

S1



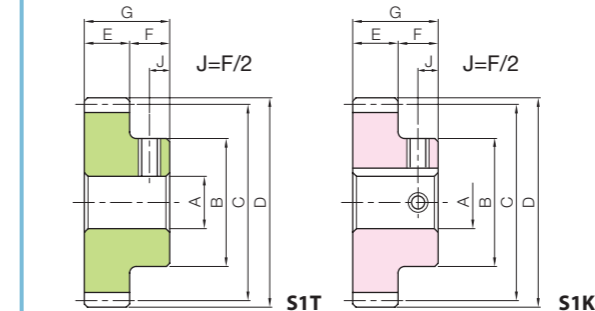
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	SCM440
Heat treatment	Thermal refining only
Tooth hardness	225 to 352HB
Surface treatment	Black oxide coating
Shape	S1

* 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: **KS1.5-20H**

Catalog Number	Module	No. of teeth	Bore dia. A _{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G	Allowable torque						Backlash (mm)	Weight (kg)	
										Bending strength		Surface durability		Surface durability H				
										N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
KS1.5-20	m1.5	20	8	24	30	33					37.2	3.79	7.38	0.75	14.8	1.51	0.10~0.22	0.12
KS1.5-25		25	30	37.5	40.5	15	14	29	50.2	5.12	12.6	1.29	25.0	2.55				
KS1.5-30		30	10	38	45	48			63.4	6.47	19.7	2.01	38.5	3.93				
KS2-20	m2	20	12	32	40	44					88.1	8.98	18.1	1.84	35.6	3.63	0.12~0.26	0.27
KS2-25		25	12	40	50	54	20	16	36	119	12.1	30.9	3.15	60.1	6.13			
KS2-30		30	12	50	60	64			150	15.3	48.3	4.92	92.7	9.45				
KS2.5-20	m2.5	20	15	40	50	55					172	17.5	36.2	3.69	70.3	7.17	0.14~0.28	0.82
KS2.5-25		25	15	50	62.5	67.5	25	18	43	232	23.7	62.0	6.32	119	12.1			
KS2.5-30		30	15	65	75	80			294	29.9	96.7	9.86	183	18.7				
KS3-20	m3	20	15	50	60	66					297	30.3	63.8	6.51	123	12.5	0.14~0.32	1.36
KS3-25		25	15	60	75	81	30	20	50	401	40.9	109	11.2	207	21.1			
KS3-30		30	20	75	90	96			507	51.7	171	17.4	320	32.6				
KS4-20	m4	20	20	65	80	88					705	71.9	156	16.0	295	30.1	0.18~0.38	4.64
KS4-25		25	20	80	100	108	40	25	65	951	97.0	268	27.4	500	51.0			
KS4-30		30	20	90	120	128			1203	123	419	42.7	772	78.7				
KS5-20	m5	20	22	82	100	110					1377	140	314	32.0	584	59.6	0.20~0.44	6.23
KS5-25		25	25	105	125	135	50	25	75	1858	189	538	54.9	989	101			
KS5-30		30	25	120	150	160			2349	240	841	85.8	1530	156				

J Series



To order J Series products, please specify: **Catalog No. + J + BORE**. Example: **KS1.5-20J8**

Bore H7	* The product shapes of J Series items are identified by background color.																											
	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50	55	60	65	70	75				
Keyway J _{S9}	-		4x1.8		5x2.3				6x2.8				8x3.3				10x3.3		12x3.3		14x3.8		16x4.3		18x4.4		20x4.9	
Screw size	-		M5		M4				M5				M6				M8		M10		M12		M16					
Catalog Number	M5		M4				M5				M6				M8		M10		M12		M16							
KS1.5-20J BORE	*S1T	S1K	S1K																									
KS1.5-25J BORE	*S1T	S1K	S1K	S1K	S1K	S1K	S1K																					
KS1.5-30J BORE		*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K																	
KS2-20J BORE			*S1K	S1K	S1K	S1K	S1K	S1K																				
KS2-25J BORE				*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K															
KS2-30J BORE					*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K													
KS2.5-20J BORE						*S1K	S1K	S1K	S1K	S1K	S1K	S1K																
KS2.5-25J BORE							*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
KS2.5-30J BORE								*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KS3-20J BORE									*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
KS3-25J BORE										*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KS3-30J BORE											*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K									
KS4-20J BORE												*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K									
KS4-25J BORE													*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
KS4-30J BORE														*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
KS5-20J BORE															*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
KS5-25J BORE																*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KS5-30J BORE																	*S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			

To order J Series Hardened Plus, please specify: **Catalog No. + H + J + BORE**. Example: **KS1.5-20HJ10**

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

KS-H Hardened Spur Gear

recommended mating racks



KRF-H/KRFD-H Hardened Racks

Please see Page 232 for more details.

KS Thermal Refined Spur Gear

recommended mating racks



KRF/KRFD Thermal Refined Racks

Please see Page 238 for more details.