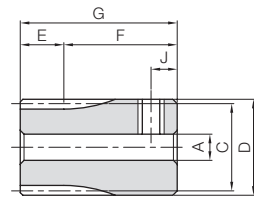
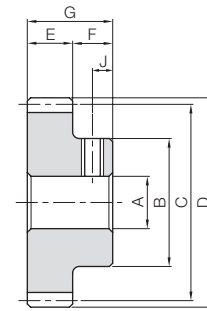




Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



S3T



S1T

* The precision grade of products with a module of less than 0.8 is equivalent to the value shown in the table.

Catalog Number	Module	No. of teeth	Shape	Bore				Face width	Hub width	Total length	Keyway			
				A _{H7(H8)}	B	C	D							
SS0.5-15A	m0.5	15	S3T	3 _{H8}	8.5	7.5	8.5	5	11	16	—			
SS0.5-18A		18		4 _{H8}	10	9	10							
SS0.5-20A		20		3 _{H8}	11	10	11							
SS0.5-20B				4 _{H8}	12	11	12							
SS0.5-22A		22		4 _{H8}	12	11	12							
SS0.5-24A		24		4 _{H8}	13	12	13							
SS0.5-24B			5 _{H8}	13.5	12.5	13.5								
SS0.5-25B		25	5 _{H8}	13.5	12.5	13.5								
SS0.5-28A		m0.5	28	S1T	4 _{H8}	12	14	15	5	7		12	—	
SS0.5-30B			30		5	13	15	16						
SS0.5-50B			50		6	22	25	26						
SS0.5-54A			54		5	25	27	28						
SS0.5-60A	60		6		28	30	31							
SS0.5-80A	80		6		28	40	41							
SS0.5-80B			8	28	48	49								
SS0.5-96A	96		8	28	48	49								
SS0.5-120A	120		8	28	60	61								
SS0.8-15A	m0.8		15	S3T	5 _{H8}	13.6	12	13.6	8	14	22	—		
SS0.8-20A			20	S1T	5 _{H8}	13	16	17.6		8	8			16
SS0.8-20B					6	18	21.6							
SS0.8-25A		25	5 _{H8}	16	20	21.6								
SS0.8-28A		28	S1T	6	18	22.4	24							
SS0.8-30A				5 _{H8}	20	24	25.6							
SS0.8-30C		8	6	28	32	33.6								
SS0.8-40A		40	6	28	32	33.6								
SS0.8-45A	45	6	28	36	37.6									

Socket head screw	Allowable torque (N·m)	Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
		Bending strength	Surface durability			
M3	0.46	0.022	0.047	0~0.10	0.0056	SS0.5-15A
M3	0.61	0.032	0.063		0.0076	SS0.5-18A
M3	0.72	0.040	0.073		0.010	SS0.5-20A
M3					0.0095	SS0.5-20B
M3	0.83	0.049	0.084		0.012	SS0.5-22A
M3	0.93	0.059	0.095		0.014	SS0.5-24A
M4					0.013	SS0.5-24B
M4	0.99	0.064	0.10		0.014	SS0.5-25B
M3	1.16	0.081	0.12		0.011	SS0.5-28A
M4	1.27	0.093	0.13		0.012	SS0.5-30B
M4	2.43	0.27	0.25		0.037	SS0.5-50B
M4	2.67	0.32	0.27		0.047	SS0.5-54A
M4	3.03	0.39	0.31	0.058	SS0.5-60A	
M4	4.24	0.72	0.43	0.079	SS0.5-80A	
M5	5.21	1.06	0.53	0.077	SS0.5-80B	
M5	6.68	1.70	0.68	0.099	SS0.5-96A	
M4	1.89	0.088	0.19	0.14	SS0.5-120A	
M4	2.94	0.17	0.30	0~0.10	0.019	SS0.8-15A
M4					0.018	SS0.8-20A
M4	0.017	SS0.8-20B				
M4	4.05	0.27	0.41		0.029	SS0.8-25A
M4	4.73	0.34	0.48		0.037	SS0.8-28A
M4	5.19	0.39	0.53		0.045	SS0.8-30A
M5					0.041	SS0.8-30C
M4	7.55	0.72	0.77		0.085	SS0.8-40A
M4	8.75	0.93	0.89		0.098	SS0.8-45A

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks & Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gears

Gearboxes

Other Products

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks & Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gears

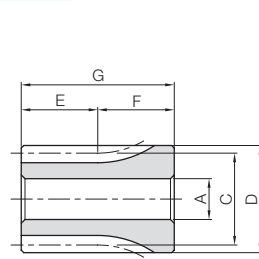
Gearboxes

Other Products

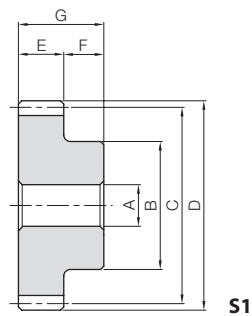




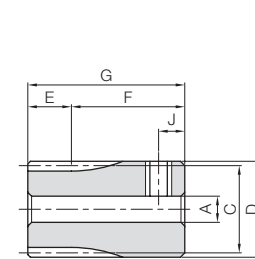
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



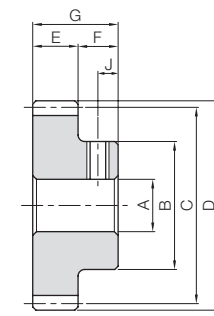
S3



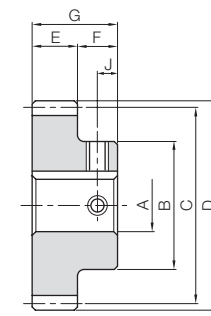
S1



S3T



S1T



S1K

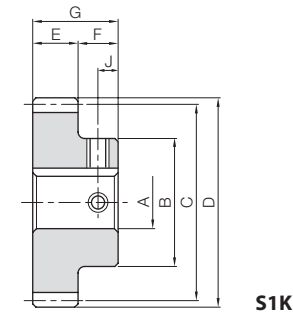
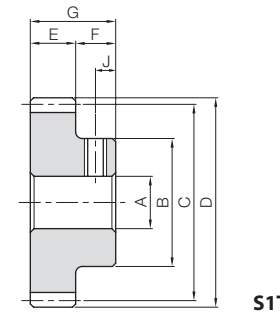
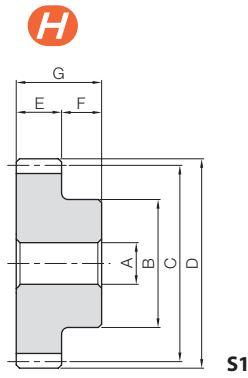
H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SS1-15H**

Catalog Number	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway	Socket head screw				
				AH7	B	C	D	E	F	G	Width x Depth	Size	J			
SS1-15	m1	15	S3	8	17	15	17	10	20	30	—	—	—			
SS1-15A			S3T	5								M4	4			
SS1-15B			S3T	6								M4	4			
SS1-16		16	S3	8	18	16	18					—	—			
SS1-16B			S3T	6								M4	4			
SS1-17			17	S3								8	19	17	19	—
SS1-18		S3		8	20	18	20					—				—
SS1-19		S3		8								21				19
SS1-20		20	20	S1	8	16	20					22	—	—		
SS1-20A				S1T	5								M4	5		
SS1-20B				S1T	6								M4	5		
SS1-20C				S1T	8								M5	5		
SS1-21		21	S1	8	17	21	23					—	—			
SS1-22		22	S1	8	18	22	24					—	—			
SS1-23		23	S1	8	18	23	25					—	—			
SS1-24		24	24	S1	8	20	24					26	—	—		
SS1-24A				S1T	6								M4	5		
SS1-24C				S1K	10								4 x 1.8	M4	5	
SS1-25		25	25	S1	8	20	25					27	—	—		
SS1-25B				S1T	8								M5	5		
SS1-25C				S1K	10								4 x 1.8	M4	5	
SS1-26		26	S1	8	22	26	28					—	—			
SS1-27		27	S1	8	22	27	29					—	—			
SS1-28		28	S1	8	22	28	30					—	—			
SS1-29		29	S1	8	24	29	31					—	—			
SS1-30		30	30	S1	10	25	30					32	—	—		
SS1-30A				S1T	6								M4	5		
SS1-30B				S1T	8								M5	5		
SS1-32		32	32	S1	10	26	32					34	—	—		
SS1-32A				S1T	8								M5	5		
SS1-34		34	S1	10	26	34	36					—	—			
SS1-35		35	S1	10	26	35	37					—	—			
SS1-36		36	S1	10	28	36	38					—	—			
SS1-38		38	S1	10	32	38	40					—	—			
SS1-40		40	40	S1	10	35	40					42	—	—		
SS1-40B				S1K	10								4 x 1.8	M4	5	
SS1-42		42	S1	10	35	42	44					—	—			
SS1-44		44	S1	10	35	44	46					—	—			
SS1-45		45	45	S1	10	35	45					47	—	—		
SS1-45A				S1T	8								M5	5		
SS1-45B				S1K	10								4 x 1.8	M4	5	
SS1-46		46	S1	10	35	46	48					—	—			
SS1-48		48	S1	10	35	48	50					—	—			

Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
Bending strength		Surface durability		Surface durability H				
N-m	kgf-m	N-m	kgf-m	N-m	kgf-m			
3.69	0.38	0.17	0.018	0.85	0.086	0.08~0.18	0.038	SS1-15
							0.044	SS1-15A
							0.042	SS1-15B
4.09	0.42	0.2	0.021	0.98	0.10		0.044	SS1-16
							0.049	SS1-16B
4.5	0.46	0.23	0.023	1.12	0.11		0.050	SS1-17
4.91	0.5	0.26	0.027	1.26	0.13		0.057	SS1-18
5.33	0.54	0.29	0.030	1.42	0.14		0.065	SS1-19
							0.033	SS1-20
5.75	0.59	0.33	0.033	1.59	0.16		0.037	SS1-20A
							0.036	SS1-20B
							0.032	SS1-20C
6.17	0.63	0.36	0.037	1.77	0.18		0.037	SS1-21
6.6	0.67	0.4	0.041	1.95	0.20		0.042	SS1-22
7.03	0.72	0.45	0.045	2.15	0.22		0.045	SS1-23
							0.052	SS1-24
7.47	0.76	0.49	0.050	2.36	0.24		0.055	SS1-24A
							0.046	SS1-24C
							0.055	SS1-25
7.91	0.81	0.54	0.055	2.57	0.26		0.054	SS1-25B
							0.049	SS1-25C
8.35	0.85	0.58	0.059	2.79	0.28		0.064	SS1-26
8.79	0.9	0.63	0.064	3.01	0.31		0.067	SS1-27
9.24	0.94	0.68	0.070	3.25	0.33		0.070	SS1-28
9.69	0.99	0.73	0.075	3.49	0.36		0.079	SS1-29
							0.082	SS1-30
10.1	1.03	0.79	0.081	3.74	0.38		0.089	SS1-30A
							0.085	SS1-30B
11.1	1.13	0.90	0.092	4.27	0.44		0.092	SS1-32
							0.096	SS1-32A
12.0	1.22	1.03	0.10	4.83	0.49		0.10	SS1-34
12.4	1.27	1.09	0.11	5.13	0.52		0.10	SS1-35
12.9	1.31	1.16	0.12	5.44	0.55		0.12	SS1-36
13.8	1.41	1.30	0.13	6.08	0.62		0.14	SS1-38
							0.16	SS1-40
14.7	1.50	1.45	0.15	6.76	0.69		0.16	SS1-40B
15.7	1.60	1.61	0.16	7.47	0.76		0.17	SS1-42
16.6	1.69	1.77	0.18	8.23	0.84		0.18	SS1-44
							0.19	SS1-45
17.1	1.74	1.86	0.19	8.62	0.88		0.19	SS1-45A
							0.19	SS1-45B
17.6	1.79	1.95	0.20	9.02	0.92		0.19	SS1-46
18.5	1.89	2.13	0.22	9.84	1.00		0.21	SS1-48



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



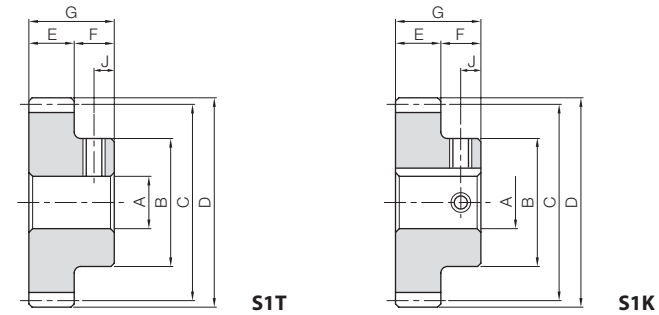
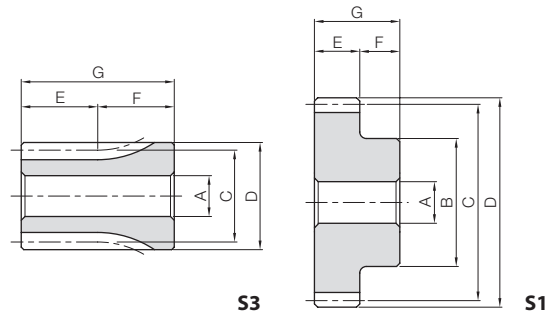
H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SS1-50H**

Catalog Number	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway	Socket head screw		
				AH7	B	C	D	E	F	G	Width x Depth	Size	J	
SS1-50	m1	50	S1	10	35	50	52	10	10	20	—	—	—	
SS1-50A			S1T	8										5
SS1-52		S1	10	52		54	—							
SS1-54		S1	10											54
SS1-55		S1	10	55		57	—							
SS1-56		S1	10											56
SS1-58		S1	10	58		60	—							
SS1-60		S1	10											60
SS1-60C		S1K	15	5 x 2.3		M4	5							
SS1-62		S1	10											62
SS1-64		S1	10	64	66	—	—							
SS1-65		S1	10					65	67	—	—			
SS1-66		S1	10	66	68	—	—							
SS1-68		S1	10					68	70	—	—			
SS1-70		S1	10	70	72	—	—							
SS1-72		S1	10					72	74	—	—			
SS1-75		S1	10	75	77	—	—							
SS1-76		S1	10					76	78	—	—			
SS1-80		S1	10	80	82	—	—							
SS1-84		S1	10					84	86	—	—			
SS1-85	S1	10	85	87	—	—								
SS1-88	S1	10					88	90	—	—				
SS1-90	S1	10	90	92	—	—								
SS1-95	S1	10					95	97	—	—				
SS1-96	S1	10	96	98	—	—								
SS1-100	S1	10					100	102	—	—				
SS1-110	S1	15	50	110	112	—					—			
SS1-120	S1	15					50	120	122	—		—		
SS1-150	S1	20	120	150	152	—					—			
SS1-200	S1	20					160	200	202	—		—		

Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
Bending strength		Surface durability		Surface durability H				
N-m	kgf-m	N-m	kgf-m	N-m	kgf-m			
19.5	1.98	2.32	0.24	10.7	1.09	0.08~0.18	0.22	SS1-50
20.4	2.08	2.52	0.26	11.6	1.18		0.22	SS1-50A
21.4	2.18	2.73	0.28	12.5	1.28		0.23	SS1-52
21.8	2.23	2.83	0.29	13.0	1.33		0.24	SS1-54
22.3	2.28	2.94	0.30	13.5	1.38		0.24	SS1-55
23.3	2.37	3.17	0.32	14.5	1.48		0.25	SS1-56
24.2	2.47	3.40	0.35	15.6	1.59		0.26	SS1-58
25.2	2.57	3.64	0.37	16.7	1.70		0.27	SS1-60
26.2	2.67	3.89	0.40	17.8	1.81		0.27	SS1-60C
26.6	2.72	4.02	0.41	18.4	1.87		0.32	SS1-62
27.1	2.77	4.15	0.42	18.9	1.93		0.34	SS1-64
28.1	2.86	4.42	0.45	20.1	2.05		0.35	SS1-65
29.1	2.96	4.70	0.48	21.4	2.18		0.35	SS1-66
30.0	3.06	4.98	0.51	22.6	2.31		0.37	SS1-68
31.5	3.21	5.43	0.55	24.6	2.51		0.39	SS1-70
32.0	3.26	5.59	0.57	25.3	2.58		0.41	SS1-72
33.9	3.46	6.23	0.63	28.1	2.87		0.43	SS1-75
35.8	3.66	6.90	0.7	31.1	3.17		0.44	SS1-76
36.3	3.71	7.08	0.72	31.8	3.25		0.48	SS1-80
37.8	3.85	7.62	0.78	34.2	3.48		0.52	SS1-84
38.8	3.95	7.98	0.81	35.8	3.65	0.53	SS1-85	
41.2	4.20	8.95	0.91	40.0	4.08	0.56	SS1-88	
41.7	4.25	9.15	0.93	40.8	4.16	0.59	SS1-90	
43.7	4.45	9.97	1.02	44.4	4.53	0.64	SS1-95	
48.6	4.95	12.2	1.24	53.9	5.50	0.65	SS1-96	
53.5	5.45	14.7	1.50	64.4	6.57	0.70	SS1-100	
68.2	6.96	23.6	2.41	102	10.4	0.87	SS1-110	
71.5	7.29	33.6	3.42	144	14.7	1.01	SS1-120	
						2.23	SS1-150	
						4.00	SS1-200	



