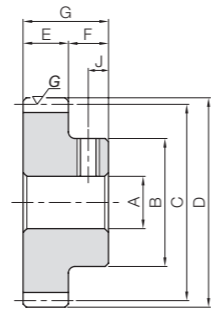




Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C*
Heat treatment	—*
Tooth hardness	200 to 270HB
Surface treatment	Black oxide coated except for teeth

* Products with modules of 0.8 or under use S45C thermal refined materials, so the surface hardness is 200-270 HB.



S1T

Catalog Number	Module	No. of teeth	Shape	Bore		Hub dia.		Pitch dia.		Outside dia.		Face width		Hub width		Total length		Socket head screw						
				AH7	B	C	D	E	F	G	Size	J												
SSG0.5-30A (Made to Order)	m0.5	30	S1T	5	13	15	16	5	7	12	M4	3.5												
SSG0.5-30B (Made to Order)				6																				
SSG0.5-32A (Made to Order)				5																14	16	17		
SSG0.5-40B (Made to Order)		40		6	18	20	21																	
SSG0.5-50B (Made to Order)		50		6	22	25	26																	
SSG0.5-60A (Made to Order)		60		6	28	30	31													M4				
SSG0.5-60B (Made to Order)				8																				
SSG0.5-70B (Made to Order)				8																		28	35	36
SSG0.5-80A (Made to Order)				8																		28	40	41
SSG0.8-20A (Made to Order)	m0.8	20	S1T	5	13	16	17.6	8	8	16	M4	4												
SSG0.8-20B (Made to Order)				6																				
SSG0.8-25A (Made to Order)				6																16	20	21.6		
SSG0.8-30A (Made to Order)		30		5	20	24	25.6																	
SSG0.8-34A (Made to Order)		34		6	22	27.2	28.8																	
SSG0.8-40B (Made to Order)		40		8	28	32	33.6													M5				
SSG0.8-50A (Made to Order)				6																		28	40	41.6
SSG0.8-60A (Made to Order)				6																		28	48	49.6
SSG0.8-60B (Made to Order)		8																						
SSG0.8-70A (Made to Order)		70		6	28	56	57.6																	
SSG0.8-80A (Made to Order)		80		6	28	64	65.6																	

Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
Bending strength	Surface durability	Bending strength	Surface durability			
1.63	0.29	0.17	0.030	0~0.08	0.012	SSG0.5-30A (Made to Order)
					0.011	SSG0.5-30B (Made to Order)
1.78	0.34	0.18	0.035		0.014	SSG0.5-32A (Made to Order)
2.38	0.55	0.24	0.056		0.023	SSG0.5-40B (Made to Order)
3.14	0.89	0.32	0.091		0.037	SSG0.5-50B (Made to Order)
3.91	1.32	0.40	0.13		0.058	SSG0.5-60A (Made to Order)
					0.056	SSG0.5-60B (Made to Order)
3.90	1.53	0.40	0.16		0.066	SSG0.5-70B (Made to Order)
4.55	2.04	0.46	0.21		0.080	SSG0.5-80A (Made to Order)
3.79	0.53	0.39	0.054	0~0.08	0.018	SSG0.8-20A (Made to Order)
					0.017	SSG0.8-20B (Made to Order)
5.22	0.88	0.53	0.090		0.029	SSG0.8-25A (Made to Order)
6.70	1.30	0.68	0.13		0.045	SSG0.8-30A (Made to Order)
7.90	1.71	0.81	0.17		0.056	SSG0.8-34A (Made to Order)
8.11	2.02	0.83	0.21		0.082	SSG0.8-40B (Made to Order)
10.7	3.26	1.09	0.33		0.11	SSG0.8-50A (Made to Order)
13.3	4.83	1.36	0.49		0.15	SSG0.8-60A (Made to Order)
					0.14	SSG0.8-60B (Made to Order)
16.0	6.73	1.63	0.69		0.19	SSG0.8-70A (Made to Order)
18.7	8.97	1.90	0.91		0.24	SSG0.8-80A (Made to Order)

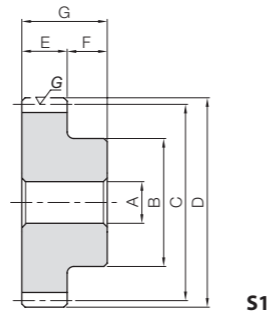
[Precautions for Made to Order Products] ① Prices and lead times for Made to Order products require separate estimates. Contact your dealer.





