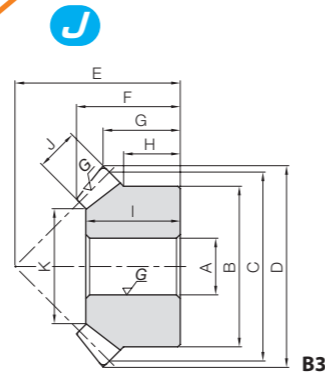




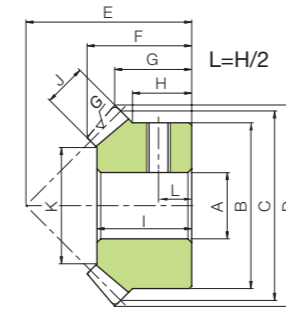
Specifications	
Precision grade	JIS B 1704: 1978 grade 2*
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	S45C
Heat treatment	Gear teeth induction hardened**
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

\* The precision grade of J Series products is equivalent to the value shown in the table.  
 \*\* Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).

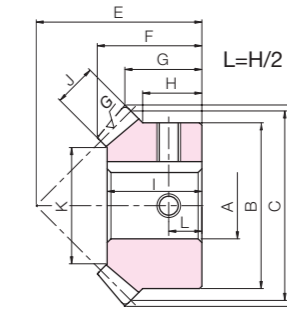


B3

J Series



B3T



B3K



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

Catalog Number	Gear Ratio	No. of teeth	Shape	Direction of spiral	Bore		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 (mm)	Weight (kg)				
					A-H7	B										Bending strength	Surface durability	Bending strength	Surface durability						
SMSG1-20R SMSG1-20L	1	20	B3	R L	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					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					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					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					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					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					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				
SMSG1-25R SMSG1-25L					1	25	B3	R L	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									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									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									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
SMSG3-30R SMSG3-30L									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	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	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								

Bore H7	* The product shapes of J Series items are identified by background color.																				
	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50	
Keyway J <sub>S9</sub>	-																				
Screw size	4 × 1.8			5 × 2.3			6 × 2.8			8 × 3.3			10 × 3.3			12 × 3.3			14 × 3.8		
Catalog Number	M4	M5	M4			M5			M6			M8			M10						
SMSG1-20R J BORE	Green																				
SMSG1-20L J BORE	Green																				
SMSG1.5-20R J BORE		Green	Pink																		
SMSG1.5-20L J BORE		Green	Pink																		
SMSG2-20R J BORE				Pink	Pink	Pink	Pink	Pink													
SMSG2-20L J BORE				Pink	Pink	Pink	Pink	Pink													
SMSG2.5-20R J BORE					Pink	Pink	Pink	Pink	Pink	Pink											
SMSG2.5-20L J BORE					Pink	Pink	Pink	Pink	Pink	Pink											
SMSG3-20R J BORE						Pink	Pink	Pink	Pink	Pink	Pink										
SMSG3-20L J BORE						Pink	Pink	Pink	Pink	Pink	Pink										
SMSG3.5-20R J BORE							Pink	Pink	Pink	Pink	Pink	Pink									
SMSG3.5-20L J BORE							Pink	Pink	Pink	Pink	Pink	Pink									
SMSG4-20R J BORE								Pink	Pink	Pink	Pink	Pink	Pink								
SMSG4-20L J BORE								Pink	Pink	Pink	Pink	Pink	Pink								
SMSG1-25R J BORE	Green	Green																			
SMSG1-25L J BORE	Green	Green																			
SMSG1.5-25R J BORE			Pink	Pink	Pink	Pink	Pink														
SMSG1.5-25L J BORE			Pink	Pink	Pink	Pink	Pink														
SMSG2-25R J BORE				Pink	Pink	Pink	Pink	Pink	Pink												
SMSG2-25L J BORE				Pink	Pink	Pink	Pink	Pink	Pink												
SMSG2.5-25R J BORE					Pink	Pink	Pink	Pink	Pink	Pink											
SMSG2.5-25L J BORE					Pink	Pink	Pink	Pink	Pink	Pink											
SMSG3-30R J BORE								Pink	Pink	Pink	Pink	Pink	Pink								
SMSG3-30L J BORE								Pink	Pink	Pink	Pink	Pink	Pink								
SMSG3.5-30R J BORE									Pink	Pink	Pink	Pink	Pink	Pink	Pink						
SMSG3.5-30L J BORE									Pink	Pink	Pink	Pink	Pink	Pink	Pink						
SMSG4-30R J BORE										Pink	Pink	Pink	Pink	Pink	Pink	Pink					
SMSG4-30L J BORE										Pink	Pink	Pink	Pink	Pink	Pink	Pink					

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

Spur Gears  
Helical Gears  
Internal Gears  
Racks  
CP Racks & Pinions  
Miter Gears  
Bevel Gears  
Screw Gears  
Worm Gears  
Gearboxes  
Other Products

Spur Gears  
Helical Gears  
Internal Gears  
Racks  
CP Racks & Pinions  
Miter Gears  
Bevel Gears  
Screw Gears  
Worm Gears  
Gearboxes  
Other Products