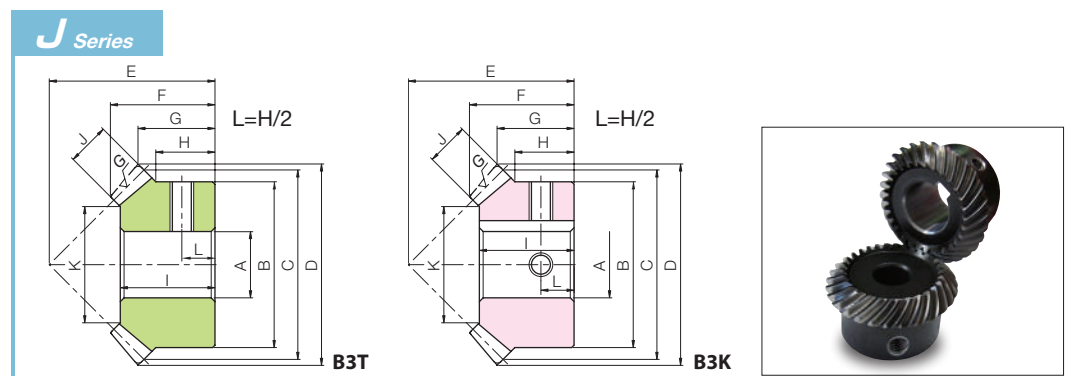
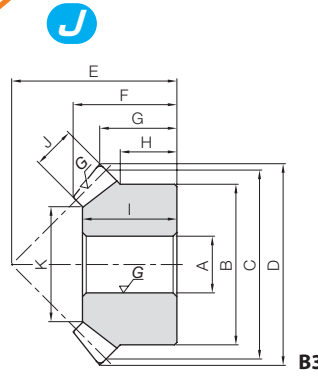




Specifications	
Precision grade	JIS B 1704: 1978 grade 2*
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	S45C
Heat treatment	Gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

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



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

Catalog Number	Gear Ratio	No. of teeth	Shape	Direction of spiral	Bore	Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width	Hole length	Face width	holding surface dia.	Allowable torque (N-m)	Allowable torque (kgf-m)	Backlash	Weight		
					AH7	B	C	D	E	F	G	H	I	J	K	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)
SMSG1-20R SMSG1-20L	1	20	B3	R	6	16	20	21.30	20	13.84	10.65	8	12	5	9.86	1.17	0.97	0.12	0.099	0.02~0.08	0.019
SMSG1.5-20R SMSG1.5-20L				R	8	26	30	31.74	30	21.18	15.87	13	19	8	15.37	4.10	3.47	0.42	0.35	0.04~0.10	0.074
SMSG2-20R SMSG2-20L				R	12	34	40	42.4	37	24.75	18.2	14	22	10	21.72	7.83	6.79	0.80	0.69	0.05~0.11	0.15
SMSG2.5-20R SMSG2.5-20L				R	14	42	50	52.94	48	32.42	24.47	19	29	12	28.06	14.9	13.2	1.52	1.35	0.06~0.12	0.30
SMSG3-20R SMSG3-20L				R	16	50	60	63.72	58	39.6	29.86	23	35	15	31.57	26.4	23.7	2.69	2.42	0.07~0.13	0.52
SMSG3.5-20R SMSG3.5-20L				R	20	60	70	74.47	65	43.81	32.23	25	40	18	39.09	42.6	38.8	4.35	3.96	0.08~0.14	0.82
SMSG4-20R SMSG4-20L				R	20	64	80	84.88	75	50.51	37.44	27	45	20	43.43	62.6	57.8	6.39	5.90	0.10~0.16	1.15
SMSG5-20R SMSG5-20L				R	25	80	100	105.9	90	60.16	42.95	30	54	26	54.46	115	109	11.8	11.1	0.12~0.18	2.13
SMSG1-25R SMSG1-25L				R	6	20	25	26.22	23	15.08	11.11	8	14	6	15.03	1.88	1.91	0.19	0.19	0.02~0.08	0.035
SMSG1.5-25R SMSG1.5-25L				R	10	30	37.5	39.31	34	22.14	16.16	11.5	19	9	19.54	5.29	5.52	0.54	0.56	0.04~0.10	0.11
SMSG2-25R SMSG2-25L				R	12	40	50	52.4	40	24.19	16.2	10	20	12	26.06	12.6	13.5	1.28	1.37	0.05~0.11	0.21
SMSG2.5-25R SMSG2.5-25L				R	16	50	62.5	65.54	50	30.24	20.27	12.5	26	15	34.57	24.5	26.8	2.50	2.74	0.06~0.12	0.42
SMSG3-25R SMSG3-25L				R	20	60	75	78.77	60	37.57	24.39	15	32	20	37.43	45.0	50.0	4.59	5.10	0.07~0.13	0.74
SMSG3.5-25R SMSG3.5-25L				R	25	70	87.5	91.81	70	42.98	28.41	17.5	37	22	46.77	69.2	78.1	7.05	7.97	0.08~0.14	1.14
SMSG4-25R SMSG4-25L				R	28	80	100	104.7	80	49.14	32.35	20	43	25	55.29	95.0	109	9.68	11.1	0.10~0.16	1.71
SMSG5-25R SMSG5-25L				R	28	100	125	130.86	100	60.59	40.43	25	50	30	65.15	181	213	18.5	21.7	0.12~0.18	3.39
SMSG1-30R SMSG1-30L				R	8	24	30	31.26	28	17.61	13.63	10	16	6	19.03	2.50	3.02	0.25	0.31	0.02~0.08	0.057
SMSG1.5-30R SMSG1.5-30L				R	10	36	45	46.84	43	28.11	21.42	16	25	10	25.72	7.53	9.35	0.77	0.95	0.04~0.10	0.21
SMSG2-30R SMSG2-30L				R	12	45	60	62.42	50	29.27	21.21	12.5	25	12	36.06	16.7	21.4	1.70	2.18	0.05~0.11	0.37
SMSG2.5-30R SMSG2.5-30L				R	16	60	75	78.04	62	36.08	26.02	17	32	15	47.57	32.6	42.7	3.32	4.36	0.06~0.12	0.76
SMSG3-30R SMSG3-30L	R	20	70	90	93.61	75	45.25	31.8	20	40	20	53.43	60.3	80.4	6.15	8.20	0.07~0.13	1.32			
SMSG3.5-30R SMSG3.5-30L	R	25	90	105	109.21	85	49.4	34.6	25	45	22	67.77	85.1	115	8.68	11.8	0.08~0.14	2.19			
SMSG4-30R SMSG4-30L	R	28	100	120	124.71	95	54.28	37.35	25	50	25	79.29	127	174	12.9	17.8	0.10~0.16	3.07			
SMSG5-30R SMSG5-30L	R	28	130	150	155.90	120	68.20	47.95	35	62	30	99.15	240	332	24.5	33.9	0.12~0.18	6.44			

