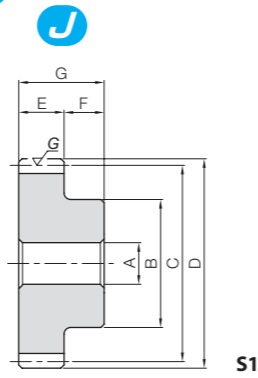




Specifications	
Precision grade	JIS grade N6 (JIS B1702-1: 1998)*
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
Transverse pressure angle	20°
Helix angle	21°30'
Material	SCM440
Heat treatment	Thermal refined, gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

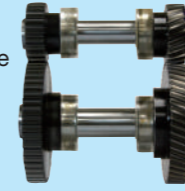
* The precision grade of J Series products is equivalent to the value shown in the table.



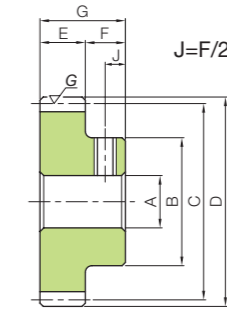
S1

Usable in the assembly distance of the spur gear.

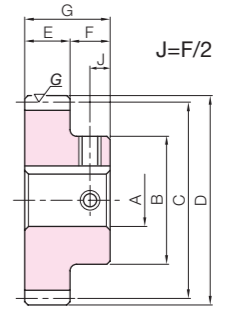
KHG ground helical gears use a "transverse" module. The assembly distance is the same as spur gear pairs with the same module and number of teeth. Improved strength and low noise: Take the next step up from spur gears.



J Series



S1T



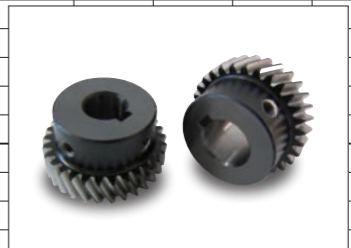
S1K

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

Catalog Number	No. of teeth	Direction of helix	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		
KHG1-20R KHG1-20L	20	R L	S1	6	17	20	22	8	10	18	7.79	4.98	0.79	0.51	0.08~0.16	0.034
KHG1-24R KHG1-24L	24	R L			20	24	26				10.1	7.43	1.03	0.76		
KHG1-28R KHG1-28L	28	R L			20	28	30				12.4	10.4	1.27	1.06		
KHG1-30R KHG1-30L	30	R L		10	25	30	32	13.6	12.1	1.39	1.23	0.072				
KHG1-35R KHG1-35L	35	R L			25	35	37	15.1	15.4	1.54	1.57	0.088				
KHG1-36R KHG1-36L	36	R L			25	36	38	15.7	16.3	1.60	1.67	0.091				
KHG1-40R KHG1-40L	40	R L		12	30	40	42	17.9	20.5	1.83	2.10	0.12				
KHG1-48R KHG1-48L	48	R L			30	48	50	22.5	30.5	2.29	3.11	0.16				
KHG1-50R KHG1-50L	50	R L			35	50	52	23.6	33.3	2.41	3.40	0.18				
KHG1-60R KHG1-60L	60	R L		15	40	60	62	29.3	49.4	2.99	5.04	0.26				
KHG1-70R KHG1-70L	70	R L			40	70	72	35.2	68.9	3.58	7.02	0.32				
KHG1-90R KHG1-90L	90	R L			50	90	92	46.9	118	4.78	12.1	0.53				

* The product shapes of J Series items are identified by background color.

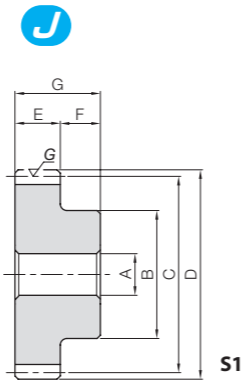
Bore H7	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30	
Keyway J _{s9}	-		4x1.8		5x2.3				6x2.8				8x3.3			
Screw size	-		4x1.8		5x2.3				6x2.8				8x3.3			
Catalog Number	M4	M5	M4				M5				M6					
KHG1-20R J BORE	S1T															
KHG1-20L J BORE	S1T															
KHG1-24R J BORE		S1T														
KHG1-24L J BORE		S1T														
KHG1-28R J BORE		S1T														
KHG1-28L J BORE		S1T														
KHG1-30R J BORE			S1K	S1K												
KHG1-30L J BORE			S1K	S1K												
KHG1-35R J BORE			S1K	S1K												
KHG1-35L J BORE			S1K	S1K												
KHG1-36R J BORE			S1K	S1K												
KHG1-36L J BORE			S1K	S1K												
KHG1-40R J BORE			S1K	S1K	S1K	S1K	S1K	S1K								
KHG1-40L J BORE			S1K	S1K	S1K	S1K	S1K	S1K								
KHG1-48R J BORE			S1K	S1K	S1K	S1K	S1K	S1K								
KHG1-48L J BORE			S1K	S1K	S1K	S1K	S1K	S1K								
KHG1-50R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K							
KHG1-50L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K							
KHG1-60R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
KHG1-60L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KHG1-70R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KHG1-70L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KHG1-90R J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
KHG1-90L J BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	





Specifications	
Precision grade	JIS grade N6 (JIS B1702-1: 1998)*
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
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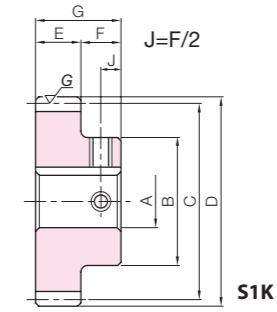
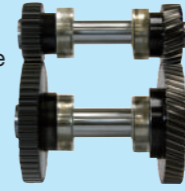
* The precision grade of J Series products is equivalent to the value shown in the table.



