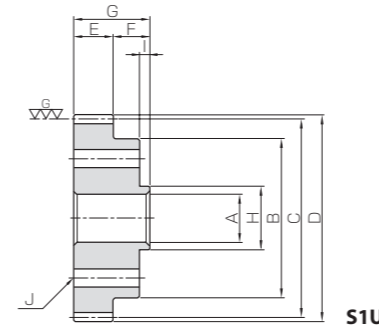
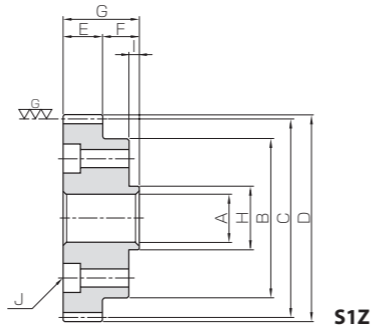
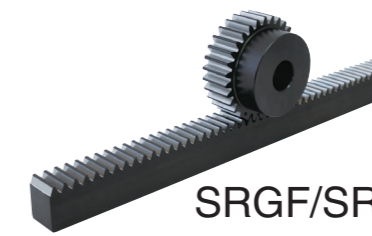


Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	Gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth and portions given secondary operation

*The R Series is given secondary operations and has accuracy grades "equivalent" to the original products.



Recommended mating rack



SRGF/SRGFD
Hardened Ground Racks

Please see Page 204 for more details.

Catalog Number	Module	No. of teeth	Shape	Bore		Pitch dia.	Outside dia.	Face width	Hub width	Total Length	Mounting hub dia.	Mounting hub width
				A	B							
SSG1.5-50R24	m1.5	50	S1Z	18	60	75	78	15	14	29	24	4
SSG2-40R24	m2	40	S1Z	20	60	80	84	20	16	36	24	4
SSG2.5-27R24	m2.5	27	S1U	20	56	67.5	72.5	25	18	43	24	4
SSG2.5-28R24		28	60		70	75						
SSG2.5-29R24		29	60		72.5	77.5						
SSG2.5-30R24		30	65		75	80						
SSG2.5-42R32		42	75		105	110						
SSG3-23R24	m3	23	S1U	20	56	69	75	30	20	50	24	4
SSG3-24R24		24	58		72	78						
SSG3-25R24		25	60		75	81						
SSG3-26R24		26	62		78	84						
SSG3-30R32		30	75		90	96						
SSG3-32R32		32	75		96	102						
SSG3-34R32		34	75		102	108						
SSG3-35R32		35	80		105	111						
SSG3-36R32		36	80		108	114						
SSG4-24R32		m4	24		S1Z	20	75					
SSG4-25R32		25			80	100	108					
SSG5-20R32	m5	20	S1Z	25	82	100	110	50	25	75	32	4
SSG5-30R47		30			120	150	160				47	6
SSG6-25R47	m6	25	S1Z	30	125	150	162	60	28	88	47	6
SSG6-30R60		30			150	180	192				60	6

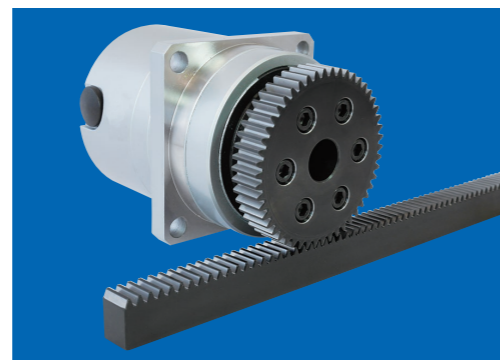
[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair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

