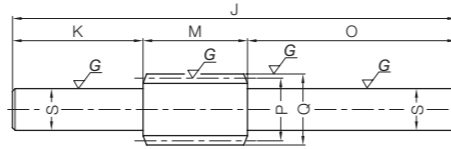




Specifications	
Precision grade	KHK W 001 grade 2
Reference section of gear	Axial direction
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	SCM440
Heat treatment	Thermal refined, gear teeth induction hardened*
Tooth hardness	50 to 60HRC



W5

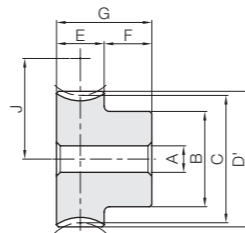
\* Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).

Catalog Number	Axial module	Number of Starts	Nominal lead angle	Direction of helix	Shape	Total Length		Neck length (left)	Face width	Neck length (right)	Shaft length (R)	Pitch dia.
						J	K					
<b>KWG0.5-R1</b> <b>KWG0.5-R2</b>	<b>m0.5</b>	1 2	3°11' 6°20'	R	W5	65	19	—	12	—	34	9
<b>KWG0.8-R1</b> <b>KWG0.8-R2</b>	<b>m0.8</b>	1 2	3°49' 7°36'	R	W5	85	25	—	20	—	40	12

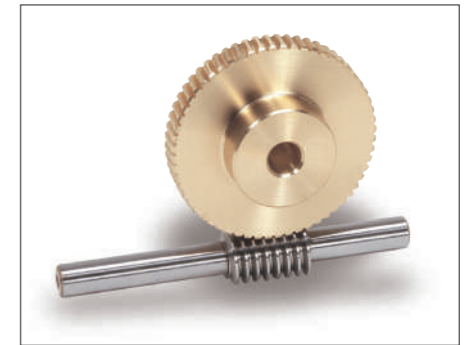
Outside dia.	Neck dia.	Shaft dia.	Grinding length of shaft	Weight (kg)	Catalog Number
Q	R	Sh7	U		
10	—	6	—	0.018	<b>KWG0.5-R1</b> <b>KWG0.5-R2</b>
13.6	—	8	—	0.043	<b>KWG0.8-R1</b> <b>KWG0.8-R2</b>



Specifications	
Precision grade	KHK W 002 grade 2
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	CAC702 (old JIS A & BC2)
Heat Treatment	—
Tooth hardness	—



HA



Catalog Number	Reduction ratio	Transverse module	No. of teeth	No. of starts of mating worm	Lead angle	Direction of helix	Shape	Bore	Hub dia.	Pitch dia.	Throat dia.	Outside dia.	Face width	Hub width						
								AH7	B	C	D	D'	E	F						
<b>AG0.5-20R1</b> <b>AG0.5-20R2</b>	20 10	<b>m0.5</b>	20 20	1 2	3°11' 6°20'	R	HA	4 4	9 9	10 10	—	11 11	5	7						
<b>AG0.5-30R1</b> <b>AG0.5-40R1</b>	30 40		30 40	1 1	3°11' 3°11'			4 5	12 15	15 20		16 21								
<b>AG0.5-50R1</b> <b>AG0.5-60R1</b>	50 60		50 60	1 1	3°11' 3°11'			5 5	20 25	25 30		26 31								
<b>AG0.8-20R1</b> <b>AG0.8-20R2</b>	20 10		<b>m0.8</b>	20 20	1 2			3°49' 7°36'	R	HA		5 5			12 12	16 16	—	17.6 17.6	8	8
<b>AG0.8-30R1</b> <b>AG0.8-30R2</b>	30 15			30 30	1 2			3°49' 7°36'				5 5			18 18	24 24		25.6 25.6		
<b>AG0.8-40R1</b>	40			40	1			3°49'				6			20	32		33.6		
<b>AG0.8-50R1</b> <b>AG0.8-60R1</b>	50 60	50 60		1 1	3°49' 3°49'	8 8	25 25	40 48			41.6 49.6									

