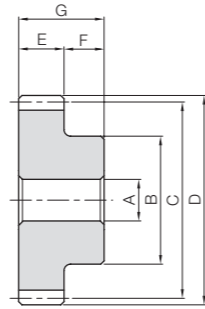


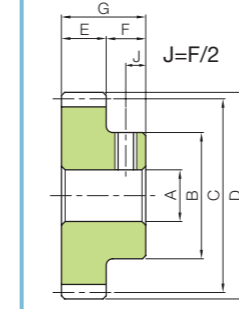


Specifications	
Precision grade	JIS grade N9 (JIS B1702-1: 1998)*
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	S45C
Heat treatment	—
Surface treatment	Black oxide coating

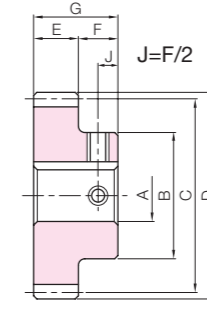
\* The precision grade of J Series products is equivalent to the value shown in the table.



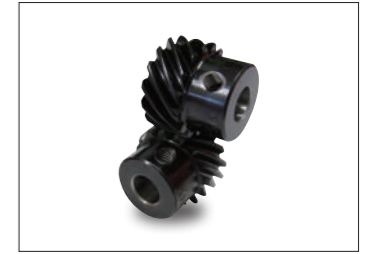
S1



S1T



S1K



To order Hardened Plus, please specify **Catalog No. + H**. Example: **SN1-13RH**

Catalog Number	Module	No. of teeth	Direction of helix	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Allowable torque				Backlash (mm)	Weight (kg)								
												Surface durability		Surface durability <b>H</b>											
												N·m	kgf·m	N·m	kgf·m										
SN1-13R SN1-13L	m1	13	R	S1	6	15	18.38	20.38	10	10	20	0.19	0.019	0.41	0.04	0.08~0.18	0.030								
SN1-15R SN1-15L			L									18	21.21	23.21	0.29			0.029	0.62	0.06					
SN1-20R SN1-20L		20	R			8	25	28.28				30.28	0.66	0.068	1.44			0.15							
SN1-26R SN1-26L			L			10	30	36.77				38.77	1.42	0.14	3.08			0.31							
SN1.5-10R SN1.5-10L		m1.5	10			R	S1	10				16	21.21	24.21	15			10	25	0.29	0.029	0.62	0.06	0.10~0.22	0.048
SN1.5-13R SN1.5-13L						L														23	27.58	30.58	0.62		
SN1.5-15R SN1.5-15L	15		R	25	31.82	34.82			0.93	0.095	2.03	0.21													
SN1.5-20R SN1.5-20L			L	30	42.43	45.43			2.14	0.22	4.64	0.47													
SN1.5-26R SN1.5-26L	26		R	40	55.15	58.15			4.51	0.46	9.80	1.00													
SN1.5-30R SN1.5-30L			L	45	63.64	66.64			6.75	0.69	14.7	1.50													
SN2-10R SN2-10L	m2	10	R	S1	12	22	28.28	32.28	20	15	35	0.66	0.068	1.44	0.15	0.12~0.26	0.11								
SN2-13R SN2-13L			L									30	36.77	40.77	1.42			0.14	3.08	0.31					
SN2-15R SN2-15L		15	R			35	42.43	46.43				2.14	0.22	4.64	0.47										
SN2-20R SN2-20L			L			45	56.57	60.57				4.84	0.49	10.5	1.07										
SN2-26R SN2-26L		26	R			60	73.54	77.54				10.1	1.03	22.0	2.24										
SN2-30R SN2-30L			L			65	84.85	88.85				15.0	1.53	32.7	3.34										

[Caution on Secondary Operations] ① See Page 22 for more details on Hardened Plus (H Series and HJ Series).