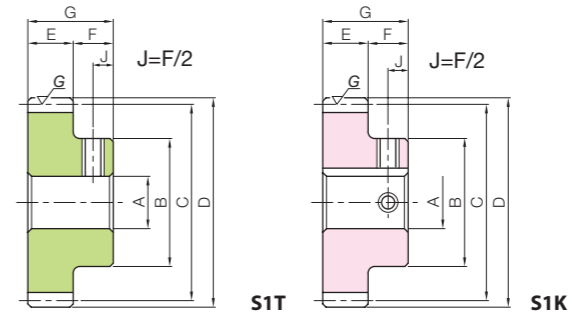
Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

* The precision grade of J Series products is equivalent to the value shown in the table.
 ** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S1

J Series



S1T

S1K



Catalog Number	No. of teeth	Shape	Bore		Hub dia.		Pitch dia.		Outside dia.		Face width	Hub width	Total length	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)											
			A _{H7}	B	C	D	E	F	G	Bending strength				Surface durability	Bending strength	Surface durability														
SSG1-15	15	S1	6	12	15	17	8	10	18	2.96	1.03	0.30	0.11	0.08~0.16	0.016	0.019	0.022	0.026	0.034											
SSG1-16	16			13	16	18				3.28	1.19	0.33	0.12																	
SSG1-17	17			14	17	19				3.60	1.36	0.37	0.14																	
SSG1-18	18			15	18	20				3.93	1.54	0.40	0.16																	
SSG1-20	20			17	20	22				4.60	1.94	0.47	0.20																	
SSG1-21	21			18	21	23				4.94	2.14	0.50	0.22																	
SSG1-22	22			18	22	24				5.28	2.36	0.54	0.24																	
SSG1-23	23			20	23	25				5.63	2.59	0.57	0.26																	
SSG1-24	24			20	24	26				5.98	2.83	0.61	0.29																	
SSG1-25	25			20	25	27				6.33	3.07	0.65	0.31																	
SSG1-26	26	S1	8	20	26	28	8	10	18	6.68	3.33	0.68	0.34	0.08~0.16	0.051	0.054	0.056	0.073	0.072											
SSG1-27	27			20	27	29				7.04	3.60	0.72	0.37																	
SSG1-28	28			20	28	30				7.39	3.89	0.75	0.40																	
SSG1-29	29			25	29	31				7.75	4.18	0.79	0.43																	
SSG1-30	30			25	30	32				8.11	4.48	0.83	0.46																	
SSG1-32	32			25	32	34				7.37	4.27	0.75	0.43																	
SSG1-34	34			25	34	36				7.98	4.84	0.81	0.49																	
SSG1-35	35			25	35	37				8.28	5.14	0.84	0.52																	
SSG1-36	36			25	36	38				8.59	5.45	0.88	0.56																	
SSG1-38	38			30	38	40				9.21	6.10	0.94	0.62																	
SSG1-40	40	S1	10	30	40	42	8	10	18	9.83	6.79	1.00	0.69	0.08~0.16	0.12	0.14	0.16	0.18	0.21											
SSG1-45	45			30	45	47				11.4	8.67	1.16	0.88																	
SSG1-48	48			30	48	50				12.3	9.92	1.26	1.01																	
SSG1-50	50			35	50	52				13.0	10.8	1.32	1.10																	
SSG1-55	55			35	55	57				14.6	13.2	1.48	1.34																	
SSG1-56	56			S1	12	35				56	58	8	10							18	14.9	13.7	1.52	1.40	0.08~0.16	0.21	0.26	0.32	0.36	0.44
SSG1-60	60					40				60	62										16.2	15.8	1.65	1.61						
SSG1-70	70					40				70	72										19.4	21.8	1.97	2.22						
SSG1-75	75					40				75	77										21.0	25.2	2.14	2.57						
SSG1-80	80					50				80	82										22.6	28.8	2.30	2.94						
SSG1-90	90	S1	15			50	90	92	8	10	18			25.8	36.9	2.64	3.77	0.08~0.16	0.53		0.62	0.84								
SSG1-100	100					50	100	102						26.9	42.5	2.74	4.34													
SSG1-120	120					50	120	122						32.9	62.5	3.36	6.37													

