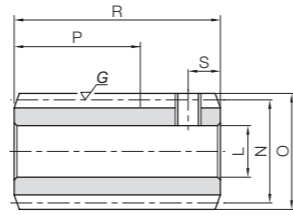
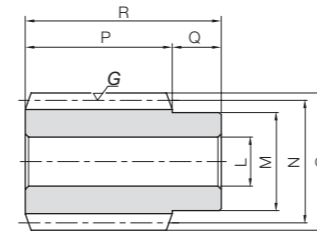


Specifications	
Precision grade	KHK W 001 grade 2*
Reference section of gear	Axial direction
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for ground part

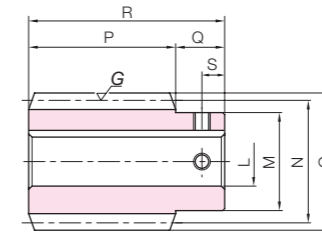


W2



W1

J Series



W1K



Catalog Number ● : J Series (Available-on-request)	Axial module	Number of Starts	Nominal lead angle	Direction of helix	Shape	Bore		Pitch dia.	Outside dia.	Face width	Hub width (right)		Hub width (left)	
						L <sub>H7</sub>	M				N	O	P	Q
SWG1-R1 SWG1-R2	m1	1 2	3°35' 7°08'	R	W2	8	—	16	18	(20)	—	—	—	—
SWG1.5-R1 ● SWG1.5-R1J10	m1.5	1	3°26'	R	W1 W1K	10	20	25	28	30	10	—	—	—
SWG1.5-R2 ● SWG1.5-R2J10		2	6°51'		W1 W1K									

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

Total length	Keyway	Socket head screw	Weight	Catalog Number	
R	Width × Depth	Size	(kg)	● : J Series (Available-on-request)	
32	—	M4	5	0.037	SWG1-R1 SWG1-R2
40	—	—	—	0.12	SWG1.5-R1
	4 x 1.8	M4	5	0.11	● SWG1.5-R1J10
	—	—	—	0.12	SWG1.5-R2
	4 x 1.8	M4	5	0.11	● SWG1.5-R2J10

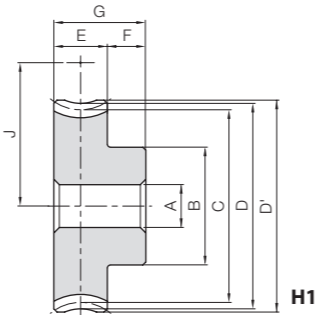


Worm Wheels

AG Module 1, 1.5  
Worm Wheels



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	—



H1

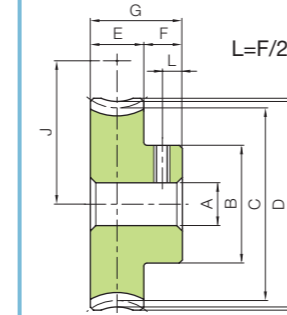
A <sub>H7</sub>	Bore
B	Hub dia.
C	Pitch dia.
D	Throat dia.
D'	Outside dia.
E	Face width
F	Hub width
G	Total length
J	Mounting distance

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

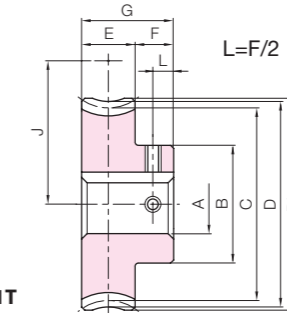
NOTE 1: Allowable torque based on worm speed (rpm)

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) 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'		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	0.04~0.14	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	0.04~0.14	0.078	
AG1-30R2	15	30	2	7°08'	R	6	20	30	32	33	10	10	20	23	7.03	5.84	4.56	3.72	3.33	3.03	2.63	0.04~0.14	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	0.04~0.14	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	0.04~0.14	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	0.04~0.14	0.29	
AG1.5-20R1	20	20	1	3°26'		8	22	30	33	34.5				27.5	9.84	8.18	6.40	5.30	4.68	4.25	3.68	0.04~0.14	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	0.04~0.14	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	0.04~0.14	0.22	
AG1.5-30R2	15	30	2	6°51'	R	10	30	45	48	49.5	14	10	24	35	20.7	17.1	13.1	10.8	9.56	8.58	7.46	0.04~0.14	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	0.04~0.14	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	0.04~0.14	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	0.04~0.14	0.83	