To order J Series products, please specify: **Catalog No. + J + BORE**. Example: **SN1-13RJ6**

Catalog Number	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 J <sub>S9</sub>		4×1.8				5×2.3				6×2.8				8×3.3				10×3.3			
SN1-13R J BORE	*																					
SN1-13L J BORE	*																					
SN1-15R J BORE	*																					
SN1-15L J BORE	*																					
SN1-20R J BORE		*																				
SN1-20L J BORE		*																				
SN1-26R J BORE			*																			
SN1-26L J BORE			*																			
SN1.5-10R J BORE		*																				
SN1.5-10L J BORE		*																				
SN1.5-13R J BORE			*																			
SN1.5-13L J BORE			*																			
SN1.5-15R J BORE			*																			
SN1.5-15L J BORE			*																			
SN1.5-20R J BORE				*																		
SN1.5-20L J BORE				*																		
SN1.5-26R J BORE				*																		
SN1.5-26L J BORE				*																		
SN1.5-30R J BORE				*																		
SN1.5-30L J BORE				*																		
SN2-10R J BORE				*																		
SN2-10L J BORE				*																		
SN2-13R J BORE				*																		
SN2-13L J BORE				*																		
SN2-15R J BORE				*																		
SN2-15L J BORE				*																		
SN2-20R J BORE					*																	
SN2-20L J BORE					*																	
SN2-26R J BORE						*																
SN2-26L J BORE						*																
SN2-30R J BORE						*																
SN2-30L J BORE						*																

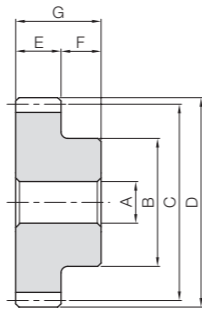
To order J Series Hardened Plus products, please specify: **Catalog No. + H + J + BORE**. Example: **SN1-15RHJ8**

[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.  
② "\*" is a product with the original bore diameter, so Hardened Plus is not available. See Page 22 for more details on Hardened Plus.

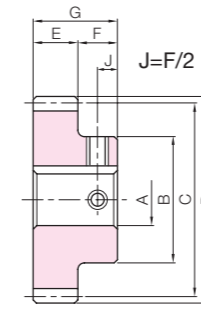


Specifications	
Precision grade	JIS grade N9 (JIS B1702-1:1998)*
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	S45C
Heat treatment	—
Surface treatment	Black oxide coating

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



S1



S1K



**H** To order Hardened Plus, please specify **Catalog No. + H**. Example: **SN2.5-10RH**

Catalog Number	Module	No. of teeth	Direction of helix	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Allowable torque				Backlash (mm)	Weight (kg)																							
												Surface durability		Surface durability <b>H</b>																										
												N·m	kgf·m	N·m	kgf·m																									
<b>SN2.5-10R</b> <b>SN2.5-10L</b>	m2.5	10	R	S1	12	26	35.36	40.36	22	16	38	1.27	0.13	2.75	0.28	0.14~0.28	0.20																							
<b>SN2.5-13R</b> <b>SN2.5-13L</b>			L															15	35	45.96	50.96	2.68	0.27	5.84	0.60															
<b>SN2.5-15R</b> <b>SN2.5-15L</b>		R	15															L	40	53.03	58.03	4.03	0.41	8.77	0.89															
<b>SN2.5-20R</b> <b>SN2.5-20L</b>		L																20	60	70.71	75.71	9.07	0.92	19.7	2.01															
<b>SN2.5-26R</b> <b>SN2.5-26L</b>		R	26															L	20	70	91.92	96.92	18.8	1.91	40.8	4.16	27.7	2.83	60.3	6.15	2.06									
<b>SN2.5-30R</b> <b>SN2.5-30L</b>		L																30														80	106.07	111.07						
<b>SN3-10R</b> <b>SN3-10L</b>		m3	10															R	S1	15	34	42.43	48.43	25	18	43	2.14	0.22	4.64	0.47	0.14~0.32	0.35								
<b>SN3-13R</b> <b>SN3-13L</b>																		L															20	45	55.15	61.15	4.51	0.46	9.80	1.00
<b>SN3-15R</b> <b>SN3-15L</b>			R															15															L	50	63.64	69.64	6.75	0.69	14.7	1.50
<b>SN3-20R</b> <b>SN3-20L</b>			L																														20	60	84.85	90.85	15.0	1.53	32.7	3.34
<b>SN3-26R</b> <b>SN3-26L</b>	R		26	L	20	80	110.31	116.31	30.8	3.14	67.0	6.84	45.4	4.62	98.6	10.1	3.29																							
<b>SN3-30R</b> <b>SN3-30L</b>	L			30														90															127.28	133.28						
<b>SN4-10R</b> <b>SN4-10L</b>	m4		10	R	S1	20	45	56.57	64.57	30	20	50	4.84	0.49	10.5	1.07	0.18~0.38	0.72																						
<b>SN4-13R</b> <b>SN4-13L</b>				L																													20	60	73.54	81.54	10.1	1.03	22.0	2.24
<b>SN4-15R</b> <b>SN4-15L</b>			R	15																													L	70	84.85	92.85	15.0	1.53	32.7	3.34
<b>SN4-20R</b> <b>SN4-20L</b>			L																														20	90	113.14	121.14	33.0	3.37	71.8	7.32
<b>SN4-26R</b> <b>SN4-26L</b>		R	26	L															20	100	147.08	155.08	66.7	6.80	145	14.8	66.7	6.80	145	14.8	5.11									
<b>SN4-26R</b> <b>SN4-26L</b>		L		26																																				