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

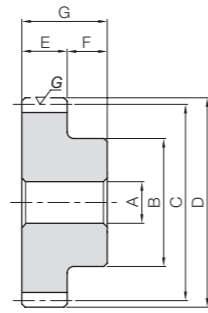
Bore H7	* The product shapes of J Series items are identified by background color.														
	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30
Keyway JS9	-		4x1.8		5x2.3			6x2.8			8x3.3				
Screw size	-		M4		M4			M5			M6				
Catalog Number	M4	M5	M4			M5			M6						
SSG1-15 J BORE	Green														
SSG1-16 J BORE	Green														
SSG1-17 J BORE	Green														
SSG1-18 J BORE	Green														
SSG1-20 J BORE	Green														
SSG1-21 J BORE			Green												
SSG1-22 J BORE			Green												
SSG1-23 J BORE			Green												
SSG1-24 J BORE			Green												
SSG1-25 J BORE			Green												
SSG1-26 J BORE			Green												
SSG1-27 J BORE			Green												
SSG1-28 J BORE			Green												
SSG1-29 J BORE			Green												
SSG1-30 J BORE			Green												
SSG1-32 J BORE			Green												
SSG1-34 J BORE			Green												
SSG1-35 J BORE			Green												
SSG1-36 J BORE			Green												
SSG1-38 J BORE			Green												
SSG1-40 J BORE			Green												
SSG1-45 J BORE			Green												
SSG1-48 J BORE			Green												
SSG1-50 J BORE			Green												
SSG1-55 J BORE			Green												
SSG1-56 J BORE			Green												
SSG1-60 J BORE			Green												
SSG1-70 J BORE			Green												
SSG1-75 J BORE			Green												
SSG1-80 J BORE			Green												
SSG1-90 J BORE			Green												
SSG1-100 J BORE			Green												
SSG1-120 J BORE			Green												

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.



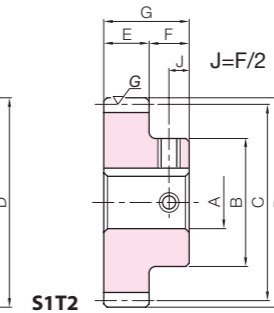
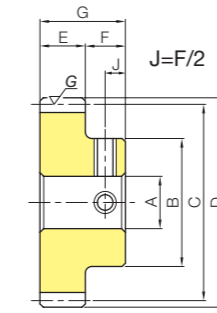
Specifications	
Precision grade	JIS grade N7 (JIS B1702-1:1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

* The precision grade of J Series products is equivalent to the value shown in the table.
 ** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S1

J Series



S1T2

S1K



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

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	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
										Bending strength	Surface durability	Bending strength	Surface durability		
SSG1.5-15	15	S1	10	18	22.5	25.5	15	14	29	12.5	4.35	1.27	0.44	0.08~0.16	0.057
SSG1.5-16	16			20	24	27				13.8	5.02	1.41	0.51		0.070
SSG1.5-18	18			22	27	30				16.6	6.51	1.69	0.66		0.091
SSG1.5-20	20			24	30	33				19.4	8.20	1.98	0.84		0.12
SSG1.5-21	21			25	31.5	34.5				20.8	9.12	2.12	0.93		0.13
SSG1.5-22	22			26	33	36				18.6	8.41	1.89	0.86		0.13
SSG1.5-23	23			27	34.5	37.5				19.8	9.27	2.02	0.95		0.15
SSG1.5-24	24			28	36	39				21.0	10.2	2.14	1.04		0.16
SSG1.5-25	25			30	37.5	40.5				22.2	11.1	2.27	1.13		0.18
SSG1.5-26	26			32	39	42				23.5	12.1	2.39	1.23		0.20
SSG1.5-27	27	S1	15	34	40.5	43.5	15	14	29	24.7	13.1	2.52	1.33	0.08~0.16	0.21
SSG1.5-28	28			36	42	45				26.0	14.1	2.65	1.44		0.23
SSG1.5-30	30			38	45	48				28.5	16.3	2.91	1.66		0.27
SSG1.5-32	32			40	48	51				31.1	18.6	3.17	1.90		0.31
SSG1.5-34	34			42	51	54				33.6	21.1	3.43	2.15		0.35
SSG1.5-35	35			42	52.5	55.5				34.9	22.4	3.56	2.29		0.37
SSG1.5-36	36			45	54	57				36.2	23.8	3.70	2.43		0.40
SSG1.5-38	38			45	57	60				38.8	26.6	3.96	2.71		0.44
SSG1.5-40	40			50	60	63				41.5	29.6	4.23	3.02		0.51
SSG1.5-42	42			50	63	66				44.1	32.8	4.50	3.35		0.54
SSG1.5-44	44	S1	18	50	66	69	15	14	29	46.7	36.2	4.77	3.69	0.08~0.16	0.58
SSG1.5-45	45			50	67.5	70.5				48.1	37.9	4.90	3.86		0.58
SSG1.5-48	48			50	72	75				52.0	43.4	5.31	4.42		0.64
SSG1.5-50	50			60	75	78				54.7	47.2	5.58	4.82		0.77
SSG1.5-55	55			60	82.5	85.5				61.4	57.7	6.26	5.88		0.88
SSG1.5-56	56			60	84	87				62.8	59.9	6.40	6.11		0.91
SSG1.5-60	60			60	90	93				68.1	69.2	6.95	7.06		0.99
SSG1.5-64	64			60	96	99				67.9	73.2	6.92	7.46		1.09
SSG1.5-70	70			60	105	108				75.4	88.4	7.69	9.01		1.26
SSG1.5-75	75			60	112.5	115.5				81.7	102	8.33	10.4		1.41
SSG1.5-80	80	S1	20	70	120	123	15	14	29	88.0	117	8.97	12.0	0.08~0.16	1.68
SSG1.5-90	90			70	135	138				101	150	10.3	15.3		2.04
SSG1.5-100	100			70	150	153				113	187	11.6	19.1		2.43

