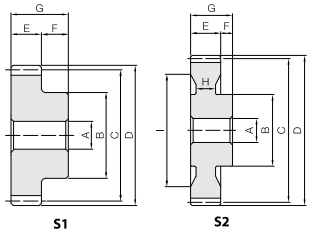
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating
Backlash	0.12 to 0.26

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



To order Hardened Plus, please specify Catalog No. + H. **Example: SS2-12H**

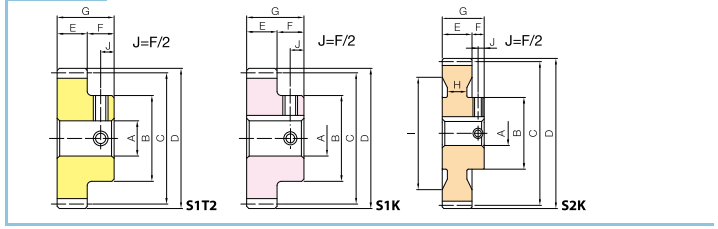
Catalog Number		No. of teeth	Shape	Bore A_{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G	Web thickness (H)	Web O.D. (I)	Allowable torque: Bending strength N·m	Bending strength kgf·m	Surface durability N·m	Surface durability kgf·m	Surface durability (H) N·m	Surface durability (H) kgf·m	Weight (kg)
SS2-12	(H)	12	S1	10	18	24	28	20	10	30	—	—	16.3	1.66	0.88	0.090	4.24	0.43	0.073
SS2-13	(H)	13			20	26	30						21.0	2.14	1.07	0.11	5.11	0.52	0.090
SS2-14	(H)	14			20	28	32						26.3	2.69	1.26	0.13	6.02	0.61	0.10
SS2-15	(H)	15		12	24	30	34						29.6	3.01	1.48	0.15	7.01	0.71	0.12
SS2-16	(H)	16			26	32	36						32.7	3.34	1.71	0.17	8.08	0.82	0.14
SS2-17	(H)	17			28	34	38						36.0	3.67	1.96	0.20	9.23	0.94	0.16
SS2-18	(H)	18			30	36	40						39.3	4.01	2.23	0.23	10.5	1.07	0.19
SS2-19	(H)	19			31	38	42						42.6	4.35	2.52	0.26	11.8	1.20	0.21
SS2-20	(H)	20			32	40	44						46.0	4.69	2.83	0.29	13.2	1.34	0.23
SS2-21	(H)	21			34	42	46						49.4	5.04	3.15	0.32	14.7	1.50	0.26
SS2-22	(H)	22			36	44	48						52.8	5.39	3.50	0.36	16.2	1.66	0.29
SS2-23	(H)	23			37	46	50						56.3	5.74	3.86	0.39	17.9	1.82	0.32
SS2-24	(H)	24			38	48	52						59.8	6.09	4.24	0.43	19.6	2.00	0.35
SS2-25	(H)	25			40	50	54						63.3	6.45	4.64	0.47	21.4	2.18	0.38
SS2-26	(H)	26			42	52	56						66.8	6.81	5.04	0.51	23.2	2.37	0.42
SS2-27	(H)	27			45	54	58						70.4	7.17	5.45	0.56	25.1	2.56	0.46
SS2-28	(H)	28			45	56	60						73.9	7.54	5.89	0.60	27.0	2.76	0.48
SS2-29	(H)	29			47	58	62						77.5	7.91	6.33	0.65	29.1	2.96	0.52
SS2-30	(H)	30			50	60	64						81.1	8.27	6.80	0.69	31.2	3.18	0.57
SS2-32	(H)	32			50	64	68						88.4	9.01	7.78	0.79	35.6	3.63	0.63
SS2-34	(H)	34			50	68	72						95.7	9.76	8.84	0.90	40.3	4.11	0.70
SS2-35	(H)	35			52	70	74						99.3	10.1	9.39	0.96	42.8	4.36	0.74
SS2-36	(H)	36			55	72	76						103	10.5	9.96	1.02	45.3	4.62	0.80
SS2-38	(H)	38			55	76	80						111	11.3	11.2	1.14	50.6	5.16	0.87
SS2-40	(H)	40			55	80	84						118	12.0	12.5	1.27	56.2	5.73	0.93
SS2-42	(H)	42		15		84	88						125	12.8	13.8	1.41	62.1	6.34	1.01
SS2-44	(H)	44				88	92						133	13.6	15.2	1.55	68.3	6.97	1.10
SS2-45	(H)	45			55	90	94						137	13.9	16.0	1.63	71.6	7.30	1.14
SS2-46	(H)	46				92	96						140	14.3	16.7	1.71	74.9	7.63	1.19
SS2-48	(H)	48				96	100						148	15.1	18.3	1.87	81.7	8.33	1.28
SS2-50	(H)	50				100	104						156	15.9	19.9	2.03	88.8	9.05	1.38
SS2-52	(H)	52			55	104	108						163	16.6	21.7	2.21	96.2	9.81	1.48
SS2-54	(H)	54				108	112						171	17.4	23.4	2.39	104	10.6	1.58
SS2-55	(H)	55				110	114						175	17.8	24.4	2.48	108	11.0	1.64
SS2-56	(H)	56				112	116						179	18.2	25.3	2.58	112	11.4	1.69
SS2-58	(H)	58				116	120						186	19.0	27.3	2.78	120	12.3	1.84
SS2-60	(H)	60			60	120	124						194	19.8	29.3	2.99	129	13.1	1.96
SS2-62	(H)	62				124	128						202	20.6	31.5	3.21	138	14.1	2.08
SS2-64	(H)	64				128	132						209	21.3	33.7	3.44	147	15.0	2.20
SS2-65	(H)	65				130	134						213	21.7	34.8	3.55	152	15.5	2.26
SS2-66	(H)	66				132	136						217	22.1	36.0	3.67	157	16.0	2.33
SS2-68	(H)	68			60	136	140						225	22.9	38.4	3.91	166	17.0	2.46
SS2-70	(H)	70				140	144						232	23.7	40.8	4.16	177	18.0	2.60
SS2-72	(H)	72				144	148						240	24.5	43.3	4.42	187	19.1	2.74
SS2-75	(H)	75		20		150	154						252	25.7	47.3	4.82	203	20.7	2.92
SS2-76	(H)	76			60	152	156						256	26.1	48.6	4.96	209	21.3	3.00
SS2-80	(H)	80	S2		60	160	164				12	136	271	27.7	54.3	5.53	232	23.6	2.67
SS2-84	(H)	84			70	168	172					140	287	29.2	60.2	6.14	256	26.1	3.09
SS2-85	(H)	85			70	170	174					146	291	29.6	61.7	6.30	262	26.8	3.09
SS2-88	(H)	88			70	176	180					150	302	30.8	66.5	6.78	282	28.7	3.29
SS2-90	(H)	90			70	180	184					156	310	31.6	69.7	7.11	295	30.1	3.38
SS2-95	(H)	95			70	190	194					166	330	33.6	78.2	7.97	329	33.6	3.69
SS2-100	(H)	100			70	200	204					176	291	29.7	72.7	7.42	288	29.3	4.01
SS2-120	(H)	120			90	240	244					210	357	36.4	108	11.0	421	43.0	5.91
SS2-150	(H)	150	S1	25	240	300	304				—	—	455	46.4	174	17.7	672	68.5	14.5