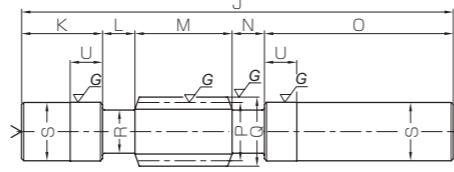
Total length	Web thickness	Web O.D.	Mounting distance	Allowable torque (N·m) <small>NOTE 1</small>							Backlash (mm)	Weight (kg)	Catalog Number
				30 rpm	100 rpm	300 rpm	600 rpm	900 rpm	1200 rpm	1800 rpm			
12	—	—	9.5	0.52	0.44	0.36	0.30	0.26	0.24	0.21	0.02~0.12	0.0056	<b>AG0.5-20R1</b> <b>AG0.5-20R2</b> <b>AG0.5-30R1</b> <b>AG0.5-40R1</b> <b>AG0.5-50R1</b> <b>AG0.5-60R1</b>
				0.51	0.42	0.33	0.27	0.24	0.22	0.19			
				1.09	0.94	0.77	0.65	0.58	0.53	0.48			
				1.86	1.60	1.34	1.15	1.02	0.94	0.84			
				2.82	2.42	2.05	1.77	1.58	1.46	1.30			
16	—	—	14	1.78	1.50	1.21	1.00	0.88	0.82	0.71	0.02~0.12	0.018	<b>AG0.8-20R1</b> <b>AG0.8-20R2</b> <b>AG0.8-30R1</b> <b>AG0.8-30R2</b> <b>AG0.8-40R1</b>
				1.76	1.44	1.11	0.91	0.80	0.74	0.63			
				3.77	3.21	2.62	2.20	1.96	1.81	1.61			
				3.75	3.14	2.46	2.02	1.80	1.65	1.45			
				6.45	5.49	4.55	3.87	3.46	3.19	2.83			
—	—	—	26	9.75	8.31	6.94	5.94	5.34	4.96	4.38	0.10	<b>AG0.8-50R1</b> <b>AG0.8-60R1</b>	
				13.6	11.7	9.77	8.39	7.63	7.05	6.27			0.14

[NOTE 1] Allowable torque based on worm speed (rpm).



Specifications	
Precision grade	KHK W 001 grade 2
Reference section of gear	Axial direction
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	SCM440
Heat treatment	Thermal refined, gear teeth induction hardened*
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for ground part

\* Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



W6

Catalog Number	Axial module	Number of Starts	Nominal lead angle	Direction of helix	Shape	Total Length		Shaft length (L)		Face width	Neck length (right)		Shaft length (R)	Pitch dia.
						J	K	L	M		N	O		
KWG1-R1 KWG1-R2	m1	1 2	3°35' 7°08'	R	W6	140	35	10	30	10	55	16		
KWG1.5-R1 KWG1.5-R2	m1.5	1 2	3°26' 6°51'	R	W6	190	50	15	40	15	70	25		

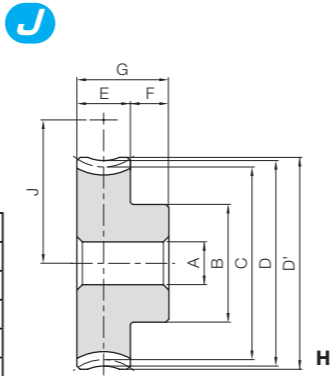
Outside dia.	Neck dia.	Shaft dia.	Grinding length of shaft	Weight (kg)	Catalog Number
Q	R	S	U		
18	13	18.2	20	0.25	KWG1-R1 KWG1-R2
28	21	26.2	20	0.74	KWG1.5-R1 KWG1.5-R2



Specifications	
Precision grade	KHK W 002 grade 2*
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	CAC702 (old JIS A & BC2)
Heat Treatment	—
Tooth hardness	—

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

A <sub>H7</sub>	Bore
B	Hub dia.
C	Pitch dia.
D	Throat dia.
D'	Outside dia.
E	Face width
F	Hub width
G	Total length
J	Mounting distance