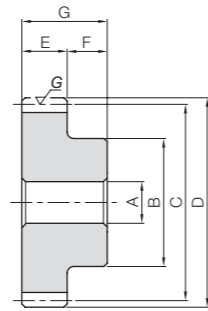
Bore H7	* The product shapes of J Series items are identified by background color.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Catalog Number	<table border="1"> <tr><td>SSG1.5-15 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-16 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-18 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-20 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-21 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-22 J 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BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-28 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-30 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-32 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-34 J BORE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SSG1.5-35 J 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[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.



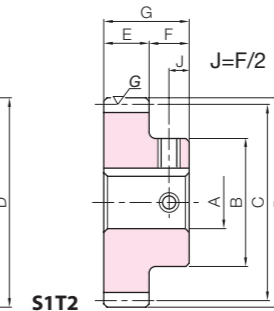
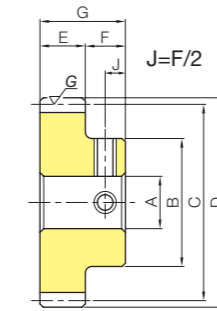
Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

* The precision grade of J Series products is equivalent to the value shown in the table.
 ** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S1

J Series



S1T2

S1K



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	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)																	
										Bending strength	Surface durability	Bending strength	Surface durability																			
SSG2.5-14	14	S1	A _{H7}	28	35	40	25	18	43	42.9	14.9	4.37	1.52	0.10~0.20	0.22																	
SSG2.5-15	15			30	37.5	42.5				48.1	17.4	4.91	1.77			0.26																
SSG2.5-16	16			32	40	45				53.3	20.1	5.44	2.05				0.30															
SSG2.5-17	17			35	42.5	47.5				58.6	23.0	5.97	2.34					0.35														
SSG2.5-18	18			38	45	50				63.9	26.1	6.52	2.66						0.41													
SSG2.5-19	19			15	39	47.5				52.5	69.4	29.4	7.07							3.00	0.46											
SSG2.5-20	20				40	50				55	74.8	32.9	7.63							3.36		0.48										
SSG2.5-21	21				42	52.5				57.5	80.4	36.7	8.20							3.74			0.53									
SSG2.5-22	22				44	55				60	86.0	40.6	8.77							4.14				0.60								
SSG2.5-23	23				46	57.5				62.5	91.6	44.8	9.34							4.57					0.66							
SSG2.5-24	24				18	48				60	65	97.3	49.2							9.92						5.02	0.72					
SSG2.5-25	25			50		62.5				67.5	103	53.8	10.5							5.48						0.77						
SSG2.5-26	26			54		65				70	109	58.4	11.1							5.95								0.87				
SSG2.5-27	27			56		67.5				72.5	115	63.2	11.7							6.44									0.94			
SSG2.5-28	28			60		70				75	120	68.2	12.3							6.95										1.05		
SSG2.5-30	30			20		65				75	80	132	78.7							13.5											8.03	1.23
SSG2.5-32	32				70	80				85	144	90.1	14.7							9.19											1.42	
SSG2.5-34	34				70	85				90	156	102	15.9							10.4												
SSG2.5-35	35	70	87.5		92.5	162	109	16.5	11.1	1.62																						
SSG2.5-36	36	70	90		95	168	115	17.1	11.8		1.69																					
SSG2.5-38	38	25	70		95	100	180	129	18.3			13.2	1.83																			
SSG2.5-40	40		70	100	105	177	133	18.1	13.6			1.92																				
SSG2.5-42	42		75	105	110	188	147	19.2	15.0					2.16																		
SSG2.5-44	44		75	110	115	200	163	20.4	16.6						2.32																	
SSG2.5-45	45		75	112.5	117.5	205	170	20.9	17.4							2.41																
SSG2.5-48	48		25	75	120	125	222	195	22.7								19.9	2.68														
SSG2.5-50	50	80		125	130	234	213	23.8	21.7								2.95															
SSG2.5-55	55	80		137.5	142.5	262	260	26.8	26.5										3.46													
SSG2.5-56	56	80		140	145	268	270	27.3	27.5											3.57												
SSG2.5-60	60	80		150	155	291	311	29.7	31.8												4.01											
SSG2.5-70	70	25		80	175	180	324	399	33.1													40.7	5.26									
SSG2.5-75	75		90	187.5	192.5	351	461	35.8	47.0													6.15										
SSG2.5-80	80		90	200	205	378	527	38.6	53.7															6.90								