J Series

Usable in the assembly distance of the spur gear.

KHG ground helical gears use a "transverse" module. The assembly distance is the same as spur gear pairs with the same module and number of teeth. Improved strength and low noise: Take the next step up from spur gears.



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

Catalog Number	No. of teeth	Direction of helix	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																		
KHG1.5-20R KHG1.5-20L	20	R L	S1		24	30	33	12	12	24	26.3	18.5	2.68	1.89	0.08~0.16	0.088																
KHG1.5-22R KHG1.5-22L	22	R L			26	33	36				27.4	20.8	2.79	2.12			0.11															
KHG1.5-24R KHG1.5-24L	24	R L			28	36	39				30.9	25.3	3.15	2.58				0.13														
KHG1.5-25R KHG1.5-25L	25	R L			30	37.5	40.5				32.7	27.7	3.33	2.83					0.15													
KHG1.5-26R KHG1.5-26L	26	R L			32	39	42				34.5	30.2	3.52	3.08						0.17												
KHG1.5-28R KHG1.5-28L	28	R L			36	42	45				38.1	35.7	3.89	3.64							0.19											
KHG1.5-30R KHG1.5-30L	30	R L			38	45	48				41.8	41.6	4.26	4.24								0.22										
KHG1.5-32R KHG1.5-32L	32	R L			40	48	51				45.5	48.0	4.64	4.89									0.26									
KHG1.5-36R KHG1.5-36L	36	R L			45	54	57				52.9	62.2	5.40	6.35										0.33								
KHG1.5-40R KHG1.5-40L	40	R L			50	60	63				60.5	78.5	6.17	8.00											0.42							
KHG1.5-48R KHG1.5-48L	48	R L			50	72	75				75.8	117	7.73	12.0												0.52						
KHG1.5-50R KHG1.5-50L	50	R L			60	75	78				79.6	128	8.12	13.1													0.63					
KHG1.5-52R KHG1.5-52L	52	R L			60	78	81				83.5	140	8.51	14.2														0.67				
KHG1.5-60R KHG1.5-60L	60	R L			60	90	93				99.1	191	10.1	19.5															0.81			
KHG1.5-80R KHG1.5-80L	80	R L			70	120	123				132	343	13.5	35.0																1.37		
KHG1.5-90R KHG1.5-90L	90	R L			70	135	138				151	442	15.4	45.1																	1.65	
KHG1.5-100R KHG1.5-100L	100	R L			70	150	153				170	554	17.4	56.5																		1.97

Bore H7	* The product shapes of J Series items are identified by background color.																							
	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40									
Keyway Js9	4x1.8				5x2.3				6x2.8				8x3.3				10x3.3				12x3.3			
Screw size	M4				M5				M6				M8											
Catalog Number	S1K				S1K				S1K				S1K				S1K							
KHG1.5-20R J BORE	S1K																							
KHG1.5-20L J BORE	S1K																							
KHG1.5-22R J BORE	S1K																							
KHG1.5-22L J BORE	S1K																							
KHG1.5-24R J BORE	S1K	S1K	S1K																					
KHG1.5-24L J BORE	S1K	S1K	S1K																					
KHG1.5-25R J BORE	S1K	S1K	S1K	S1K	S1K																			
KHG1.5-25L J BORE	S1K	S1K	S1K	S1K	S1K																			
KHG1.5-26R J BORE	S1K	S1K	S1K	S1K	S1K																			
KHG1.5-26L J BORE	S1K	S1K	S1K	S1K	S1K																			
KHG1.5-28R J BORE			S1K	S1K	S1K	S1K	S1K	S1K																
KHG1.5-28L J BORE			S1K	S1K	S1K	S1K	S1K	S1K																
KHG1.5-30R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K															
KHG1.5-30L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K															
KHG1.5-32R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K															
KHG1.5-32L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K															
KHG1.5-36R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K														
KHG1.5-36L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K														
KHG1.5-40R J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K												
KHG1.5-40L J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KHG1.5-48R J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KHG1.5-48L J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K											
KHG1.5-50R J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KHG1.5-50L J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KHG1.5-52R J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KHG1.5-52L J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
KHG1.5-60R J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-60L J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-80R J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-80L J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-90R J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-90L J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-100R J BORE										S1K	S1K	S1K	S1K	S1K	S1K									
KHG1.5-100L J BORE										S1K	S1K	S1K	S1K	S1K	S1K									



