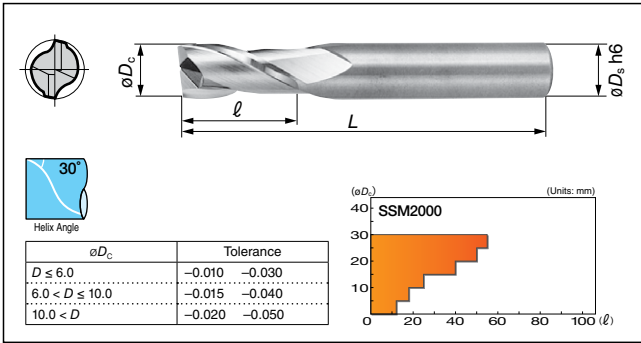


SSM 2000 Type



2 Flutes
Uncoated
Corner
Side Milling
Groove Finishing

Coated Carbide	Carbon Steel	Alloy Steel	Pre-hardened Steel	Tempered Steel	In-Stock	Hardened Steel	Stainless Steel	Ti Alloy	Cast Iron	Al Alloy	Copper Alloy	Graphite	CFRP
○	○	○	○	○	○	○	○	○	○	○	○	○	○



Body (Diameter $\phi 0.2$ to 3.1mm)

Cat. No.	Stock	Dimensions (mm)			
		ϕD_c	ℓ	L	ϕD_s
SSM 2002	●	0.2	0.5	40	3
2003	●	0.3	1.0	40	3
2004	●	0.4	1.0	40	3
2005	●	0.5	1.5	40	3
2006	●	0.6	1.5	40	3
SSM 2007	●	0.7	1.5	40	3
2008	●	0.8	2.0	40	3
2009	●	0.9	2.0	40	3
2010	●	1.0	3.0	40	4
2011	●	1.1	3.0	40	4
SSM 2012	●	1.2	3.0	40	4
2013	●	1.3	3.0	40	4
2014	●	1.4	3.0	40	4
2015	●	1.5	5.0	40	4
2016	●	1.6	5.0	40	4
SSM 2017	●	1.7	5.0	40	4
2018	●	1.8	5.0	40	4
2019	●	1.9	5.0	40	4
2020	●	2.0	6.0	40	4
2021	●	2.1	6.0	40	4
SSM 2022	●	2.2	6.0	40	4
2023	●	2.3	6.0	40	4
2024	●	2.4	6.0	40	4
2025	●	2.5	8.0	40	4
2026	●	2.6	8.0	40	4
SSM 2027	●	2.7	8.0	40	4
2028	●	2.8	8.0	40	4
2029	●	2.9	8.0	40	4
2030	●	3.0	8.0	45	6
2031	●	3.1	8.0	45	6

Grade: A1

Body (Diameter $\phi 3.2$ to 6.1mm)

Cat. No.	Stock	Dimensions (mm)			
		ϕD_c	ℓ	L	ϕD_s
SSM 2032	●	3.2	8	45	6
2033	●	3.3	8	45	6
2034	●	3.4	8	45	6
2035	●	3.5	8	45	6
2036	●	3.6	10	45	6
SSM 2037	●	3.7	10	45	6
2038	●	3.8	10	45	6
2039	●	3.9	10	45	6
2040	●	4.0	10	45	6
2041	●	4.1	10	45	6
SSM 2042	●	4.2	10	45	6
2043	●	4.3	10	45	6
2044	●	4.4	10	45	6
2045	●	4.5	10	45	6
2046	●	4.6	12	50	6
SSM 2047	●	4.7	12	50	6
2048	●	4.8	12	50	6
2049	●	4.9	12	50	6
2050	●	5.0	12	50	6
2051	●	5.1	12	50	6
SSM 2052	●	5.2	12	50	6
2053	●	5.3	12	50	6
2054	●	5.4	12	50	6
2055	●	5.5	12	50	6
2056	●	5.6	12	50	6
SSM 2057	●	5.7	12	50	6
2058	●	5.8	12	50	6
2059	●	5.9	12	50	6
2060	●	6.0	12	50	6
2061	●	6.1	12	50	8

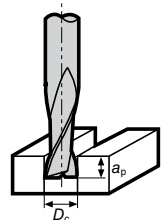
Grade: A1

General Purpose Machines

- If the machine is not designed to achieve the recommended spindle speed, please use the max. spindle speed available.
- If cutting noise and vibration are present, please change the cutting conditions accordingly.

Groove Milling

Work Material	Carbon Steel, Alloy Steel (Below 30HRC)		Carbon Steel, Alloy Steel (Below 40HRC)		Carbon Steel, Alloy Steel (Below 45HRC)		Cast Iron Special Cast Iron	
	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)
0.2	35,000	30	35,000	20	28,000	15	35,000	30
0.6	20,000	45	16,000	30	13,000	20	26,000	80
1.0	12,000	45	9,600	35	7,800	30	15,600	150
2.0	6,000	70	4,800	35	3,900	30	7,800	165
3.0	4,000	90	3,200	35	2,600	30	5,200	170
4.0	3,000	90	2,400	35	1,950	30	3,900	170
6.0	2,000	90	1,600	35	1,300	30	2,600	210
8.0	1,500	90	1,200	35	980	30	1,950	250
10.0	1,200	90	960	35	780	30	1,560	250
12.0	1,000	90	800	35	650	30	1,300	250
16.0	750	90	600	40	490	30	970	260
20.0	600	90	480	40	390	30	780	260
25.0	480	90	380	40	310	30	620	250
30.0	400	90	320	40	260	30	520	250
Standard Depth-of-cut	$\phi 1$ or more a_p	$0.1D_c$	$0.1D_c$	$0.1D_c$	$0.1D_c$	$0.1D_c$		
	$\phi 1.1$ - $\phi 2.9$ a_p	$0.3D_c$	$0.3D_c$	$0.3D_c$	$0.3D_c$	$0.3D_c$		
	$\phi 3$ or more a_p	$0.5D_c$	$0.5D_c$	$0.5D_c$	$0.5D_c$	$0.5D_c$		



Solid Carbide Endmills
 Square
 2 Flutes
 3 Flutes
 4 Flutes
 6 Flutes
 8 Flutes

Radius
 Ballnose
 DLC
 SUMIDIA Coat
 Long Neck
 Uncoated
 CBN
 PCD