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

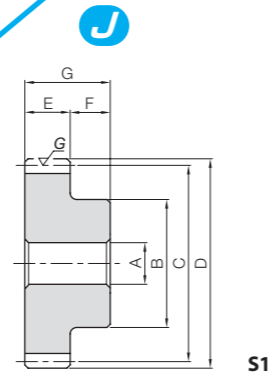
Bore H7	* The product shapes of J Series items are identified by background color.																																																																																																																																																																																																																																																																																																																																																																										
	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50																																																																																																																																																																																																																																																																																																																																																												
Keyway J _{S9}	5x2.3			6x2.8				8x3.3				10x3.3		12x3.3		14x3.8																																																																																																																																																																																																																																																																																																																																																											
Screw size	M4			M5				M6				M8		M10																																																																																																																																																																																																																																																																																																																																																													
Catalog Number	SSG2.5-14 J BORE											SSG2.5-15 J BORE											SSG2.5-16 J BORE											SSG2.5-17 J BORE											SSG2.5-18 J BORE											SSG2.5-19 J BORE											SSG2.5-20 J BORE											SSG2.5-21 J BORE											SSG2.5-22 J BORE											SSG2.5-23 J BORE											SSG2.5-24 J BORE											SSG2.5-25 J BORE											SSG2.5-26 J BORE											SSG2.5-27 J BORE											SSG2.5-28 J BORE											SSG2.5-30 J BORE											SSG2.5-32 J BORE											SSG2.5-34 J BORE											SSG2.5-35 J BORE											SSG2.5-36 J BORE											SSG2.5-38 J BORE											SSG2.5-40 J BORE											SSG2.5-42 J BORE											SSG2.5-44 J BORE											SSG2.5-45 J BORE											SSG2.5-48 J BORE											SSG2.5-50 J BORE											SSG2.5-55 J BORE											SSG2.5-56 J BORE											SSG2.5-60 J BORE											SSG2.5-70 J BORE											SSG2.5-75 J BORE											SSG2.5-80 J BORE										

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

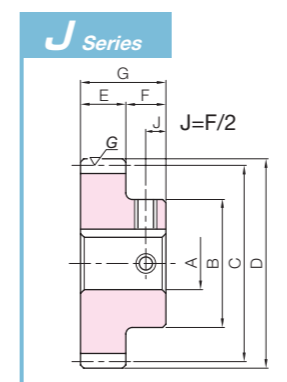


Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

* The precision grade of J Series products is equivalent to the value shown in the table.
 ** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S1