[Caution on Secondary Operations] ① See Page 22 for more details on Hardened Plus (H Series and HJ Series).

To order J Series products, please specify: **Catalog No. + J + BORE**. Example: **SN2.5-10RJ12**

Bore H7	* The product shapes of J Series items are identified by background color.																	
	Keyway J <sub>s9</sub>		12	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50
	4x1.8	5x2.3	6x2.8			8x3.3			10x3.3		12x3.3		14x3.8					
Catalog Number	M4		M5			M6			M8		M10							
<b>SN2.5-10R J BORE</b>	*																	
<b>SN2.5-10L J BORE</b>	*																	
<b>SN2.5-13R J BORE</b>		*																
<b>SN2.5-13L J BORE</b>		*																
<b>SN2.5-15R J BORE</b>		*																
<b>SN2.5-15L J BORE</b>		*																
<b>SN2.5-20R J BORE</b>								*										
<b>SN2.5-20L J BORE</b>								*										
<b>SN2.5-26R J BORE</b>								*										
<b>SN2.5-26L J BORE</b>								*										
<b>SN2.5-30R J BORE</b>								*										
<b>SN2.5-30L J BORE</b>								*										
<b>SN3-10R J BORE</b>		*																
<b>SN3-10L J BORE</b>		*																
<b>SN3-13R J BORE</b>								*										
<b>SN3-13L J BORE</b>								*										
<b>SN3-15R J BORE</b>								*										
<b>SN3-15L J BORE</b>								*										
<b>SN3-20R J BORE</b>								*										
<b>SN3-20L J BORE</b>								*										
<b>SN3-26R J BORE</b>								*										
<b>SN3-26L J BORE</b>								*										
<b>SN3-30R J BORE</b>								*										
<b>SN3-30L J BORE</b>								*										
<b>SN4-10R J BORE</b>								*										
<b>SN4-10L J BORE</b>								*										
<b>SN4-13R J BORE</b>								*										
<b>SN4-13L J BORE</b>								*										
<b>SN4-15R J BORE</b>								*										
<b>SN4-15L J BORE</b>								*										
<b>SN4-20R J BORE</b>								*										
<b>SN4-20L J BORE</b>								*										
<b>SN4-26R J BORE</b>								*										
<b>SN4-26L J BORE</b>								*										

To order J Series Hardened Plus products, please specify: **Catalog No. + H + J + BORE**. Example: **SN2.5-13RHJ16**

[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.

② "\*" is a product with the original bore diameter, so Hardened Plus is not available. See Page 22 for more details on Hardened Plus.