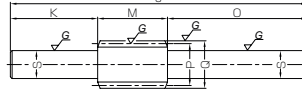




Specifications	
Precision grade	KHK W 001 grade 2
Reference section of gear	Axial
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	SCM440
Heat treatment	Thermal refined, tooth surface induction hardened
Tooth hardness	50 ~ 60HRC



W5

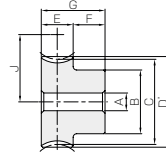
Catalog No.	Axial module	Number of starts	Lead angle	Hand thread	Shape	Total length		Neck length (L)	Face width	Neck length (R)	Shaft length (R)	Pitch dia.
						J	K					
KWG0.5-R1	m0.5	1	3°11'	R	W5	65	19	—	12	—	34	9
KWG0.5-R2		2	6°20'	R	W5	65	19	—	12	—	34	9
KWG0.8-R1	m0.8	1	3°49'	R	W5	85	25	—	20	—	40	12
KWG0.8-R2		2	7°36'	R	W5	85	25	—	20	—	40	12

[Caution on Product Characteristics] ① These worms produce axial thrust forces. See Page 344 for more details.

* For products not categorized in our KHK Stock Gear series, custom gear production services with **short lead times** is available. For details see Page 8.



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 (formerly JIS A2/BC2)
Heat treatment	—
Tooth hardness	—



HA

Catalog No.	Reduction ratio	Transverse module	No. of teeth	Number of starts	Helix angle	Hand thread	Shape	Bore		Pitch dia.	Throat dia.	Outside dia.	Face width
								A _{H7}	B				
AG0.5-20R1	20	m0.5	20	1	3°11'	R	HA	4	9	10	—	11	5
AG0.5-20R2	10		20	2	6°20'	R	HA	4	9	10	—	11	5
AG0.5-30R1	30		30	1	3°11'	R	HA	4	12	15	—	16	5
AG0.5-30R2	15		30	2	6°20'	R	HA	4	12	15	—	16	5
AG0.5-40R1	40		40	1	3°11'	R	HA	5	15	20	—	21	5
AG0.5-50R1	50	m0.5	50	1	3°11'	R	HA	5	20	25	—	26	5
AG0.5-60R1	60		60	1	3°11'	R	HA	5	25	30	—	31	5
AG0.8-20R1	20	m0.8	20	1	3°49'	R	HA	5	12	16	—	17.6	8
AG0.8-20R2	10		20	2	7°36'	R	HA	5	12	16	—	17.6	8
AG0.8-30R1	30		30	1	3°49'	R	HA	5	18	24	—	25.6	8
AG0.8-30R2	15		30	2	7°36'	R	HA	5	18	24	—	25.6	8
AG0.8-40R1	40		40	1	3°49'	R	HA	6	20	32	—	33.6	8
AG0.8-50R1	50	m0.8	50	1	3°49'	R	HA	8	25	40	—	41.6	8
AG0.8-60R1	60		60	1	3°49'	R	HA	8	25	48	—	49.6	8

[Caution on Product Characteristics] ① The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see Page 342 for more details.

Outside dia.	Neck dia.	Shaft dia.	Weight (kg)	Catalog No.
Q	R	S _{H7}		
10	—	6	0.018	KWG0.5-R1
10	—	6	0.018	KWG0.5-R2
13.6	—	8	0.043	KWG0.8-R1
13.6	—	8	0.043	KWG0.8-R2

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 344) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
② 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). Use carbide tools for the modification of the shaft area near the bottom land.