J Series



H1T



H1K

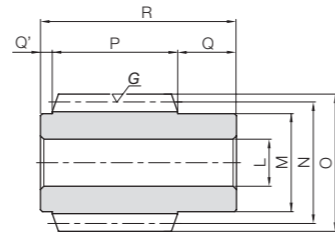


To order J Series products, please specify: **Catalog No. + J + BORE.**

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		4x1.8			5x2.3			6x2.8			8x3.3					
Catalog Number	M4	M5	M4			M5			M6								
AG1-20R1 J BORE	H1T																
AG1-20R2 J BORE	H1T																
AG1-30R1 J BORE	H1T	H1T															
AG1-30R2 J BORE	H1T	H1T															
AG1-40R1 J BORE		H1T	H1K	H1K													
AG1-50R1 J BORE		H1T	H1K	H1K	H1K	H1K	H1K	H1K									
AG1-60R1 J BORE			H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K							
AG1.5-20R1 J BORE		H1T	H1K														
AG1.5-20R2 J BORE		H1T	H1K														
AG1.5-30R1 J BORE			H1K	H1K	H1K	H1K	H1K	H1K									
AG1.5-30R2 J BORE			H1K	H1K	H1K	H1K	H1K	H1K									
AG1.5-40R1 J BORE				H1K	H1K	H1K	H1K	H1K	H1K	H1K							
AG1.5-50R1 J BORE					H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K				
AG1.5-60R1 J BORE						H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K



Specifications	
Precision grade	KHK W 001 grade 2*
Reference section of gear	Axial direction
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for ground part

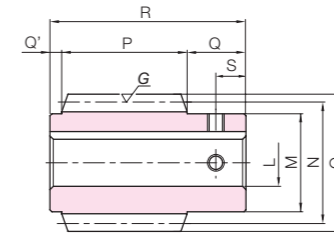


W3

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

Catalog Number ● : J Series (Available-on-request)	Axial module	Number of Starts	Nominal lead angle	Direction of helix	Shape	Bore		Pitch dia.	Outside dia.	Face width	Hub width (right)	Hub width (left)
						L <sub>H7</sub>	M					
SWG2-R1 ● SWG2-R1J12 ● SWG2-R1J14	m2	1	3°41'	R	W3 W3K	12	25	31	35	32	15	3
14												
SWG2-R2 ● SWG2-R2J12 ● SWG2-R2J14	m2	2	7°21'	R	W3 W3K	12	25	31	35	32	15	3
12												
SWG2.5-R1 ● SWG2.5-R1J15 ● SWG2.5-R1J16 ● SWG2.5-R1J17	m2.5	1	3°52'	R	W3 W3K	15	30	37	42	45	17	3
16												
SWG2.5-R2 ● SWG2.5-R2J15 ● SWG2.5-R2J16 ● SWG2.5-R2J17	m2.5	2	7°42'	R	W3 W3K	15	30	37	42	45	17	3
16												

J Series



W3K



Total length R	Keyway Width × Depth	Socket head screw		Weight (kg)	Catalog Number ● : J Series (Available-on-request)
		Size	S		
50	—	—	—	0.21	SWG2-R1
	4 × 1.8	M4	7.5	0.21	● SWG2-R1J12
	5 × 2.3	M4	7.5	0.19	● SWG2-R1J14
65	—	—	—	0.21	SWG2-R2
	4 × 1.8	M4	7.5	0.21	● SWG2-R2J12
	5 × 2.3	M4	7.5	0.19	● SWG2-R2J14
65	—	—	—	0.40	SWG2.5-R1
	5 × 2.3	M4	8.5	0.39	● SWG2.5-R1J15
	5 × 2.3	M4	8.5	0.38	● SWG2.5-R1J16
65	—	—	—	0.37	● SWG2.5-R1J17
	5 × 2.3	M4	8.5	0.39	● SWG2.5-R2J15
	5 × 2.3	M4	8.5	0.38	● SWG2.5-R2J16
65	—	—	—	0.37	● SWG2.5-R2J17

