2	0.006	45,000	420	0.005	42,000	400	0.004	40,000	240
R0.25	0.007	45,000	530	0.006	42,000	500	0.005	40,000	300
R0.3	0.008	42,000	1,000	0.007	40,000	1,200	0.006	40,000	800
R0.4	0.100	42,000	1,400	0.009	40,000	1,600	0.008	40,000	1,000
R0.5	0.10	40,000	2,600	0.10	30,000	2,000	0.10	25,000	1,300
R0.75	0.15	30,000	3,000	0.10	30,000	2,500	0.10	25,000	1,800
R1.0	0.20	25,000	3,000	0.20	25,000	2,500	0.15	20,000	1,800
R1.25	0.20	25,000	3,000	0.20	20,000	2,500	0.15	16,000	1,800
R1.5	0.20	20,000	3,000	0.20	18,000	2,500	0.15	14,000	2,000
R2.0	0.25	20,000	3,000	0.20	16,000	2,500	0.15	12,000	2,000
R2.5	0.25	18,000	3,000	0.20	14,000	2,500	0.15	9,000	2,000
R3.0	0.30	18,000	3,300	0.25	16,000	2,800	0.15	8,000	2,000
R4.0	0.40	16,000	3,300	0.30	12,000	2,800	0.20	7,000	1,500
R5.0	0.50	13,000	3,400	0.40	10,000	2,600	0.30	5,000	1,300
R6.0	0.60	7,000	2,000	0.50	6,000	1,800	0.40	4,000	1,100

Depth of Cut



### ⚠ 경고 Warning

1. 경미하고 강성이 있는 홀더와 장비를 사용하십시오.
2. 절입량의 Ad는 축방향 절입량을 표시합니다.
3. 강재 가공 시 Air Blow나 Oil Mist 사용을 추천합니다.
4. 회전수와 테이블 이송은 같은 비율로 조정하십시오.
5. 상기 조건표는 참고 자료이니 실제 가공 시 가공 형상, 기계 용량, 작업환경에 따라 조건을 조정해서 가공하시기 바랍니다.

1. Use a rigid precise machine and holder.
2. Ad(mm) : Axial Depth of Cut.
3. For milling steels, air blow or MQL(Oil Mist) are recommended.
4. Adjust both Spindle speed and Feedrate by the same proportion.
5. The above condition are only reference. In actual machining conditions adjust these parameters according to the milling shape, machine capability and the operation environment.