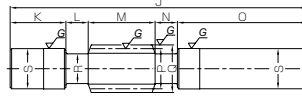
NOTE 1: Allowable torque for worm revolution (rpm)

Hub width	Total length	Web thickness (H)	Web O.D. (I)	Mounting distance J	Allowable torque (N·m) NOTE 1								Backlash (mm)	Weight (kg)	Catalog No.
					30 rpm	100 rpm	300 rpm	600 rpm	900 rpm	1200 rpm	1800 rpm				
7	12	—	—	9.5	0.52	0.44	0.36	0.30	0.26	0.24	0.21	0.02~0.14	0.0056	AG0.5-20R1	
7	12	—	—	9.5	0.51	0.42	0.33	0.27	0.24	0.22	0.19	0.02~0.14	0.0056	AG0.5-20R2	
7	12	—	—	12	1.09	0.94	0.77	0.65	0.58	0.53	0.48	0.02~0.14	0.012	AG0.5-30R1	
7	12	—	—	12	1.09	0.92	0.73	0.60	0.54	0.49	0.43	0.02~0.14	0.012	AG0.5-30R2	
7	12	—	—	14.5	1.86	1.60	1.34	1.15	1.02	0.94	0.84	0.02~0.14	0.020	AG0.5-40R1	
7	12	—	—	17	2.82	2.42	2.05	1.77	1.58	1.46	1.30	0.02~0.14	0.035	AG0.5-50R1	
7	12	—	—	19.5	3.94	3.41	2.89	2.50	2.26	2.08	1.87	0.02~0.14	0.053	AG0.5-60R1	
8	16	—	—	14	1.78	1.50	1.21	1.00	0.88	0.82	0.71	0.06~0.17	0.018	AG0.8-20R1	
8	16	—	—	14	1.76	1.44	1.11	0.91	0.80	0.74	0.63	0.06~0.17	0.018	AG0.8-20R2	
8	16	—	—	18	3.77	3.21	2.62	2.20	1.96	1.81	1.61	0.06~0.17	0.043	AG0.8-30R1	
8	16	—	—	18	3.75	3.14	2.46	2.02	1.80	1.65	1.45	0.06~0.17	0.043	AG0.8-30R2	
8	16	—	—	22	6.45	5.49	4.55	3.87	3.46	3.19	2.83	0.06~0.17	0.068	AG0.8-40R1	
8	16	—	—	26	9.75	8.31	6.94	5.94	5.34	4.96	4.38	0.06~0.17	0.10	AG0.8-50R1	
8	16	—	—	30	13.6	11.7	9.77	8.39	7.63	7.05	6.27	0.06~0.17	0.14	AG0.8-60R1	

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 344) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.



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



W6

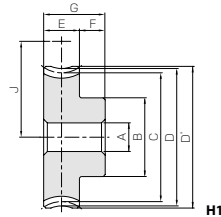
Catalog No.	Axial module	Number of starts	Lead angle	Hand thread	Shape	Total length		Shaft length (L)		Neck length (L)		Face width		Neck length (R)		Shaft length (P)		Pitch dia.	
						J	K	L	M	N	O	P							
KWG1-R1	m1	1	3°35'	R	W6	140	35	10	30	10	55	16							
KWG1-R2		2	7°08'	R	W6	140	35	10	30	10	55	16							
KWG1.5-R1	m1.5	1	3°26'	R	W6	190	50	15	40	15	70	25							
KWG1.5-R2		2	6°51'	R	W6	190	50	15	40	15	70	25							

[Caution on Product Characteristics] ① These worms produce axial thrust forces. See Page 344 for more details.



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 (formerly JIS AIBC2)
Heat treatment	—
Tooth hardness	—
Module	m1 m1.5
Face width (E)	10 14
Hub width (F)	10 10
Total length (G)	20 24
Screw offset (L)	5 5

A _{H7}	Bore
B	Hub dia.
C	Pitch dia.
D	Throat dia.
D'	Outside dia.
(H)	Web thickness
(I)	Web O.D.
J	Mounting distance



H1

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

NOTE 1: Allowable torque for worm revolution (rpm)