AG Module 2, 2.5  
Worm Wheels

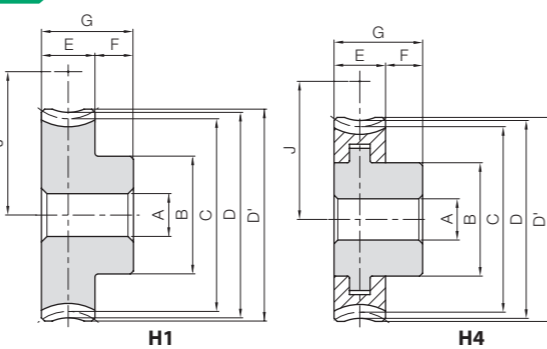


Specifications	
Precision grade	KHK W 002 grade 2*
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	CAC702 (old JIS A & BC2)**
Heat treatment	—
Tooth hardness	—

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
(H)	Web thickness
(I)	Web O.D.
J	Mounting distance

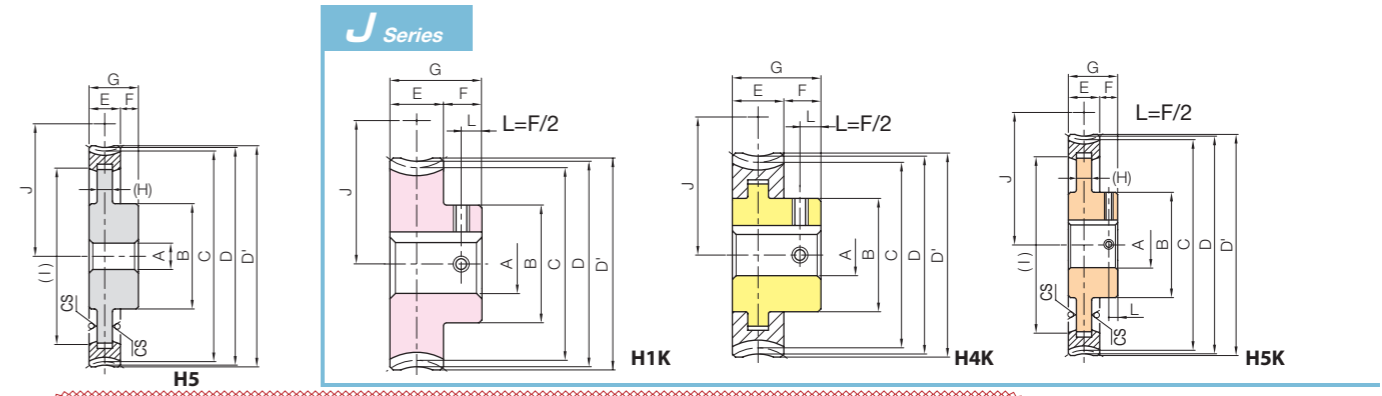
\* The precision grade of J Series products is equivalent to the value shown in the table.  
\*\* The hub material of H4 and H5 is FC200. FC200's tensile strength (200N/mm<sup>2</sup>) is derived from test specimens and does not represent that of the boss.

NOTE 1: Allowable torque based on worm speed (rpm)



