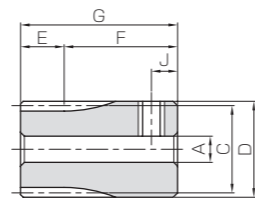


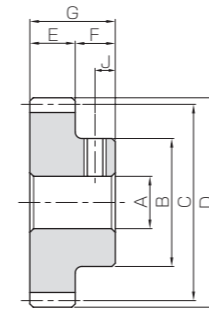


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating

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



S3T



S1T

Catalog Number	Module	No. of teeth	Shape	Bore				Face width	Hub width	Total Length	Keyway
				A _{H7}	B	C	D				
KSS0.5-15A	m0.5	15	S3T	3	8.5	7.5	8.5	5	11	16	—
KSS0.5-16A		16		3	9	8	9				
KSS0.5-18A		18		4	10	9	10				
KSS0.5-20A		20		3	11	10	11				
KSS0.5-20B				4	11.5	10.5	11.5				
KSS0.5-21A		21		4	12	11	12				
KSS0.5-22A		22		4	13	12	13				
KSS0.5-24A		24		4	13	12	13				
KSS0.5-24B				5	13.5	12.5	13.5				
KSS0.5-25B		25		5	14	16	17				
KSS0.5-27A		27		4	14.5	13.5	14.5				
KSS0.5-28A		28		4	12	14	15				
KSS0.5-30A		30	4	13	15	16					
KSS0.5-30B			5	14	16	17					
KSS0.5-30C			6	15	17.5	18.5					
KSS0.5-32A		32	5	16	18	19					
KSS0.5-35A		35	5	18	20	21					
KSS0.5-36A		36	5	20	22.5	23.5					
KSS0.5-40A		40	5	22	25	26					
KSS0.5-40B			6	25	27	28					
KSS0.5-45A		45	5	28	30	31					
KSS0.5-50A		50	5	28	35	36					
KSS0.5-50B			6	28	40	41					
KSS0.5-54A		54	8	28	45	46					
KSS0.5-60A	60	8	28	48	49						
KSS0.5-60B		8	28	50	51						
KSS0.5-70A	70	8	28	60	61						
KSS0.5-70B		8	28	60	61						
KSS0.5-80A	80	8	28	60	61						
KSS0.5-80B		8	28	60	61						
KSS0.5-90A	90	8	28	60	61						
KSS0.5-96A	96	8	28	60	61						
KSS0.5-100A	100	8	28	60	61						
KSS0.5-120A	120	8	28	60	61						

- [Caution on Product Characteristics]
- The key groove used is a JIS B 1301 normal type (Js9) and a set screw is included for products with a tapped hole.
 - The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
 - The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
 - If the bore diameter is less than $\phi 4$, the bore tolerance class is H8. If the bore diameter is $\phi 5$ or $\phi 6$, and the hole length (total length) exceeds 3 times the diameter, then the class is also H8.
 - When using S3T and S1T set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.

Socket head screw	Allowable torque (N-m)	Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog Number
		Bending strength	Surface durability			
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	
M3	2.5	0.46	0.022	0.047	0.0022	0.0056 KSS0.5-15A
M3		0.51	0.025	0.052	0.0025	0.0064 KSS0.5-16A
M3		0.61	0.032	0.063	0.0033	0.0076 KSS0.5-18A
M3		0.72	0.040	0.073	0.0041	0.010 KSS0.5-20A
M3		0.77	0.044	0.079	0.0045	0.0095 KSS0.5-20B
M3		0.83	0.049	0.084	0.0050	0.011 KSS0.5-21A
M3		0.93	0.059	0.095	0.0060	0.012 KSS0.5-22A
M4	2.5	0.99	0.064	0.10	0.0065	0.014 KSS0.5-24A
M4	3	1.10	0.075	0.11	0.0076	0.013 KSS0.5-24B
M3	2.5	1.16	0.081	0.12	0.0082	0.014 KSS0.5-25B
M3	3.5	1.27	0.093	0.13	0.0095	0.018 KSS0.5-27A
M4		1.38	0.11	0.14	0.011	0.011 KSS0.5-28A
M4		1.55	0.13	0.16	0.013	0.013 KSS0.5-30A
M4		1.61	0.14	0.16	0.014	0.012 KSS0.5-30B
M4		1.84	0.17	0.19	0.017	0.011 KSS0.5-30C
M4		2.14	0.21	0.22	0.022	0.014 KSS0.5-32A
M4		2.43	0.27	0.25	0.027	0.017 KSS0.5-35A
M4		2.67	0.32	0.27	0.032	0.019 KSS0.5-36A
M4		3.03	0.39	0.31	0.040	0.024 KSS0.5-40A
M4		3.63	0.55	0.37	0.056	0.023 KSS0.5-40B
M4	3.5	4.24	0.72	0.43	0.074	0.030 KSS0.5-45A
M4		4.85	0.93	0.49	0.095	0.038 KSS0.5-50A
M5	5.21	1.06	0.53	0.11	0.037 KSS0.5-50B	
M5	5.46	1.16	0.56	0.12	0.047 KSS0.5-54A	
M5	6.68	1.70	0.68	0.17	0.058 KSS0.5-60A	
					0.055 KSS0.5-60B	
					0.068 KSS0.5-70A	
					0.065 KSS0.5-70B	
					0.079 KSS0.5-80A	
					0.077 KSS0.5-80B	
					0.090 KSS0.5-90A	
					0.099 KSS0.5-96A	
					0.10 KSS0.5-100A	
					0.14 KSS0.5-120A	

- [Caution on Secondary Operations]
- Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns.
 - Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