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SS1.5-12H**

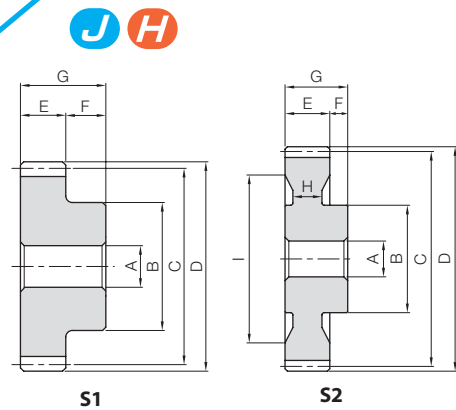
Catalog Number	Module	No. of teeth	Shape	Bore				Face width	Hub width	Total length	Keyway	Socket head screw				
				AH7	B	C	D					Width x Depth	Size	J		
SS1.5-12	m1.5	12	S3	8	21	18	21	15	15	30	—	—	—			
SS1.5-13		13	S3	8	22.5	19.5	22.5									
SS1.5-14		14	S1	8	16	21	24									
SS1.5-14B			S1T	8	16	21	24									
SS1.5-15		15	S1	8	18	22.5	25.5							M5	5	
SS1.5-16		16	S1	8	20	24	27									
SS1.5-16B			S1T	8	20	24	27									
SS1.5-17		17	S1	8	21	25.5	28.5							4 x 1.8	M4	5
SS1.5-18		18	S1	8	22	27	30									
SS1.5-19		19	S1	8	23	28.5	31.5									
SS1.5-20		20	S1	8	24	30	33									
SS1.5-21		21	S1	8	25	31.5	34.5									
SS1.5-22		22	S1	8	26	33	36									
SS1.5-23		23	S1	8	27	34.5	37.5									
SS1.5-24		24	S1	8	28	36	39									
SS1.5-25		25	S1	8	30	37.5	40.5									
SS1.5-26		26	S1	10	32	39	42									
SS1.5-26A			S1K	12	32	39	42									
SS1.5-27		27	S1	10	34	40.5	43.5									
SS1.5-28		28	S1	10	36	42	45									
SS1.5-28A			S1K	12	36	42	45									
SS1.5-29		29	S1	10	37	43.5	46.5									
SS1.5-30		30	S1	10	38	45	48									
SS1.5-30C			S1K	15	38	45	48									
SS1.5-32		32	S1	10	40	48	51									
SS1.5-32B			S1K	12	40	48	51									
SS1.5-34		34	S1	10	40	51	54									
SS1.5-35		35	S1	10	42	52.5	55.5									
SS1.5-36		36	S1	10	45	54	57									
SS1.5-38		38	S1	12	45	57	60									
SS1.5-40		40	S1	12	45	60	63									

Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
Bending strength		Surface durability		Surface durability H				
N-m	kgf-m	N-m	kgf-m	N-m	kgf-m			
6.86	0.70	0.36	0.037	1.76	0.18	0.10~0.22	0.059	SS1.5-12
8.84	0.90	0.44	0.045	2.12	0.22			SS1.5-13
11.1	1.13	0.52	0.053	2.50	0.26			SS1.5-14
12.5	1.27	0.60	0.062	2.91	0.30			SS1.5-14B
13.8	1.41	0.70	0.071	3.36	0.34			SS1.5-15
15.2	1.55	0.80	0.082	3.84	0.39			SS1.5-16
16.6	1.69	0.91	0.093	4.35	0.44			SS1.5-16B
18.0	1.83	1.03	0.11	4.89	0.50			SS1.5-17
19.4	1.98	1.15	0.12	5.47	0.56			SS1.5-18
20.8	2.12	1.29	0.13	6.08	0.62			SS1.5-19
22.3	2.27	1.43	0.15	6.72	0.69			SS1.5-20
23.7	2.42	1.58	0.16	7.40	0.75			SS1.5-21
25.2	2.57	1.73	0.18	8.12	0.83			SS1.5-22
26.7	2.72	1.90	0.19	8.87	0.90			SS1.5-23
28.2	2.87	2.06	0.21	9.62	0.98			SS1.5-24
29.7	3.03	2.23	0.23	10.4	1.06			SS1.5-25
31.2	3.18	2.41	0.25	11.2	1.14			SS1.5-26
32.7	3.34	2.60	0.26	12.1	1.23			SS1.5-26A
34.2	3.49	2.79	0.28	12.9	1.32			SS1.5-27
37.3	3.80	3.19	0.33	14.8	1.51			SS1.5-28
40.4	4.12	3.63	0.37	16.7	1.71			SS1.5-28A
41.9	4.28	3.85	0.39	17.8	1.81			SS1.5-29
43.5	4.43	4.09	0.42	18.8	1.92			SS1.5-30
46.6	4.75	4.58	0.47	21.0	2.14			SS1.5-30C
49.8	5.07	5.10	0.52	23.4	2.38			SS1.5-32
								SS1.5-32B
								SS1.5-34
								SS1.5-35
								SS1.5-36
								SS1.5-38
								SS1.5-40

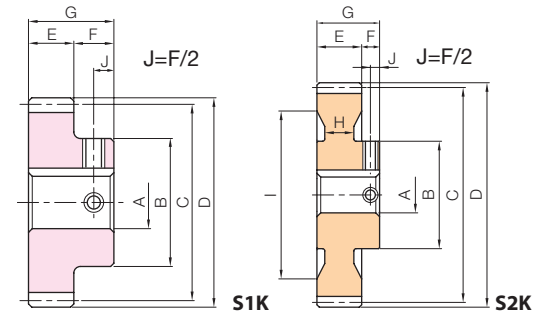


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating
Backlash	0.10 to 0.22

* The precision grade of J Series products is equivalent to the value shown in the table.



J Series



To order Hardened Plus, please specify Catalog No. + H. Example: SS1.5-42H

Catalog Number	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Allowable torque						Weight (kg)
												Bending strength		Surface durability		Surface durability		
												N·m	kgf·m	N·m	kgf·m	N·m	kgf·m	
SS1.5-42	42	S1	AH7	B	63	66	15	10	25	—	—	52.9	5.40	5.65	0.58	25.8	2.63	0.47
SS1.5-44	44				66	69						56.1	5.72	6.23	0.64	28.4	2.90	0.51
SS1.5-45	45				67.5	70.5						57.7	5.88	6.53	0.67	29.8	3.03	0.52
SS1.5-46	46				69	72						59.3	6.04	6.83	0.70	31.1	3.17	0.54
SS1.5-48	48				72	75						62.4	6.37	7.47	0.76	34.0	3.46	0.58
SS1.5-50	50				75	78						65.7	6.69	8.15	0.83	36.9	3.77	0.62
SS1.5-52	52				78	81						68.9	7.02	8.85	0.90	40.0	4.08	0.68
SS1.5-54	54				81	84						72.1	7.35	9.59	0.98	43.3	4.41	0.73
SS1.5-55	55				82.5	85.5						73.7	7.51	9.96	1.02	44.9	4.58	0.75
SS1.5-56	56				84	87						75.3	7.68	10.4	1.06	46.6	4.75	0.77
SS1.5-58	58				87	90						78.5	8.01	11.2	1.14	50.1	5.11	0.82
SS1.5-60	60				90	93						81.8	8.34	12.0	1.22	53.7	5.47	0.87
SS1.5-62	62	93	96	85.0	8.67	12.8	1.31	57.4	5.85	0.95								
SS1.5-64	64	96	99	88.3	9.00	13.7	1.40	61.3	6.25	1.00								
SS1.5-65	65	97.5	100.5	89.9	9.17	14.2	1.45	63.2	6.45	1.03								
SS1.5-66	66	S2	AH7	B	99	102	15	10	25	—	—	91.5	9.33	14.6	1.49	65.2	6.65	1.06
SS1.5-68	68				102	105						94.8	9.66	15.6	1.59	69.3	7.07	1.11
SS1.5-70	70				105	108						98.0	10.0	16.6	1.69	73.6	7.50	1.17
SS1.5-72	72				108	111						101	10.3	17.6	1.79	77.9	7.95	1.23
SS1.5-75	75				112.5	115.5						106	10.8	19.2	1.95	84.7	8.64	1.36
SS1.5-76	76				114	117						108	11.0	19.7	2.01	87.0	8.88	1.39
SS1.5-80	80				120	123						114	11.7	22.0	2.24	96.7	9.86	1.52
SS1.5-84	84				126	129						121	12.3	24.4	2.49	107	10.9	1.66
SS1.5-85	85				127.5	130.5						123	12.5	25.1	2.56	109	11.2	1.69
SS1.5-88	88				132	135						128	13.0	27.0	2.75	117	12.0	1.80
SS1.5-90	90				135	138						131	13.3	28.3	2.89	123	12.5	1.87
SS1.5-95	95				142.5	145.5						139	14.2	31.8	3.24	137	14.0	2.07
SS1.5-100	100	150	153	147	15.0	35.5	3.62	152	15.5	2.23								
SS1.5-120	120	180	183	180	18.4	52.3	5.33	221	22.5	2.74								
SS1.5-150	150	225	228	192	19.6	70.3	7.17	276	28.1	3.41								
SS1.5-200	200	300	303	261	26.7	131	13.3	504	51.4	11.8								

To order J Series products, please specify: Catalog No. + J + BORE. Example: SS1.5-42J12