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	(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			
AG2-20R1	20	20	1	3°41'	H1	12	33	40	44	46	—	—	—	—	—	—	35.5	21.0	17.5	13.6	11.2	9.84	8.94	7.75	0.06~0.16	0.26
AG2-20R2	10	20	2	7°21'	H1	12	33	40	44	46	—	—	—	—	—	—	35.5	20.7	16.8	12.6	10.3	8.93	8.05	6.89		
AG2-30R1	30	30	1	3°41'	H4	12	40	60	64	66	—	—	—	—	—	—	45.5	44.3	37.3	29.6	24.8	21.9	19.8	17.4	0.06~0.16	0.51
AG2-30R2	15	30	2	7°21'	H4	12	40	60	64	66	—	—	—	—	—	—	45.5	44.0	36.5	27.8	22.8	20.1	18.0	15.7		
AG2-40R1	40	40	1	3°41'	H4	12	45	80	84	86	18	15	33	—	—	—	55.5	75.8	64.0	51.4	43.6	38.5	34.9	30.7	0.06~0.16	0.85
AG2-50R1	50	50	1	3°41'	H5	15	50	100	104	106	—	—	—	—	—	—	65.5	115	96.8	78.4	66.9	59.5	54.2	47.6		
AG2-60R1	60	60	1	3°41'	H5	15	55	120	124	126	—	—	—	—	—	—	75.5	160	136	110	94.6	84.9	77.2	68.1	0.06~0.16	1.05
AG2-50R1	50	50	1	3°41'	H5	15	55	120	124	126	—	—	—	—	—	—	75.5	160	136	110	94.6	84.9	77.2	68.1		
AG2.5-20R1	20	20	1	3°52'	H1	12	35	50	55	57.5	—	—	—	—	—	—	43.5	34.6	28.5	22.3	18.3	16.0	14.6	12.5	0.06~0.16	0.39
AG2.5-20R2	10	20	2	7°42'	H1	12	35	50	55	57.5	—	—	—	—	—	—	43.5	34.2	27.4	20.6	16.8	14.5	13.1	11.1		
AG2.5-30R1	30	30	1	3°52'	H4	12	40	75	80	82.5	—	—	—	—	—	—	56	73.2	61.0	48.3	40.5	35.5	32.2	28.1	0.06~0.16	0.79
AG2.5-30R2	15	30	2	7°42'	H4	12	40	75	80	82.5	—	—	—	—	—	—	56	72.7	59.6	45.5	37.2	32.6	29.4	25.3		
AG2.5-40R1	40	40	1	3°52'	H5	15	45	100	105	107.5	20	14	34	—	—	—	68.5	125	105	84.0	71.2	62.5	57.0	49.5	0.06~0.16	1.11
AG2.5-50R1	50	50	1	3°52'	H5	15	55	125	130	132.5	—	—	—	—	—	—	81	189	158	128	109	96.7	88.5	76.7		
AG2.5-60R1	60	60	1	3°52'	H5	15	60	150	155	157.5	—	—	—	—	—	—	93.5	265	222	180	154	138	126	110	0.06~0.16	2.32
AG2.5-50R1	50	50	1	3°52'	H5	15	60	150	155	157.5	—	—	—	—	—	—	93.5	265	222	180	154	138	126	110		

Worm Wheels

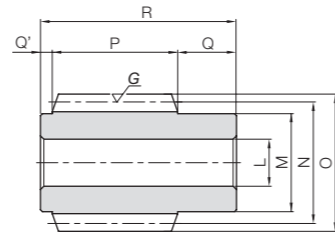


To order J Series products, please specify: **Catalog No. + J + BORE.**

Bore H7	* The product shapes of J Series items are identified by background color.														
	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		
Screw size	M4					M5					M6				
Catalog Number	M4					M5					M6				
AG2-20R1 J BORE	H1K	H1K	H1K	H1K	H1K										
AG2-20R2 J BORE	H1K	H1K	H1K	H1K	H1K										
AG2-30R1 J BORE	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	
AG2-30R2 J BORE	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	
AG2-40R1 J BORE	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	
AG2-50R1 J BORE	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	
AG2-60R1 J BORE	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	
AG2.5-20R1 J BORE	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	
AG2.5-20R2 J BORE	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	H1K	
AG2.5-30R1 J BORE	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	
AG2.5-30R2 J BORE	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	H4K	
AG2.5-40R1 J BORE			H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	
AG2.5-50R1 J BORE			H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	
AG2.5-60R1 J BORE			H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	



Specifications	
Precision grade	KHK W 001 grade 2*
Reference section of gear	Axial direction
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for ground part

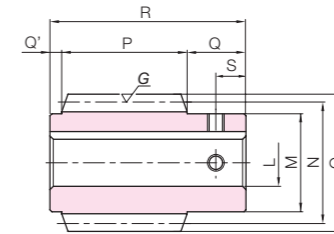


W3

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

Catalog Number ● : J Series (Available-on-request)	Axial module	Number of Starts	Nominal lead angle	Direction of helix	Shape	Bore		Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width (right)	Hub width (left)
						LH7	M						
SWG3-R1 ● SWG3-R1J17 ● SWG3-R1J18 ● SWG3-R1J19 ● SWG3-R1J20	m3	1	3°54'	R	W3	16	35	44	50	50	20	4	
17													
18													
19													
20													
SWG3-R2 ● SWG3-R2J17 ● SWG3-R2J18 ● SWG3-R2J19 ● SWG3-R2J20		2	7°46'		W3	16							
17													
18													
19													
20													
SWG3-R3 ● SWG3-R3J17 ● SWG3-R3J18 ● SWG3-R3J19 ● SWG3-R3J20	3	11°34'	W3	16									
17													
18													
19													
20													
SWG4-R1 SWG4-R2 SWG4-R3	m4	1	3°41'	R	W3	22	50	62	70	70	25	5	
2		7°21'											
3		10°57'											

