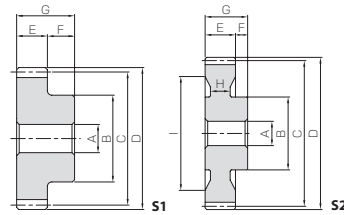


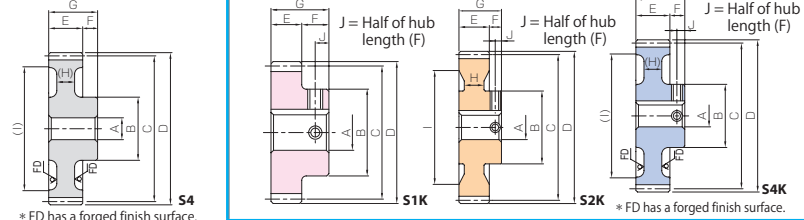


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1:1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



New Product

J Series



Steel Spur Gears

Additional Products

To order Hardened Plus, please specify Catalog No. + H.

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 (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
												Bending strength	Surface durability	Bending strength	Surface durability		
S55-12	12	H	22	46	60	70	50	75	71	36	160	254	15.2	25.9	1.55	0.20~0.44	2.40
S55-13	13			327	18.4	33.4						1.88					
S55-14	14			412	21.8	42.0						2.22					
S55-15	15			462	25.5	47.1						2.60					
S55-16	16			512	29.5	52.2						3.01					
S55-17	17			562	33.8	57.3						3.45					
S55-18	18			614	38.4	62.6						3.92					
S55-19	19			666	43.4	67.9						4.42					
S55-20	20			718	48.6	73.3						4.96					
S55-21	21			772	54.2	78.7						5.53					
S55-22	22			825	60.1	84.1						6.13					
S55-23	23			879	66.3	89.7						6.77					
S55-24	24		934	73.0	95.2	7.45											
S55-25	25		989	80.0	101	8.16											
S55-26	26		1040	87.1	106	8.88											
S55-27	27		1100	94.4	112	9.62											
S55-28	28		1160	102	118	10.4											
S55-29	29		1210	110	124	11.2											
S55-30	30		1270	118	129	12.1											
S55-32	32		1380	136	141	13.8											
S55-34	34		1500	154	153	15.7											
S55-35	35	1550	164	158	16.7												
S55-36	36	1610	174	164	17.8												
S55-38	38	1730	195	176	19.9												
S55-40	40	1800	210	182	18.5												
S55-42	42	36	170	1630	202	167	20.6										
S55-44	44	36	175	1730	223	177	22.8										
S55-45	45	36	185	1780	234	182	23.9										
S55-46	46	30	185	1830	246	187	25.1										
S55-48	48	30	200	1930	269	197	27.5										
S55-50	50	S4	(16)	(212)	2030	294	207	30.0									
S55-52	52	30	220	2130	320	217	32.6										
S55-54	54	30	230	2220	347	227	35.4										
S55-55	55	30	235	2270	361	232	36.8										
S55-56	56	30	240	2320	375	237	38.3										
S55-58	58	30	240	2420	405	247	41.3										
S55-60	60	30	250	2520	435	257	44.4										
S55-62	62	S	130	310	320	2423	423	247	43.1								
S55-64	64	160	320	330	2516	453	257	46.2									
S55-65	65	160	325	335	2562	468	261	47.7									
S55-66	66	170	330	340	2609	484	266	49.3									
S55-68	68	170	340	350	2701	516	275	52.6									
S55-70	70	180	350	360	2794	549	285	56.0									
S55-80	80	200	400	410	3261	732	333	74.7									

- [Caution on Product Characteristics]
- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
 - 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.
 - Products marked with S are semi-custom standard products. The delivery will take about 15 business days after the order is received.
 - For semi-custom standard products weighing 15 kg or more, eyebolt mounting screws (2-M12 depth 25 mm) are machined around the periphery of the boss side surface.

