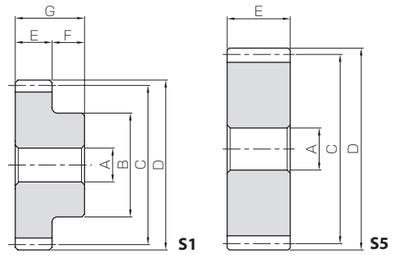
KSUS/KSUSA Stainless Steel Spur Gears J Series

Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	SUS303
Heat Treatment	—
Tooth hardness	(less than 187HB)

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

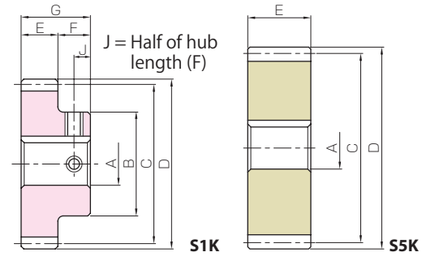


Catalog Number	No. of teeth	Shape	Bore A_{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total Length G	Allowable torque (N·m) Bending strength	Allowable torque (N·m) Surface durability	Allowable torque (kgf·m) Bending strength	Allowable torque (kgf·m) Surface durability	Backlash (mm)	Weight (kg)
KSUS2.5-15	15	S1	15	30	37.5	42.5	25	18	43	31.9	2.11	3.25	0.21	0.14~0.28	0.26
KSUS2.5-16	16			32	40	45				35.3	2.44	3.60	0.25		0.30
KSUS2.5-18	18			38	45	50				42.4	3.18	4.32	0.32		0.41
KSUS2.5-20	20			40	50	55				49.6	4.02	5.06	0.41		0.50
KSUS2.5-22	22			44	55	60				57.0	4.96	5.81	0.51	0.16~0.34	0.62
KSUS2.5-24	24			48	60	65				64.5	6.01	6.58	0.61		0.75
KSUS2.5-25	25			50	62.5	67.5				68.3	6.58	6.96	0.67		0.81
KSUS2.5-28	28			60	70	75				79.8	8.34	8.14	0.85		1.09
KSUS2.5-30	30			65	75	80				87.6	9.65	8.93	0.98		1.27
KSUSA2.5-32	32	S5		—	80	85		—	—	95.4	11.1	9.73	1.13		0.95
KSUSA2.5-35	35				87.5	92.5				107	13.4	10.9	1.36		1.14
KSUSA2.5-36	36				90	95				111	14.2	11.3	1.45		1.21
KSUSA2.5-40	40		20		100	105				127	17.7	13.0	1.81		1.47
KSUSA2.5-42	42				105	110				135	19.6	13.8	2.00	0.18~0.40	1.63
KSUSA2.5-45	45				112.5	117.5				148	22.7	15.0	2.31		1.88
KSUSA2.5-48	48				120	125				160	26.1	16.3	2.66		2.14
KSUSA2.5-50	50				125	130				168	28.4	17.1	2.90		2.33
KSUSA2.5-55	55				137.5	142.5				189	34.9	19.2	3.56		2.83
KSUSA2.5-56	56				140	145				193	36.2	19.6	3.70		2.94
KSUSA2.5-60	60				150	155				209	42.0	21.3	4.28		3.38
KSUSA2.5-64	64				160	165				226	48.2	23.0	4.91		3.86
KSUS3-15	15	S1	15	36	45	51	30	20	50	55.1	3.71	5.62	0.38	0.14~0.32	0.46
KSUS3-16	16			38	48	54				61.1	4.29	6.23	0.44		0.53
KSUS3-18	18			40	54	60				73.3	5.59	7.47	0.57		0.66
KSUS3-20	20			50	60	66				85.8	7.07	8.74	0.72		0.90
KSUS3-22	22			54	66	72				98.5	8.73	10.0	0.89	0.18~0.38	1.09
KSUS3-24	24		20	58	72	78				111	10.6	11.4	1.08		1.30
KSUS3-25	25			60	75	81				118	11.6	12.0	1.18		1.35
KSUS3-28	28			70	84	90				138	14.7	14.1	1.50		1.77
KSUS3-30	30			75	90	96				151	17.0	15.4	1.74		2.06
KSUSA3-32	32	S5		—	96	102		—	—	165	19.5	16.8	1.99		1.62
KSUSA3-35	35				105	111				185	23.6	18.9	2.40		1.95
KSUSA3-36	36				108	114				192	25.0	19.6	2.55		2.07
KSUSA3-40	40		25		120	126				220	31.3	22.4	3.19		2.53
KSUSA3-42	42				126	132				234	34.7	23.9	3.54	0.20~0.44	2.80
KSUSA3-45	45				135	141				255	40.2	26.0	4.10		3.23
KSUSA3-48	48				144	150				276	46.2	28.2	4.71		3.70
KSUSA3-50	50				150	156				290	50.4	29.6	5.14		4.02
KSUSA3-55	55				165	171				326	61.7	33.2	6.30		4.89
KSUSA3-56	56				168	174				333	64.1	33.9	6.54		5.07
KSUSA3-60	60				180	186				362	74.3	36.9	7.58		5.84
KSUS4-15	15	S1	20	45	60	68	40	25	65	131	9.06	13.3	0.92	0.18~0.38	1.03
KSUS4-20	20			65	80	88				203	17.3	20.7	1.76		2.06
KSUS4-25	25			84	100	108				280	28.3	28.5	2.89	0.20~0.44	3.37
KSUS4-30	30			100	120	128				359	41.7	36.6	4.25		4.90
KSUSA4-40	40	S5	30	—	160	168		—	—	521	77.1	53.2	7.86		6.05
KSUSA4-50	50				200	208				573	103	58.5	10.5	0.24~0.52	9.58