J Series



W3K



Total length	Keyway	Socket head screw	Weight (kg)	Catalog Number		
				● : J Series (Available-on-request)		
74	5 x 2.3	M4	10	0.66	SWG3-R1	
				0.64	● SWG3-R1J17	
				0.62	● SWG3-R1J18	
				0.60	● SWG3-R1J19	
				0.58	● SWG3-R1J20	
				0.66	SWG3-R2	
	0.64	● SWG3-R2J17				
	0.62	● SWG3-R2J18				
	0.60	● SWG3-R2J19				
	0.58	● SWG3-R2J20				
	100	5 x 2.3	M4	10	1.82	SWG4-R1
					0.64	● SWG4-R2
0.62					● SWG4-R3	
0.60					● SWG4-R1J17	
0.58					● SWG4-R1J18	
0.58					● SWG4-R1J19	

AG Module 3, 4  
Worm Wheels

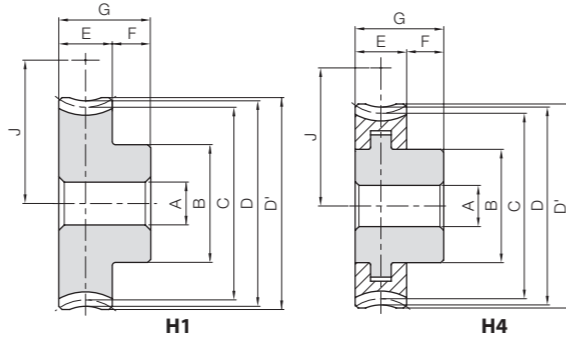


Specifications	
Precision grade	KHK W 002 grade 2*
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	CAC702 (old JIS A & BC2)**
Heat treatment	—
Tooth hardness	—

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

\*\* The hub material of H4 and H5 is FC200. FC200's tensile strength (200N/mm<sup>2</sup>) is derived from test specimens and does not represent that of the boss.

AH7	Bore
B	Hub dia.
C	Pitch dia.
D	Throat dia.
D'	Outside dia.
E	Face width
F	Hub width
G	Total length
(H)	Web thickness
(I)	Web O.D.
J	Mounting distance

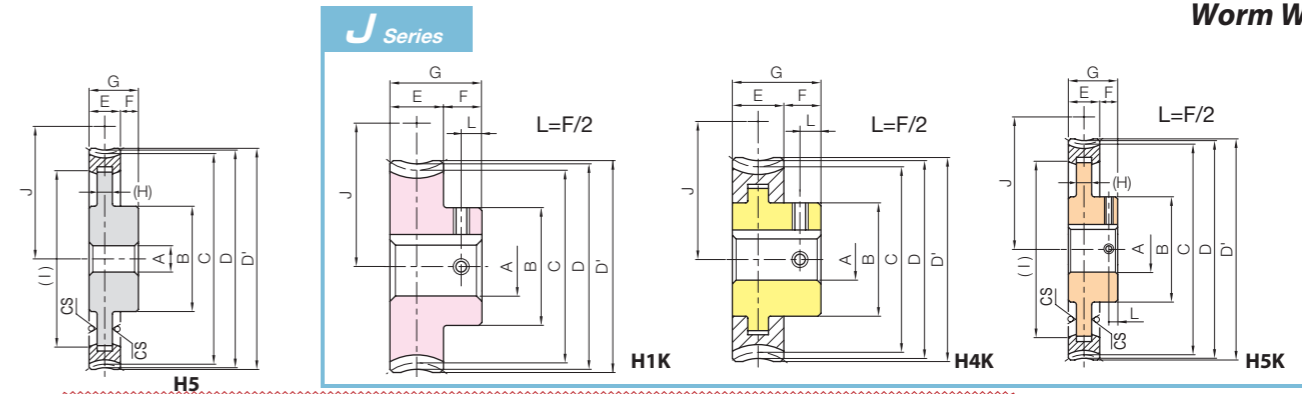


H1

H4

NOTE 1: Allowable torque based on worm speed (rpm)