- [Caution on Secondary Operations]
- Please read "Cautions on Performing Secondary Operations" (Page 26) 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.
 - Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

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

Keyway J99	* The product shapes of J Series items are identified by background color.																	
	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80			
	6x2.8		8x3.3		10x3.3		12x3.3		14x3.8		16x4.3		18x4.4		20x4.9		22x5.4	
Catalog Number	M5			M6			M8			M10			M12			M16		
S55-12																		
S55-13 J BORE	S1K																	
S55-14 J BORE	S1K	S1K	S1K	S1K														
S55-15 J BORE	S1K	S1K	S1K	S1K	S1K													
S55-16 J BORE	S1K	S1K	S1K	S1K	S1K	S1K												
S55-17 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K											
S55-18 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K										
S55-19 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K									
S55-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
S55-21 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
S55-22 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
S55-23 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
S55-24 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
S55-25 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
S55-26 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
S55-27 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-28 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-29 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-30 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-32 J BORE							S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-34 J BORE							S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-35 J BORE							S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-36 J BORE							S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-38 J BORE							S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
S55-40 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-42 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-44 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-45 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-46 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-48 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-50 J BORE							S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	
S55-52 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-54 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-55 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-56 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-58 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
S55-60 J BORE							S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	

- [Caution on J series]
- Production is completed in 2 working days excluding the day ordered for products with module 3 or under, and 7 days for products with module 4 or higher.
 - Number of products is 1 to 20 units for products with module 3 or under, and up to 5 units for products with module 4 or higher.
 - Keyways are made according to JIS B1301 standards, J9 tolerance.
 - 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.
 - Areas of products which have been re-worked will not be black oxide coated.
 - For products having a tapped hole, a set screw is included.
 - When using S172 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.

Semi-custom standard products

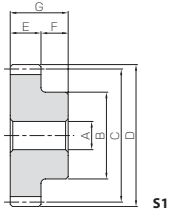
- No effort spent on design
Simply select the gears you need from the catalog, eliminating design costs.
- Fast delivery available
Products are delivered with a consistent production system and within the lead time listed in the catalog (for orders of 5 units or less).
- Reliable quality
The mark of trust "KHK" guarantees the quality of products listed in the catalog.

Please make use of GCSW for Web (gear calculation software).

藍色框的為半客製化齒輪系列



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



51

Catalog Number	Module	No. of teeth	Shape	Bore				Face width	Hub width	Total Length	Web thickness	Web O.D.				
				A _{H7}	B	C	D									
S58-12	m8	12	S1	28	75	96	112	75	35	110	—	—				
S58-13		80			104	120										
S58-14		85			112	128										
S58-15		90			120	136										
S58-16		100			128	144										
S58-17		105			136	152										
S58-18		110	144	160												
S58-19		120	152	168												
S58-20		130	160	176												
S58-21		140	168	184												
S58-22		30	22	S1	30	150	176						192			
S58-23			155			184	200									
S58-24			160			192	208									
S58-25			170			200	216									
S58-26			170			208	224									
S58-27			170			216	232									
S58-28			180			224	240									
S58-30			180			240	256									
S58-32			m8			32	S1						30	200	256	272
S58-34						210								272	288	
S58-35		210		280	296											
S58-36	210	288		304												
S58-38	220	304		320												
S58-40	220	320		336												
S58-42	230	336		352												
S58-44	230	352		368												
S58-45	230	360		376												
S58-46	240	368		384												
S58-48	240	384		400												
S58-50	240	400		416												
S58-52	240	416		432												
S58-54	240	432		448												
S58-55	240	440		456												
S58-56	240	448		464												
S58-58	240	464		480												
S58-59	240	472		488												
S58-60	240	480	496													
S510-15	m10	15	S1	40	115	150	170	90	40	130	—	—				
S510-20		165			200	220										
S510-25		200			250	270										
S510-26	m10	26	S1	40	200	260	280	90	40	130	—	—				
S510-27		220			270	290										
S510-28		220			280	300										
S510-29		230			290	310										
S510-30		240			300	320										
S510-32		250			320	340										
S510-34		260			340	360										
S510-35		260			350	370										
S510-36		270			360	380										
S510-38		270			380	400										
S510-40		280			400	420										
S510-42		290			420	440										
S510-44		290			440	460										
S510-45		290			450	470										
S510-46		290			460	480										
S510-48	300	480	500													
S510-50	300	500	520													