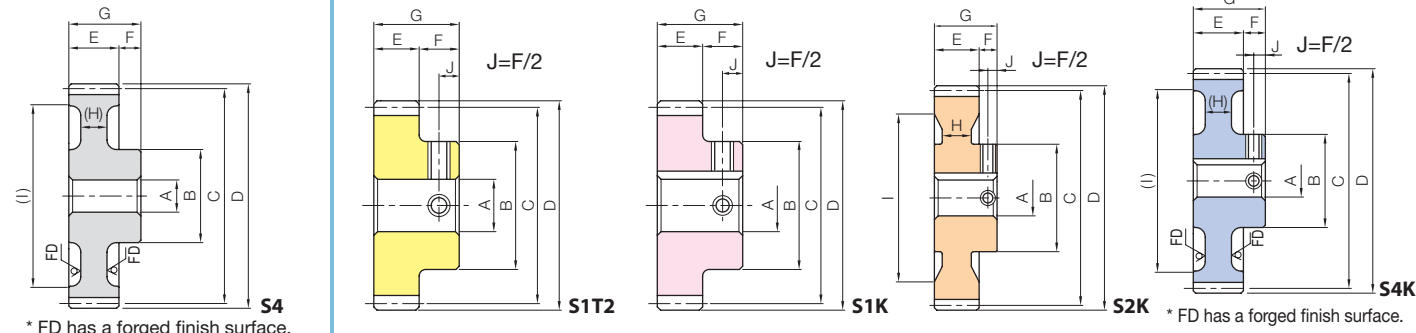
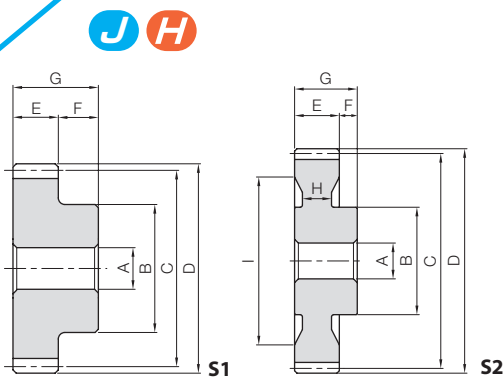
Catalog Number	Bore H7	* The product shapes of J Series items are identified by background color.															
		10				12				15				18			
		14	16	17	18	19	20	22	25	28	30	32	35				
SS1.5-42 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-44 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-45 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-46 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-48 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-50 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-52 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-54 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-55 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-56 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-58 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-60 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-62 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-64 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-65 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-66 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-68 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-70 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-72 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-75 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-76 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-80 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-84 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-85 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-88 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-90 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-95 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-100 J BORE	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
SS1.5-120 J BORE	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
SS1.5-150																	
SS1.5-200																	

*** is a product with the original bore diameter, so Hardened Plus is not available. See Page 22 for more details on Hardened Plus.



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	-
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating
Backlash	0.14 to 0.28

* The precision grade of J Series products is equivalent to the value shown in the table.



Ⓜ To order Hardened Plus, please specify Catalog No. + H. Example: SS2.5-12H

Catalog Number	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Allowable torque						Weight (kg)	
												Bending strength		Surface durability		Surface durability (H)			
												N·m	kgf·m	N·m	kgf·m	N·m	kgf·m		
SS2.5-12	12	S1	12	23	30	35	25	12	37	-	-	31.8	3.24	1.77	0.18	8.37	0.85	0.15	
SS2.5-13	13			40.9	4.17	2.14						0.22	10.1	1.03	0.18				
SS2.5-14	14			51.5	5.25	2.53						0.26	11.9	1.21	0.20				
SS2.5-15	15			57.7	5.89	2.96						0.30	13.9	1.41	0.23				
SS2.5-16	16	S1	15	30	37.5	42.5	25	12	37	-	-	64.0	6.52	3.43	0.35	16.0	1.63	0.27	
SS2.5-17	17			70.3	7.17	3.93						0.40	18.3	1.86	0.32				
SS2.5-18	18			76.7	7.82	4.47						0.46	20.7	2.11	0.37				
SS2.5-19	19			83.2	8.49	5.05						0.51	23.3	2.38	0.41				
SS2.5-20	20	S1	20	40	50	55	25	12	37	-	-	89.8	9.16	5.66	0.58	26.1	2.66	0.45	
SS2.5-21	21			96.4	9.83	6.30						0.64	29.0	2.96	0.50				
SS2.5-22	22			103	10.5	6.99						0.71	32.1	3.28	0.56				
SS2.5-23	23			110	11.2	7.71						0.79	35.4	3.61	0.61				
SS2.5-24	24	S1	15	48	60	65	25	12	37	-	-	117	11.9	8.47	0.86	38.8	3.95	0.67	
SS2.5-25	25			124	12.6	9.26						0.94	42.3	4.32	0.74				
SS2.5-26	26			130	13.3	10.1						1.03	45.9	4.68	0.82				
SS2.5-27	27			137	14.0	10.9						1.11	49.6	5.06	0.92				
SS2.5-28	28	S1	20	60	70	75	25	12	37	-	-	144	14.7	11.7	1.20	53.4	5.45	0.97	
SS2.5-29	29			151	15.4	12.6						1.29	57.4	5.86	1.04				
SS2.5-30	30			159	16.2	13.6						1.39	61.6	6.28	1.13				
SS2.5-32	32			173	17.6	15.6						1.59	70.3	7.17	1.30				
SS2.5-34	34	S1	20	85	90	105	25	12	37	-	-	187	19.1	17.7	1.80	79.6	8.11	1.42	
SS2.5-35	35			194	19.8							18.8	1.92	84.4	8.61	1.49			
SS2.5-36	36			201	20.5							20.0	2.04	89.5	9.12	1.56			
SS2.5-38	38			216	22.0							22.4	2.28	99.9	10.2	1.66			
SS2.5-40	40	S1	20	100	105	110	25	12	37	-	-	230	23.5	24.9	2.54	111	11.3	1.81	
SS2.5-42	42			245	25.0							27.6	2.82	123	12.5	1.97			
SS2.5-44	44			260	26.5							30.5	3.11	135	13.8	2.14			
SS2.5-45	45			267	27.2							31.9	3.26	141	14.4	2.22			
SS2.5-46	46	S1	20	115	120	125	25	12	37	-	-	274	28.0	33.5	3.41	148	15.1	2.31	
SS2.5-48	48			289	29.5							36.7	3.74	161	16.4	2.49			
SS2.5-50	50			304	31.0							40.0	4.08	175	17.9	2.68			
SS2.5-52	52			319	32.5							43.5	4.44	190	19.3	2.88			
SS2.5-54	54	S1	25	130	135	140	25	15	177	-	-	334	34.0	47.2	4.81	205	20.9	3.08	
SS2.5-55	55			341	34.8							49.1	5.01	213	21.7	3.19			
SS2.5-56	56			349	35.6							51.0	5.20	221	22.5	3.29			
SS2.5-58	58			364	37.1							55.0	5.61	237	24.2	3.51			
SS2.5-60	60	S1	25	150	155	160	25	15	(10)	(127)	-	379	38.6	59.1	6.03	254	25.9	3.69	
SS2.5-62	62			130	394							40.1	63.4	6.46	272	27.7	3.54		
SS2.5-64	64			131	409							41.7	67.8	6.92	290	29.6	3.76		
SS2.5-65	65			134	416							42.4	70.1	7.15	299	30.5	3.84		
SS2.5-66	66	S2	25	165	170	175	25	15	(10)	(127)	-	424	43.2	72.4	7.39	309	31.5	3.87	
SS2.5-68	68			140	439							44.7	77.2	7.87	328	33.4	4.13		
SS2.5-70	70			146	454							46.3	82.1	8.37	348	35.5	4.30		
SS2.5-72	72			151	469							47.8	87.1	8.89	368	37.6	4.49		
SS2.5-75	75	S1	30	187.5	192.5							492	50.1	95.0	9.69	400	40.8	4.77	
SS2.5-76	76			160	499							50.9	97.7	9.97	411	41.9	4.90		
SS2.5-80	80			(177)	441							45.0	90.9	9.27	359	36.7	6.50		
SS2.5-90	90			(202)	505							51.5	117	12.0	460	46.9	5.64		
SS2.5-100	100	S1	30	250	255							(227)	569	58.0	147	15.0	573	58.5	10.03
SS2.5-120	120			(277)	696							71.0	218	22.2	840	85.7	9.38		

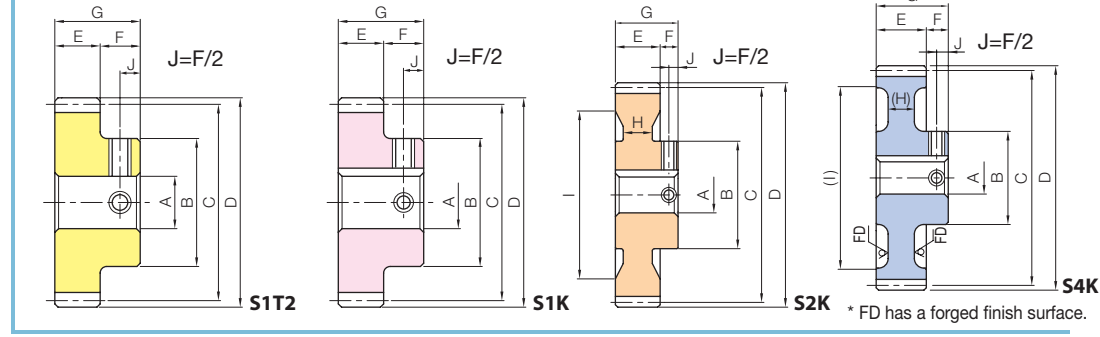
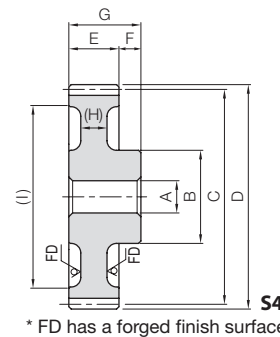
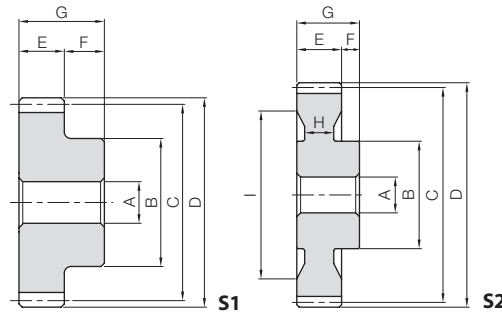
To order J Series products, please specify: Catalog No. + J + BORE. Example: SS2.5-12J12