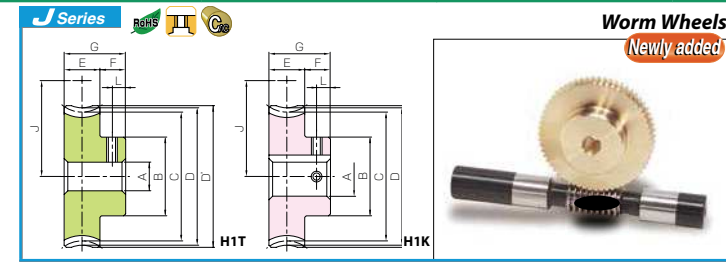
Catalog No.	Reduction ratio	No. of teeth	Number of starts	Helix angle	Hand thread	Shape	A _{H7}	B	C	D	D'	(H)	(I)	J	Allowable torque (N·m) NOTE 1						Backlash (mm)	Weight (kg)	
															30 rpm	100 rpm	300 rpm	600 rpm	900 rpm	1200 rpm			1800 rpm
AG1-20R1	20	20	1	3°35'	R	H1	6	16	20	22	23	—	—	18	3.35	2.79	2.23	1.83	1.63	1.50	1.30	0.08~0.19	0.038
AG1-20R2	10	20	2	7°08'	R	H1	6	16	20	22	23	—	—	18	3.31	2.69	2.06	1.68	1.48	1.35	1.15	0.08~0.19	0.038
AG1-30R1	30	30	1	3°35'	R	H1	6	20	30	32	33	—	—	23	7.08	5.98	4.84	4.05	3.63	3.31	2.92	0.08~0.19	0.078
AG1-30R2	15	30	2	7°08'	R	H1	6	20	30	32	33	—	—	23	7.03	5.84	4.56	3.72	3.33	3.03	2.63	0.08~0.19	0.078
AG1-40R1	40	40	1	3°35'	R	H1	8	26	40	42	43	—	—	28	12.1	10.2	8.43	7.12	6.38	5.86	5.13	0.08~0.19	0.13
AG1-50R1	50	50	1	3°35'	R	H1	8	30	50	52	53	—	—	33	18.3	15.5	12.9	10.9	9.87	9.09	7.95	0.08~0.19	0.20
AG1-60R1	60	60	1	3°35'	R	H1	10	35	60	62	63	—	—	38	25.6	21.8	18.1	15.4	14.1	12.9	11.4	0.08~0.19	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	0.10~0.21	0.10
AG1.5-20R2	10	20	2	6°51'	R	H1	8	22	30	33	34.5	—	—	27.5	9.72	7.87	5.92	4.87	4.25	3.83	3.27	0.10~0.21	0.10
AG1.5-30R1	30	30	1	3°26'	R	H1	10	30	45	48	49.5	—	—	35	20.8	17.5	13.9	11.7	10.4	9.40	8.28	0.10~0.21	0.22
AG1.5-30R2	15	30	2	6°51'	R	H1	10	30	45	48	49.5	—	—	35	20.7	17.1	13.1	10.8	9.56	8.58	7.46	0.10~0.21	0.22
AG1.5-40R1	40	40	1	3°26'	R	H1	12	35	60	63	64.5	—	—	42.5	35.6	30.0	24.2	20.6	18.3	16.6	14.6	0.10~0.21	0.37
AG1.5-50R1	50	50	1	3°26'	R	H1	12	45	75	78	79.5	—	—	50	53.8	45.4	36.9	31.6	28.3	25.8	22.6	0.10~0.21	0.59
AG1.5-60R1	60	60	1	3°26'	R	H1	12	50	90	93	94.5	—	—	57.5	75.3	63.8	51.9	44.7	40.4	36.7	32.4	0.10~0.21	0.83

[Caution on Product Characteristics] ① The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see Page 342 for more details.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 344) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.

Outside dia.	Neck dia.	Shaft dia.	Weight (kg)	Catalog No.
18	13	18.2	0.25	KWG1-R1
18	13	18.2	0.25	KWG1-R2
28	21	26.2	0.74	KWG1.5-R1
28	21	26.2	0.74	KWG1.5-R2

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 344) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
② 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). Use carbide tools for the modification of the shaft area near the bottom land.



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.															
Keyway Js9	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30	
Screw size	—			4 x 1.8				5 x 2.3				6 x 2.8			8 x 3.3	
Catalog No.	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 As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
② 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.
③ Keyways are made according to JIS B1301 standards, Js9 tolerance.
④ Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.
⑤ For products having a tapped hole, a set screw is included.