

TWO-FLUTE END MILLS

HSS

2SS

End mill, Short cut length, 2 flute

Unit : mm

Order Number	DC	APMX	LF	DCON	No. of Flutes	Stock	Type
2SSD1650	16.5	32	100	16	2	●	3
2SSD1700	17	34	100	16	2	●	3
2SSD1750	17.5	34	100	16	2	●	3
2SSD1800	18	34	100	16	2	●	3
2SSD1850	18.5	38	115	20	2	●	1
2SSD1900	19	38	115	20	2	●	1
2SSD1950	19.5	38	115	20	2	●	1
2SSD2000	20	38	115	20	2	●	2

RECOMMENDED CUTTING CONDITIONS

Work material	Structural steel, Carbon steel AISI 1045, AISI 1050		Carbon steel, Alloy steel (20—30HRC) AISI 1055, AISI P20		Alloy steel, Tool steel, Pre-hardened steel (30—35HRC) AISI H13		Austenitic stainless steel AISI 304, AISI 316		Cast iron AISI No 35 B		Aluminium alloy	
	Dia. DC (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)
0.5	8000	60 (50)	7000	40 (35)	4500	30 (25)	3500	25 (20)	7500	65 (55)	16000	120 (100)
1	5300	80 (65)	4200	50 (40)	3000	35 (30)	2400	27 (22)	4500	85 (70)	11000	170 (140)
2	3100	85 (70)	2600	60 (50)	1800	50 (40)	1400	30 (25)	2700	90 (75)	6800	190 (150)
3	2300	90 (75)	1800	65 (55)	1400	55 (45)	1100	35 (30)	2000	95 (80)	4800	240 (190)
4	1800	100 (85)	1400	70 (60)	1100	55 (45)	850	35 (30)	1600	110 (90)	3800	310 (250)
5	1600	110 (95)	1200	90 (75)	900	60 (50)	710	40 (35)	1300	120 (100)	3200	360 (290)
6	1400	120 (100)	1000	90 (75)	780	65 (55)	610	50 (40)	1100	130 (110)	2800	400 (320)
8	1100	130 (110)	800	95 (80)	580	65 (55)	470	50 (40)	850	140 (120)	2200	460 (370)
10	860	140 (120)	640	100 (80)	470	65 (55)	380	55 (45)	700	160 (130)	1800	440 (350)
12	720	130 (110)	530	95 (80)	390	60 (50)	310	50 (40)	580	140 (120)	1600	420 (340)
16	540	110 (95)	400	85 (70)	300	55 (45)	230	40 (35)	440	120 (100)	1200	350 (280)
20	430	100 (80)	320	70 (60)	240	45 (38)	190	35 (30)	350	100 (85)	960	300 (240)

Depth of cut

$\leq 0.1DC$ ($DC \leq \phi 3$)
 $\leq 0.2DC$ ($DC > \phi 3$)

$\leq 1.5DC$

$\leq 0.1DC$ ($DC < \phi 2$)
 $\leq 0.3DC$ ($\phi 2 \leq DC \leq \phi 3$)
 $\leq 0.5DC$ ($DC > \phi 3$)

DC: Dia.

() : Indicates standard feed rate for slotting.

1) If the rigidity of the machine or the work materials installation is very low, or chattering and noise are generated, reduce the revolution and feed rate proportionately.

● : Inventory maintained in Japan.