* The product shapes of J Series items are identified by background color.

Bore H7	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50
Keyway J ₅₉	-		4 × 1.8			5 × 2.3			6 × 2.8			8 × 3.3			10 × 3.3		12 × 3.3		14 × 3.8	
Screw size	-		M4			M5			M6			M8		M10		-		-		
Catalog Number	M4	M5	M4	M5	M6	M8	M10													
SMSG1-20R J BORE	B3T																			
SMSG1-20L J BORE	B3T																			
SMSG1.5-20R J BORE		B3T	B3K																	
SMSG1.5-20L J BORE		B3T	B3K																	
SMSG2-20R J BORE				B3K	B3K	B3K	B3K													
SMSG2-20L J BORE				B3K	B3K	B3K	B3K													
SMSG2.5-20R J BORE					B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG2.5-20L J BORE					B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG3-20R J BORE						B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG3-20L J BORE						B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG3.5-20R J BORE													B3K	B3K	B3K	B3K	B3K			
SMSG3.5-20L J BORE													B3K	B3K	B3K	B3K	B3K			
SMSG4-20R J BORE													B3K	B3K	B3K	B3K	B3K	B3K		
SMSG4-20L J BORE													B3K	B3K	B3K	B3K	B3K	B3K		
SMSG5-20R J BORE																B3K	B3K	B3K	B3K	B3K
SMSG5-20L J BORE																B3K	B3K	B3K	B3K	B3K
SMSG1-25R J BORE	B3T	B3T																		
SMSG1-25L J BORE	B3T	B3T																		
SMSG1.5-25R J BORE				B3K	B3K	B3K														
SMSG1.5-25L J BORE				B3K	B3K	B3K														
SMSG2-25R J BORE					B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG2-25L J BORE					B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG2.5-25R J BORE								B3K	B3K	B3K	B3K	B3K	B3K							
SMSG2.5-25L J BORE								B3K	B3K	B3K	B3K	B3K	B3K							
SMSG3-25R J BORE													B3K	B3K	B3K	B3K	B3K			
SMSG3-25L J BORE													B3K	B3K	B3K	B3K	B3K			
SMSG3.5-25R J BORE														B3K	B3K	B3K	B3K	B3K		
SMSG3.5-25L J BORE														B3K	B3K	B3K	B3K	B3K		
SMSG4-25R J BORE																B3K	B3K	B3K	B3K	B3K
SMSG4-25L J BORE																B3K	B3K	B3K	B3K	B3K
SMSG5-25R J BORE																	B3K	B3K	B3K	B3K
SMSG5-25L J BORE																	B3K	B3K	B3K	B3K
SMSG1-30R J BORE		B3T	B3K	B3K																
SMSG1-30L J BORE		B3T	B3K	B3K																
SMSG1.5-30R J BORE			B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG1.5-30L J BORE			B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SMSG2-30R J BORE				B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K						
SMSG2-30L J BORE				B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K						
SMSG2.5-30R J BORE						B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K					
SMSG2.5-30L J BORE						B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K					
SMSG3-30R J BORE																B3K	B3K	B3K	B3K	B3K
SMSG3-30L J BORE																B3K	B3K	B3K	B3K	B3K
SMSG3.																				