Catalog Number	Reduction ratio	No. of teeth	No. of starts of mating worm	Lead angle helix direction	Shape	AH7	B	C	D	D'	E	F	G	(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			
																	30 rpm	100 rpm	300 rpm	600 rpm	900 rpm	1200 rpm	1800 rpm			
AG3-20R1	20	20	1	3°54'	H1	20	50	60	66	69	25	18	43	—	—	52	59.5	48.8	38.0	30.9	27.0	24.7	20.9	0.75		
AG3-20R2	10	20	2	7°46'	H1	20	50	60	66	69	—	—	—	—	—	52	58.7	46.9	35.1	28.4	24.5	22.2	18.5	0.75		
AG3-30R1	30	30	1	3°54'	H4	20	55	90	96	99	—	—	—	—	—	67	126	104.3	82.4	68.4	59.9	54.5	46.9	1.46		
AG3-30R2	15	30	2	7°46'	H4	20	55	90	96	99	—	—	—	—	—	67	125	102	77.6	62.8	55.1	49.7	42.2	1.46		
AG3-30R3	10	30	3	11°34'	H4	20	55	90	96	99	—	—	—	—	—	67	129	103	77.1	62.4	53.8	48.7	40.6	1.46		
AG3-40R1	40	40	1	3°54'	H5	20	65	120	126	129	—	—	—	(10)	(103)	82	215	179	143	120	106	96.4	82.5	2.03		
AG3-50R1	50	50	1	3°54'	H5	20	75	150	156	159	—	—	—	(15)	(130)	97	325	270	219	185	163	150	128	3.22		
AG3-60R1	60	60	1	3°54'	H5	20	85	180	186	189	—	—	—	(15)	(155)	112	455	380	308	261	233	213	183	4.52		
AG4-20R1	20	20	1	3°41'	H1	20	60	80	88	92	—	—	—	—	—	71	115	93.6	72.7	58.2	51.1	45.7	38.4	1.53		
AG4-20R2	10	20	2	7°21'	H1	20	60	80	88	92	—	—	—	—	—	71	114	90.0	67.2	53.5	46.4	41.2	34.1	1.53		
AG4-30R1	30	30	1	3°41'	H4	20	65	120	128	132	—	—	—	—	—	91	244	200	158	129	114	101	86.3	3.00		
AG4-30R2	15	30	2	7°21'	H4	20	65	120	128	132	—	—	—	—	—	91	242	196	148	118	104	92.2	77.6	3.00		
AG4-30R3	10	30	3	10°57'	H4	20	65	120	128	132	—	—	—	—	—	91	250	198	147	117	102	90.2	74.7	3.00		
AG4-40R1	40	40	1	3°41'	H5	20	80	160	168	172	—	—	—	(15)	(133)	111	417	343	274	226	200	179	152	4.32		
AG4-50R1	50	50	1	3°41'	H5	20	90	200	208	212	—	—	—	(16)	(173)	131	630	519	418	347	309	277	236	6.25		
AG4-60R1	60	60	1	3°41'	H5	20	100	240	248	252	—	—	—	(17)	(210)	151	881	730	589	491	441	395	337	8.74		

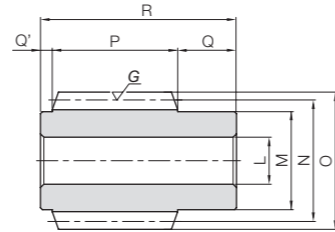


To order J Series products, please specify: **Catalog No. + J + BORE.**

Bore H7	* The product shapes of J Series items are identified by background color.									
	20	22	25	28	30	32	35	40	45	50
Keyway Js9	6x2.8		8x3.3			10x3.3		12x3.3		14x3.8
Screw size	M5		M6			M8		M10		
Catalog Number	H1K	H1K	H1K	H1K	H1K	H4K	H4K	H4K	H4K	H5K
AG3-20R1 J BORE	H1K	H1K	H1K	H1K	H1K					
AG3-20R2 J BORE	H1K	H1K	H1K	H1K	H1K					
AG3-30R1 J BORE	H4K	H4K	H4K	H4K	H4K	H4K				
AG3-30R2 J BORE	H4K	H4K	H4K	H4K	H4K	H4K				
AG3-30R3 J BORE	H4K	H4K	H4K	H4K	H4K	H4K				
AG3-40R1 J BORE	H5K	H5K	H5K	H5K	H5K	H5K	H5K			
AG3-50R1 J BORE	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K		
AG3-60R1 J BORE	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K	H5K



Specifications	
Precision grade	KHK W 001 grade 2
Reference section of gear	Axial direction
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for ground part