Ⓢ Semi-custom standard products

- No effort spent on design
Simply select the gears you need from the catalog, eliminating design costs.
- Fast delivery available
Products are delivered with a consistent production system and within the lead time listed in the catalog (for orders of 5 units or less).
- Reliable quality
The mark of trust "KHK" guarantees the quality of products listed in the catalog.

Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
Bending strength	Surface durability	Bending strength	Surface durability			
975	62.6	99.5	6.39	0.28~0.58	4.94	S58-12
1260	75.2	128	7.66		5.85	S58-13
1580	88.9	161	9.06		6.83	S58-14
1770	104	181	10.6		7.87	S58-15
1970	121	200	12.3		9.20	S58-16
2160	139	220	14.1		10.4	S58-17
2360	158	240	16.1	11.7	S58-18	
2560	178	261	18.2	13.3	S58-19	
2760	200	281	20.4	15.0	S58-20	
2960	223	302	22.8	16.7	S58-21	
3170	248	323	25.3	0.32~0.66	18.6	S58-22
3380	273	344	27.9		20.2	S58-23
2990	250	305	25.5		22.0	S58-24
3160	273	323	27.8		24.1	S58-25
3340	297	341	30.3		25.6	S58-26
3520	322	359	32.8		27.2	S58-27
3700	348	377	35.5	29.6	S58-28	
4060	404	414	41.2	33.0	S58-30	
4084	421	416	42.9	0.28~0.58	38.3	S58-32
4421	479	451	48.9		43.1	S58-34
4591	510	468	52.0		45.2	S58-35
4761	542	486	55.3		47.3	S58-36
5103	608	520	62.0		52.6	S58-38
5447	679	555	69.3		57.2	S58-40
5793	754	591	76.9		63.0	S58-42
6139	834	626	85.0		68.1	S58-44
6313	875	644	89.2		70.7	S58-45
6487	917	662	93.6		74.4	S58-46
6836	1006	697	103		80.0	S58-48
7187	1098	733	112		85.8	S58-50
7538	1195	769	122		91.8	S58-52
7890	1297	805	132		98.1	S58-54
8066	1349	823	138		101	S58-55
8243	1403	841	143		105	S58-56
8596	1513	877	154		111	S58-58
8773	1571	895	160		115	S58-59
8951	1629	913	166	118	S58-60	
3330	203	339	20.7	0.34~0.68	15.0	S510-15
4310	323	440	33.0	0.34~0.68	28.2	S510-20
5930	529	605	54.0	0.36~0.76	43.3	S510-25
5788	522	590	53.3	0.34~0.68	47.1	S510-26
6096	566	622	57.7		51.1	S510-27
6405	612	653	62.4		54.2	S510-28
6716	660	685	67.3		58.4	S510-29
7028	710	717	72.4		62.9	S510-30
7657	815	781	83.1		71.0	S510-32
8290	929	845	94.7		79.5	S510-34
8608	988	878	101		83.4	S510-35
8928	1050	910	107		88.6	S510-36
9569	1180	976	120		96.8	S510-38
10213	1318	1041	134		107	S510-40
10861	1464	1108	149		117	S510-42
11511	1619	1174	165		127	S510-44
11837	1700	1207	173		132	S510-45
12164	1782	1240	182		137	S510-46
12818	1955	1307	199	149	S510-48	
13475	2136	1374	218	160	S510-50	

[Caution on Product Characteristics]

- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
- 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.
- Products marked with Ⓢ are semi-custom standard products. The delivery will take about 15 business days after the order is received.
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