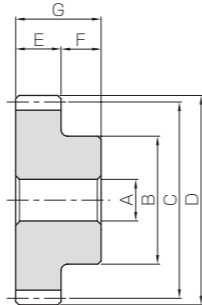


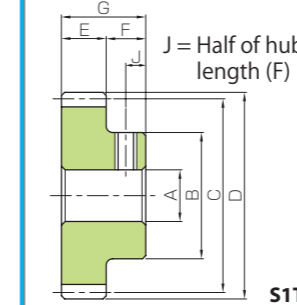


Specifications	
Precision grade	JIS grade N9 (JIS B1702-1: 1998)
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	S45C
Heat Treatment	—
Surface treatment	Black oxide coating

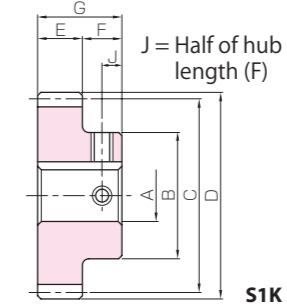
* The precision grade of J Series products is equivalent to the value shown in the table.



S1



S1T



S1K



Catalog Number	Module	No. of teeth	Direction of spiral	Shape	Bore		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									
KSN1-13R KSN1-13L	m1	13	R	S1	6	15	18.38	20.38	10	10	20	0.19	0.019	0.08~0.18	0.030
KSN1-15R KSN1-15L			L			18									
KSN1-20R KSN1-20L		20	R		8	25	28.28	30.28				0.66	0.068		
KSN1-26R KSN1-26L			L			30	36.77	38.77				1.42	0.14		
KSN1-30R KSN1-30L		30	R		10	35	42.43	44.43				2.14	0.22		
KSN1-26R KSN1-26L			L			40	55.15	58.15				4.51	0.46		
KSN1.5-10R KSN1.5-10L	m1.5	10	R	S1	8	16	21.21	24.21	15	10	25	0.29	0.029	0.10~0.22	0.17
KSN1.5-13R KSN1.5-13L			L			23	27.58	30.58							
KSN1.5-15R KSN1.5-15L		15	R		10	25	31.82	34.82				0.93	0.095		
KSN1.5-20R KSN1.5-20L			L			30	42.43	45.43				2.14	0.22		
KSN1.5-26R KSN1.5-26L		26	R		12	40	55.15	58.15				4.51	0.46		
KSN1.5-30R KSN1.5-30L			L			45	63.64	66.64				6.75	0.69		
KSN2-10R KSN2-10L	m2	10	R	S1	12	22	28.28	32.28	20	15	35	0.66	0.068	0.10~0.22	0.11
KSN2-13R KSN2-13L			L			30	36.77	40.77							
KSN2-15R KSN2-15L		15	R		15	35	42.43	46.43				2.14	0.22		
KSN2-20R KSN2-20L			L			45	56.57	60.57				4.84	0.49		
KSN2-26R KSN2-26L		26	R		20	60	73.54	77.54				10.1	1.03		
KSN2-30R KSN2-30L			L			65	84.85	88.85				15.0	1.53		

- [Caution on Product Characteristics]
- When mating screw gears are made of the same material, they may cause abrasion and scoring. It is recommended to mate screw gears composed of different materials.
 - The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 342 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.
 - For offset shaft applications, match a RH with a RH, or LH with a LH, to make a set of screw gears. For parallel shaft applications, mesh opposite hands (RH and LH) of helical gear sets. Please see Page 342 for more details.
 - 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.

- [Caution on Secondary Operations]
- Please read "Cautions on Performing Secondary Operations" (Page 343) 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.

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	32	35			
Keyway Js9	—		4x1.8				5x2.3				6x2.8				8x3.3				10x3.3	
Screw size	—		M4				M5				M6				M8					
Catalog Number	M4	M5	M4				M5				M6				M8					
KSN1-13R J BORE	S1T																			
KSN1-13L J BORE	S1T																			
KSN1-15R J BORE	S1T	S1T																		
KSN1-15L J BORE	S1T	S1T																		
KSN1-20R J BORE		S1T	S1K	S1K																
KSN1-20L J BORE		S1T	S1K	S1K																
KSN1-26R J BORE			S1K	S1K	S1K	S1K	S1K	S1K												
KSN1-26L J BORE			S1K	S1K	S1K	S1K	S1K	S1K												
KSN1-30R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KSN1-30L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KSN1.5-10R J BORE	S1T																			
KSN1.5-10L J BORE	S1T																			
KSN1.5-13R J BORE			S1K																	
KSN1.5-13L J BORE			S1K																	
KSN1.5-15R J BORE			S1K	S1K																
KSN1.5-15L J BORE			S1K	S1K																
KSN1.5-20R J BORE			S1K	S1K	S1K	S1K	S1K													
KSN1.5-20L J BORE			S1K	S1K	S1K	S1K	S1K													
KSN1.5-26R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KSN1.5-26L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KSN1.5-30R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KSN1.5-30L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KSN2-10R J BORE			S1K																	
KSN2-10L J BORE			S1K																	
KSN2-13R J BORE			S1K	S1K	S1K	S1K	S1K													
KSN2-13L J BORE			S1K	S1K	S1K	S1K	S1K													
KSN2-15R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KSN2-15L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KSN2-20R J BORE					S1K	S1K	S1K	S1K	S1K	S1K										
KSN2-20L J BORE					S1K	S1K	S1K	S1K	S1K	S1K										
KSN2-26R J BORE											S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSN2-26L J BORE											S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSN2-30R J BORE											S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSN2-30L J BORE											S1K	S1K	S1K	S1K	S1K	S1K	S1K			

- [Caution on J series]
- As available-on-request products, these require a lead-time for shipping within 2 working days (excludes the day ordered), after placing an order.
 - Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
 - Keyways are made according to JIS B1301 standards, Js9 tolerance.
 - Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.
 - Areas of products which have been re-worked will not be black oxide coated.
 - For products having a tapped hole, a set screw is included.
 - When using 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.