Bore H7	* The product shapes of J Series items are identified by background color.																					
	12		14		15		16		17		18		19		20							
	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40							
Keyway J _{S9}	4x1.8		5x2.3				6x2.8				8x3.3				10x3.3		12x3.3					
Screw size	M4				M5				M6				M8									
Catalog Number	Example: SS2.5-12J12																					
SS2.5-12 J BORE	S1T2																					
SS2.5-13 J BORE	S1K																					
SS2.5-14 J BORE	S1K	S1K																				
SS2.5-15 J BORE			S1K	S1K																		
SS2.5-16 J BORE			S1K	S1K	S1K	S1K																
SS2.5-17 J BORE			S1K	S1K	S1K	S1K	S1K	S1K														
SS2.5-18 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
SS2.5-19 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
SS2.5-20 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
SS2.5-21 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
SS2.5-22 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
SS2.5-23 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
SS2.5-24 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K									
SS2.5-25 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
SS2.5-26 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
SS2.5-27 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS2.5-28 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS2.5-29 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS2.5-30 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS2.5-32 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS2.5-34 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-35 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-36 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-38 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-40 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-42 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-44 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-45 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-46 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-48 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-50 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-52 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-54 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-55 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-56 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-58 J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2.5-60 J BORE					S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K				
SS																						



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1:1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating
Backlash	0.14 to 0.32

* The precision grade of J Series products is equivalent to the value shown in the table.



To order Hardened Plus, please specify **Catalog No. + H**. Example: **SS3-12H**

Catalog Number	No. of teeth	Shape	Bore A _{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G	Web thickness (H)	Web O.D. (I)	Allowable torque						Weight (kg)	
												Bending strength		Surface durability		Surface durability (H)			
												N·m	kgf·m	N·m	kgf·m	N·m	kgf·m		
SS3-12	12	S1	15	28	36	42	30	15	45			54.9	5.59	3.12	0.32	14.6	1.49	0.25	
SS3-13	13											70.7	7.21	3.77	0.38	17.6	1.80	0.30	
SS3-14	14											88.9	9.07	4.47	0.46	20.8	2.12	0.36	
SS3-15	15											99.7	10.2	5.23	0.53	24.2	2.47	0.43	
SS3-16	16											111	11.3	6.05	0.62	28.0	2.85	0.50	
SS3-17	17											122	12.4	6.93	0.71	31.9	3.26	0.56	
SS3-18	18											133	13.5	7.87	0.80	36.2	3.69	0.62	
SS3-19	19											144	14.7	8.88	0.91	40.8	4.16	0.73	
SS3-20	20											155	15.8	9.95	1.02	45.6	4.65	0.83	
SS3-21	21											167	17.0	11.1	1.13	50.7	5.17	0.92	
SS3-22	22	178	18.2	12.3	1.25	56.1	5.72	1.01											
SS3-23	23	190	19.4	13.6	1.38	61.7	6.29	1.11											
SS3-24	24	202	20.6	14.9	1.52	67.7	6.90	1.21											
SS3-25	25	214	21.8	16.3	1.66	73.9	7.53	1.26											
SS3-26	26	226	23.0	17.7	1.81	80.1	8.16	1.41											
SS3-27	27	237	24.2	19.2	1.96	86.5	8.82	1.49											
SS3-28	28	250	25.4	20.7	2.11	93.2	9.50	1.65											
SS3-29	29	262	26.7	22.3	2.27	100	10.2	1.74											
SS3-30	30	274	27.9	24.0	2.44	107	10.9	1.91											
SS3-32	32	298	30.4	27.4	2.80	123	12.5	2.11											
SS3-34	34	323	32.9	31.2	3.18	139	14.1	2.41											
SS3-35	35	335	34.2	33.1	3.38	147	15.0	2.52											
SS3-36	36	348	35.5	35.2	3.59	156	15.9	2.64											
SS3-38	38	373	38.0	39.4	4.02	174	17.8	2.82											
SS3-40	40	398	40.6	44.0	4.49	193	19.1	3.08											
SS3-42	42	423	43.2	48.9	4.98	214	21.8	3.35											
SS3-44	44	449	45.7	54.0	5.50	235	24.0	3.64											
SS3-45	45	461	47.0	56.6	5.78	246	25.1	3.79											
SS3-46	46	474	48.3	59.4	6.05	257	26.2	3.94											
SS3-48	48	500	50.9	65.0	6.63	281	28.6	4.25											
SS3-50	50	(10)	123	525	53.6	70.9	7.23	305	31.1	4.58									
SS3-52	52			126	551	56.2	77.1	7.86	330	33.7	4.38								
SS3-54	54			132	577	58.8	83.6	8.52	357	36.4	4.61								
SS3-55	55	S2	25	165	171	186	15	45				131	590	60.1	86.9	8.86	370	37.8	4.81
SS3-56	56											134	602	61.4	90.3	9.21	384	39.2	4.94
SS3-58	58											144	628	64.1	97.3	9.92	413	42.1	5.10
SS3-60	60											(153)	654	66.7	105	10.7	442	45.1	6.41
SS3-62	62											150	680	69.4	112	11.4	473	48.2	5.76
SS3-64	64	158	588	60.0	99.9	10.2	396	40.4	5.99										
SS3-65	65	161	599	61.1	103	10.5	409	41.7	6.13										
SS3-66	66	160	610	62.2	107	10.9	422	43.1	6.67										
SS3-68	68	170	632	64.4	114	11.6	450	45.8	6.86										
SS3-70	70	176	654	66.6	121	12.4	478	48.7	7.15										
SS3-72	72	182	675	68.9	129	13.1	507	51.7	7.46										
SS3-75	75	190	708	72.2	141	14.3	552	56.3	7.95										
SS3-76	76			190	719	73.3	145	14.8	567	57.9	8.20								
SS3-80	80	(10)	(213)	763	77.8	162	16.5	632	64.4	6.92									
SS3-90	90	16	240	872	89.0	208	21.2	809	82.4	10.6									
SS3-100	100	(273)	983	100	261	26.6	1010	103	12.51										
SS3-120	120	(10)	(333)	1200	123	386	39.4	1480	151	18.1									

To order J Series products, please specify: **Catalog No. + J + BORE**. Example: **SS3-12J15**

Bore H7	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50			
Keyway J _{s9}	15		16			17			18			19		20		22		
Screw size	5x2.3				6x2.8				8x3.3				10x3.3		12x3.3		14x3.8	
Catalog Number	M4			M5				M6				M8		M10				
SS3-12 J BORE	* S1T2																	
SS3-13 J BORE	* S1T2																	
SS3-14 J BORE	* S1K	* S1K	* S1K															
SS3-15 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K													
SS3-16 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K											
SS3-17 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K											
SS3-18 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K											
SS3-19 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K										
SS3-20 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K								
SS3-21 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K							
SS3-22 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K						
SS3-23 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K						
SS3-24 J BORE	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K						
SS3-25 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K					
SS3-26 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K					
SS3-27 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K					
SS3-28 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K				
SS3-29 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K				
SS3-30 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-32 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-34 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-35 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-36 J BORE							* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-38 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-40 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-42 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-44 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-45 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-46 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-48 J BORE								* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K	* S1K			
SS3-50 J BORE								* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K			
SS3-52 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-54 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-55 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-56 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-58 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-60 J BORE								* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K			
SS3-62 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-64 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-65 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-66 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-68 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-70 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-72 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-75 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-76 J BORE								* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K	* S2K			
SS3-80 J BORE								* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K			
SS3-90 J BORE								* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K			
SS3-100 J BORE								* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K			
SS3-120 J BORE								* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K	* S4K			

To order J Series Hardened Plus products, please specify: Catalog No. + H + J + BORE. Example: **SS3-14HJ16**

