

Specifications	
Precision grade	JIS grade N7 (as B702-1-1989)*
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 precision grade of F Series products is equivalent to the value shown in the table.

Catalog Number	No. of teeth	Hub dia.		Pitch dia.		Outside dia.		Face with hub width	
		B	C	D	E	F			
SSG2-25	25	40	50	54					
SSG2-26	26	42	52	56					
SSG2-27	27	44	54	58					
SSG2-28	28	45	56	60					
SSG2-29	29	48	58	62					
SSG2-30	30	50	60	64					
SSG2-32	32	50	64	68					
SSG2-34	34	50	68	72					
SSG2-35	35	50	70	74					16
SSG2-36	36	50	72	76					
SSG2-38	38	50	76	80					
SSG2-40	40	60	80	84					
SSG2-42	42	60	84	88					
SSG2-44	44	60	88	92					
SSG2-45	45	60	90	94					
SSG2-48	48	60	96	100					
SSG2-50	50	60	100	104					
SSG2-55	55	60	110	114					
SSG2-56	56	60	112	116					
SSG2-60	60	65	120	124					
SSG2-64	64	65	128	132					
SSG2-70	70	70	140	144					
SSG2-75	75	70	150	154					
SSG2-80	80	80	160	164					
SSG2-90	90	80	180	184					
SSG2-100	100	80	200	204					

\* For the permitted torque and backlash of each product, please refer to the dimensional table of the original product.

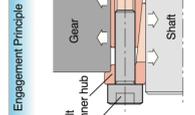
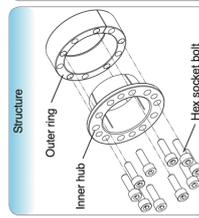
### Features of F Series

- No rattling of shaft and gear when fastening
- Freely positionable mounting for easy meshing of teeth
- Easily mounted and removed for repeated use
- The bushing slides when overloaded to reduce damage to the gears.

### Structure and Engagement Principles

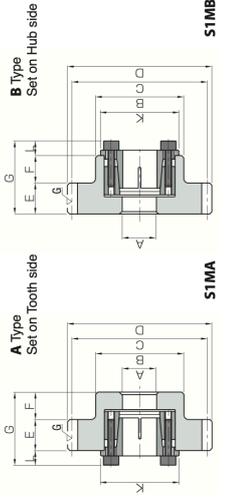
The structure consists of an outer ring and inner ring with split grooves in the tapered part, and hexagon socket head cap screws that convert the force into tightening strength.

In principle, the tightening strength of hexagon socket head cap screws spreads the outer and inner rings by taper engagement, and the gear and shaft become fastened by surface pressure.



Bore	Sintered Metal Bushings			Hex socket bolt	Ref. thrust load	Ref. slipping torque	Ref. slipping torque	Ref. slipping torque	Bushing weight (g)
	A	L	K						
15	31.5	70	9.46	M4x15	70	3.9	66		
16	33	75	9.46		75	3.9	75		
17	33.5	80	12.6		110	3.9	75		
18	34.5	81	12.6		115	3.9	80		
19	35.5	81	12.6		120	3.9	81		
20	42	88	21.6	M5x18	220	8.8	144		
22	44	88	26		290	8.8	165		
25	47	88	27.2		350	8.8	188		
28	50	88	27		380	8.8	195		
30	52	88	27		410	8.8	208		
32	54	88	27		440	8.8	219		
35	62	88	41.1		720	15.7	325		
40	67	88	40.2	M6x20	810	15.7	380		
45	72	88	52.9		1200	15.7	435		
50	10.5	77	56.3		1500	15.7	485		

### F Series



To order F Series products, please specify: **Catalog Number + F + BORE + Type.**

A Type Only  
A B Types

Bore A		15	16	17	18	19	20	22	25	28	30	32	35	40	45	50
SSG2-25 F Bore Type	STIMASHIB	STIMA														
SSG2-26 F Bore Type	STIMASHIB															
SSG2-27 F Bore Type	STIMASHIB															
SSG2-28 F Bore Type	STIMASHIB															
SSG2-29 F Bore Type	STIMASHIB															
SSG2-30 F Bore Type	STIMASHIB															
SSG2-32 F Bore Type	STIMA															
SSG2-34 F Bore Type	STIMASHIB															
SSG2-35 F Bore Type	STIMA															
SSG2-36 F Bore Type	STIMASHIB															
SSG2-38 F Bore Type	STIMASHIB															
SSG2-40 F Bore Type	STIMASHIB															
SSG2-42 F Bore Type	STIMA															
SSG2-44 F Bore Type	STIMASHIB															
SSG2-45 F Bore Type	STIMASHIB															
SSG2-48 F Bore Type	STIMASHIB															
SSG2-50 F Bore Type	STIMA															
SSG2-55 F Bore Type	STIMASHIB															
SSG2-56 F Bore Type	STIMA															
SSG2-60 F Bore Type	STIMASHIB															
SSG2-64 F Bore Type	STIMASHIB															
SSG2-70 F Bore Type	STIMASHIB															
SSG2-75 F Bore Type	STIMASHIB															
SSG2-80 F Bore Type	STIMASHIB															
SSG2-90 F Bore Type	STIMASHIB															
SSG2-100 F Bore Type	STIMASHIB															

[Caution on F 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 fastener components and gears are not black oxide coated.

### Mounting Method and Precautions

- Shaft diameter recommended tolerance is h7. The limit is h8, but we recommend h6 when minimizing runout. Use 1.6a as reference for the surface roughness of the shaft diameter.
- Wipe away any debris, dirt or oil on the shaft surface and hole of the fastened section with thinner or the like, and lightly apply hydraulic oil #68. Do not apply molybdenum-based oil or oil with additives, as this may cause reduced fastening torque or slippage.
- Pass completely through the shaft while pressing the bushing flange against the gear before tightening. Removal will not be possible, so be sure to leave a clearance of 1mm or more on the gear rear surface side. (Fig.1)
- Use a torque wrench to fasten bolts on opposite sides when tightening. First tighten at 1/4 of the regulated torque, then at 1/2 of the regulated torque, before finally tightening up to the regulated torque. Do not tighten without passing through the shaft, or fasten the bolts after insertion on the draft tap side. (Fig.2)
- If the shaft has a keyway, the fastened section contact area is reduced and the transmission rate is decreased by 15 to 20%.

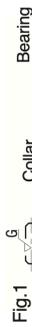


Fig.1

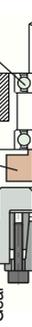


Fig.2



Hex socket bolt

### Removal Method and Precautions

- Turn off the power source (supply), check that no load is applied to the gear, and confirm that there is no danger due to falling, etc.
- Insert removed bolts into all draft taps, and gradually and evenly tighten each bolt in diagonal order until removal is complete.
- The washer and thread surfaces will be roughened, compromising tightening strength. If the bolts are reused. Consequently, we recommend using new bolts of the same size.