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 38 for more details.
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations] ① Please read "Cautions on Performing Secondary Operations" (Page 40) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK system for quick modification of KHK stock gears, is also available.
② Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

[Caution on Hardened Plus] ① See Page 6 for more details on Hardened Plus.

J Series



To order J Series products, please specify: **Catalog No. + J + BORE.** **Example: SS2-12J10**

Bore H7	* The product shapes of J Series items are identified by background color.														
Keyway Js9	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35
Screw size	4×1.8		5×2.3				6×2.8				8×3.3			10×3.3	
Catalog Number	M4						M5				M6			M8	
SS2-12 J BORE	* S1T2														
SS2-13 J BORE	* S1T2														
SS2-14 J BORE	* S1K														
SS2-15 J BORE		* S1K													
SS2-16 J BORE		* S1K	S1K												
SS2-17 J BORE		* S1K	S1K	S1K	S1K										
SS2-18 J BORE		* S1K	S1K	S1K	S1K	S1K									
SS2-19 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K								
SS2-20 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K							
SS2-21 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS2-22 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS2-23 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS2-24 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS2-25 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS2-26 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2-27 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2-28 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS2-29 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS2-30 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS2-32 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS2-34 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS2-35 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS2-36 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-38 J BORE		* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-40 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-42 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-44 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-45 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-46 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-48 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-50 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-52 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-54 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-55 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-56 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS2-58 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-60 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-62 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-64 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-65 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-66 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-68 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-70 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-72 J BORE				* S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-75 J BORE									* S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-76 J BORE									* S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS2-80 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-84 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-85 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-88 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-90 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-95 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-100 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS2-120 J BORE									* S2K	S2K	S2K	S2K	S2K	S2K	S2K

To order J Series Hardened Plus products, please specify: Catalog No. + H + J + BORE.
Example: SS2-16HJ14

[Caution on J series] ① As available-on-request products, these require a lead-time for shipping of 2 working days (excludes the day ordered) after placing an order, and 6 working days for Hardened Plus products. Because the machining starts immediately, we cannot accept cancellations. Please see Page 34 for more details.
② Number of pieces we can process for one order is 1 to 20 units. For larger quantities, please request price and delivery quotes.
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. For details, please see the KHK Web Catalog.
⑤ Areas of products which have been re-worked will not be black oxide coated.
⑥ For products having a tapped hole, a set screw is included.
⑦ When using S1T2 set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.
⑧ * is a product with the original bore diameter, so Hardened Plus is not available. See Page 6 for more details on Hardened Plus.