

Endmills

Cat. No.	Stock	øD	l ₁	l ₂	L	ød
GSX 40100C-4D	●	1,0	4,0	5,0	40	4
GSX 40150C-4D	●	1,5	6,0	7,0	40	4
GSX 40200C-4D	●	2,0	8,0	9,0	40	4
GSX 40250C-4D	●	2,5	10,0	11,0	50	4
GSX 40300C-4D	●	3,0	12,0	13,5	50	6
GSX 40400C-4D	●	4,0	16,0	17,5	50	6
GSX 40500C-4D	●	5,0	20,0	22,0	60	6
GSX 40600C-4D	●	6,0	24,0	-	60	6
GSX 40800C-4D	●	8,0	32,0	-	80	8
GSX 41000C-4D	●	10,0	40,0	-	90	10
GSX 41200C-4D	●	12,0	48,0	-	100	12
GSX 41600C-4D	●	16,0	64,0	-	120	16
GSX 42000C-4D	●	20,0	80,0	-	140	20

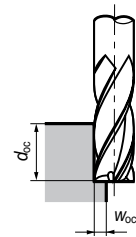
Endmill Identification (GSX MILL Series)

GSX 4 0100 C - 4D

- ① Series Code
 - ② No. of Teeth
 - ③ Diameter
 - ④ Cutting Edge
 - ⑤ Cutting Edge Length
- (S: Sharp Edge
C: Gash Land Drilling)

Recommended Cutting Conditions

- For stable machining performance use rigid, high-precision machines and holders.
- Use air blowing when dry machining.
- Use wet machining for stainless steel, heat resistant alloy, and titanium alloy applications.
- In rear cases, chattering may occur in early milling stages, dissipating after 2m of cutting.
- If chattering is a problem, reduce the spindle speed and feed rate indicated in the table below by the same ratio, or reduce the depth of cut.
- This series is not recommended for grooving.
- If the machine cannot achieve the recommended spindle speed, please use the max. spindle speed available.



Shoulder Milling

Work Material Cond.	Structural Steel		Carbon Steel (150 to 250HB)		Cast Iron		Alloy Steel (25 to 35HRC)		Tempered Steel, Hardened Steel (35 to 45HRC)		Hardened Steel (45 to 55HRC)		Stainless Steel		Heat Resistant Steel, Titanium Alloy	
	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)	Spindle Speed (rpm)	Feed Rate (mm/min)
øD (mm)																
1,0	9.000	140	9.000	140	9.000	140	7.000	80	6.500	60	4.500	40	5.400	40	4.500	40
2,0	4.500	140	4.500	140	4.500	140	3.500	100	3.200	80	2.300	55	2.700	55	2.300	40
4,0	2.250	200	2.250	200	2.250	200	1.750	120	1.600	100	1.200	60	1.350	50	1.200	35
6,0	1.500	250	1.500	250	1.500	250	1.150	160	1.050	140	800	65	900	45	800	35
8,0	1.100	220	1.100	220	1.100	220	850	160	800	130	600	65	660	45	600	35
10,0	900	210	900	210	900	210	700	140	650	120	460	65	540	45	460	35
12,0	750	200	750	200	750	200	580	140	520	110	400	65	450	45	400	35
16,0	550	170	550	170	550	170	440	120	400	95	300	55	330	45	300	35
20,0	450	150	450	150	450	150	350	100	320	80	240	50	270	45	240	35
Shoulder cutting	3,5 D												3,0 D			
d _{dc} W _{oc}	øD < 3: 0,04 D , 3 ≤ øD < 8: 0,08 D , 8 ≤ øD: 0,1 D												0,02 D			