W3

Catalog Number	Axial module	Number of Starts	Nominal lead angle	Direction of helix	Shape	Bore		Pitch dia.	Outside dia.	Face width	Hub width (right)		Hub width (left)
						L <sub>H7</sub>	M				N	O	
SWG5-R1	m5	1	4°05'	R	W3	25	56	70	80	85	30	5	
SWG5-R2		2	8°08'										
SWG6-R1	m6	1	4°17'	R	W3	30	63	80	92	100	35	5	
SWG6-R2		2	8°32'										

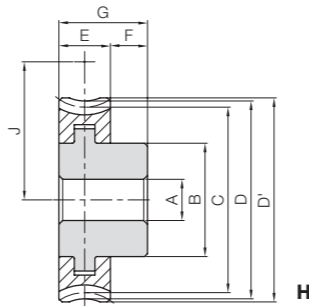
Total length	Socket head screw		Weight (kg)	Catalog Number
	R	Size		
120	—	—	2.78	SWG5-R1 SWG5-R2
140	—	—	4.15	SWG6-R1 SWG6-R2

AG Module 5, 6  
Worm Wheels

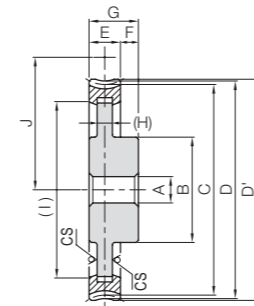


Specifications	
Precision grade	KHK W 002 grade 2
Reference section of gear	Rotating plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Material	CAC702 (old JIS A & BC2) *
Heat treatment	—
Tooth hardness	—

\* The hub material of H4 and H5 is FC200. FC200's tensile strength (200N/mm<sup>2</sup>) is derived from test specimens and does not represent that of the boss.



H4



H5



Worm Wheels

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			
								A <sub>H7</sub>	B						C	D	D'
AG5-20R1	20	m5	20	1	4°05'	R	H4	22	75	100	110	115	35				
AG5-20R2	10		H4	75	100		110							115			
AG5-30R1	30		H5	75	150		160							165			
AG5-30R2	15		H5	30	2		8°08'							75	150	160	165
AG5-40R1	40		H5	40	1		4°05'							110	200	210	215
AG5-50R1	50	m6	50	1	4°05'	H5	25	120	250	260	265	40					
AG5-60R1	60		H5	60	1	4°05'							130	300	310	315	
AG6-20R1	20	m6	20	1	4°17'	R	H4	25	85	120	132	138	40				
AG6-20R2	10		H4	85	120		132							138			
AG6-30R1	30		H5	100	180		192							198			
AG6-30R2	15		H5	30	2		8°32'							100	180	192	198
AG6-40R1	40		H5	40	1		4°17'							120	240	252	258
AG6-50R1	50	m6	50	1	4°17'	R	H5	25	130	300	312	318	40				
AG6-60R1	60		H5	60	1		4°17'							150	360	372	378

NOTE 1: Allowable torque based on worm speed (rpm)

Hub width	Total length	Web thickness	Web O.D.	Mounting distance	Allowable torque (N·m) NOTE 1								Backlash (mm)	Weight (kg)	Catalog Number
					30 <sub>rpm</sub>	100 <sub>rpm</sub>	300 <sub>rpm</sub>	600 <sub>rpm</sub>	900 <sub>rpm</sub>	1200 <sub>rpm</sub>	1800 <sub>rpm</sub>				
25	60	—	—	85	202	163	127	101	88.4	79.0	65.5	0.07~0.19	2.79	AG5-20R1	
		—	—	85	200	157	117	93.2	80.2	71.1	58.1				
		(21)	(120)	110	427	348	275	224	196	175	147				
		(21)	(120)	110	425	340	259	206	180	159	132				
		(23)	(168)	135	731	597	478	394	346	309	259				
30	70	(23)	(215)	160	1110	903	729	605	534	479	402	0.07~0.19	12.7	AG5-50R1	
		(24)	(260)	185	1550	1270	1030	855	763	682	575				
		—	—	100	315	252	196	157	135	121	99.6				
		—	—	100	314	244	182	145	124	110	89.3				
		(26)	(142)	130	666	538	424	346	300	267	224				
30	70	(26)	(142)	130	668	532	403	321	278	246	203	0.07~0.19	8.52	AG6-30R1	
		(30)	(200)	160	1140	923	738	609	528	472	394				
		(30)	(258)	190	1720	1400	1130	935	816	733	611				
		(30)	(312)	220	2410	1960	1580	1320	1170	1040	875				
		(30)	(312)	220	2410	1960	1580	1320	1170	1040	875				