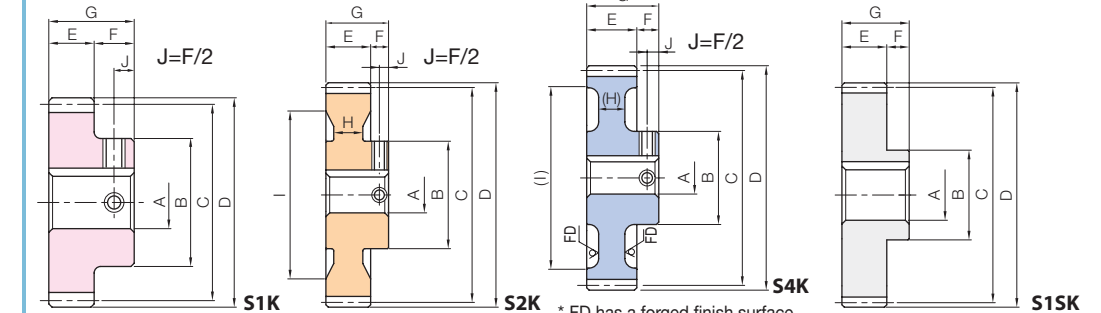
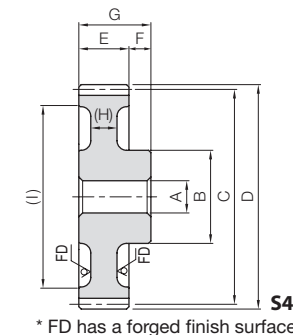
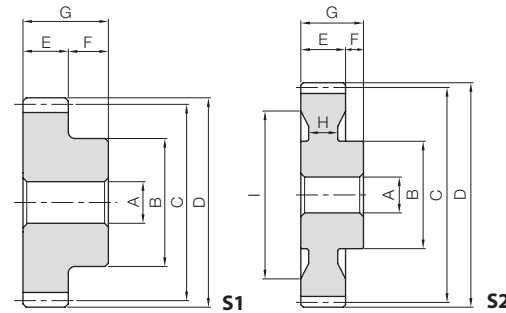


*** is a product with the original bore diameter, so Hardened Plus is not available. See Page 22 for more details on Hardened Plus.



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coated (excludes semi-custom products)
Backlash	0.18 to 0.38

* The precision grade of J Series products is equivalent to the value shown in the table.



* FD has a forged finish surface.

* FD has a forged finish surface.

Ⓜ To order Hardened Plus, please specify **Catalog No. + H**. Example: **SS4-12H**

Catalog Number	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Allowable torque						Weight (kg)
												Bending strength		Surface durability		Surface durability Ⓜ		
												N·m	kgf·m	N·m	kgf·m	N·m	kgf·m	
SS4-12	12		—	—	—	—	—	—	—	—	—	130	13.3	7.62	0.78	35.3	3.59	0.57
SS4-13	13		—	—	—	—	—	—	—	—	—	168	17.1	9.22	0.94	42.5	4.33	0.70
SS4-14	14		—	—	—	—	—	—	—	—	—	211	21.5	10.9	1.11	50.1	5.11	0.82
SS4-15	15		—	—	—	—	—	—	—	—	—	236	24.1	12.8	1.30	58.4	5.96	0.99
SS4-16	16		—	—	—	—	—	—	—	—	—	262	26.7	14.7	1.50	67.3	6.87	1.17
SS4-17	17		—	—	—	—	—	—	—	—	—	288	29.4	16.9	1.72	76.9	7.85	1.34
SS4-18	18		—	—	—	—	—	—	—	—	—	314	32.0	19.2	1.96	87.2	8.89	1.50
SS4-19	19		—	—	—	—	—	—	—	—	—	341	34.8	21.7	2.21	98.1	10.0	1.72
SS4-20	20		—	—	—	—	—	—	—	—	—	368	37.5	24.3	2.48	110	11.2	1.95
SS4-21	21		—	—	—	—	—	—	—	—	—	395	40.3	27.1	2.76	122	12.4	2.18
SS4-22	22		—	—	—	—	—	—	—	—	—	423	43.1	30.1	3.06	135	13.8	2.42
SS4-23	23		—	—	—	—	—	—	—	—	—	450	45.9	33.2	3.38	148	15.1	2.67
SS4-24	24		—	—	—	—	—	—	—	—	—	478	48.8	36.4	3.72	163	16.6	2.91
SS4-25	25		—	—	—	—	—	—	—	—	—	506	51.6	39.9	4.07	178	18.1	3.19
SS4-26	26		—	—	—	—	—	—	—	—	—	534	54.5	43.3	4.42	192	19.6	3.45
SS4-27	27		—	—	—	—	—	—	—	—	—	563	57.4	46.9	4.78	208	21.2	3.73
SS4-28	28		—	—	—	—	—	—	—	—	—	591	60.3	50.6	5.16	224	22.8	4.06
SS4-29	29		—	—	—	—	—	—	—	—	—	620	63.2	54.5	5.56	241	24.5	4.28
SS4-30	30		—	—	—	—	—	—	—	—	—	649	66.2	58.7	5.98	258	26.3	4.64
SS4-32	32		—	—	—	—	—	—	—	—	—	707	72.1	67.4	6.87	294	30.0	4.86
SS4-34	34		—	—	—	—	—	—	—	—	—	766	78.1	76.7	7.82	333	33.9	5.38
SS4-35	35		—	—	—	—	—	—	—	—	—	795	81.1	81.6	8.32	353	36.0	5.65
SS4-36	36		—	—	—	—	—	—	—	—	—	825	84.1	86.7	8.84	374	38.1	5.93
SS4-38	38		—	—	—	—	—	—	—	—	—	884	90.1	97.3	9.92	418	42.6	6.52
SS4-40	40		—	—	—	—	—	—	—	—	—	943	96.2	109	11.1	464	47.3	7.08
SS4-42	42		—	—	—	—	—	—	—	—	—	1000	102	120	12.3	512	52.2	7.73
SS4-44	44		—	—	—	—	—	—	—	—	—	1060	108	133	13.6	563	57.4	8.41
SS4-45	45		—	—	—	—	—	—	—	—	—	1090	112	139	14.2	590	60.1	8.76
SS4-46	46		—	—	—	—	—	—	—	—	—	1120	115	146	14.9	617	62.9	9.12
SS4-48	48		—	—	—	—	—	—	—	—	—	987	101	133	13.6	528	53.9	9.12
SS4-50	50		—	—	—	—	—	—	—	—	—	1040	106	146	14.8	575	58.6	9.60
SS4-52	52		—	—	—	—	—	—	—	—	—	1090	111	158	16.1	624	63.7	10.2
SS4-54	54		—	—	—	—	—	—	—	—	—	1140	116	172	17.5	676	68.9	10.8
SS4-55	55		—	—	—	—	—	—	—	—	—	1180	119	179	18.2	702	71.6	11.1
SS4-56	56		—	—	—	—	—	—	—	—	—	1220	121	186	18.9	729	74.3	11.5
SS4-58	58		—	—	—	—	—	—	—	—	—	1260	127	194	19.6	756	76.9	11.8
SS4-60	60		—	—	—	—	—	—	—	—	—	1300	130	202	20.3	783	79.5	12.2
SS4-62	62		—	—	—	—	—	—	—	—	—	1340	137	210	21.1	810	82.1	12.6
SS4-64	64		—	—	—	—	—	—	—	—	—	1380	140	218	21.8	837	84.7	13.0
SS4-65	65		—	—	—	—	—	—	—	—	—	1420	144	226	22.4	864	87.3	13.4
SS4-66	66		—	—	—	—	—	—	—	—	—	1460	147	234	23.1	891	90.9	13.8
SS4-68	68		—	—	—	—	—	—	—	—	—	1500	150	242	23.8	918	93.5	14.2
SS4-70	70		—	—	—	—	—	—	—	—	—	1540	154	250	24.5	945	96.1	14.6
SS4-80	80		—	—	—	—	—	—	—	—	—	1810	184	300	30.6	1160	119	16.06
SS4-90S	90		—	—	—	—	—	—	—	—	—	1910	195	330	33.3	1260	129	16.52
SS4-100S	100		—	—	—	—	—	—	—	—	—	2150	219	360	36.6	1410	144	17.00
SS4-110S	110		—	—	—	—	—	—	—	—	—	2390	244	400	40.0	1560	159	17.48
SS4-120S	120		—	—	—	—	—	—	—	—	—	2630	269	440	44.0	1710	174	17.96

[Precautions for Semi-custom Products] Please see Pages 38–40 for more details.