Mounting hole specification						Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number		
J						Bending strength		Surface durability						
Drilled hole dia.	Counterbore dia.	Counterbore depth	Quantity	P.C.D.	Included screws	Bending strength	Surface durability	Bending strength	Surface durability					
6.6	11	9	6	45	M6×20	54.7	47.2	5.58	4.82	0.10~0.18	0.63	SSG1.5-50R24		
6.6	11	14	6	45	M6×25	98.3	72.1	10.0	7.35	0.12~0.22	0.89	SSG2-40R24		
6.6	11	19	6	45	M6×45	115	63.2	11.7	6.44	0.12~0.22	0.82	SSG2.5-27R24		
					M6×25	120	68.2	12.3	6.95				SSG2.5-28R24	
					M6×25	126	73.3	12.9	7.48				SSG2.5-29R24	
9	14	17	6	60	M8×30	132	78.7	13.5	8.03	0.14~0.24	1.02	SSG2.5-30R24		
					M8×30	188	147	19.2	15.0				SSG2.5-42R32	
					M6×50	158	78.7	16.1	8.02				SSG3-23R24	
6.6	11	24	6	45	M6×30	168	86.4	17.1	8.81	0.12~0.22	1.04	SSG3-24R24		
					M6×30	178	94.5	18.1	9.64				SSG3-25R24	
					M6×30	188	103	19.2	10.5				1.25	SSG3-26R24
9	14	22	6	60	M8×35	228	138	23.3	14.1	0.14~0.24	1.65	SSG3-30R32		
						229	146	23.4	14.9				1.86	SSG3-32R32
						248	166	25.3	17.0				2.08	SSG3-34R32
						258	177	26.3	18.0				2.27	SSG3-35R32
						268	188	27.3	19.1				2.39	SSG3-36R32
9	14	32	6	60	M8×40	368	194	37.5	19.8	0.14~0.24	2.55	SSG4-24R32		
						389	213	39.7	21.7				2.84	SSG4-25R32
9	14	42	14	100	M8×40	553	259	56.4	26.5	0.14~0.26	3.30	SSG5-20R32		
						975	623	99.4	63.5				7.52	SSG5-30R47
9	14	52	14	100	M8×40	1310	747	134	76.2	0.18~0.30	8.95	SSG6-25R47		
						1560	1020	160	104				13.1	SSG6-30R60

[Caution on R 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 Additionally, the machined parts of the mounted parts and counterbored holes are not black oxide coated.
④ Required number of hexagon socket head cap screws are included.

Features of R Series

- Products matching the mounting holes of the corresponding speed reducer series.
- They come with set bolts and can be used immediately.
- As flange mounting types, they have high rigidity and the gear does not bend.
- Ideal for the mating pinion of racks.

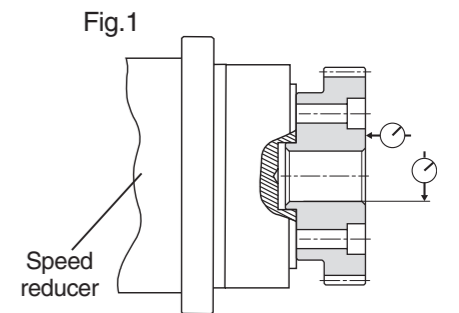


Compatible speed reducers

Manufacturer name	Speed reducer series
Harmonic Drive Systems Co., Ltd.	HPG
Nidec Shimpo Corporation	VRG
Sumitomo Heavy Industries, Ltd.	IB

Mounting Method and Precautions

- ① Clean the gear mounting surface and flange surface of the speed reducer and make sure that there are no scratches or dents.
- ② Set the mounting hub of the gear in the hole at the rotational center of the flange, and temporarily tighten the hexagon socket head cap screws.
- ③ Tighten the hexagon socket head cap screws on the diagonals while checking the runout of the gear reference face (Fig. 1). (Fig.2)



Removal Method and Precautions

- ① Turn off the power source (supply) and check that no load is applied to the gear.
- ② Loosen the hexagon socket head cap screws and make sure that the gear moves freely.
- ③ Remove the hexagon socket head cap screws while making sure that there is no danger of falling, etc.