S1K



Catalog Number	No. of teeth	Shape	Bore				Hub				Torque				Backlash (mm)	Weight (kg)
			A _{H7}	B	C	D	E	F	G	Bending strength	Surface durability	Bending strength	Surface durability			
SSG3-14	14	S1	16	34	42	48	30	20	50	74.1	26.1	7.55	2.66	0.10~0.20	0.39	
SSG3-15	15			36	45	51				83.1	30.5	8.48	3.11			
SSG3-16	16			38	48	54				92.1	35.2	9.39	3.59			
SSG3-17	17			37	51	57				101	40.3	10.3	4.11			
SSG3-18	18			40	54	60				110	45.8	11.3	4.67			
SSG3-19	19			45	57	63				120	51.6	12.2	5.26			
SSG3-20	20		20	50	60	66	129	57.8	13.2	5.90	0.85					
SSG3-21	21			52	63	69	139	64.4	14.2	6.57	0.94					
SSG3-22	22			54	66	72	149	71.3	15.1	7.28	1.04					
SSG3-24	24			58	72	78	168	86.4	17.1	8.81	1.25					
SSG3-25	25			25	60	75	81	178	94.5	18.1	9.64	1.36				
SSG3-26	26				62	78	84	188	103	19.2	10.5	1.48				
SSG3-27	27		65		81	87	198	111	20.2	11.3	1.61					
SSG3-28	28		70		84	90	208	120	21.2	12.2	1.79					
SSG3-29	29		70		87	93	218	129	22.2	13.2	1.88					
SSG3-30	30		30		75	90	96	228	138	23.3	14.1	2.00				
SSG3-32	32			75	96	102	229	146	23.4	14.9	2.21					
SSG3-34	34			75	102	108	248	166	25.3	17.0	2.43					
SSG3-35	35	80		105	111	258	177	26.3	18.0	2.64						
SSG3-36	36	80		108	114	268	188	27.3	19.1	2.75						
SSG3-38	38	30		80	114	120	287	210	29.2	21.4	3.00					
SSG3-40	40		80	120	126	306	234	31.2	23.9	3.26						
SSG3-42	42		80	126	132	326	260	33.2	26.5	3.53						
SSG3-44	44		80	132	138	345	286	35.2	29.2	3.82						
SSG3-45	45		80	135	141	355	300	36.2	30.6	3.97						
SSG3-48	48		30	85	144	150	384	343	39.2	35.0	4.53					
SSG3-50	50	85		150	156	404	374	41.2	38.1	4.78						
SSG3-55	55	90		165	171	421	423	42.9	43.2	5.76						
SSG3-56	56	90		168	174	430	439	43.9	44.8	5.94						
SSG3-60	60	100		180	186	467	508	47.6	51.8	6.95						
SSG3-70	70	100		210	216	560	699	57.1	71.3	9.11						
SSG3-75	75	100	225	231	607	806	61.9	82.2	10.3							
SSG3-80	80	100	240	246	654	921	66.7	93.9	11.6							

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.														
	16	17	18	19	20	22	25	28	30	32	35	40	45	50	
Keyway JS9	5x2.3		6x2.8				8x3.3			10x3.3		12x3.3		14x3.8	
Screw size	M4			M5			M6			M8			M10		
Catalog Number	[Grid of product availability]														
SSG3-14 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-15 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-16 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-17 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-18 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-19 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-20 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-21 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-22 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-24 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-25 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-26 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-27 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-28 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-29 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-30 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-32 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-34 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-35 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-36 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-38 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-40 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-42 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-44 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-45 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-48 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-50 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-55 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-56 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-60 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-70 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-75 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	
SSG3-80 J BORE	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	[shaded]	

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

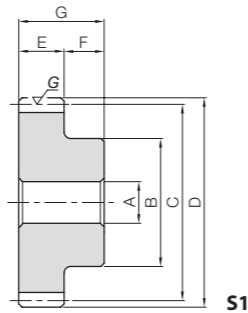
Spur Gears
Helical Gears
Internal Gears
Racks
CP Racks & Pinions
Miter Gears
Bevel Gears
Screw Gears
Worm Gears
Gearboxes
Other Products

Spur Gears
Helical Gears
Internal Gears
Racks
CP Racks & Pinions
Miter Gears
Bevel Gears
Screw Gears
Worm Gears
Gearboxes
Other Products

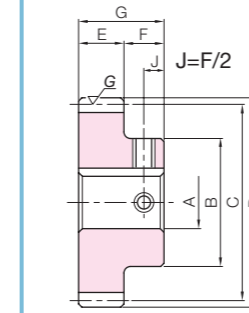


Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth (excludes semi-custom products)

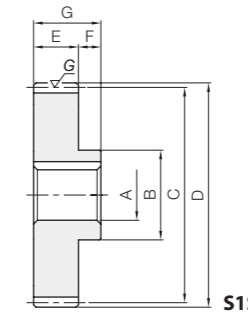
* The precision grade of J Series products is equivalent to the value shown in the table.
 ** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S1