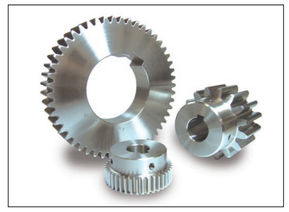
[Caution on Product Characteristics]
① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]
① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns.
② Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

J Series



Stainless Steel Spur Gears



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 $_{Js9}$	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50
Screw size	5×2.3			6×2.8				8×3.3			10×3.3		12×3.3	14×3.8	
Catalog Number	M4			M5				M6			M8			M10	—
KSUS2.5-15 J BORE	S1K	S1K													
KSUS2.5-16 J BORE	S1K	S1K	S1K												
KSUS2.5-18 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
KSUS2.5-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
KSUS2.5-22 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
KSUS2.5-24 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
KSUS2.5-25 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
KSUS2.5-28 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSUS2.5-30 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSUSA2.5-32 J BORE	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K			
KSUSA2.5-35 J BORE	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K		
KSUSA2.5-36 J BORE	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K		
KSUSA2.5-40 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	
KSUSA2.5-42 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	
KSUSA2.5-45 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA2.5-48 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA2.5-50 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA2.5-55 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA2.5-56 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA2.5-60 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA2.5-64 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUS3-15 J BORE	S1K	S1K	S1K	S1K	S1K										
KSUS3-16 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
KSUS3-18 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
KSUS3-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
KSUS3-22 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
KSUS3-24 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
KSUS3-25 J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSUS3-28 J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
KSUS3-30 J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
KSUSA3-32 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	
KSUSA3-35 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	
KSUSA3-36 J BORE						S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-40 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-42 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-45 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-48 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-50 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-55 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-56 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUSA3-60 J BORE								S5K	S5K	S5K	S5K	S5K	S5K	S5K	S5K
KSUS4-15 J BORE						S1K	S1K	S1K							
KSUS4-20 J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K			
KSUS4-25 J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
KSUS4-30 J BORE						S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
KSUSA4-40 J BORE										S5K	S5K	S5K	S5K	S5K	S5K
KSUSA4-50 J BORE										S5K	S5K	S5K	S5K	S5K	S5K

[Caution on J series]
① As available-on-request products, these require a lead-time for shipping within 2 working days (excludes the day ordered), after placing an order.
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.