



SUS · SUSA Stainless Steel Spur Gears

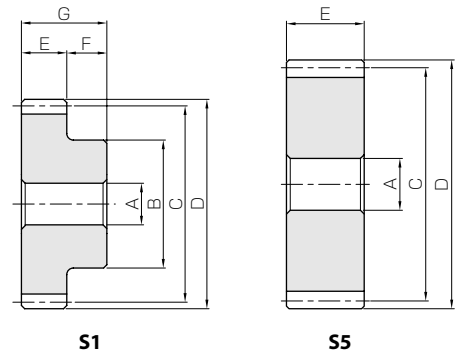


Module 1.5, 2



Specifications		
Precision grade	JIS grade N8 (JIS B1702-1: 1998) * JIS grade 4 (JIS B1702: 1976)	
Gear teeth	Standard full depth	
Pressure angle	20°	
Material	SUS303	
Heat treatment	—	
Tooth hardness	(less than 187HB)	
Module	m 1.5	m 2
Face width (E)	15	20
Screw offset (J)	7	8

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



S1

S5

Catalog No.	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Hub width	Total length	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
			A _{H7}	B	C	D	F	G	Bending strength	Surface durability	Bending strength	Surface durability		
SUS1.5-15	15	S1	8	18	22.5	25.5	14	16	6.89	0.43	0.70	0.044	0.10~0.22	0.063
SUS1.5-16	16			20	24	27			7.63	0.50	0.78	0.051		0.076
SUS1.5-18	18			22	27	30			9.16	0.65	0.93	0.066		0.097
SUS1.5-20	20			24	30	33			10.7	0.82	1.09	0.084		0.12
SUS1.5-22	22			26	33	36			12.3	1.01	1.26	0.10		0.15
SUS1.5-24	24			28	36	39			13.9	1.23	1.42	0.13		0.17
SUS1.5-25	25			30	37.5	40.5			14.8	1.35	1.50	0.14		0.20
SUS1.5-28	28			36	42	45			17.2	1.71	1.76	0.17		0.26
SUS1.5-30	30			38	45	48			18.9	1.98	1.93	0.20		0.29
SUS1.5-32	32			40	48	51			20.6	2.27	2.10	0.23		0.33
SUS1.5-35	35		42	52.5	55.5	23.2	2.74	2.36	0.28	0.39				
SUS1.5-36	36		45	54	57	24.0	2.91	2.45	0.30	0.42				
SUS1.5-40	40		45	60	63	27.5	3.62	2.80	0.37	0.48				
SUS1.5-42	42		45	63	66	29.2	4.01	2.98	0.41	0.51				
SUS1.5-45	45		45	67.5	70.5	31.9	4.64	3.25	0.47	0.57				
SUS1.5-48	48		45	72	75	34.5	5.31	3.52	0.54	0.62				
SUS1.5-50	50		50	75	78	36.3	5.79	3.70	0.59	0.71				
SUS1.5-55	55		55	82.5	85.5	40.7	7.08	4.15	0.72	0.86				
SUS1.5-56	56		55	84	87	41.6	7.36	4.24	0.75	0.88				
SUS1.5-60	60		60	90	93	45.2	8.51	4.61	0.87	1.01				
SUS1.5-64	64	60	96	99	48.8	9.75	4.97	0.99	1.12					
SUS1.5-70	70	70	105	108	54.2	11.8	5.52	1.20	1.39					
SUS1.5-75	75	70	112.5	115.5	58.7	13.6	5.99	1.39	1.54					
SUS1.5-80	80	80	120	123	63.2	15.6	6.45	1.59	1.83					
SUS1.5-90	90	80	135	138	72.3	20.1	7.37	2.05	2.18					
SUS1.5-100	100	80	150	153	81.4	25.2	8.30	2.57	2.58					
SUS2-15	15	S1	12	24	30	34	29	36	16.3	1.05	1.67	0.11	0.12~0.26	0.13
SUS2-16	16			26	32	36			18.1	1.22	1.85	0.12		0.16
SUS2-18	18			30	36	40			21.7	1.59	2.21	0.16		0.22
SUS2-20	20			32	40	44			25.4	2.01	2.59	0.20		0.26
SUS2-22	22			36	44	48			29.2	2.48	2.98	0.25		0.33
SUS2-24	24			38	48	52			33.0	3.01	3.37	0.31		0.39
SUS2-25	25			40	50	54			35.0	3.30	3.57	0.34		0.43
SUS2-28	28			45	56	60			40.9	4.18	4.17	0.43		0.55
SUS2-30	30			50	60	64			44.8	4.83	4.57	0.49		0.65
SUSA2-32	32			S5	15	64			68	—	—	48.9		5.53
SUSA2-35	35	70	74			54.9	6.67	5.60	0.68			0.57		
SUSA2-36	36	72	76			57.0	7.08	5.81	0.72			0.61		
SUSA2-40	40	80	84			65.2	8.85	6.65	0.90			0.76		
SUSA2-42	42	84	88			69.3	9.81	7.07	1.00			0.84		
SUSA2-45	45	90	94			75.5	11.4	7.70	1.16			0.96		
SUSA2-48	48	96	100			81.8	13.0	8.34	1.33			1.10		
SUSA2-50	50	100	104			86.0	14.2	8.77	1.44			1.20		
SUSA2-55	55	110	114			96.5	17.3	9.84	1.77			1.45		
SUSA2-56	56	112	116			98.7	18.0	10.1	1.83			1.51		
SUSA2-60	60	120	124	107	20.8	10.9	2.13	1.74						
SUSA2-64	64	128	132	116	23.9	11.8	2.44	1.98						
SUSA2-70	70	140	144	128	29.0	13.1	2.96	2.37						

[Caution on Product Characteristics]

- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 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.

[Caution on Secondary Operations]

- Please read "Caution on Performing Secondary Operations" (Page 32) 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.
- Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.