S1K



S1SK



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

Catalog Number	No. of teeth	Shape	Bore AH7	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	
										Bending strength	Surface durability	Bending strength	Surface durability			
SSG4-14	14	S1	20	40	56	64	40	25	65	176	63.4	17.9	6.47	0.10~0.20	0.86	
SSG4-15	15			45	60	68				197	74.1	20.1	7.55			1.04
SSG4-16	16			50	64	72				218	85.6	22.3	8.73			1.24
SSG4-18	18			60	72	80				262	111	26.7	11.4			1.67
SSG4-20	20			65	80	88				307	141	31.3	14.3			2.07
SSG4-22	22			70	88	96				352	174	35.9	17.7			2.50
SSG4-24	24			75	96	104				368	194	37.5	19.8			2.98
SSG4-25	25			80	100	108				389	213	39.7	21.7			3.29
SSG4-28	28			85	112	120				455	270	46.4	27.5			4.05
SSG4-30	30			90	120	128				499	313	50.9	31.9			4.64
SSG4-32	32			90	128	136				544	358	55.5	36.5			5.04
SSG4-35	35			90	140	148				612	432	62.4	44.0			5.83
SSG4-36	36	90	144	152	634	458	64.7	46.7	6.11							
SSG4-40	40	90	160	168	674	529	68.7	54.0	7.31							
SSG4-42	42	90	168	176	717	586	73.1	59.7	7.96							
SSG4-44	44	90	176	184	760	646	77.5	65.8	8.53							
SSG4-45	45	90	180	188	781	677	79.6	69.0	8.88							
SSG4-48	48	100	192	200	846	774	86.3	79.0	10.3							
SSG4-50	50	100	200	208	889	842	90.7	85.9	11.0							
SSG4-55	55	100	220	228	998	1030	102	105	13.1							
SSG4-56	56	110	224	232	1020	1060	104	109	13.9							
SSG4-60	60	110	240	248	1110	1230	113	125	15.7							
SSG4-62S	62	S1	40	120	248	256	40	25	65	1240	1360	127	138	0.10~0.20	16.8	
SSG4-64S	64			130	256	264				1290	1450	131	148			18.1
SSG4-65S	65			130	260	268				1310	1500	134	153			18.6
SSG4-66S	66			130	264	272				1340	1550	136	158			19.2
SSG4-68S	68			140	272	280				1380	1650	141	168			20.6
SSG4-70S	70			140	280	288				1430	1750	146	178			21.7
SSG4-80S	80			160	320	328				1550	2150	158	219			28.6
SSG4-90S	90			180	360	368				1770	2750	181	281			36.3
SSG4-100S	100	200	400	408	2000	3440	204	351	45.0							
SSG4-110S	110	220	440	448	2220	4190	226	427	54.6							
SSG4-120S	120	240	480	488	2450	5010	249	511	65.1							

[Caution on Product Characteristics] ① Products with S at the end of the catalog number are semi-custom stock products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.
 ② For S semi-custom standard products weighing 15 kg or more, eyebolt screw threads (2-M12 depth 25 mm) are machined around the outside of the hub side surface. Details of the PCD of the screw threads are located on page 51.

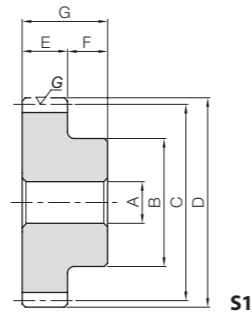
Keyway J _{S9}	* The product shapes of J Series items are identified by background color.																						
	20	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	
Screw size	6x2.8	8x3.3			10x3.3			12x3.3	14x3.8		16x4.3	18x4.4		20x4.9		22x5.4		25x5.4		28x6.4			
Catalog Number	M5	M6			M8			M10	M12		M16		-										
SSG4-14 J BORE																							
SSG4-15 J BORE																							
SSG4-16 J BORE																							
SSG4-18 J BORE																							
SSG4-20 J BORE																							
SSG4-22 J BORE																							
SSG4-24 J BORE																							
SSG4-25 J BORE																							
SSG4-28 J BORE																							
SSG4-30 J BORE																							
SSG4-32 J BORE																							
SSG4-35 J BORE																							
SSG4-36 J BORE																							
SSG4-40 J BORE																							
SSG4-42 J BORE																							
SSG4-44 J BORE																							
SSG4-45 J BORE																							
SSG4-48 J BORE																							
SSG4-50 J BORE																							
SSG4-55 J BORE																							
SSG4-56 J BORE																							
SSG4-60 J BORE																							
SSG4-62SJ BORE																							
SSG4-64SJ BORE																							
SSG4-65SJ BORE																							
SSG4-66SJ BORE																							
SSG4-68SJ BORE																							
SSG4-70SJ BORE																							
SSG4-80SJ BORE																							
SSG4-90SJ BORE																							
SSG4-100SJ BORE																							
SSG4-110SJ BORE																							
SSG4-120SJ BORE																							

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.