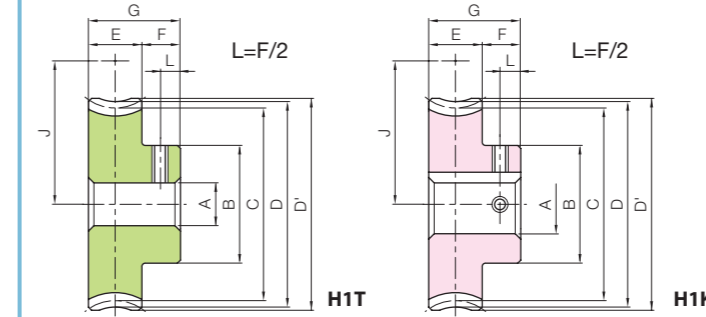


H1

Catalog Number	Reduction ratio	No. of teeth	No. of starts of mating worm	Lead angle helix direction	Shape	A <sub>H7</sub>	B	C	D	D'	E	F	G	J	Allowable torque (N·m) <small>NOTE 1</small>							Backlash (mm)	Weight (kg)			
															30 rpm	100 rpm	300 rpm	600 rpm	900 rpm	1200 rpm	1800 rpm					
AG1-20R1	20	20	1	3°35'	R	H1	6	16	20	22	23			18	3.35	2.79	2.23	1.83	1.63	1.50	1.30	0.04~0.14	0.038			
AG1-20R2	10	20	2	7°08'			6	16	20	22	23				18	3.31	2.69	2.06	1.68	1.48	1.35	1.15		0.038		
AG1-30R1	30	30	1	3°35'			6	20	30	32	33				23	7.08	5.98	4.84	4.05	3.63	3.31	2.92		0.078		
AG1-30R2	15	30	2	7°08'			6	20	30	32	33	10	10	20	23	7.03	5.84	4.56	3.72	3.33	3.03	2.63		0.078		
AG1-40R1	40	40	1	3°35'			8	26	40	42	43				28	12.1	10.2	8.43	7.12	6.38	5.86	5.13		0.13		
AG1-50R1	50	50	1	3°35'			8	30	50	52	53				33	18.3	15.5	12.9	10.9	9.87	9.09	7.95		0.20		
AG1-60R1	60	60	1	3°35'			10	35	60	62	63				38	25.6	21.8	18.1	15.4	14.1	12.9	11.4		0.29		
AG1.5-20R1	20	20	1	3°26'			R	H1	8	22	30	33	34.5			27.5	9.84	8.18	6.40	5.30	4.68	4.25	3.68		0.10	
AG1.5-20R2	10	20	2	6°51'					8	22	30	33	34.5				27.5	9.72	7.87	5.92	4.87	4.25	3.83	3.27		0.10
AG1.5-30R1	30	30	1	3°26'					10	30	45	48	49.5				35	20.8	17.5	13.9	11.7	10.4	9.40	8.28		0.22
AG1.5-30R2	15	30	2	6°51'					10	30	45	48	49.5	14	10	24	35	20.7	17.1	13.1	10.8	9.56	8.58	7.46		0.22
AG1.5-40R1	40	40	1	3°26'					12	35	60	63	64.5				42.5	35.6	30.0	24.2	20.6	18.3	16.6	14.6		0.37
AG1.5-50R1	50	50	1	3°26'	12	45			75	78	79.5				50	53.8	45.4	36.9	31.6	28.3	25.8	22.6		0.59		
AG1.5-60R1	60	60	1	3°26'	12	50			90	93	94.5				57.5	75.3	63.8	51.9	44.7	40.4	36.7	32.4		0.83		

[NOTE 1] Allowable torque based on worm speed (rpm).

## J Series



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	
Keyway JS9	—		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					
AG1-20R1 J BORE																
AG1-20R2 J BORE																
AG1-30R1 J BORE																
AG1-30R2 J BORE																
AG1-40R1 J BORE																
AG1-50R1 J BORE																
AG1-60R1 J BORE																
AG1.5-20R1 J BORE																
AG1.5-20R2 J BORE																
AG1.5-30R1 J BORE																
AG1.5-30R2 J BORE																
AG1.5-40R1 J BORE																
AG1.5-50R1 J BORE																
AG1.5-60R1 J BORE																

[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.