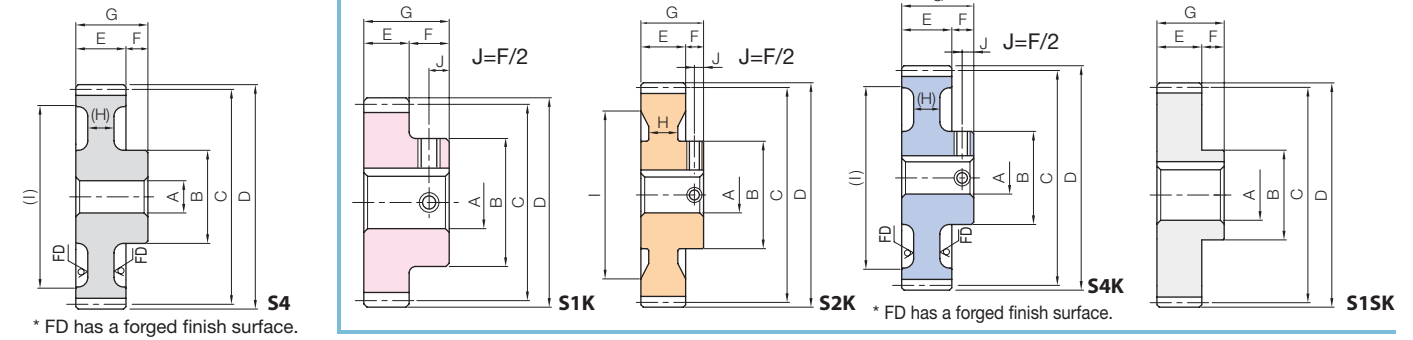
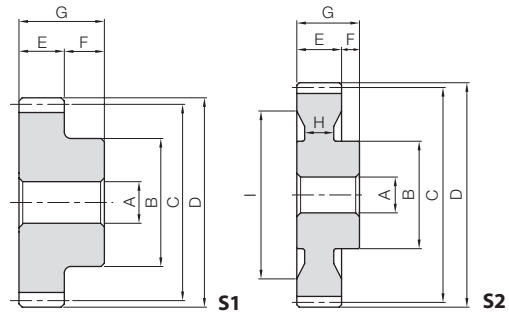
To order J Series products, please specify: **Catalog No. + J + BORE**. Example: **SS4-14J20**

Bore H7	* The product shapes of J Series items are identified by background color.													
	20	22	25	28	30	32	35	40	45	50	55	60	65	
Keyway Js9	20	22	25	28	30	32	35	40	45	50	55	60	65	
Screw size	6x2.8		8x3.3			10x3.3			12x3.3	14x3.8	16x4.3	18x4.4		
Catalog Number	M5		M6			M8			M10	M12				
SS4-12														
SS4-13														
SS4-14 J BORE	*S1K	S1K												
SS4-15 J BORE	*S1K	S1K	S1K											
SS4-16 J BORE	*S1K	S1K	S1K	S1K	S1K									
SS4-17 J BORE	*S1K	S1K	S1K	S1K	S1K									
SS4-18 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K								
SS4-19 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K							
SS4-20 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS4-21 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS4-22 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS4-23 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS4-24 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS4-25 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS4-26 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-27 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-28 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-29 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-30 J BORE	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-32 J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-34 J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-35 J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-36 J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-38 J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-40 J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-42 J BORE			*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-44 J BORE			*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-45 J BORE			*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-46 J BORE			*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-48 J BORE			*S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-50 J BORE					*S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-52 J BORE					*S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-54 J BORE					*S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-55 J BORE					*S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	-
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coated (excludes semi-custom products)
Backlash	0.20 to 0.44

* The precision grade of J Series products is equivalent to the value shown in the table.



H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SS5-12H**

Catalog Number	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Allowable torque						Weight (kg)																
												Bending strength		Surface durability		Surface durability ^H																		
												N-m	kgf-m	N-m	kgf-m	N-m	kgf-m																	
SS5-12	12	S1	22	46	60	70	25	75	50	160	160	254	25.9	15.2	1.55	69.7	7.11	1.21																
SS5-13	13											327	33.4	18.4	1.88	84.0	8.57	1.46																
SS5-14	14											412	42.0	21.8	2.22	99.1	10.1	1.70																
SS5-15	15											462	47.1	25.5	2.60	115	11.8	2.07																
SS5-16	16											512	52.2	29.5	3.01	133	13.6	2.40																
SS5-17	17											562	57.3	33.8	3.45	152	15.5	2.72																
SS5-18	18											614	62.6	38.4	3.92	172	17.6	3.03																
SS5-19	19											666	67.9	43.4	4.42	194	19.8	3.45																
SS5-20	20											718	73.3	48.6	4.96	217	22.1	3.90																
SS5-21	21											772	78.7	54.2	5.53	241	24.5	4.36																
SS5-22	22											S1	25	95	110	120	21	71	36	170	1630	167	202	20.6	796	81.2	14.2							
SS5-23	23																											879	89.7	66.3	6.77	293	29.9	5.33
SS5-24	24																											934	95.2	73.0	7.45	321	32.7	5.69
SS5-25	25																											989	101	80.0	8.16	350	35.7	6.23
SS5-26	26																											1040	106	87.1	8.88	379	38.7	6.79
SS5-27	27																											1100	112	94.4	9.62	410	41.8	7.19
SS5-28	28																											1160	118	102	10.4	441	45.0	7.62
SS5-29	29																											1210	124	110	11.2	474	48.4	8.23
SS5-30	30											1270	129	118	12.1	508	51.8	8.87																
SS5-32	32											S2	30	120	160	170	21	71	30	200	1930	197	269	27.5	1050	107	17.0							
SS5-34	34																											1500	153	154	15.7	656	66.9	10.4
SS5-35	35																											1550	158	164	16.7	696	71.0	10.9
SS5-36	36	1610	164	174	17.8	737	75.1	11.5																										
SS5-38	38	1730	176	195	19.9	823	83.9	12.6																										
SS5-40	40	1880	187	218	22.2	919	93.8	13.7																										
SS5-42	42	2030	207	244	24.8	1026	104.6	14.8																										
SS5-44	44	2200	223	274	28.0	1145	116.5	15.9																										
SS5-45	45	2390	244	306	31.2	1277	129.7	17.0																										
SS5-46	46	2600	266	344	35.4	1435	145.5	18.1																										
SS5-48	48	2830	291	388	39.7	1620	164.0	19.2																										
SS5-50	50	S1	40	130	180	190	21	71	30	240	2420																	247	405	41.3	1570	160	23.8	
SS5-52	52											3020	308	388	40.0	1740	176.0	24.9																
SS5-54	54											3270	334	444	45.5	1950	197.0	26.0																
SS5-55	55											3540	362	508	51.1	2190	221.0	27.1																
SS5-56	56											3830	391	580	58.0	2470	249.0	28.2																
SS5-58	58											4150	421	664	66.4	2800	282.0	29.3																
SS5-60	60											4500	457	758	75.8	3160	318.0	30.4																
SS5-62S	62											4880	495	864	86.4	3560	358.0	31.5																
SS5-64S	64											5290	537	984	98.4	4000	402.0	32.6																
SS5-65S	65											5730	581	1118	111.8	4480	450.0	33.7																
SS5-66S	66	6200	629	1268	126.8	5000	502.0	34.8																										
SS5-68S	68	S2	40	130	180	190	21	71	30	240	2420	247	405	41.3	1570	160	23.8																	
SS5-70S	70																	4880	495	864	86.4	3560	358.0	31.5										
SS5-80S	80																	6290	637	1118	111.8	4660	468.0	36.7										
SS5-90S	90																	7830	791	1388	138.8	5880	590.0	41.8										
SS5-100S	100																	9500	959	1678	167.8	7260	728.0	46.9										
SS5-110S	110																	11300	1139	2008	200.8	8800	882.0	52.0										
SS5-120S	120																	13200	1329	2368	236.8	10500	1052.0	57.1										
SS5-62SJ	62																	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	
SS5-64SJ	64																	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K
SS5-65SJ	65																	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K
SS5-66SJ	66																	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K
SS5-68SJ	68																	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K
SS5-70SJ	70	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K																
SS5-80SJ	80	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K	S15K																
SS5-90SJ	90													S15K	S15K	S15K	S15K	S15K																
SS5-100SJ	100													S15K	S15K	S15K	S15K	S15K																
SS5-110SJ	110													S15K	S15K	S15K	S15K	S15K																
SS5-120SJ	120													S15K	S15K	S15K	S15K	S15K																

[Precautions for Semi-custom Products] Please see Pages 38-40 for more details.

To order J Series products, please specify: **Catalog No. + J + BORE**. Example: **SS5-13J22**

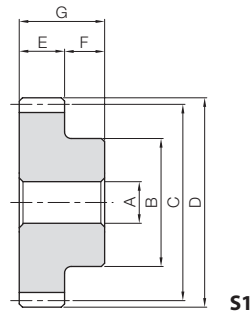
* The product shapes of J Series items are identified by background color.

Bore H7	Keyway Js9																
	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80	85	
Keyway Js9	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80	85	
Screw size	6x2.8	8x3.3	10x3.3	12x3.3	14x3.8	16x4.3	18x4.4	20x4.9	22x5.4								
Catalog Number	M5	M6	M6	M6	M8	M8	M10	M10	M12	M12	M12	M16	M16	M16	M16	M16	
SS5-12																	
SS5-13 J BORE	* S1K																
SS5-14 J BORE	* S1K	S1K	S1K	S1K													
SS5-15 J BORE	* S1K	S1K	S1K	S1K	S1K												
SS5-16 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K											
SS5-17 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K										
SS5-18 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K									
SS5-19 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
SS5-20 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
SS5-21 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS5-22 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS5-23 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS5-24 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS5-25 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-26 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-27 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-28 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-29 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-30 J BORE	* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-32 J BORE			* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-34 J BORE			* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-35 J BORE			* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-36 J BORE			* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-38 J BORE			* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-40 J BORE			* S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
SS5-42 J BORE			* S2K	S2K	S2K	S2											

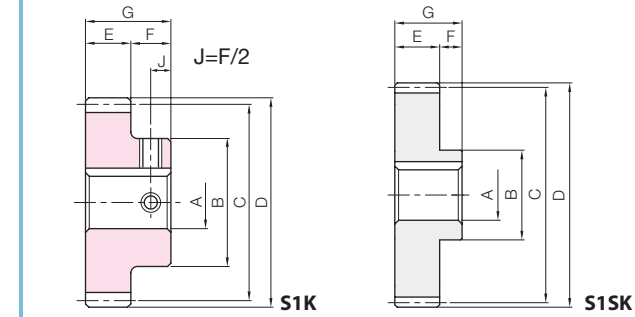


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coated (excludes semi-custom products)

* The precision grade of J Series products is equivalent to the value shown in the table.