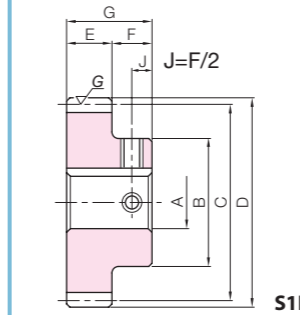
Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	—

* The precision grade of J Series products is equivalent to the value shown in the table.
 ** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).

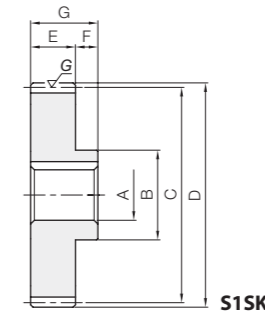


S1

J Series



S1K



S15K

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

Catalog Number	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
										Bending strength	Surface durability	Bending strength	Surface durability		
SSG8-20S	20	S1	30	130	160	176	75	35	110	2300	1080	235	110	0.10~0.22	14.9
SSG8-25S	25			160	200	216				2920	1620	298	165		23.4
SSG8-30S	30			190	240	256				3750	2370	382	242		33.8
SSG8-32S	32			200	256	272				4080	2720	416	277		37.9
SSG8-35S	35			210	280	296				4590	3280	468	335		44.7
SSG8-36S	36			210	288	304				4760	3480	486	355		46.8
SSG8-40S	40		220	320	336	5060				4030	516	411	56.7		
SSG8-42S	42		230	336	352	5380				4470	548	456	62.5		
SSG8-44S	44		230	352	368	5700				4930	581	502	67.6		
SSG8-45S	45		230	360	376	5860				5170	598	527	70.3		
SSG8-48S	48		240	384	400	6350				5920	647	603	79.5		
SSG8-50S	50		240	400	416	6670				6450	680	657	85.3		
SSG8-55S	55	240	440	456	7490	7850	764	801	101						
SSG8-56S	56	240	448	464	7650	8150	780	831	104						
SSG8-60S	60	240	480	496	8310	9390	848	958	118						
SSG10-20S	20	S1	40	160	200	220	90	40	130	3980	1920	406	196	0.10~0.22	27.2
SSG10-25S	25			200	250	270				5480	3100	559	317		43.3
SSG10-30S	30			240	300	320				7030	4550	717	464		62.1
SSG10-32S	32			250	320	340				7110	4840	725	493		70.2
SSG10-35S	35			260	350	370				7990	5840	815	596		82.6
SSG10-36S	36		270	360	380	8290				6200	845	632	87.9		
SSG10-40S	40		280	400	420	9480				7740	967	789	106		

[Caution on Product Characteristics] ① Products with S at the end of the catalog number are semi-custom stock products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.
 ② For S semi-custom standard products weighing 15 kg or more, eyebolt screw threads (2-M12 depth 25 mm) are machined around the outside of the hub side surface. Details of the PCD of the screw threads are located on page 51.

Bore H7	* The product shapes of J Series items are identified by background color.																								
	30	32	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	120	130	140	150	160	170	180
Keyway JS9	30	32	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	120	130	140	150	160	170	180
Screw size	8x3.3	10x3.3	12x3.3	14x3.8	16x4.3	18x4.4	20x4.9	22x5.4	25x5.4	28x6.4	32x7.4	36x8.4	40x9.4	45x10.4											
Catalog Number	M6	M8	M10	M12	M16	M20																			
SSG8-20 SJ BORE	Ask for Quote																								
SSG8-25 SJ BORE	Ask for Quote																								
SSG8-30 SJ BORE	Ask for Quote																								
SSG8-32 SJ BORE	Ask for Quote																								
SSG8-35 SJ BORE	Ask for Quote																								
SSG8-36 SJ BORE	Ask for Quote																								
SSG8-40SJ BORE	Ask for Quote																								
SSG8-42 SJ BORE	Ask for Quote																								
SSG8-44 SJ BORE	Ask for Quote																								
SSG8-45 SJ BORE	Ask for Quote																								
SSG8-48 SJ BORE	Ask for Quote																								
SSG8-50 SJ BORE	Ask for Quote																								
SSG8-55 SJ BORE	Ask for Quote																								
SSG8-56 SJ BORE	Ask for Quote																								
SSG8-60 SJ BORE	Ask for Quote																								
SSG10-20 SJ BORE	Ask for Quote																								
SSG10-25 SJ BORE	Ask for Quote																								
SSG10-30 SJ BORE	Ask for Quote																								
SSG10-32 SJ BORE	Ask for Quote																								
SSG10-35 SJ BORE	Ask for Quote																								
SSG10-36 SJ BORE	Ask for Quote																								
SSG10-40 SJ BORE	Ask for Quote																								

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.