J Series



Catalog Number	No. of teeth	Shape	Bore A _{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G	Web thickness H	Web O.D. I	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
												Bending strength	Surface durability	Bending strength	Surface durability		
SS8-12	12	S1	28	75	96	112	75	35	110	—	—	975	62.6	99.5	6.39	0.28~0.58	4.94
SS8-13	13			80	104	120						1260	75.2	128	7.66		5.85
SS8-14	14			85	112	128						1580	88.9	161	9.06		6.83
SS8-15	15			90	120	136						1770	104	181	10.6		7.87
SS8-16	16			100	128	144						1970	121	200	12.3		9.20
SS8-17	17			105	136	152						2160	139	220	14.1		10.4
SS8-18	18			110	144	160						2360	158	240	16.1		11.7
SS8-19	19			120	152	168						2560	178	261	18.2		13.3
SS8-20	20			130	160	176						2760	200	281	20.4		15.0
SS8-21	21			140	168	184						2960	223	302	22.8		16.7
SS8-22	22			150	176	192						3170	248	323	25.3		18.6
SS8-23	23			155	184	200						3380	273	344	27.9		20.2
SS8-24	24			160	192	208						2990	250	305	25.5		22.0
SS8-25	25			170	200	216						3160	273	323	27.8		24.1
SS8-26	26			170	208	224						3340	297	341	30.3		25.6
SS8-27	27		170	216	232	3520						322	359	32.8	27.2		
SS8-28	28		180	224	240	3700						348	377	35.5	29.6		
SS8-30	30		180	240	256	4060						404	414	41.2	33.0		
SS8-32S	32		40	200	256	272						4080	421	416	42.9		37.9
SS8-34S	34			210	272	288						4420	479	451	48.9		42.6
SS8-35S	35			210	280	296						4590	510	468	52.0		44.7
SS8-36S	36			210	288	304						4760	542	486	55.3		46.8
SS8-38S	38			220	304	320						5100	608	520	62.0		52.1
SS8-40S	40			220	320	336						5450	679	555	69.3		56.7
SS8-42S	42			230	336	352						5790	754	591	76.9		62.5
SS8-44S	44			230	352	368						6140	834	626	85.0		67.6
SS8-45S	45			230	360	376						6310	875	644	89.2		70.3
SS8-46S	46			240	368	384						6490	917	662	93.6		74.0
SS8-48S	48			240	384	400						6840	1010	697	103		79.5
SS8-50S	50			240	400	416						7190	1100	733	112		85.3
SS8-52S	52	240		416	432	7540	1200	769	122	91.4							
SS8-54S	54	240		432	448	7890	1300	805	132	97.6							
SS8-55S	55	240		440	456	8070	1350	823	138	101							
SS8-56S	56	240		448	464	8240	1400	841	143	104							
SS8-58S	58	240		464	480	8600	1510	877	154	111							
SS8-59S	59	240		472	488	8770	1570	895	160	114							
SS8-60S	60	240		480	496	8950	1630	913	166	118							

[Precautions for Semi-custom Products] Please see Pages 38~40 for more details.

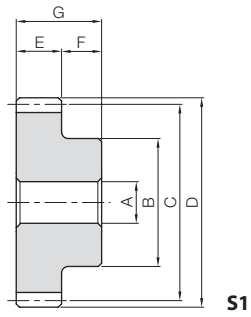
To order J Series products, please specify: **Catalog No. + J + BORE.**

Bore H7	* The product shapes of J Series items are identified by background color.																							
	28	30	32	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	120	130	140		
Keyway J _{s9}	8x3.3		10x3.3		12x3.3		14x3.8		16x4.3		18x4.4		20x4.9		22x5.4		25x5.4		28x6.4		32x7.4		36x8.4	
Screw size	M6		M8		M10		M12		M16		M20		M24											
Catalog Number	M6		M8		M10		M12		M16		M20		M24											
SS8-12 J BORE	S1K	S1K	S1K	S1K	S1K																			
SS8-13 J BORE	S1K	S1K	S1K	S1K	S1K																			
SS8-14 J BORE	S1K	S1K	S1K	S1K	S1K	S1K																		
SS8-15 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K																	
SS8-16 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K																
SS8-17 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K																
SS8-18 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K															
SS8-19 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K														
SS8-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K													
SS8-21 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
SS8-22 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K											
SS8-23 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
SS8-24 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K									
SS8-25 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
SS8-26 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
SS8-27 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS8-28 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS8-30 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS8-32SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-34SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-35SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-36SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-38SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-40SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-42SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-44SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-45SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-46SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-48SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-50SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-52SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-54SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-55SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-56SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-58SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-59SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS8-60SJ BORE						S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK

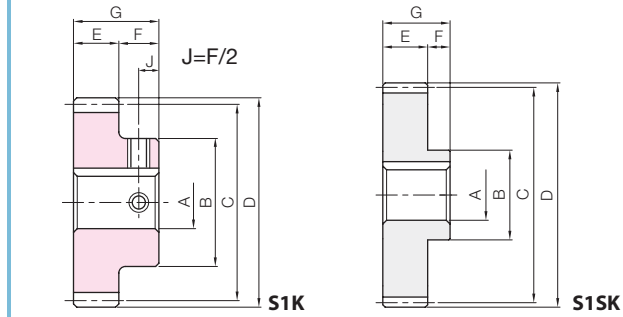


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coated (excludes semi-custom products)

* The precision grade of J Series products is equivalent to the value shown in the table.



S1



S1K

S1SK



Catalog Number	No. of teeth	Shape	Bore		Pitch dia.			Outside dia.			Face width		Hub width		Total length	Web thickness	Web O.D.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
			A _{H7}	B	C	D	E	F	G	H	I	Bending strength	Surface durability	Bending strength				Surface durability					
SS10-15	15	S1	30	115	150	170	90	40	130	—	—	3330	203	339	20.7	4310	323	440	33.0	0.34~0.68	28.2	15.0	
SS10-20	20		30	165	200	220																	
SS10-25	25		40	200	250	270																	

Catalog Number	No. of teeth	Shape	Bore		Pitch dia.			Outside dia.			Face width		Hub width		Total length	Web thickness	Web O.D.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	
			A _{H7}	B	C	D	E	F	G	H	I	Bending strength	Surface durability	Bending strength				Surface durability						
SS10-26S	26	S1	50	210	260	280	90	40	130	—	—	5790	522	590	53.3	6100	566	622	57.7	6400	612	653	62.4	46.4
SS10-27S	27			220	270	290																		
SS10-28S	28			220	280	300																		
SS10-29S	29			230	290	310																		
SS10-30S	30			240	300	320																		
SS10-32S	32			250	320	340																		
SS10-34S	34			260	340	360																		
SS10-35S	35			260	350	370																		
SS10-36S	36			270	360	380																		
SS10-38S	38			270	380	400																		
SS10-40S	40	280	400	420																				
SS10-42S	42	290	420	440																				
SS10-44S	44	290	440	460																				
SS10-45S	45	290	450	470																				
SS10-46S	46	290	460	480																				
SS10-48S	48	300	480	500																				
SS10-50S	50	300	500	520																				

[Precautions for Semi-custom Products] Please see Pages 38~40 for more details.

To order J Series products, please specify: **Catalog No. + J + BORE.**

Bore H7	* The product shapes of J Series items are identified by background color.																		
	Keyway J _{S9}	30	32	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110
Screw size	8×3.3	10×3.3	12×3.3	14×3.8	16×4.3	18×4.4	20×4.9	22×5.4	25×5.4	28×6.4									
Catalog Number	M6	M8		M10			M12			M16			M20						
SS10-15 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K											
SS10-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS10-25 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K

Bore H7	* The product shapes of J Series items are identified by background color.																						
	Keyway J _{S9}	50	55	60	65	70	75	80	85	90	95	100	105	110	120	130	140	150	160	170	180	190	200
Catalog Number	14×3.8	16×4.3	18×4.4		20×4.9		22×5.4		25×5.4		28×6.4		32×7.4		36×8.4		40×9.4		45×10.4				
SS10-26SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK									
SS10-27SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK								
SS10-28SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK								
SS10-29SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK							
SS10-30SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK						
SS10-32SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK					
SS10-34SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK				
SS10-35SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK			
SS10-36SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK		
SS10-38SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	
SS10-40SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS10-42SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS10-44SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS10-45SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS10-46SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS10-48SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK
SS10-50SJ BORE	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK	S1SK